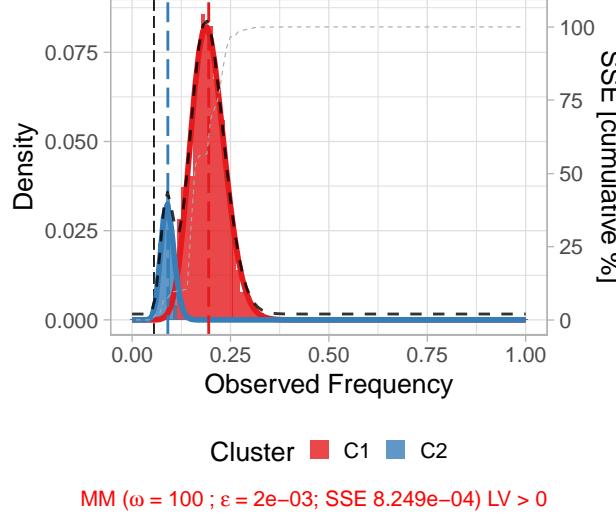


160704_HMFregCPCT_FR10301986_FR12244591_CPCT02020306

ONLY SNVs (min 150 – max 50000)

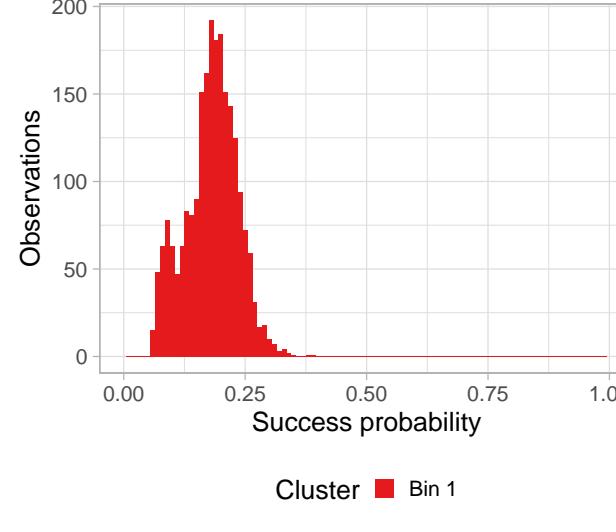
Karyotype: 1:0

N = 2240; Tail 0%, C2 13.37%, C1 86.63%



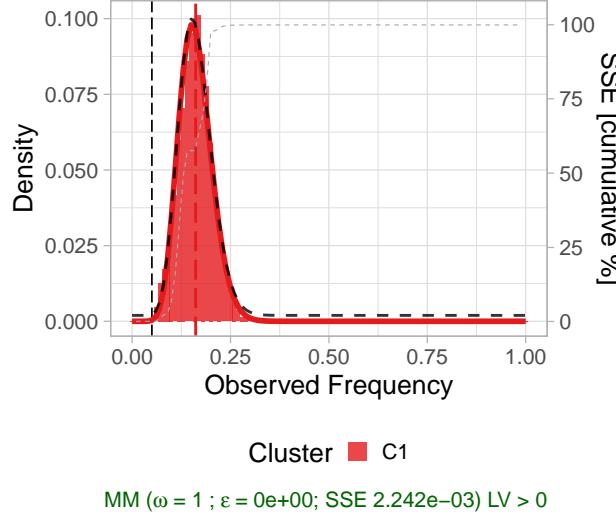
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



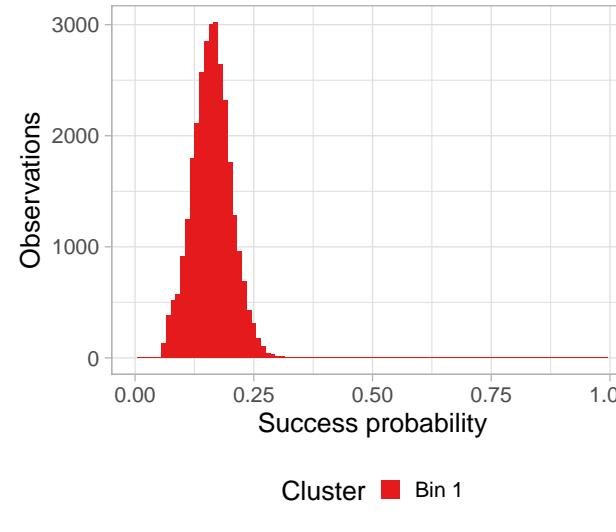
Karyotype: 1:1

N = 29940; Tail 0%, C1 100%



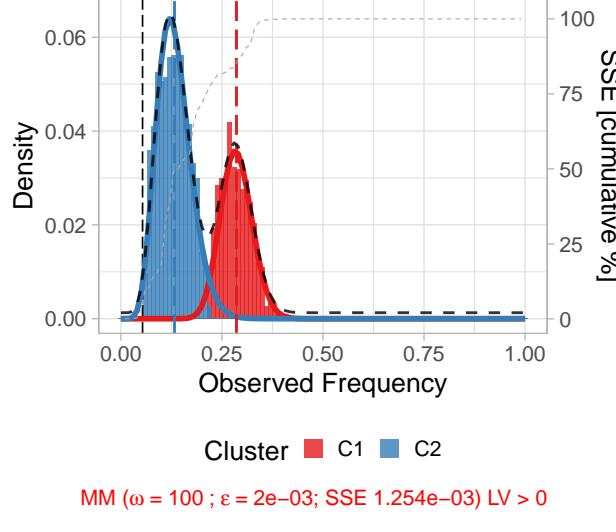
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



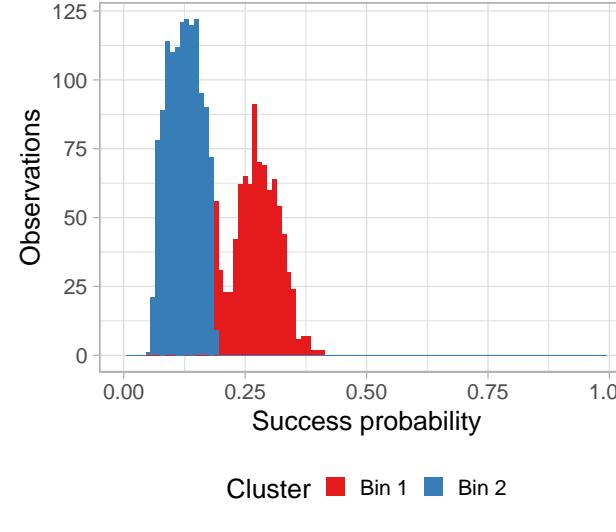
Karyotype: 2:1

N = 2172; Tail 0%, C1 34.92%, C2 65.08%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

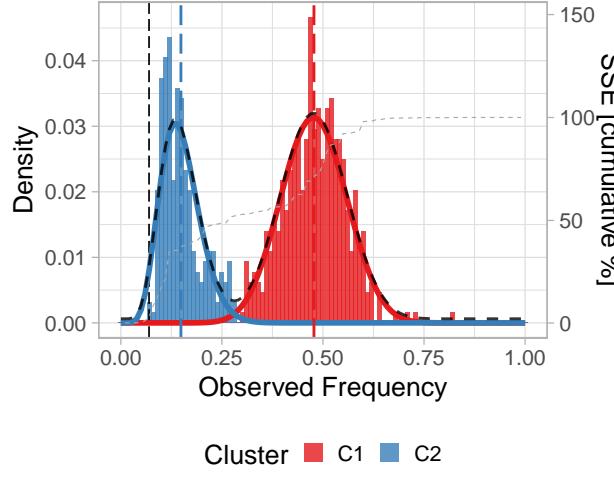
2:2

160704_HMFregCPCT_FR12244543_FR12244602_CPCT02030245

ONLY SNVs (min 150 – max 50000)

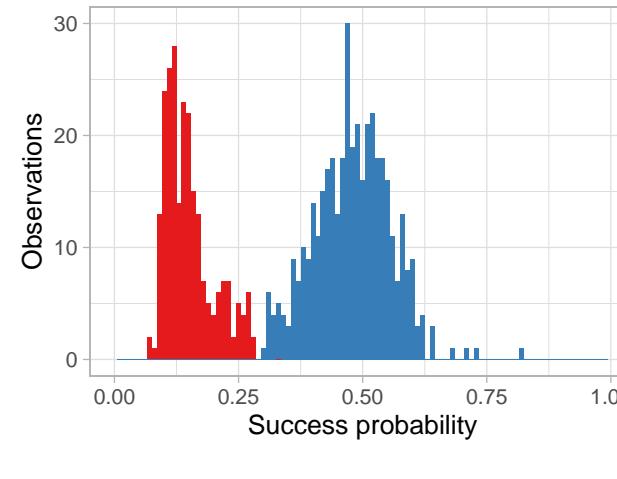
Karyotype: 1:0

N = 643; Tail 0%, C2 36.19%, C1 63.81%



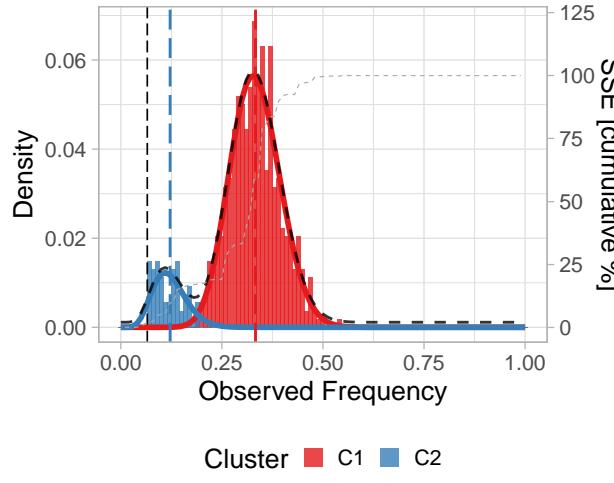
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



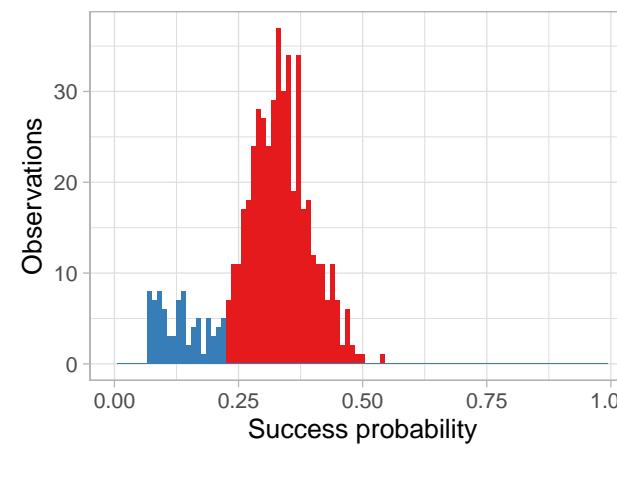
Karyotype: 1:1

N = 539; Tail 0%, C2 12.23%, C1 87.77%



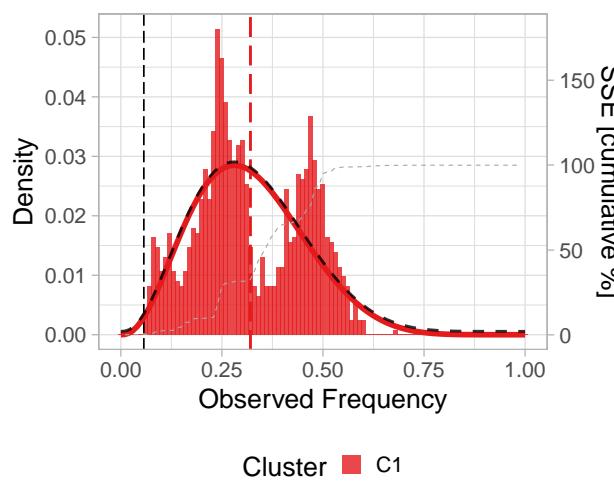
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



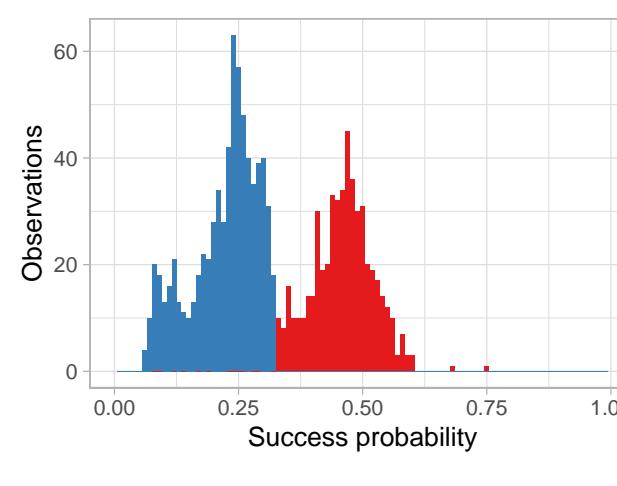
Karyotype: 2:1

N = 1225; Tail 0%, C1 100%



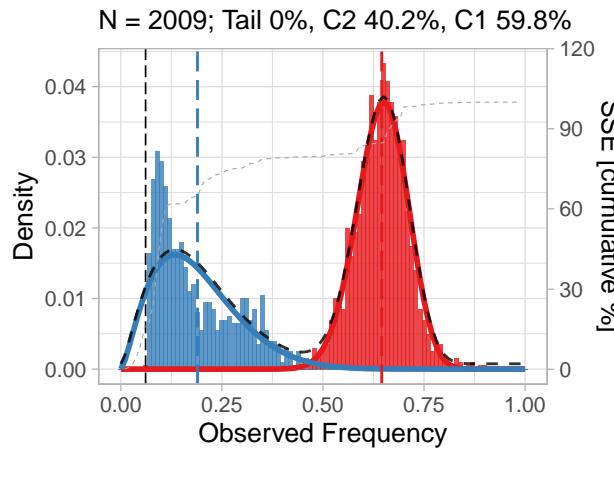
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



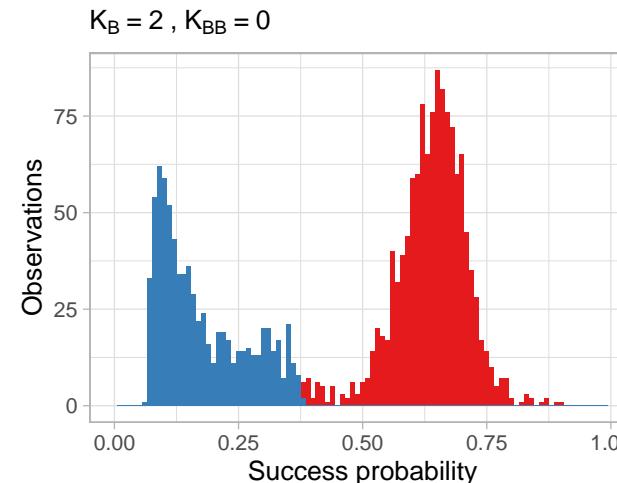
Karyotype: 2:0

N = 2009; Tail 0%, C2 40.2%, C1 59.8%



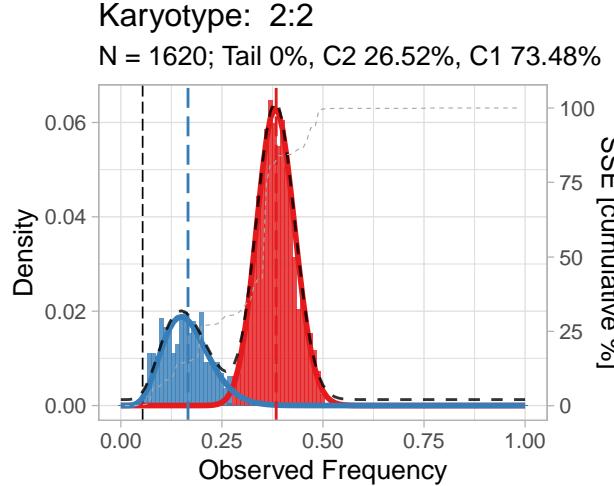
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



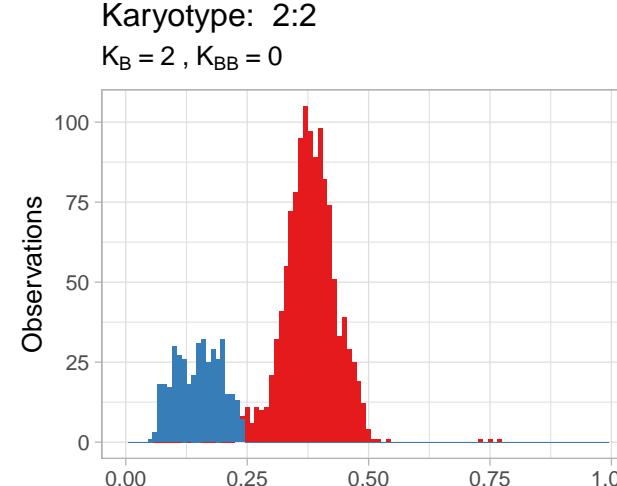
Karyotype: 2:2

N = 1620; Tail 0%, C2 26.52%, C1 73.48%



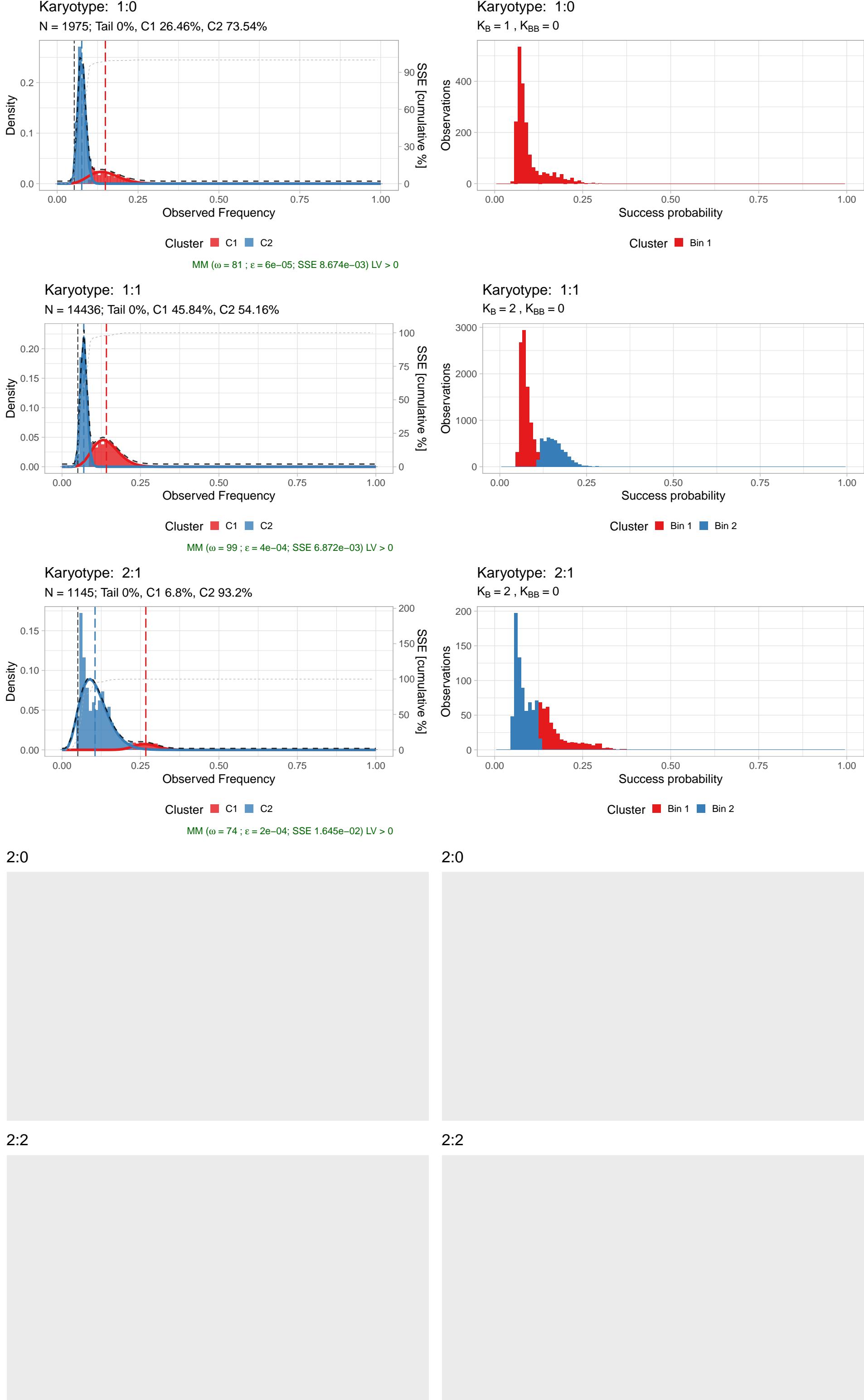
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



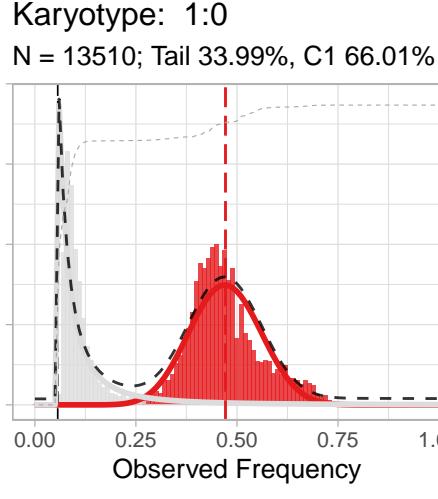
160704_HMFregCPCT_FR12244545_FR12244599_CPCT02100011

ONLY SNVs (min 150 – max 50000)

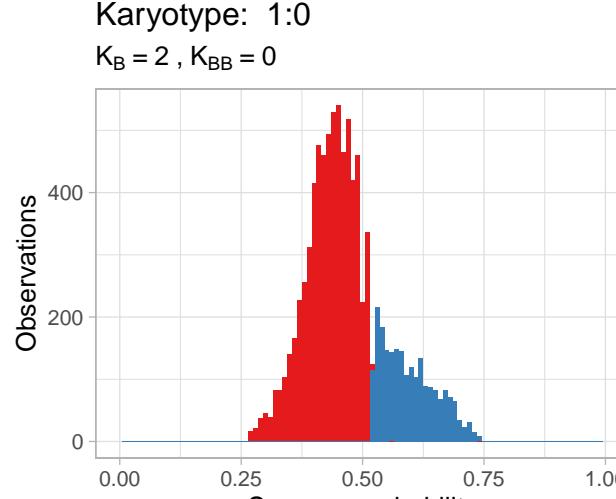


160704_HMFregCPCT_FR12244557_FR12244595_CPCT02110002

ONLY SNVs (min 150 – max 50000)



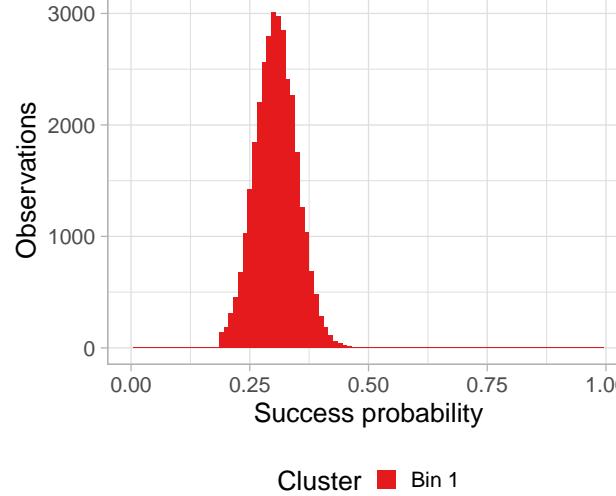
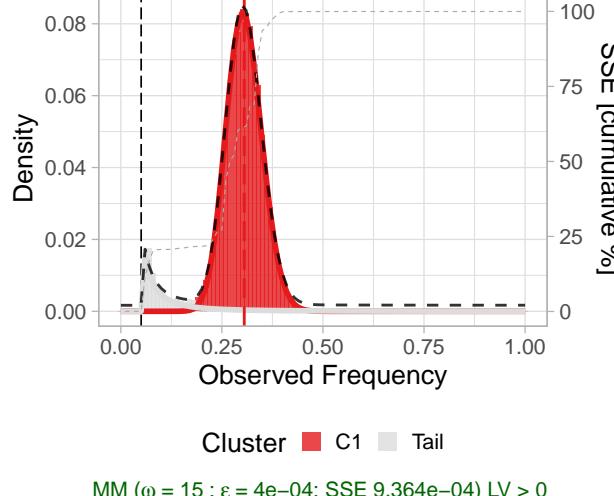
MM ($\omega = 16$; $\epsilon = 1e-05$; SSE 1.090e-02) LV > 0



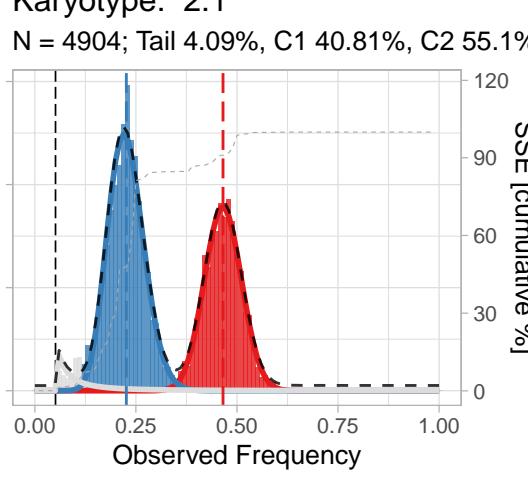
MM ($\omega = 15$; $\epsilon = 4e-04$; SSE 9.364e-04) LV > 0

Karyotype: 1:1
N = 35897; Tail 8.82%, C1 91.18%

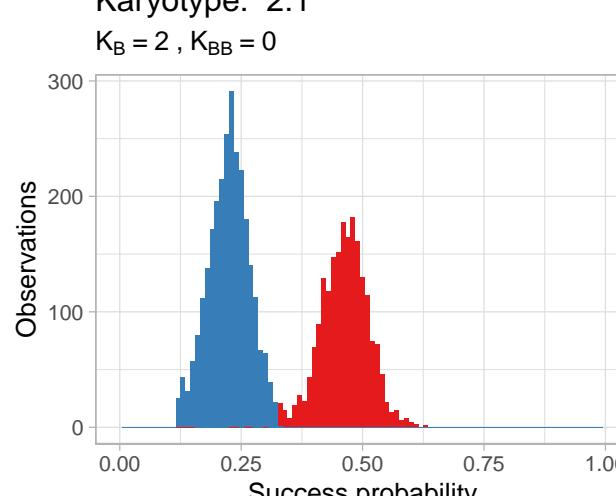
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



MM ($\omega = 15$; $\epsilon = 4e-04$; SSE 9.364e-04) LV > 0



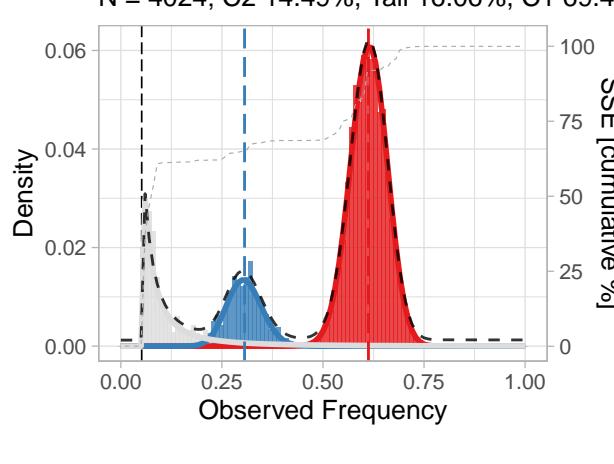
MM ($\omega = 42$; $\epsilon = 3e-04$; SSE 8.346e-04) LV > 0



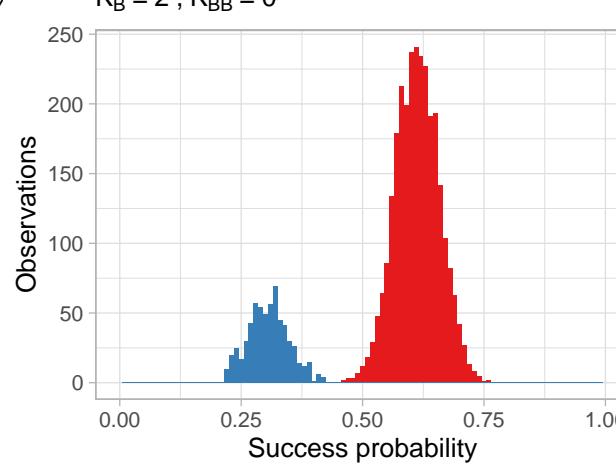
MM ($\omega = 41$; $\epsilon = 3e-05$; SSE 9.444e-04) LV > 0

Karyotype: 2:0
N = 4024; C2 14.49%, Tail 16.06%, C1 69.45%

Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$

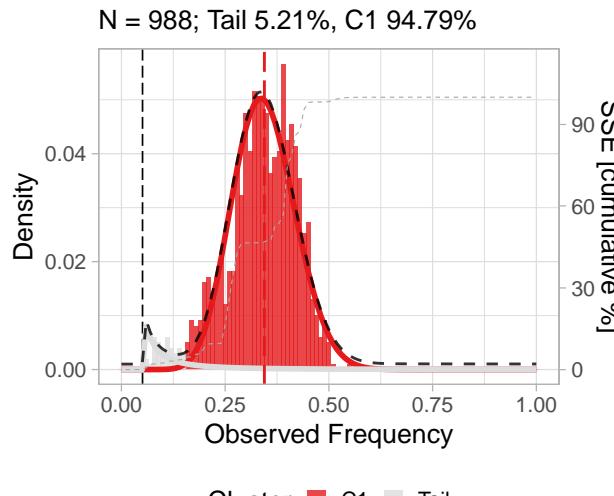


MM ($\omega = 41$; $\epsilon = 3e-05$; SSE 9.444e-04) LV > 0

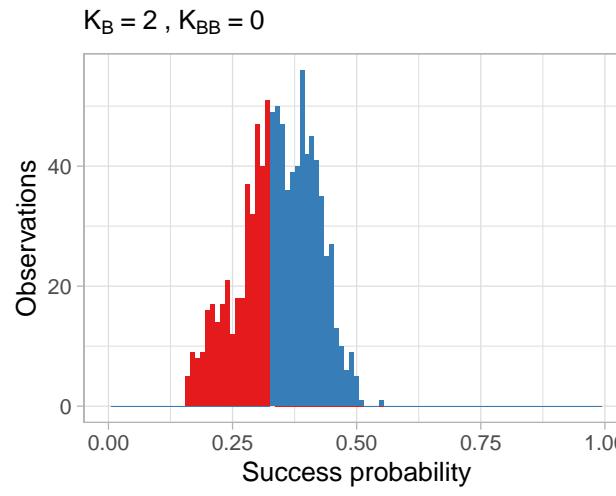


Karyotype: 2:2
N = 988; Tail 5.21%, C1 94.79%

Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$



MM ($\omega = 22$; $\epsilon = 1e-04$; SSE 2.452e-03) LV > 0



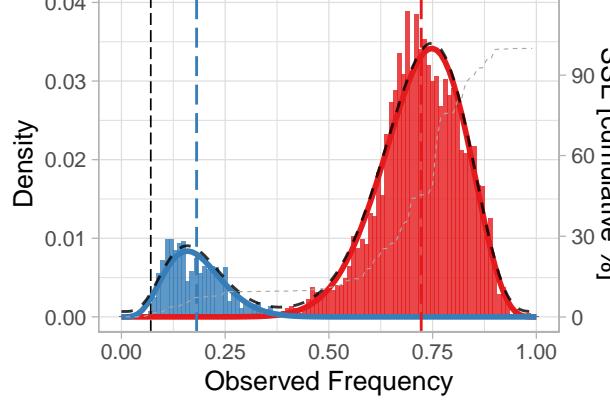
MM ($\omega = 22$; $\epsilon = 1e-04$; SSE 2.452e-03) LV > 0

160704_HMFregCPCT_FR12244561_FR12244603_CPCT02030247

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

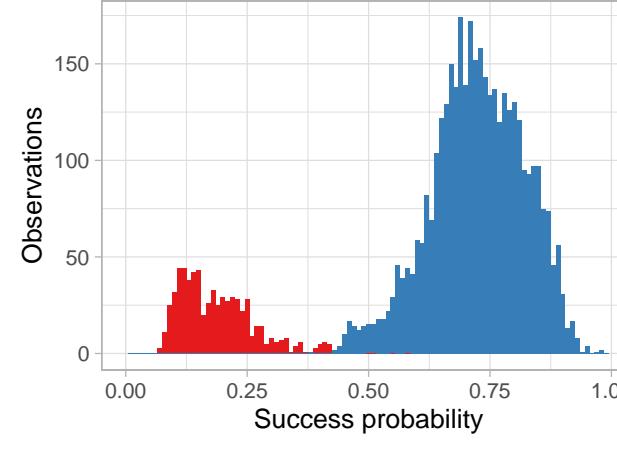
N = 4473; Tail 0%, C2 14.19%, C1 85.81%



MM ($\omega = 67$; $\varepsilon = 1e-03$; SSE $7.631e-04$) LV > 0

Karyotype: 1:0

$K_B = 2, K_{BB} = 0$

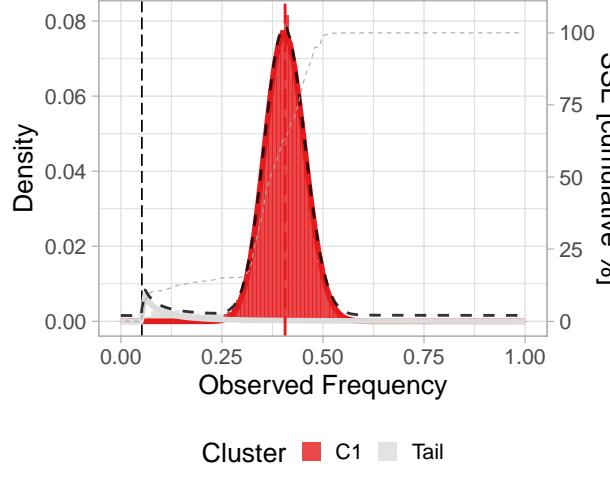


Cluster ■ C1 ■ C2

Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

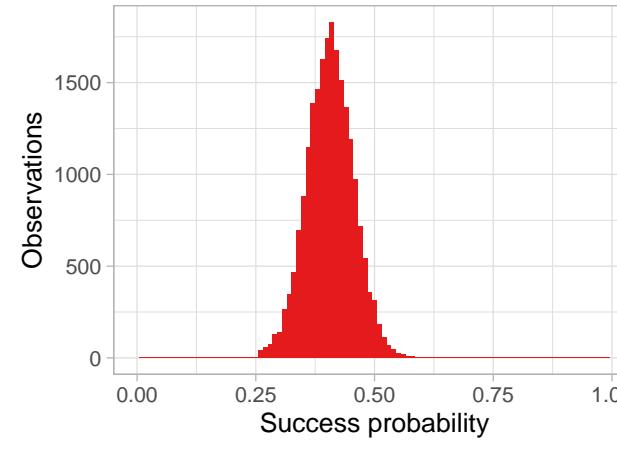
N = 22470; Tail 5.36%, C1 94.64%



MM ($\omega = 10$; $\varepsilon = 5e-04$; SSE $5.563e-04$) LV > 0

Karyotype: 1:1

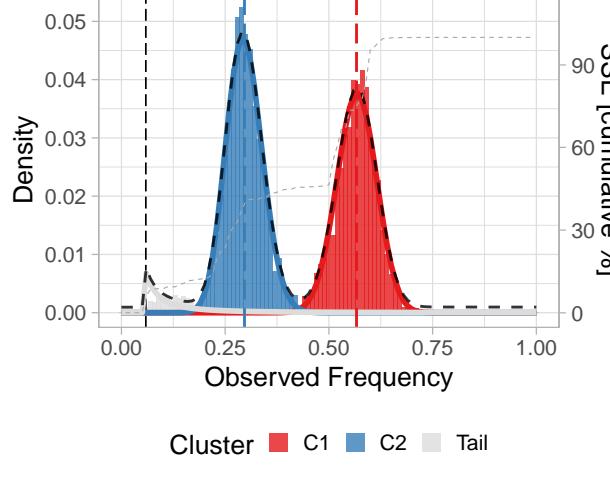
$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

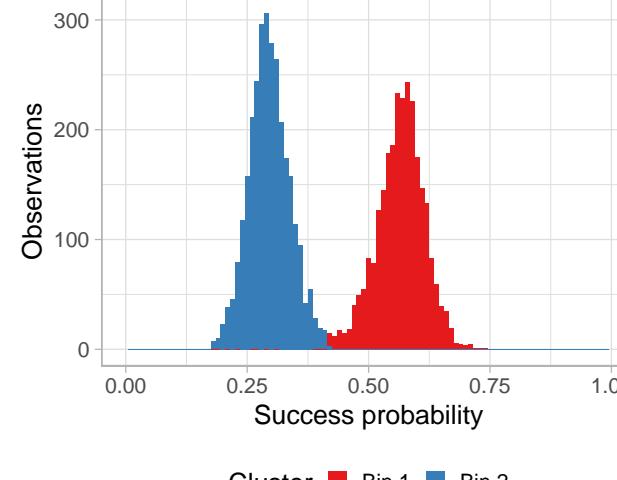
N = 5831; Tail 3.77%, C1 45.11%, C2 51.12%



MM ($\omega = 26$; $\varepsilon = 4e-05$; SSE $5.886e-04$) LV > 0

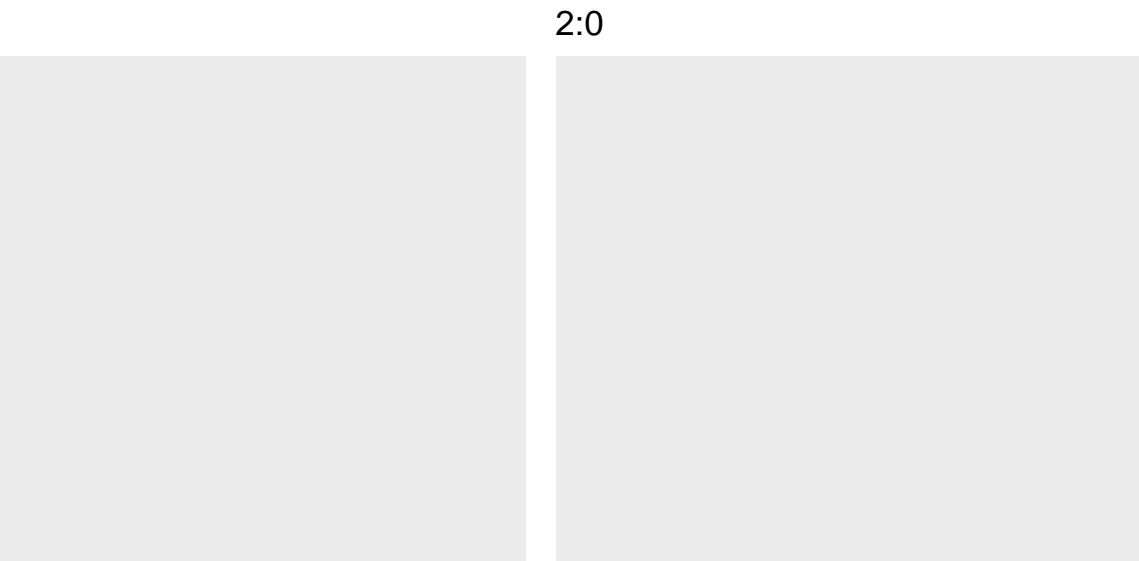
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



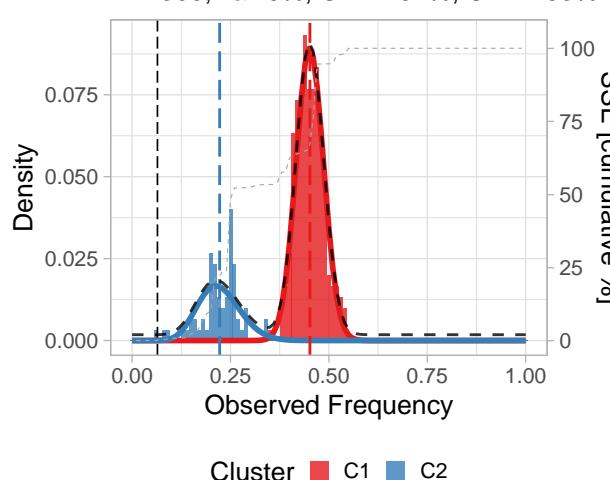
Cluster ■ Bin 1 ■ Bin 2

2:0



Karyotype: 2:2

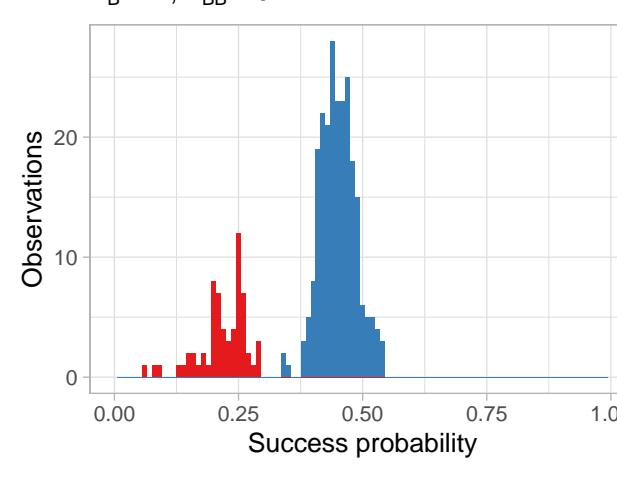
N = 300; Tail 0%, C2 22.07%, C1 77.93%



MM ($\omega = 21$; $\varepsilon = 2e-04$; SSE $3.649e-03$) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

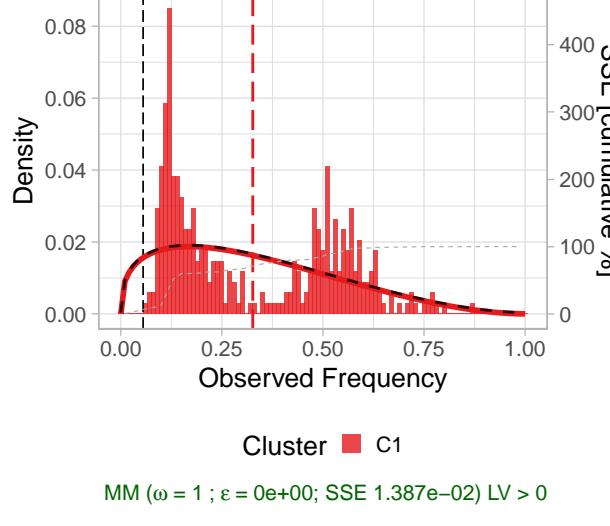
2:0

160709_HMFregCPCT_FR10301841_FR12244644_CPCT02020314

ONLY SNVs (min 150 – max 50000)

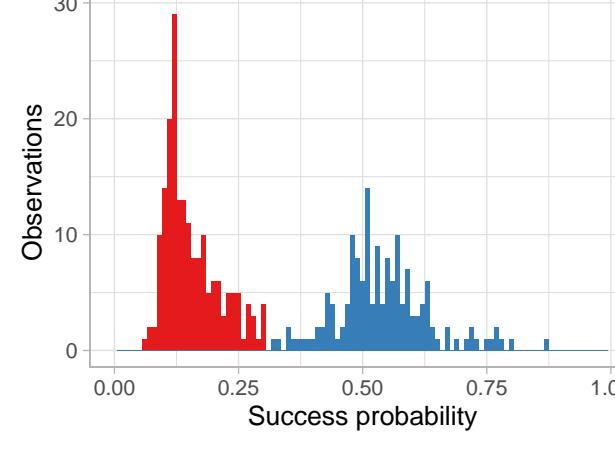
Karyotype: 1:0

N = 341; Tail 0%, C1 100%



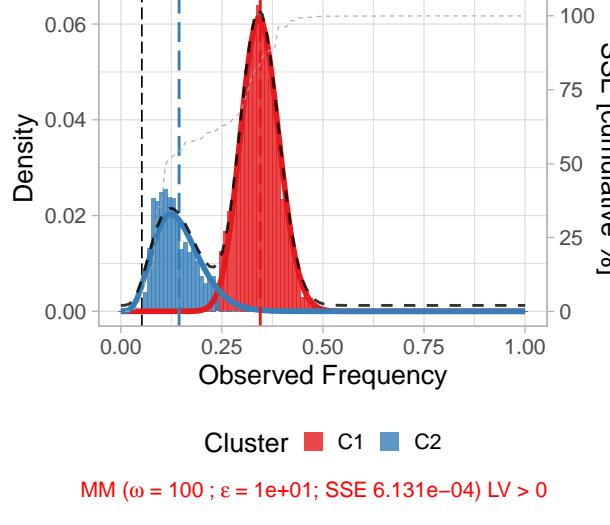
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



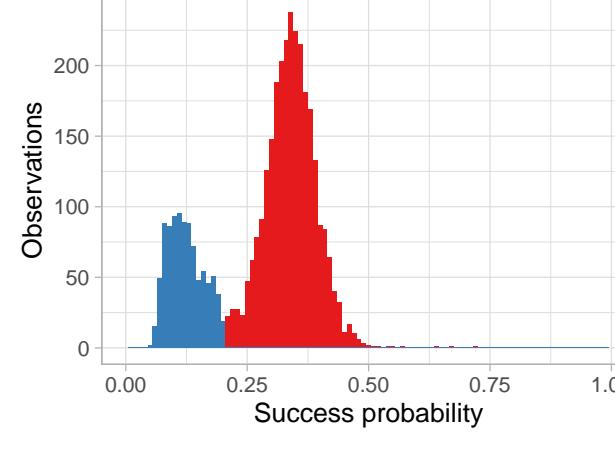
Karyotype: 1:1

N = 3726; Tail 0%, C2 28.23%, C1 71.77%



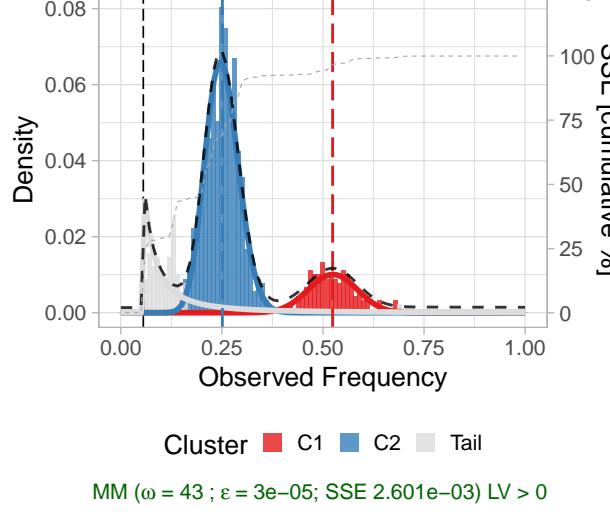
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



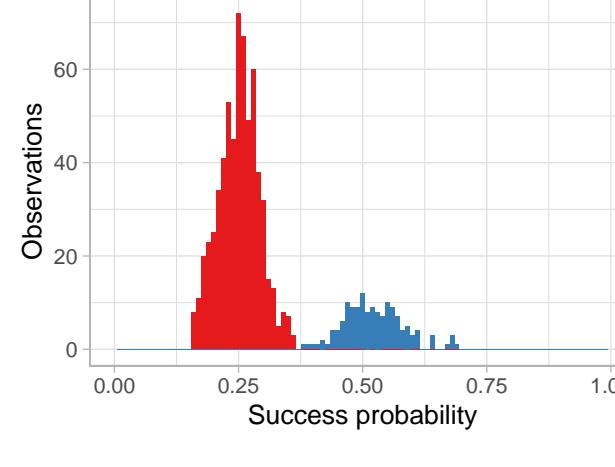
Karyotype: 2:1

N = 895; C1 15.12%, Tail 17.09%, C2 67.79%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

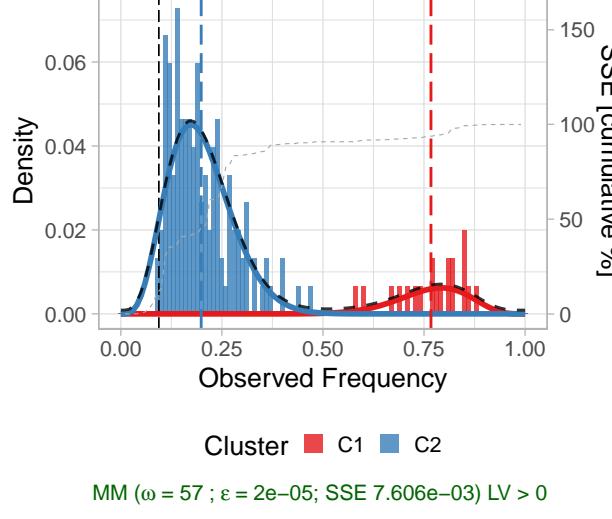
2:2

160709_HMFregCPCT_FR10301926_FR10301880_CPCT02020307

ONLY SNVs (min 150 – max 50000)

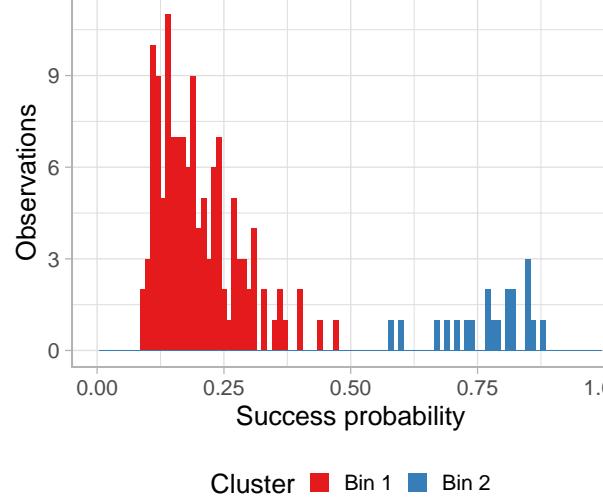
Karyotype: 1:0

N = 151; Tail 0%, C1 13.34%, C2 86.66%



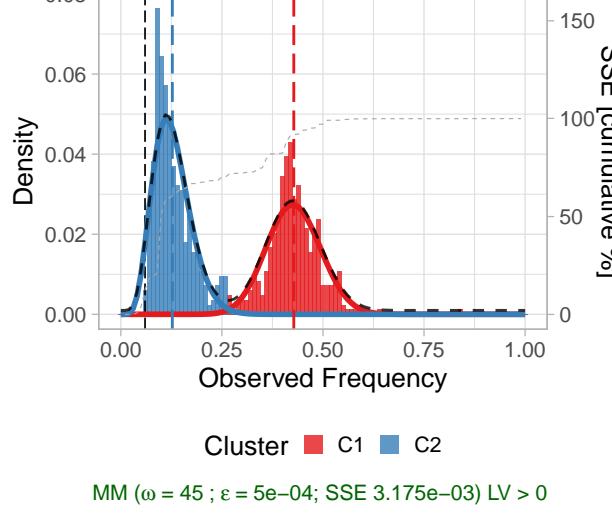
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



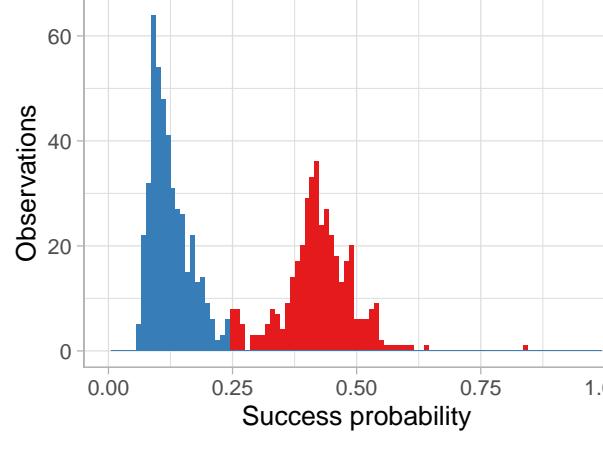
Karyotype: 1:1

N = 838; Tail 0%, C1 45.82%, C2 54.18%



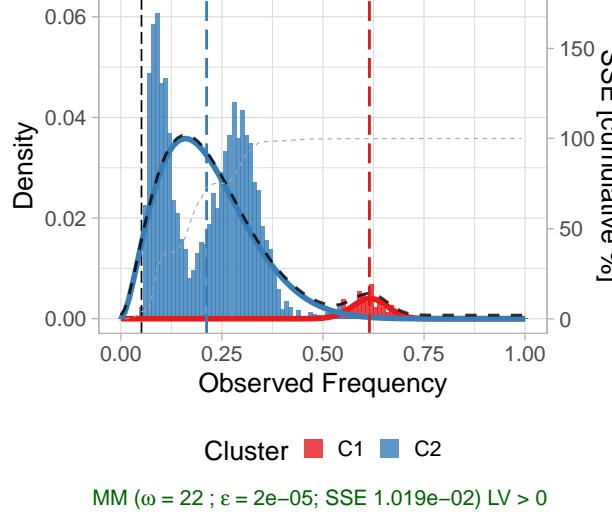
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



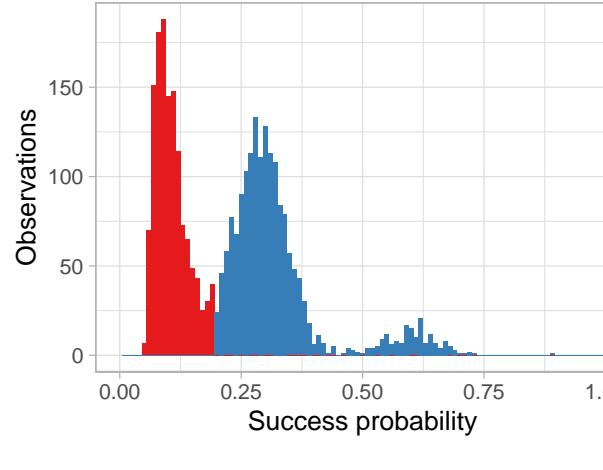
Karyotype: 2:1

N = 3094; Tail 0%, C1 4.38%, C2 95.62%



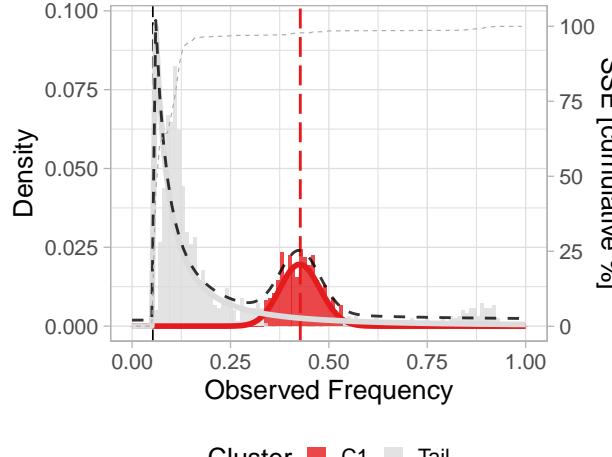
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



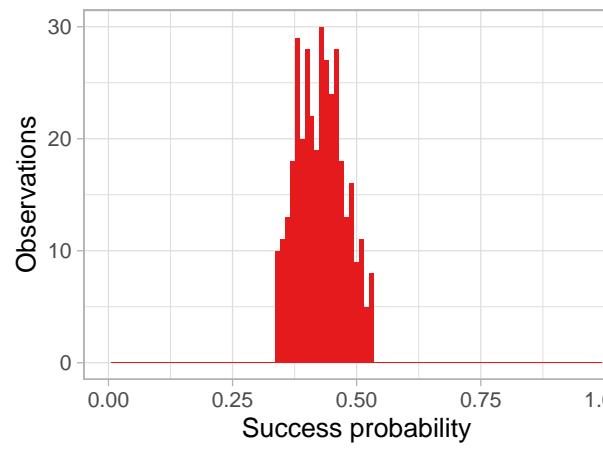
Karyotype: 2:0

N = 1240; C1 24.9%, Tail 75.1%



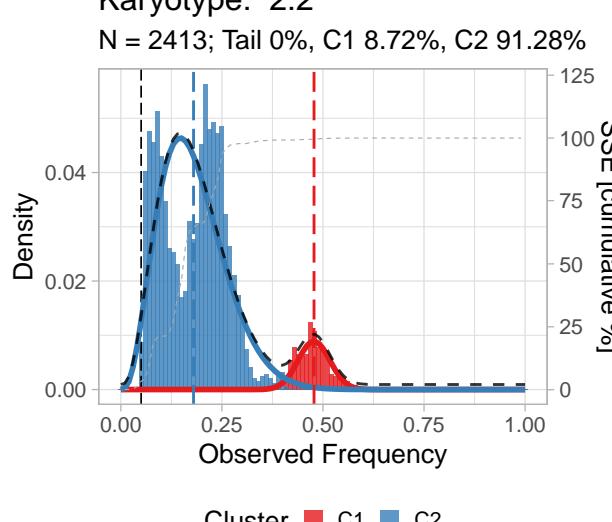
Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$



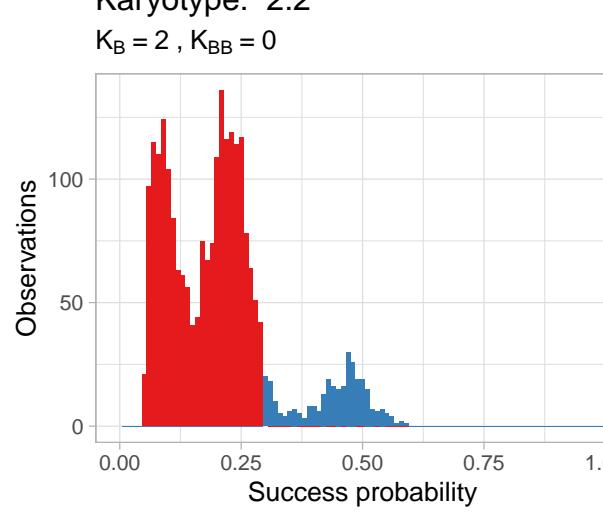
Karyotype: 2:2

N = 2413; Tail 0%, C1 8.72%, C2 91.28%



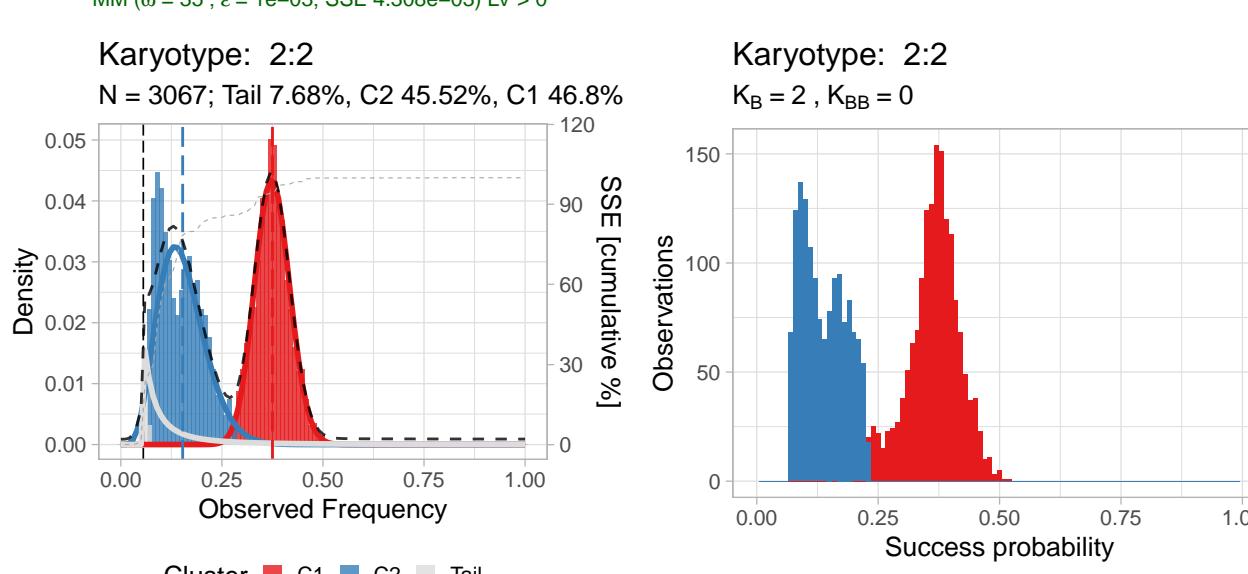
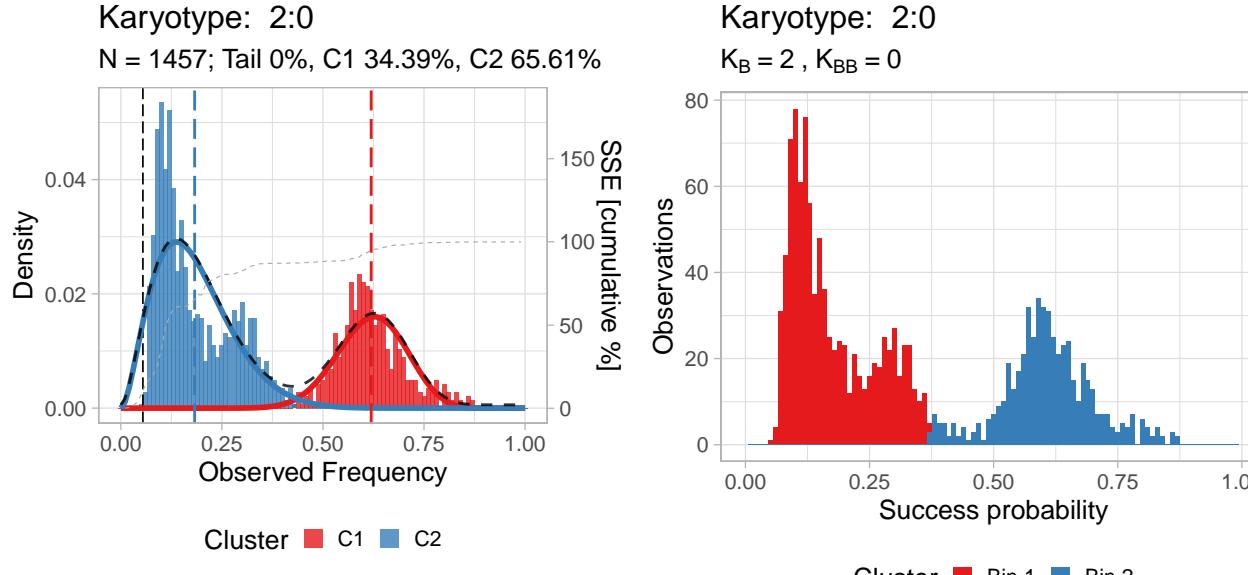
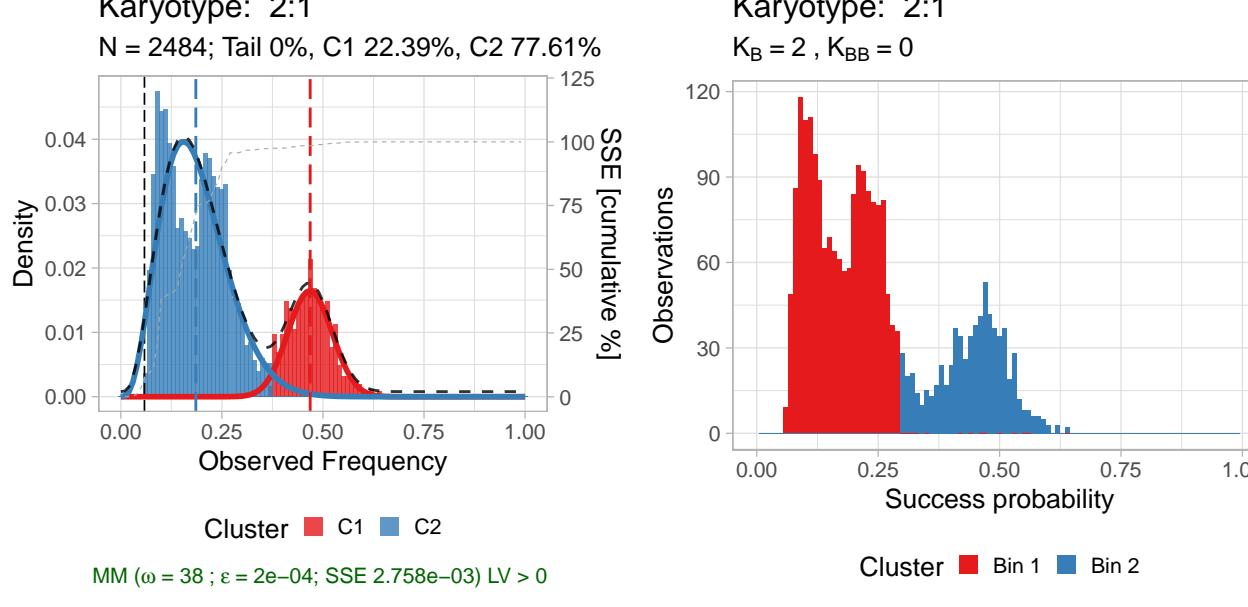
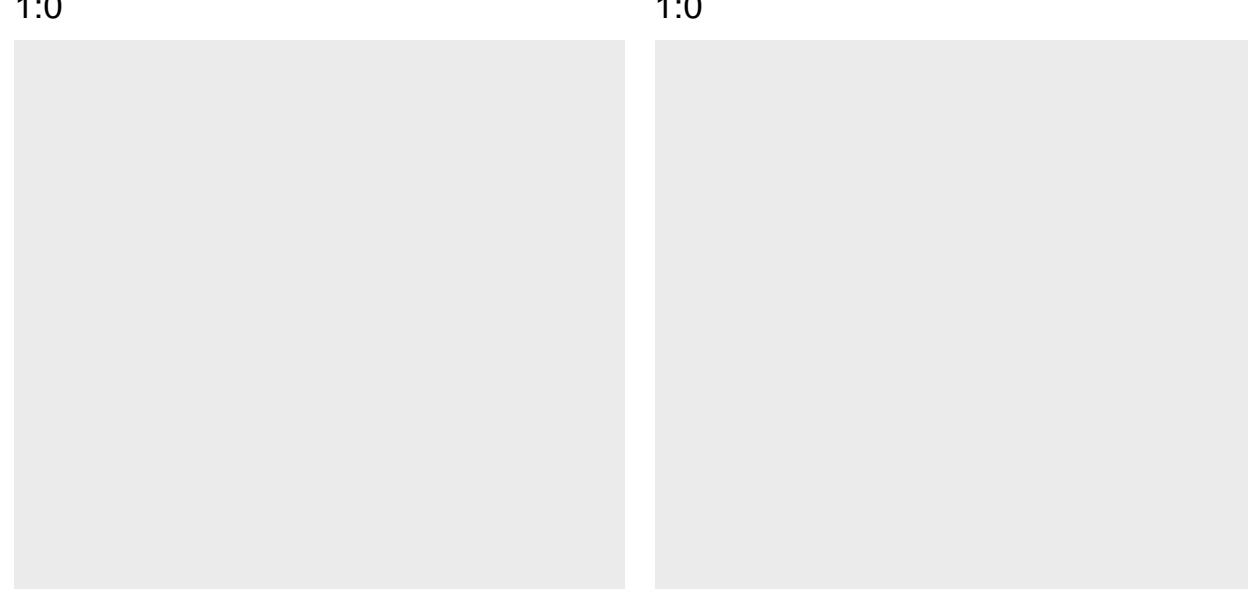
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



160709_HMFregCPCT_FR10301967_FR10301879_CPCT02020310

ONLY SNVs (min 150 – max 50000)

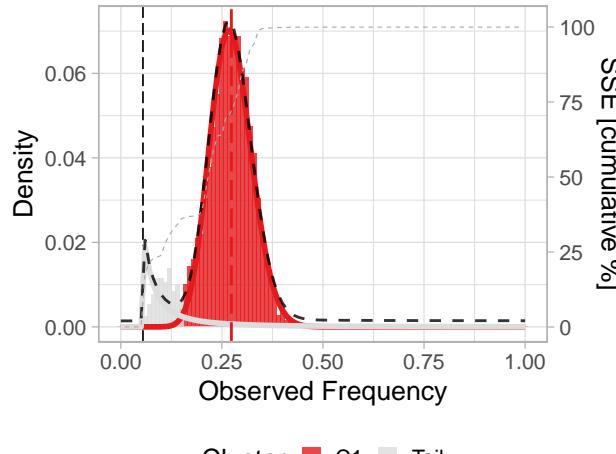


160709_HMFregCPCT_FR10301974_FR10301881_CPCT02020308

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 5897; Tail 10.56%, C1 89.44%

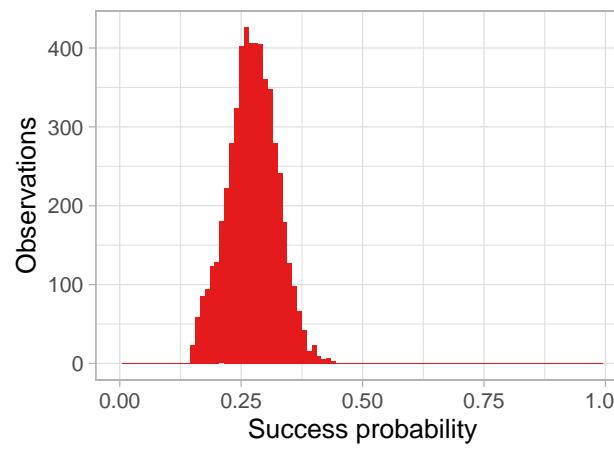


Cluster ■ C1 ■ Tail

MM ($\omega = 25$; $\varepsilon = 3e-04$; SSE $1.877e-03$) LV > 0

Karyotype: 1:0

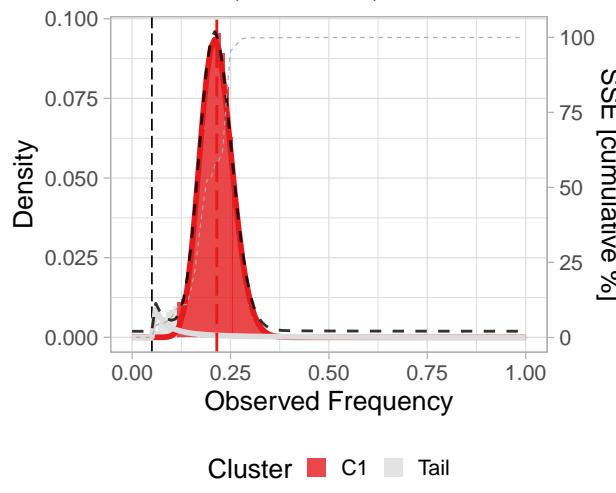
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 1:1

N = 50562; Tail 5.78%, C1 94.22%

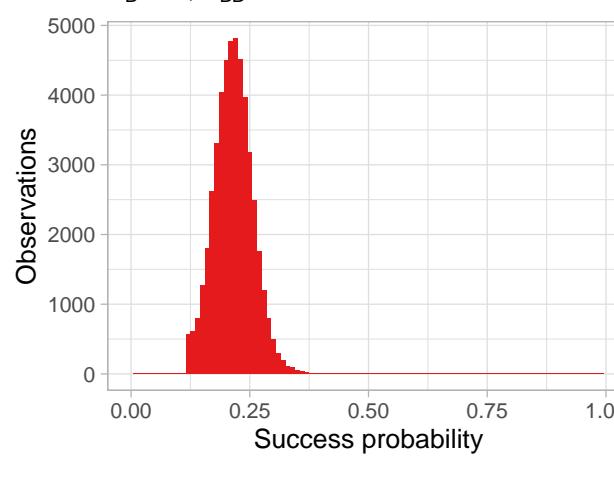


Cluster ■ C1 ■ Tail

MM ($\omega = 28$; $\varepsilon = 2e-03$; SSE $1.469e-03$) LV > 0

Karyotype: 1:1

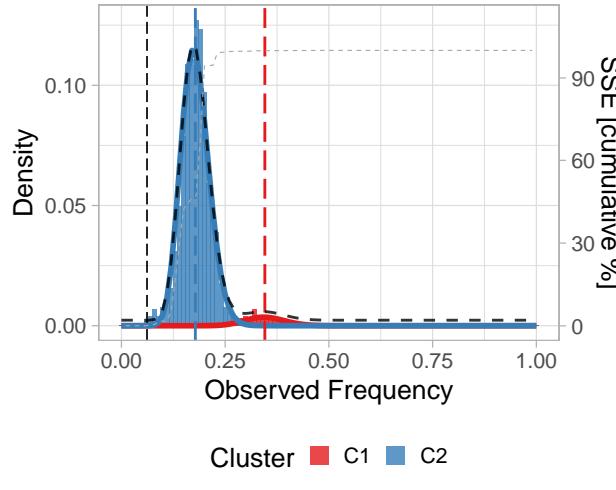
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

N = 1030; Tail 0%, C1 4.19%, C2 95.81%

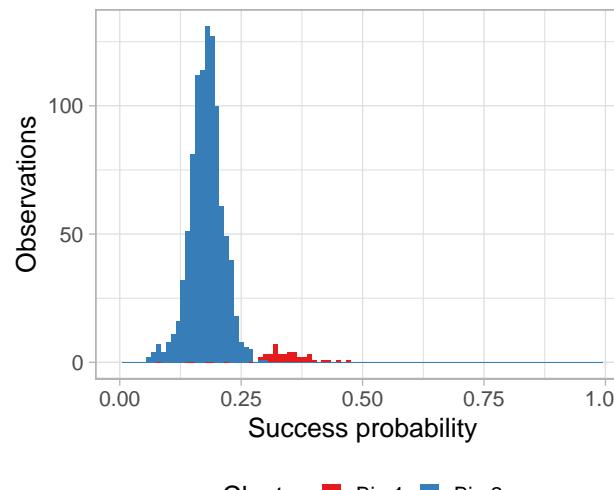


Cluster ■ C1 ■ C2

MM ($\omega = 22$; $\varepsilon = 3e-04$; SSE $4.545e-03$) LV > 0

Karyotype: 2:1

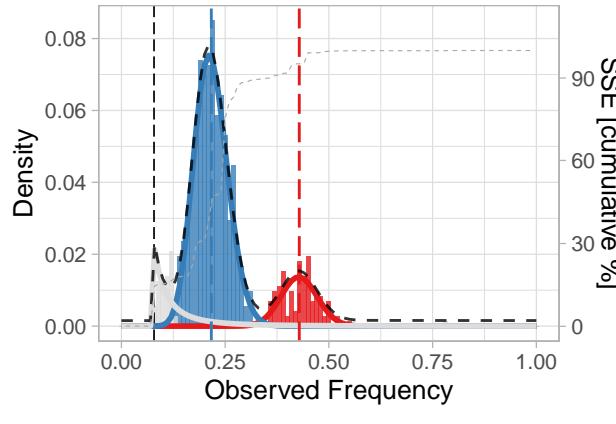
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 717; Tail 9.51%, C1 14.86%, C2 75.63%

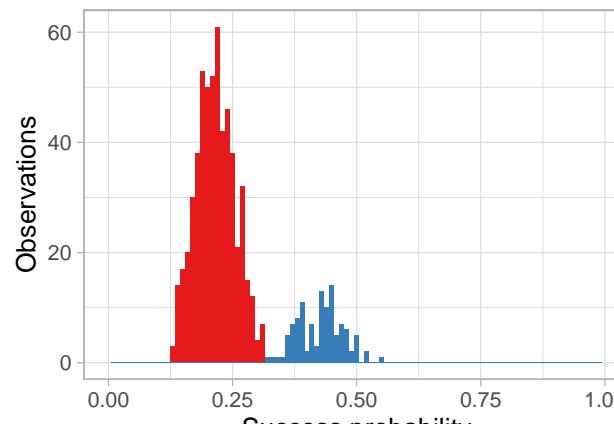


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 44$; $\varepsilon = 1e-05$; SSE $2.708e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



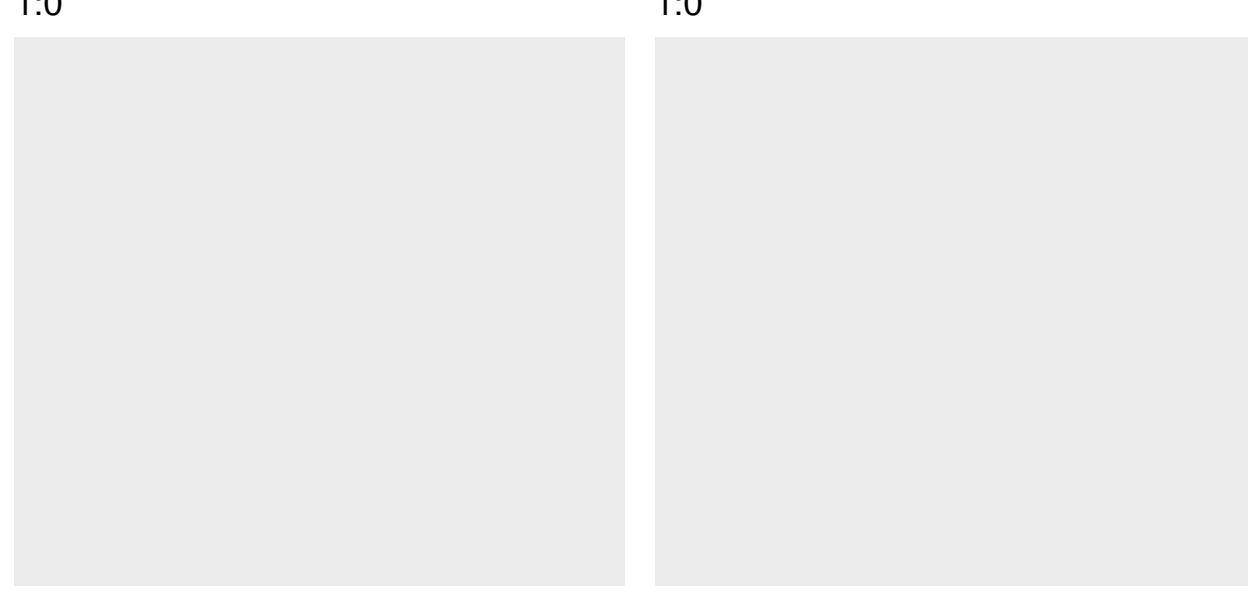
Cluster ■ Bin 1 ■ Bin 2

2:2

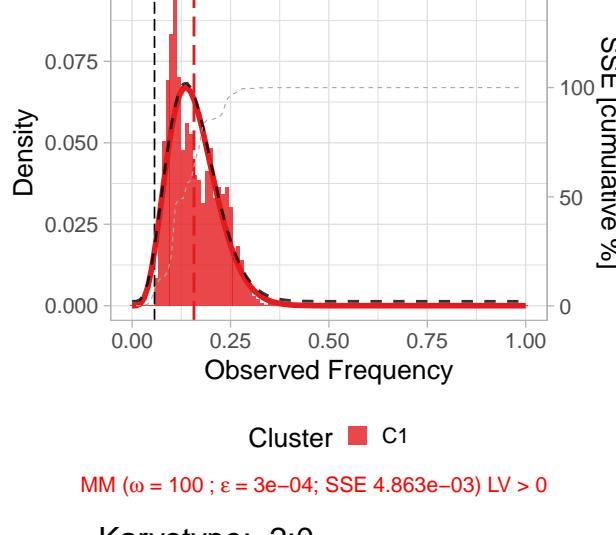
2:2

160709_HMFregCPCT_FR12244548_FR12244645_CPCT02020318

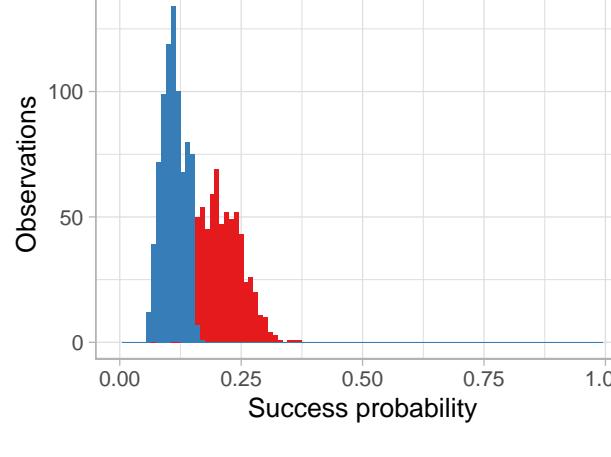
ONLY SNVs (min 150 – max 50000)



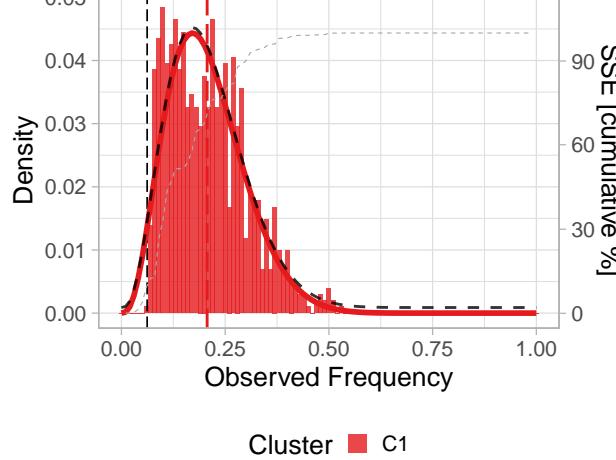
Karyotype: 2:1
N = 1428; Tail 0%, C1 100%



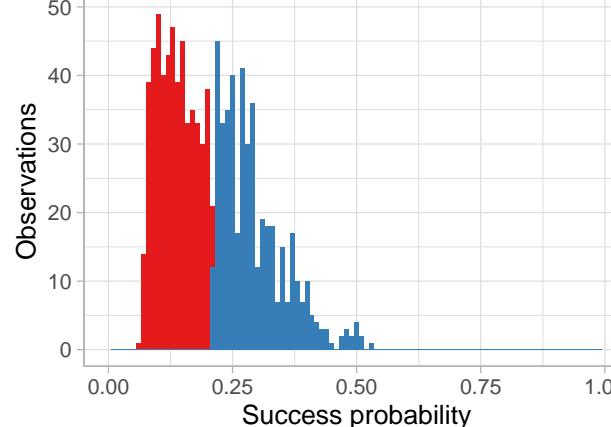
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



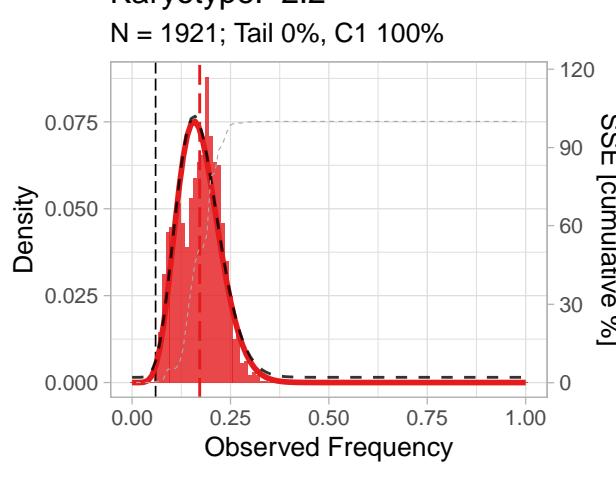
Karyotype: 2:0
N = 1012; Tail 0%, C1 100%



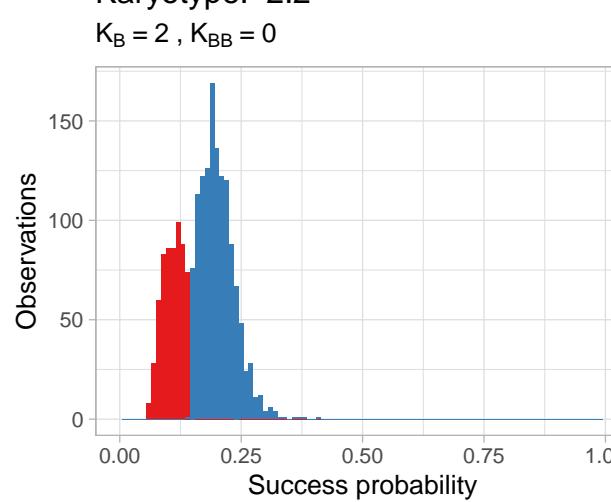
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 1921; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

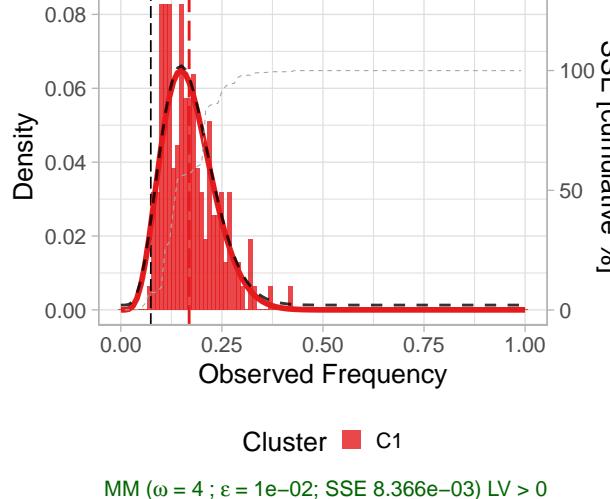


160709_HMFregCPCT_FR12244567_FR12244534_CPCT02010349

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

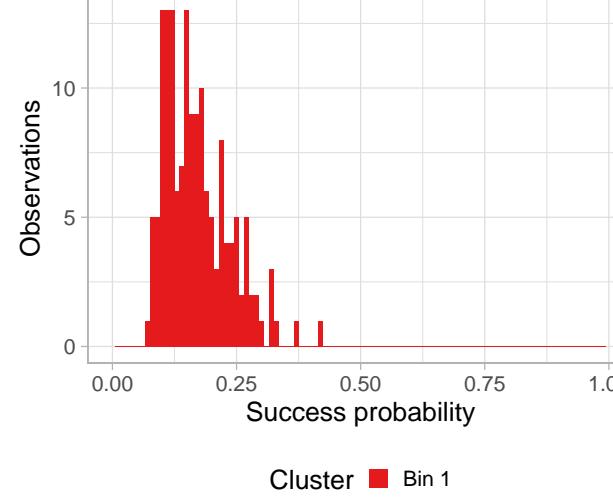
N = 157; Tail 0%, C1 100%



MM ($\omega = 4$; $\epsilon = 1e-02$; SSE 8.366e-03) LV > 0

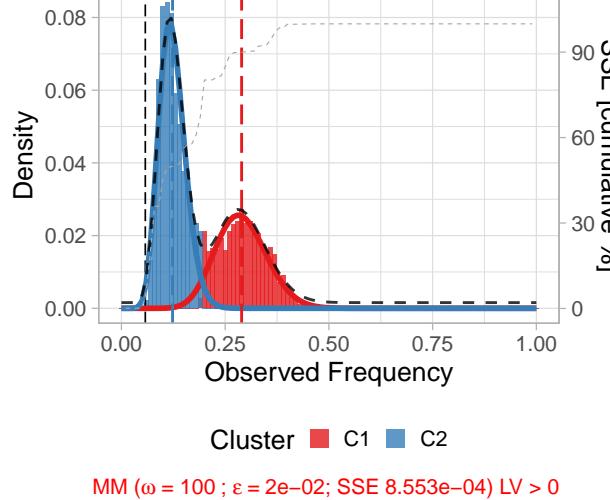
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

N = 4125; Tail 0%, C1 39.07%, C2 60.93%

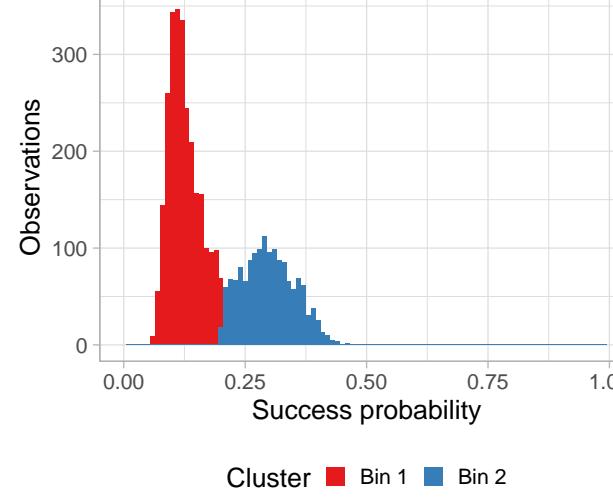


Cluster ■ C1 ■ C2

MM ($\omega = 100$; $\epsilon = 2e-02$; SSE 8.553e-04) LV > 0

Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:1

2:1

2:0

2:0

2:2

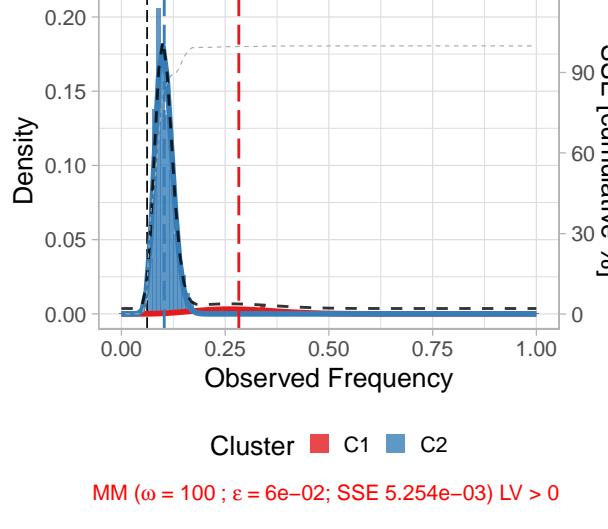
2:2

160711_HMFregCPCT_FR03631794_FR12244647_CPCT02070011

ONLY SNVs (min 150 – max 50000)

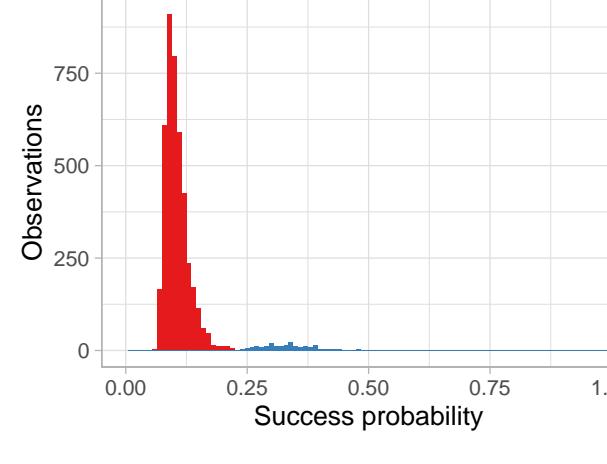
Karyotype: 1:0

N = 4413; Tail 0%, C1 7.46%, C2 92.54%



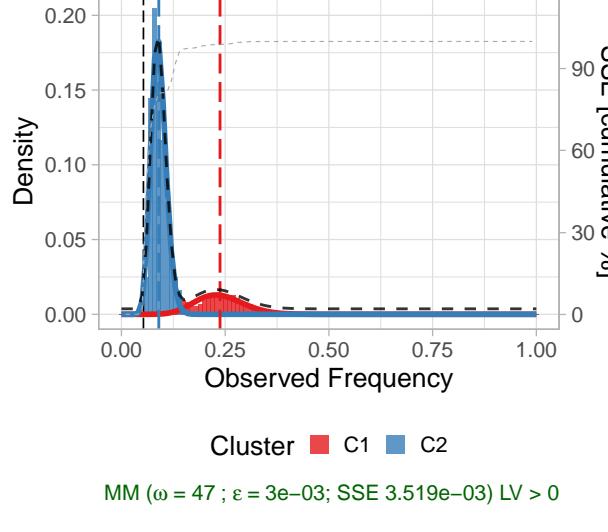
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



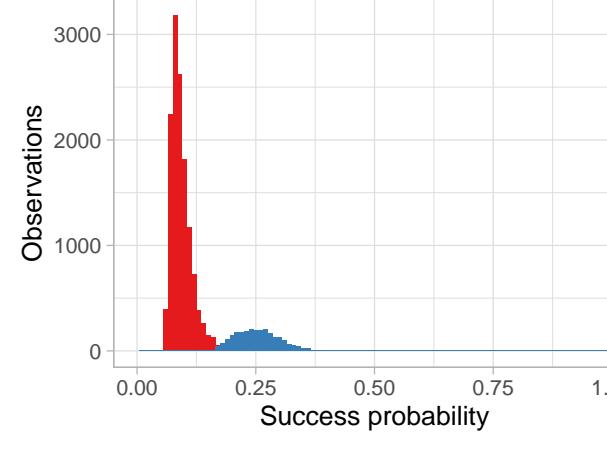
Karyotype: 1:1

N = 15571; Tail 0%, C1 18.45%, C2 81.55%



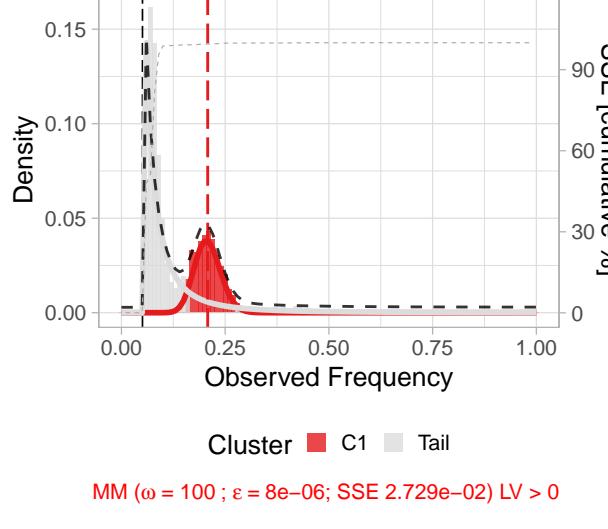
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



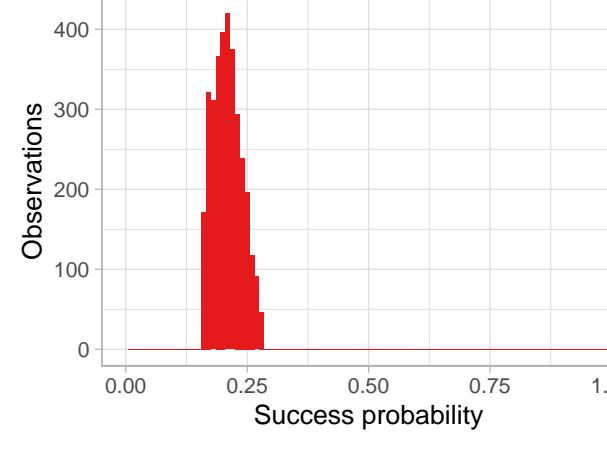
Karyotype: 2:1

N = 9692; C1 29.81%, Tail 70.19%



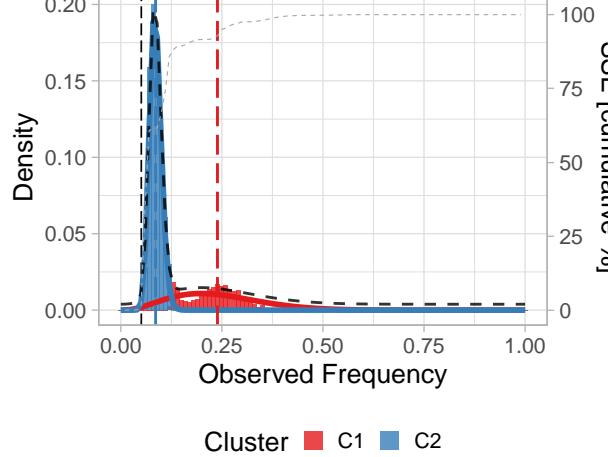
Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$



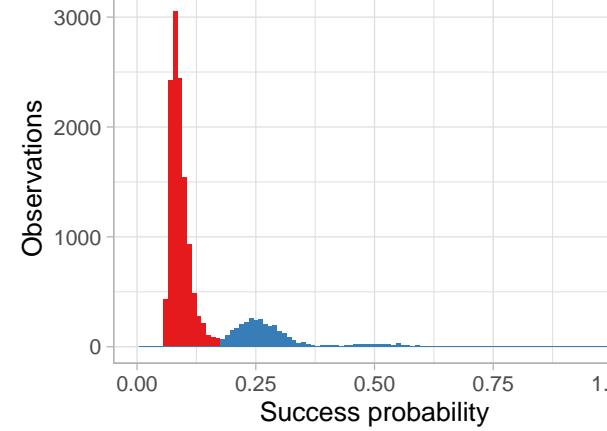
Karyotype: 2:0

N = 15285; Tail 0%, C1 29.14%, C2 70.86%



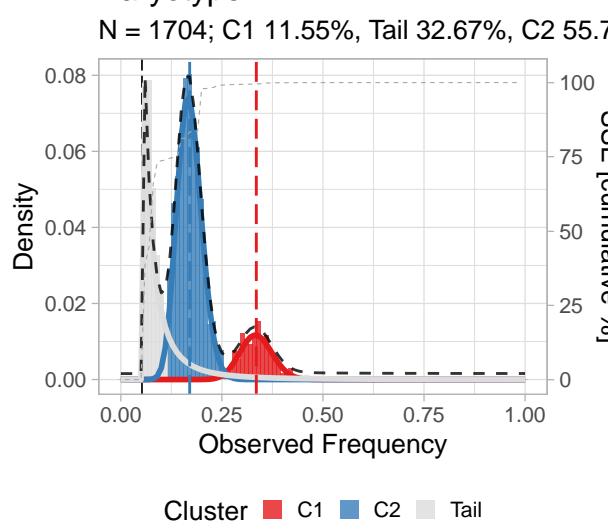
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



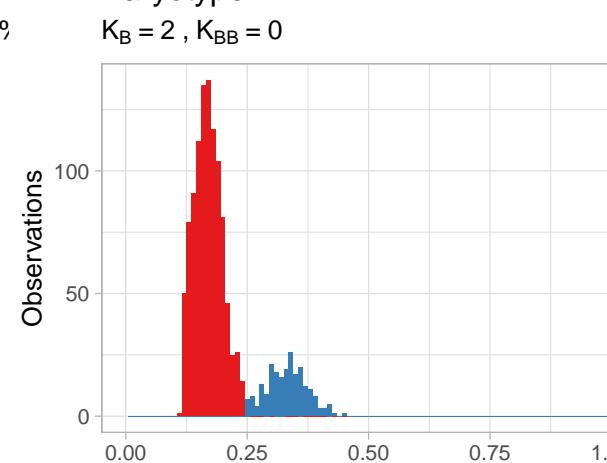
Karyotype: 2:2

N = 1704; C1 11.55%, Tail 32.67%, C2 55.78%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

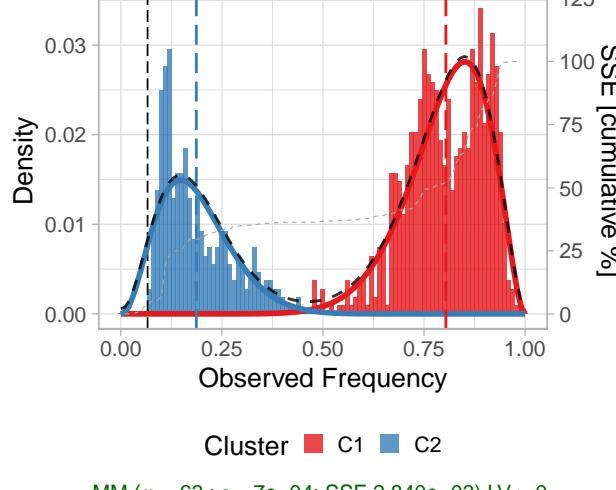


160711_HMFregCPCT_FR12244547_FR12244646_CPCT02020319

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

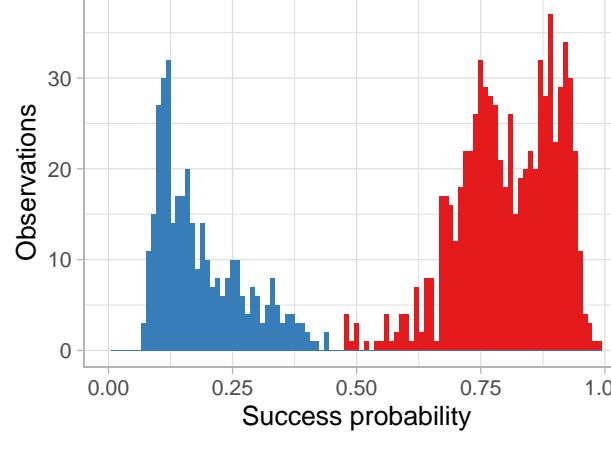
N = 1084; Tail 0%, C2 32.27%, C1 67.73%



MM ($\omega = 63$; $\epsilon = 7e-04$; SSE $2.840e-03$) LV > 0

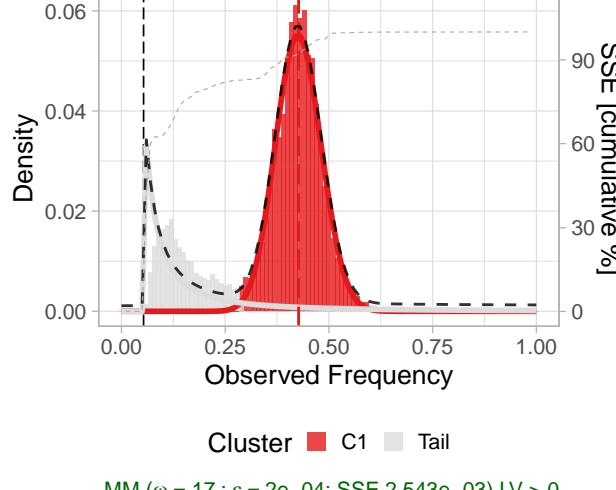
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

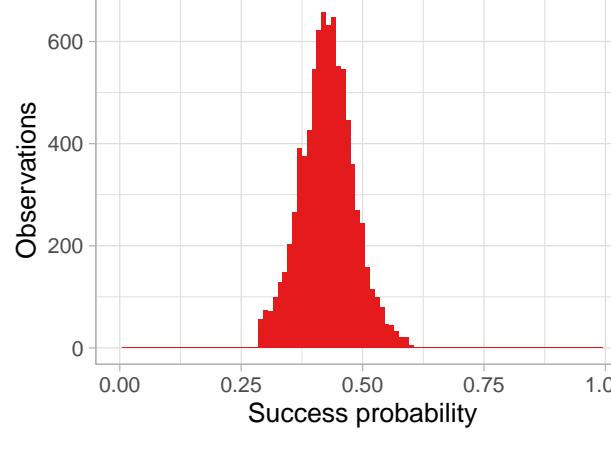
N = 10775; Tail 24.45%, C1 75.55%



MM ($\omega = 17$; $\epsilon = 2e-04$; SSE $2.543e-03$) LV > 0

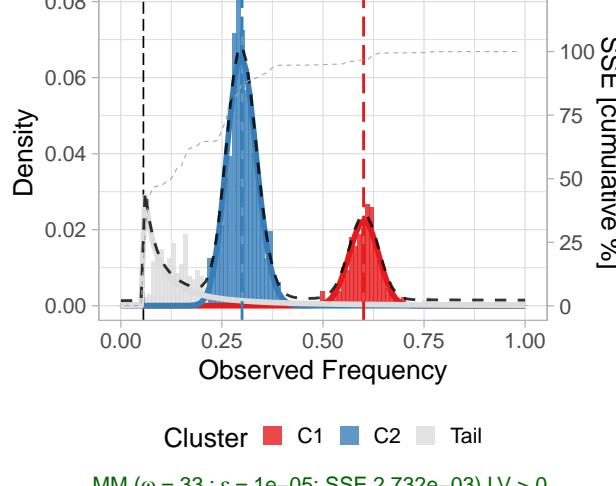
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

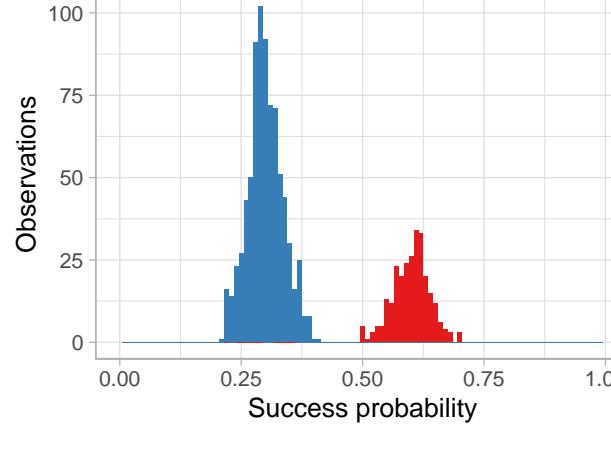
N = 1268; Tail 19.93%, C1 20.25%, C2 59.82%



MM ($\omega = 33$; $\epsilon = 1e-05$; SSE $2.732e-03$) LV > 0

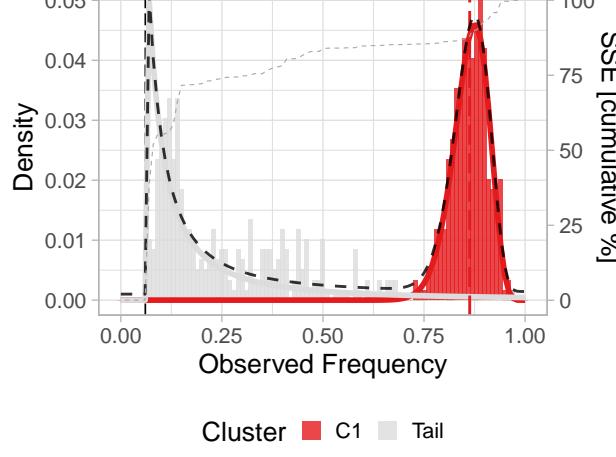
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

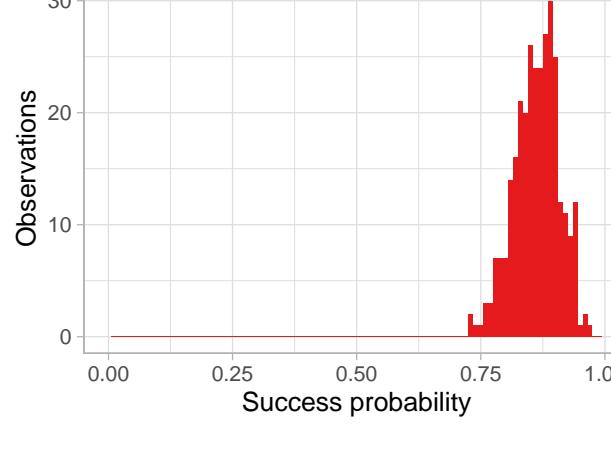
N = 595; Tail 49.95%, C1 50.05%



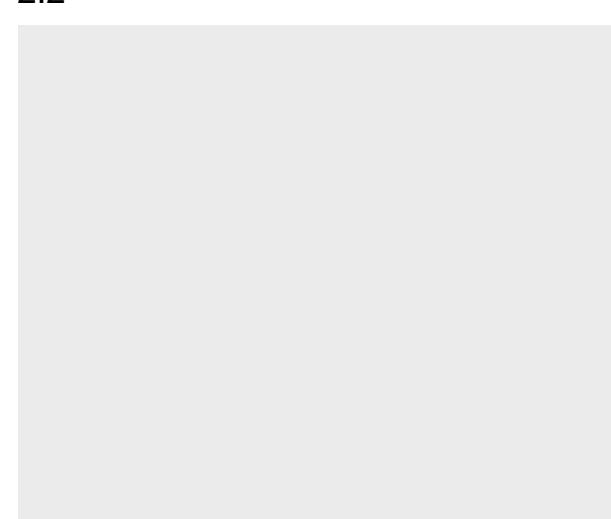
MM ($\omega = 23$; $\epsilon = 2e-04$; SSE $5.672e-03$) LV > 0

Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$

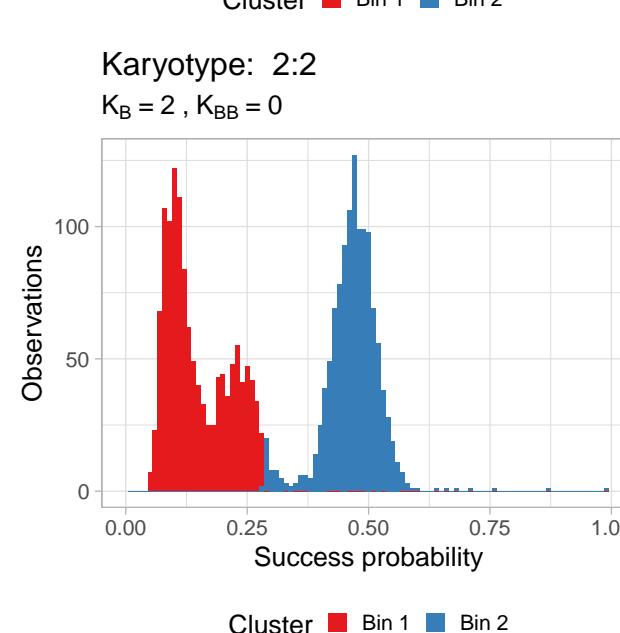
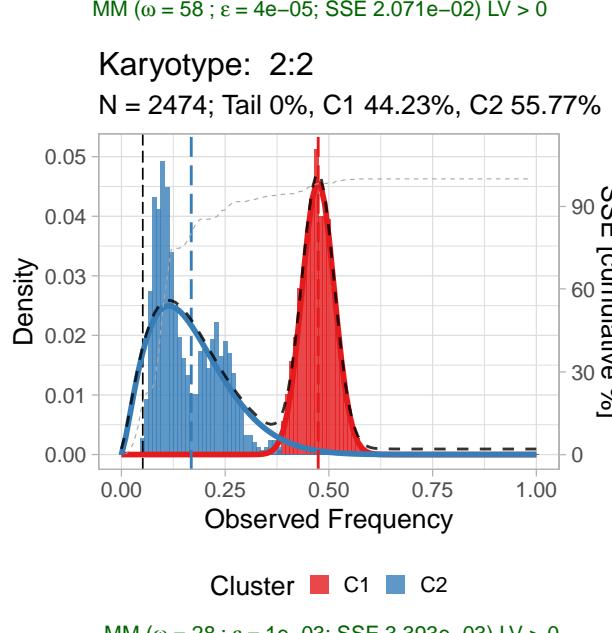
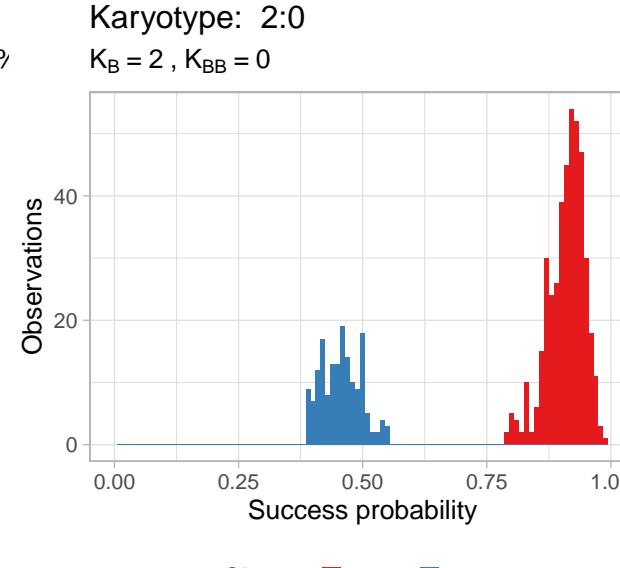
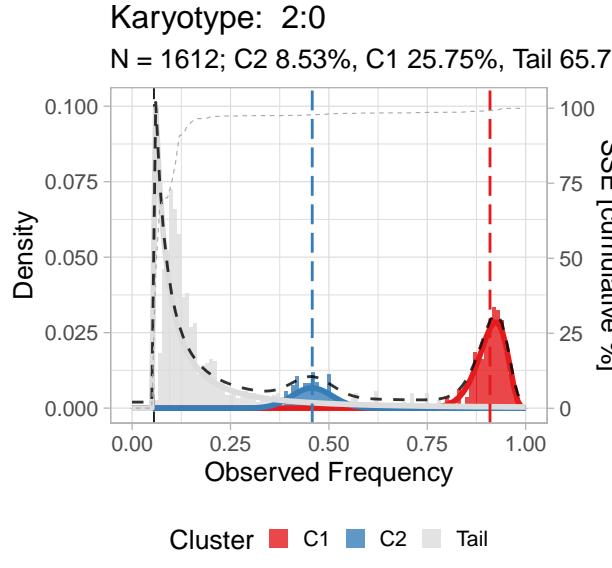
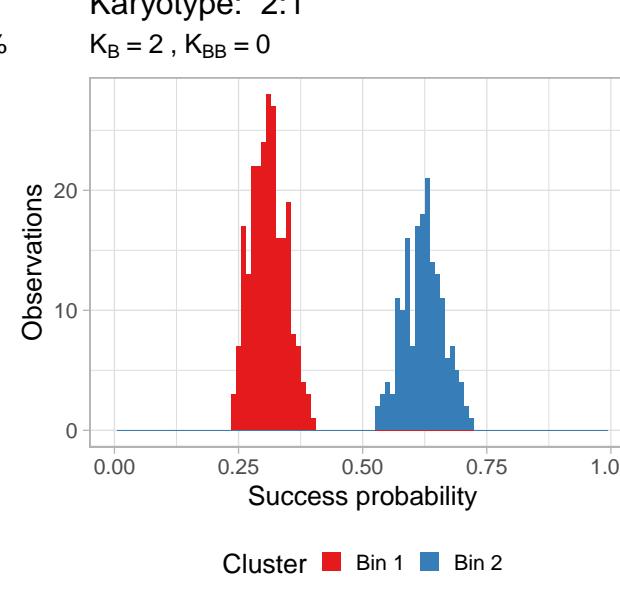
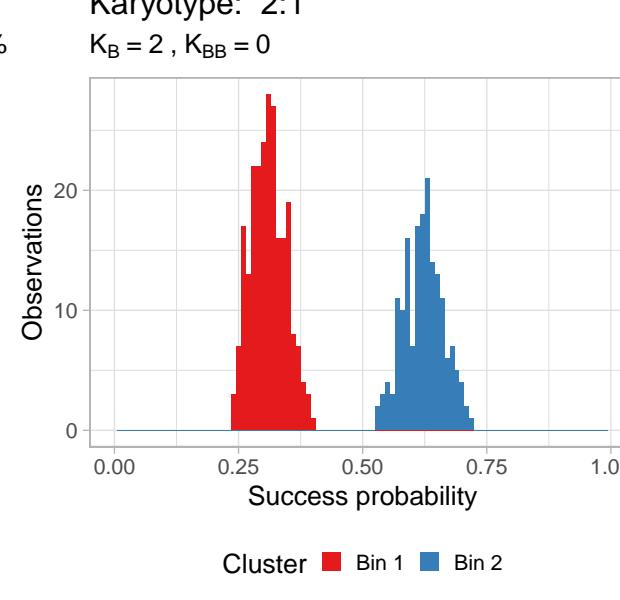
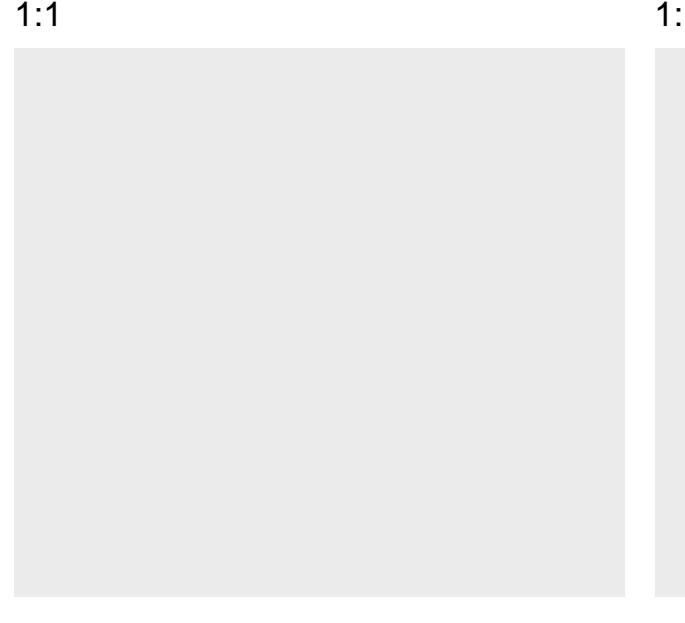
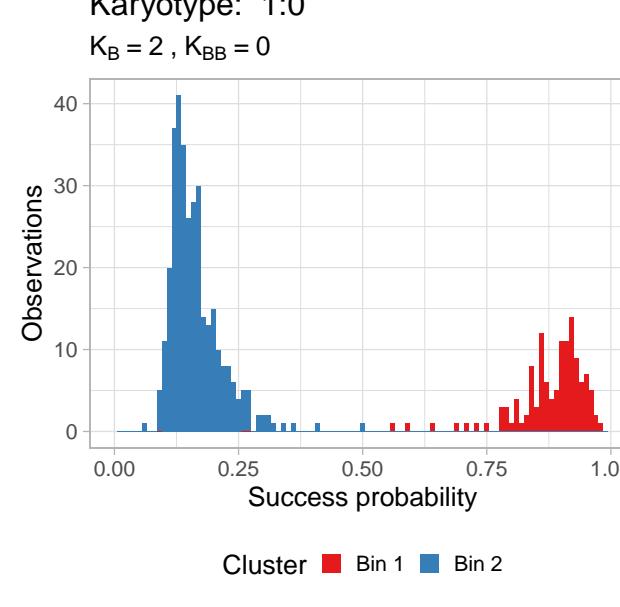
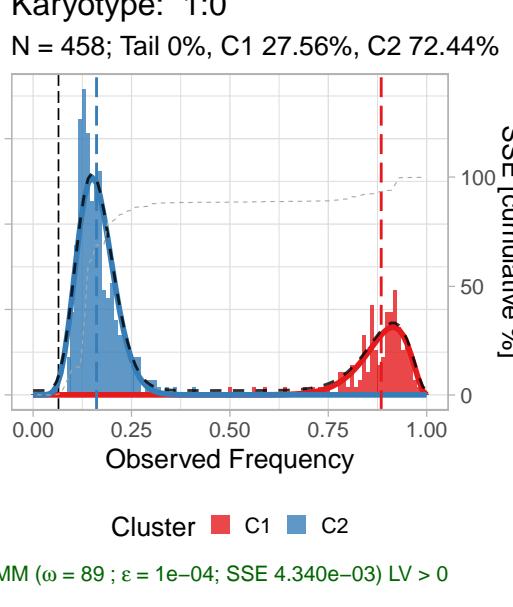


2:2



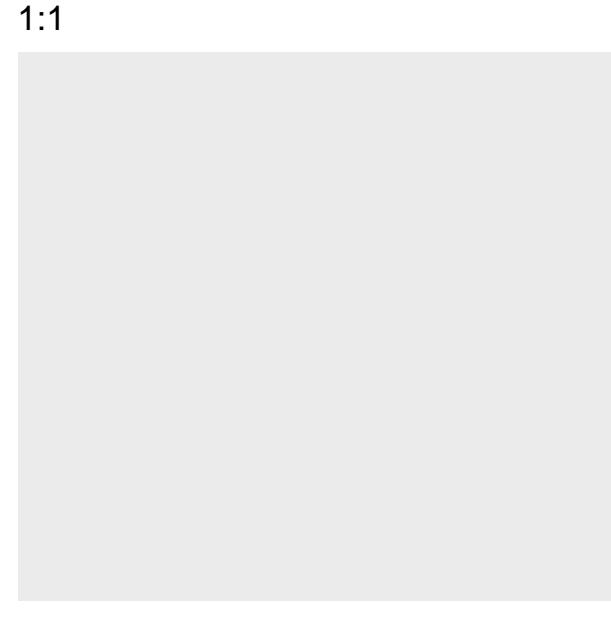
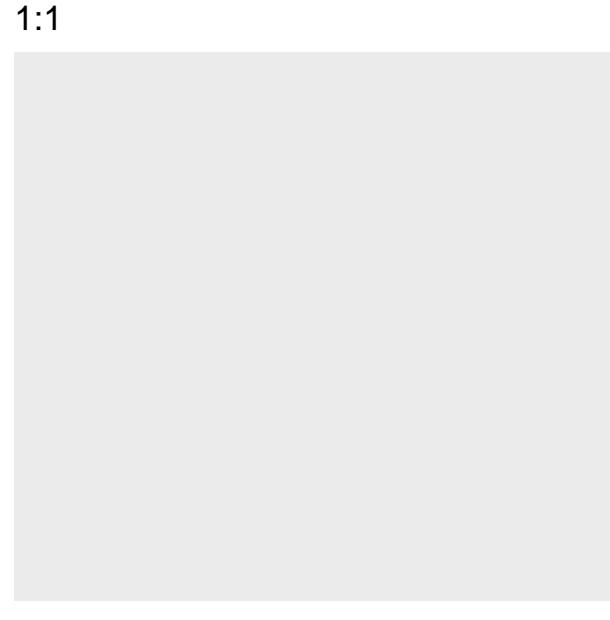
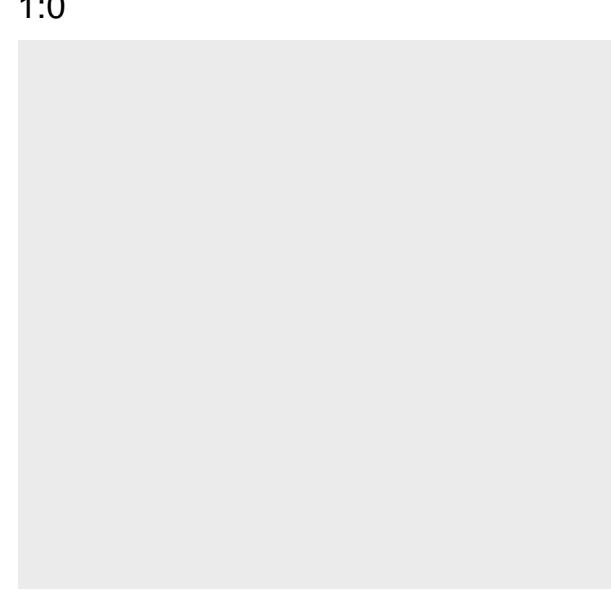
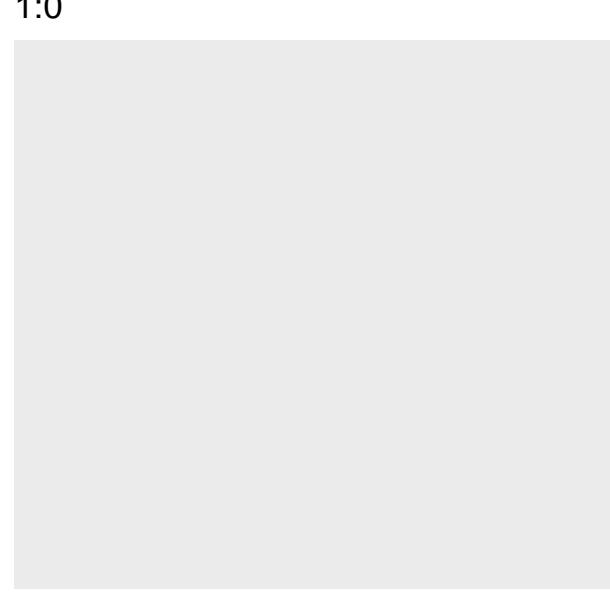
160711_HMFregCPCT_FR12244551_FR12244640_CPCT02020325

ONLY SNVs (min 150 – max 50000)

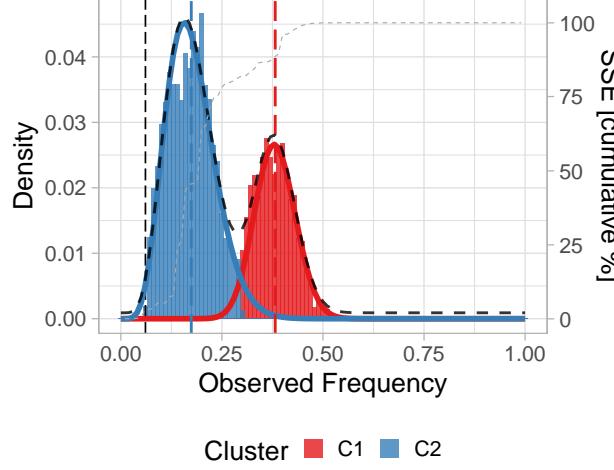


160711_HMFregCPCT_FR12244555_FR12244643_CPCT02020315

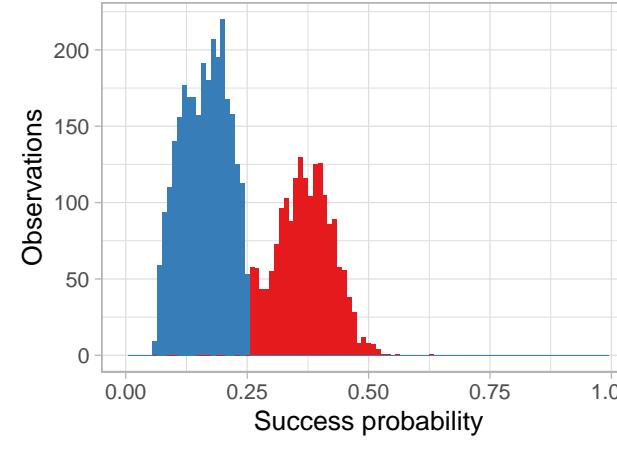
ONLY SNVs (min 150 – max 50000)



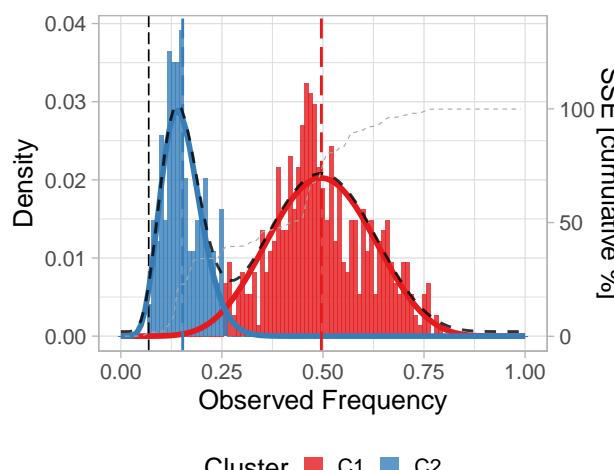
Karyotype: 2:1
N = 4709; Tail 0%, C1 33.36%, C2 66.64%



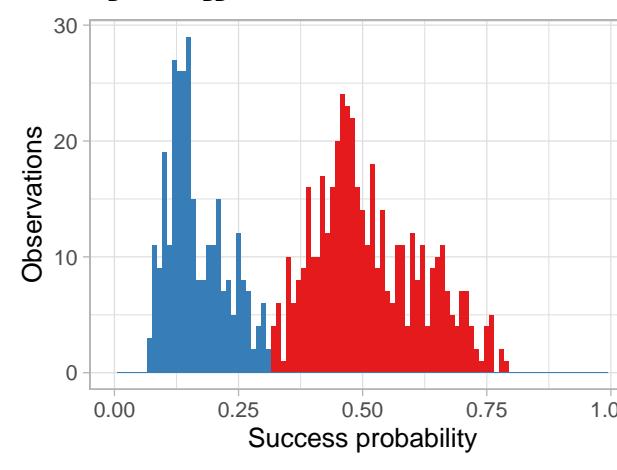
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



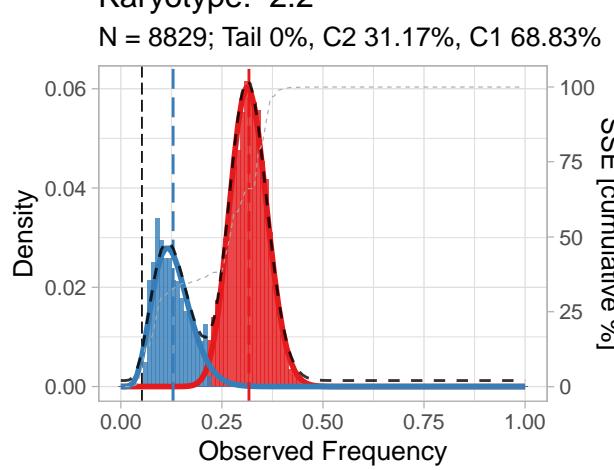
Karyotype: 2:0
N = 741; Tail 0%, C2 34.62%, C1 65.38%



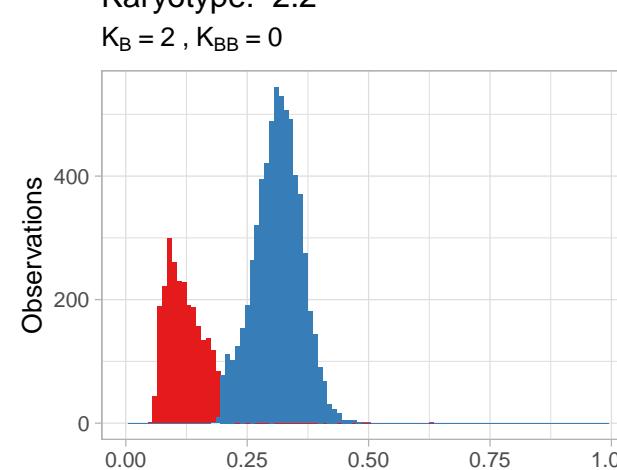
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 8829; Tail 0%, C2 31.17%, C1 68.83%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

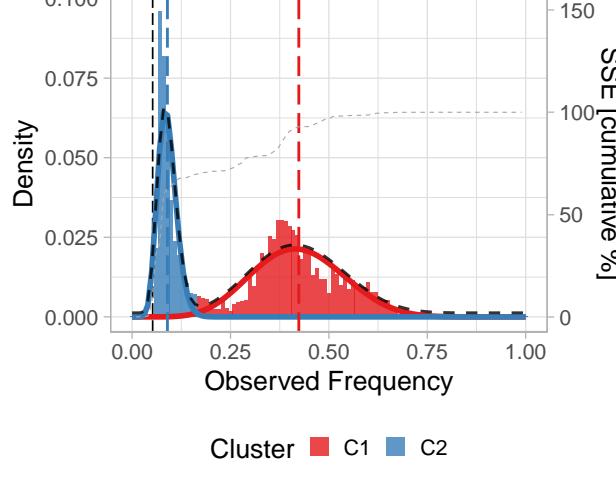


160718_HMFregCPCT_FR10302970_FR12244422_CPCT02040021

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

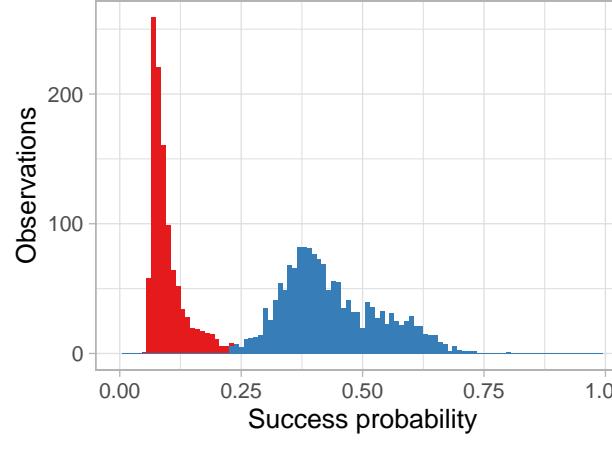
N = 2696; Tail 0%, C2 37.4%, C1 62.6%



MM ($\omega = 68$; $\epsilon = 2e-03$; SSE $3.424e-03$) LV > 0

Karyotype: 1:0

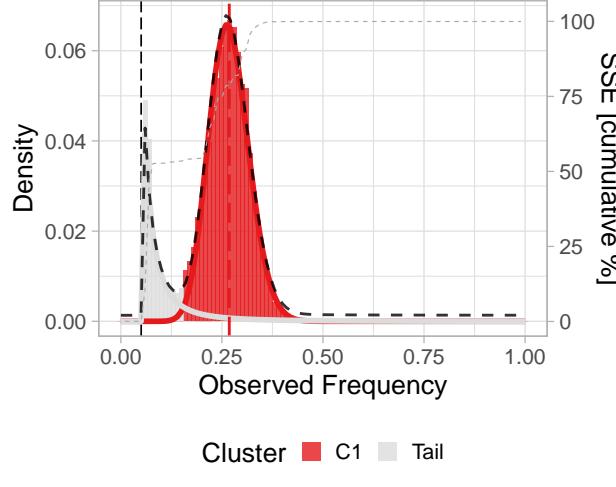
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 1:1

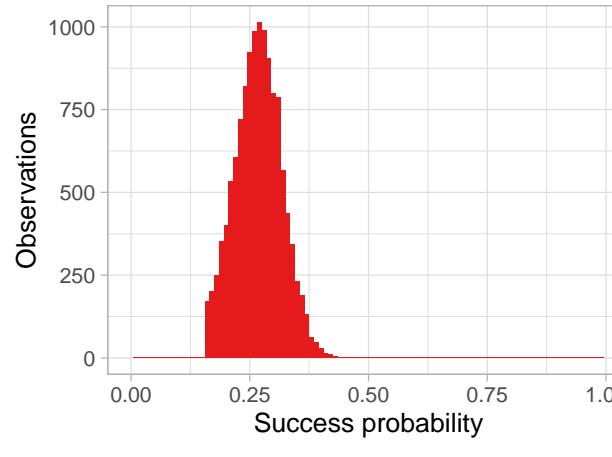
N = 15193; Tail 19.59%, C1 80.41%



MM ($\omega = 24$; $\epsilon = 4e-04$; SSE $1.524e-03$) LV > 0

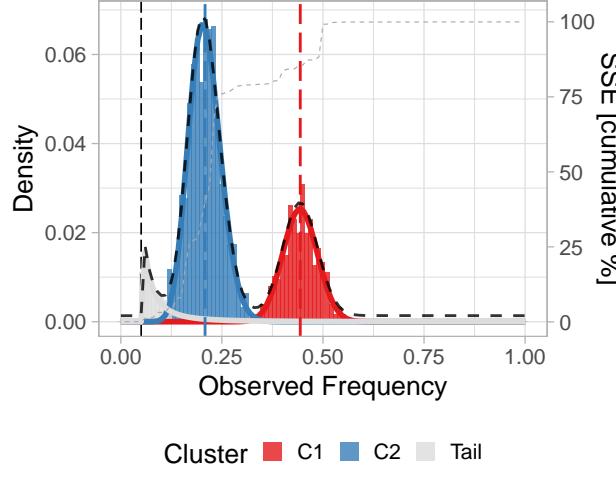
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

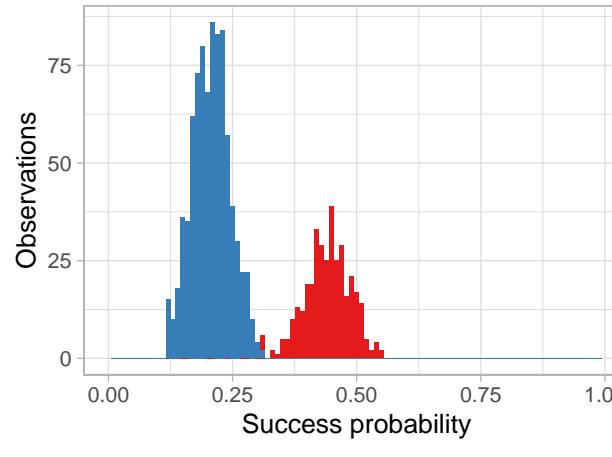
N = 1265; Tail 7.64%, C1 27.1%, C2 65.26%



MM ($\omega = 37$; $\epsilon = 2e-05$; SSE $1.383e-03$) LV > 0

Karyotype: 2:1

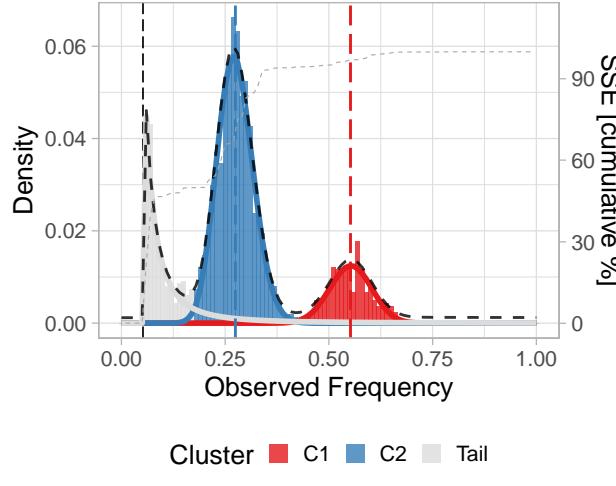
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:0

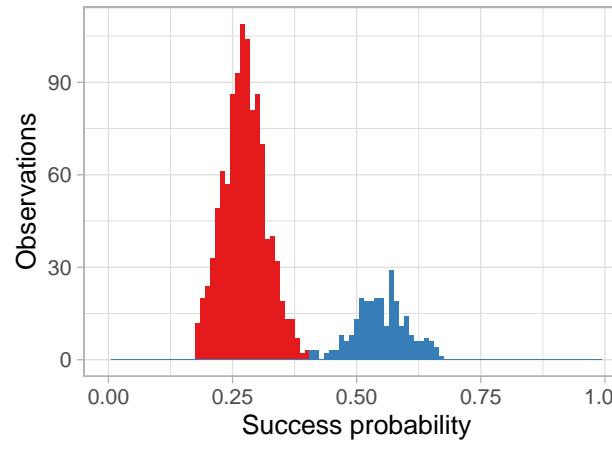
N = 1645; C1 15.69%, Tail 22.19%, C2 62.13%



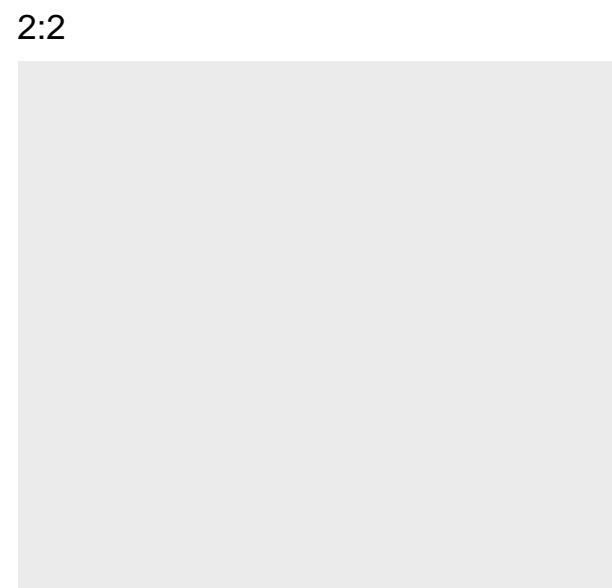
MM ($\omega = 26$; $\epsilon = 1e-05$; SSE $1.384e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2



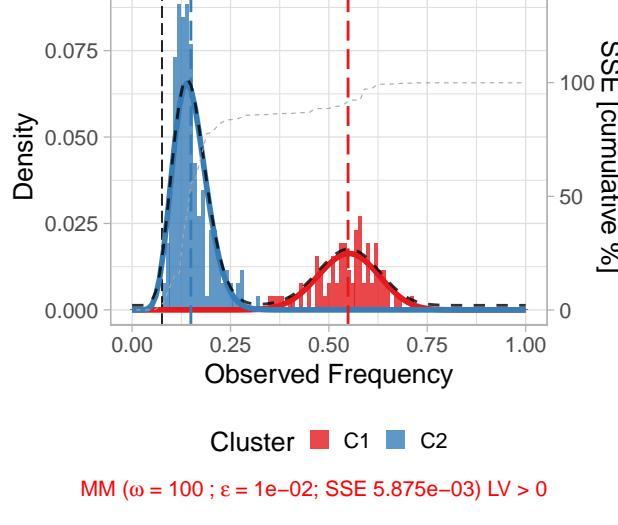
2:2

160718_HMFregCPCT_FR12244550_FR12244638_CPCT02020317

ONLY SNVs (min 150 – max 50000)

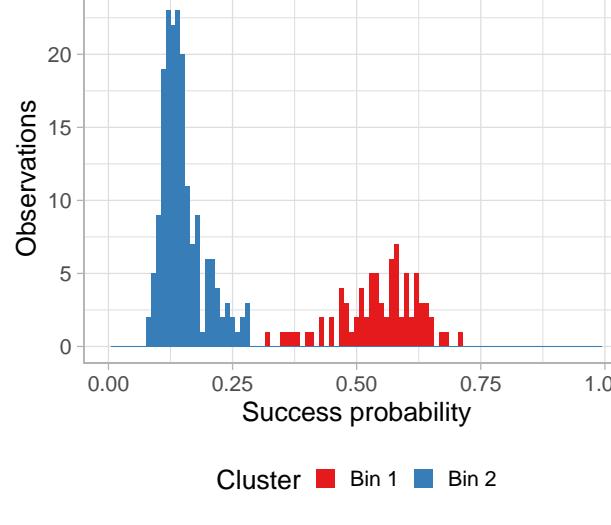
Karyotype: 1:0

N = 260; Tail 0%, C1 31.34%, C2 68.66%



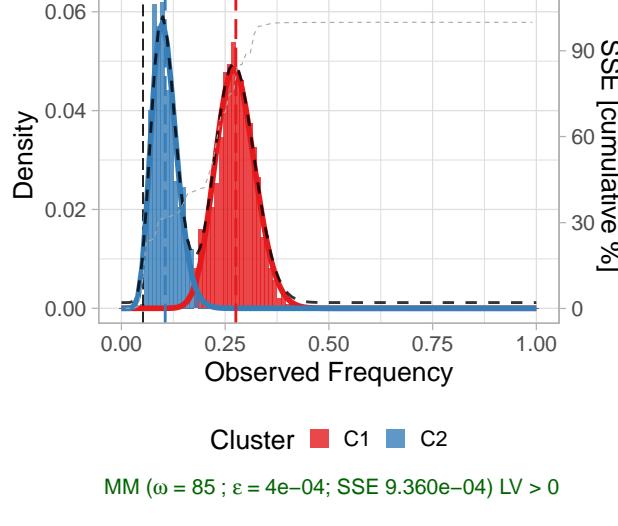
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



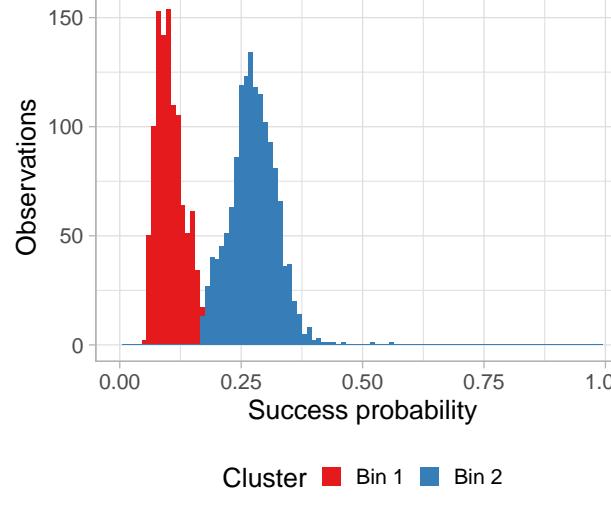
Karyotype: 1:1

N = 2489; Tail 0%, C2 42.69%, C1 57.31%



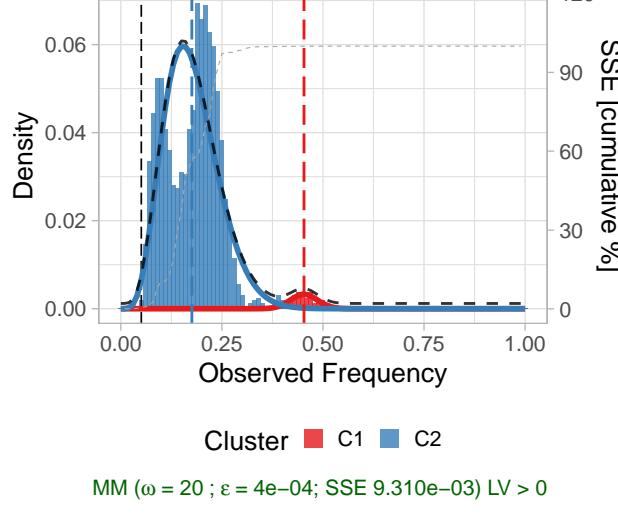
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



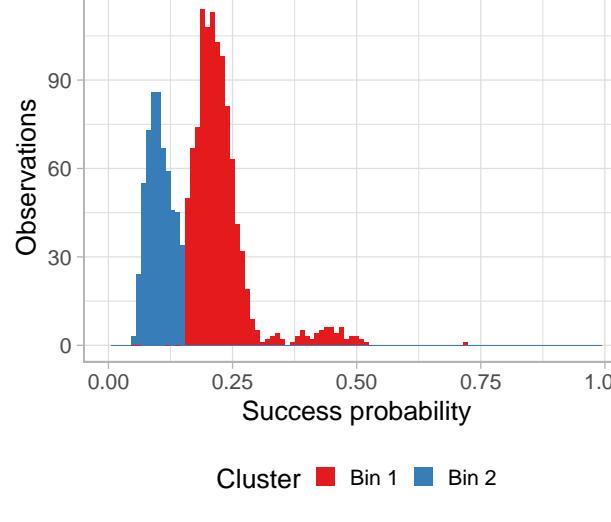
Karyotype: 2:1

N = 1641; Tail 0%, C1 2.71%, C2 97.29%



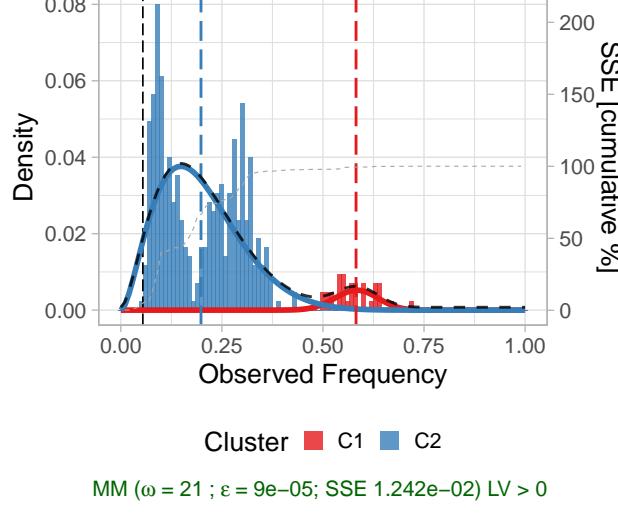
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



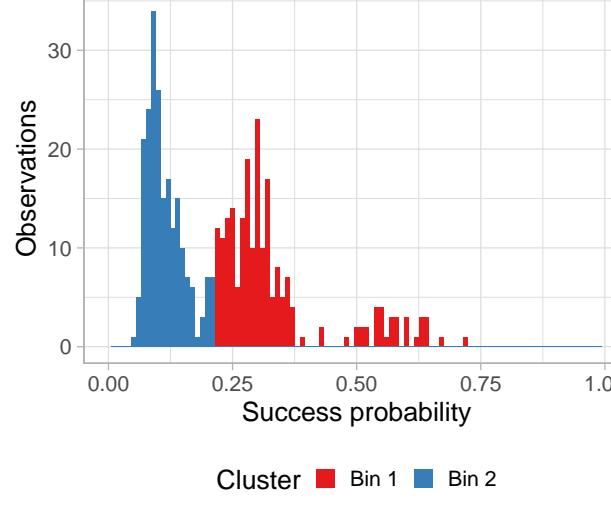
Karyotype: 2:0

N = 425; Tail 0%, C1 6.88%, C2 93.12%



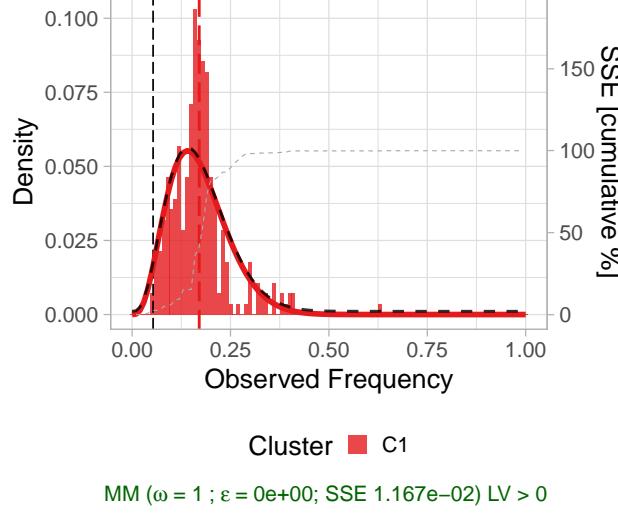
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



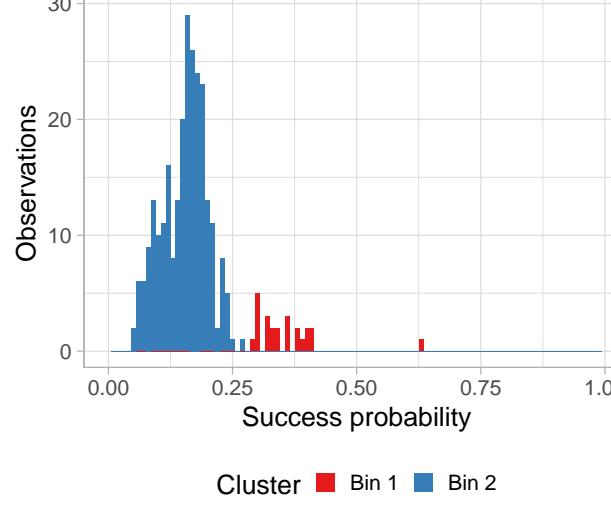
Karyotype: 2:2

N = 281; Tail 0%, C1 100%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

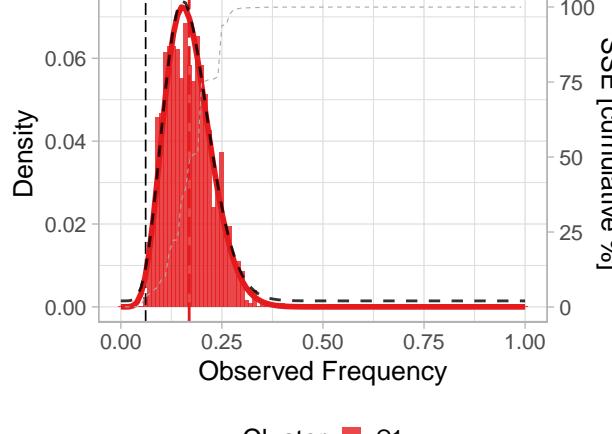


160718_HMFregCPCT_FR12244552_FR12244421_CPCT02020323

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

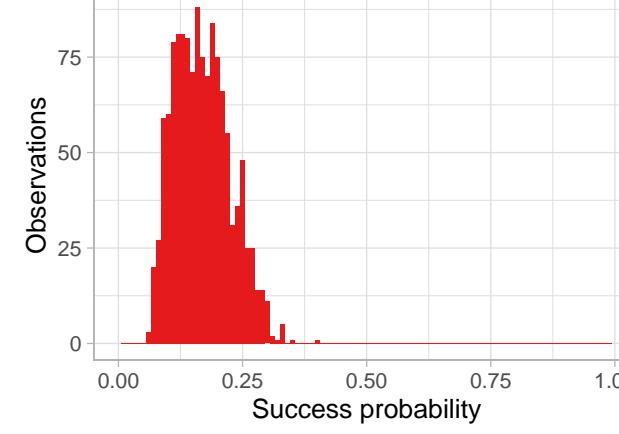
N = 1288; Tail 0%, C1 100%



MM ($\omega = 4$; $\varepsilon = 2e-02$; SSE $1.840e-03$) LV > 0

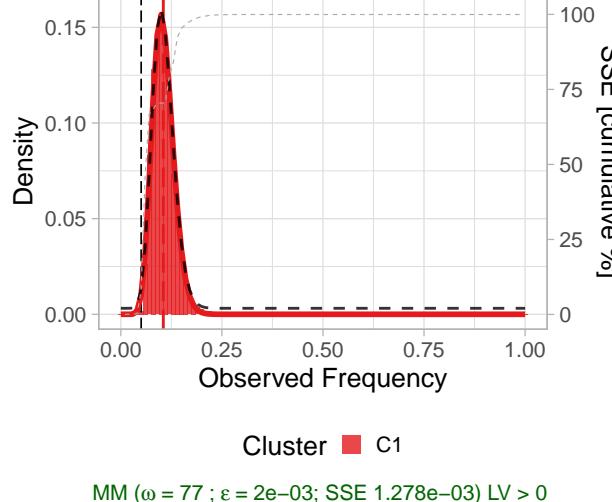
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

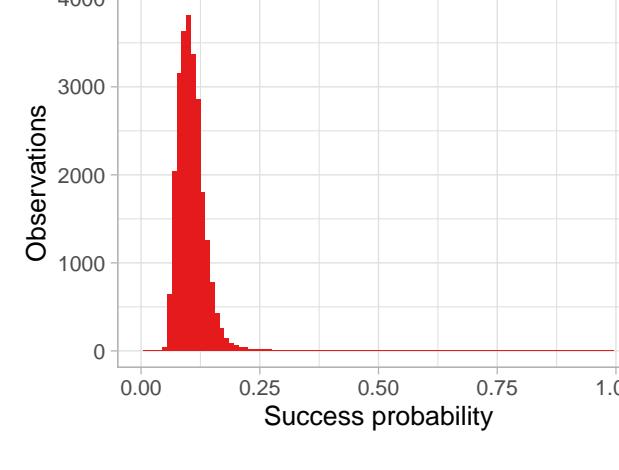
N = 24537; Tail 0%, C1 100%



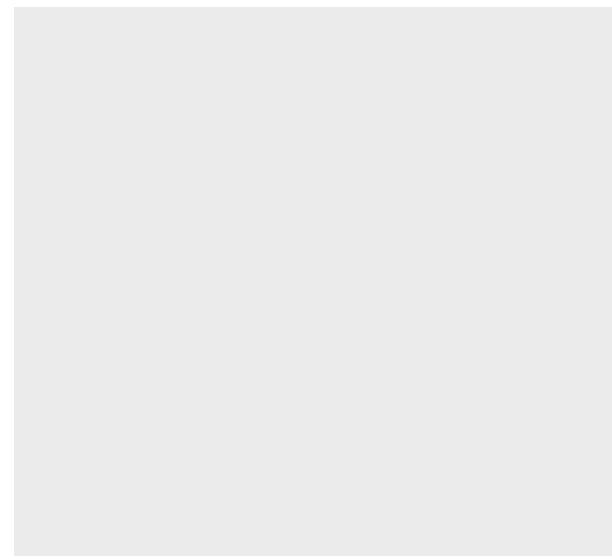
MM ($\omega = 77$; $\varepsilon = 2e-03$; SSE $1.278e-03$) LV > 0

Karyotype: 1:1

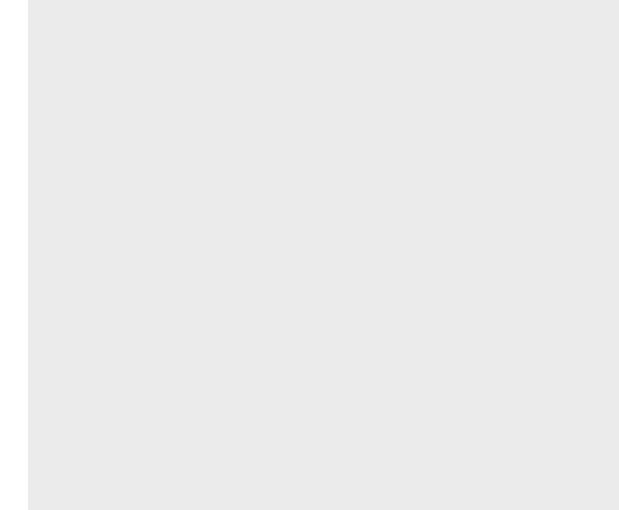
$K_B = 1$, $K_{BB} = 0$



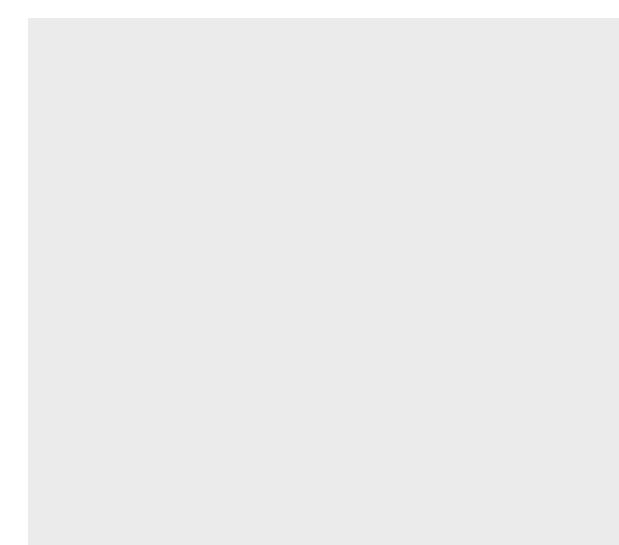
2:1



2:0

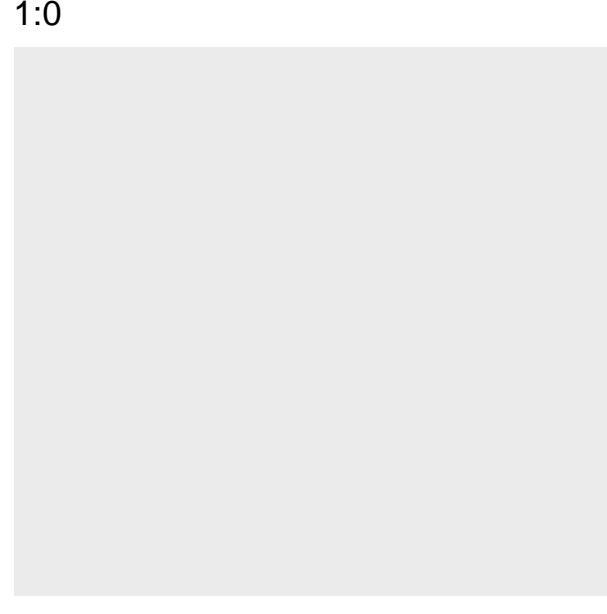
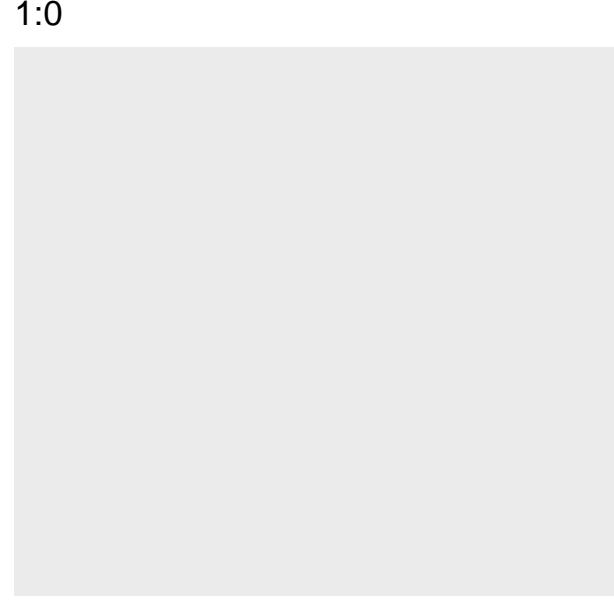


2:2



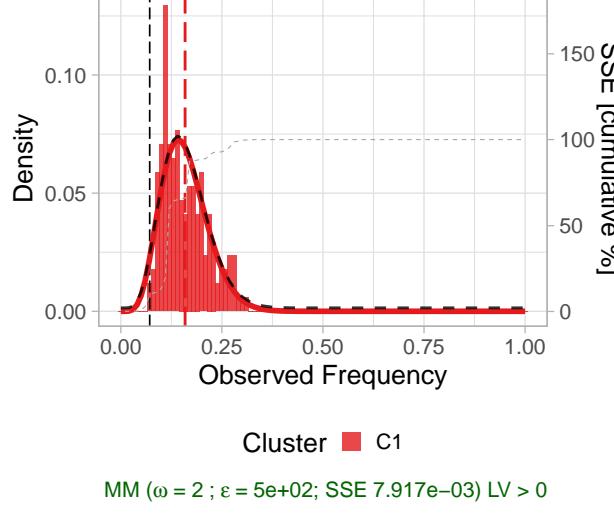
160718_HMFregCPCT_FR12254658_FR12244450_CPCT02080016

ONLY SNVs (min 150 – max 50000)



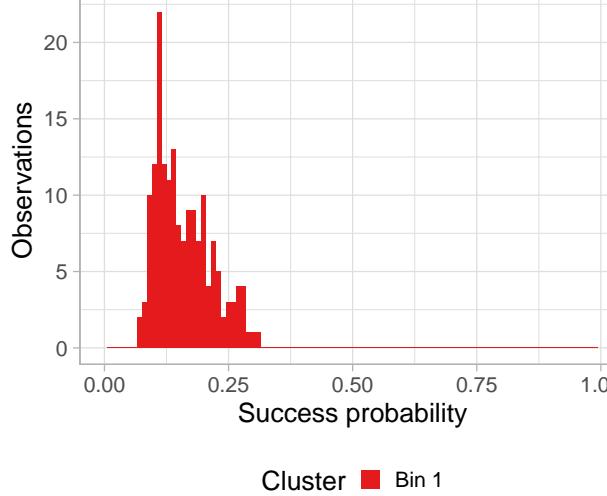
Karyotype: 1:1

N = 170; Tail 0%, C1 100%



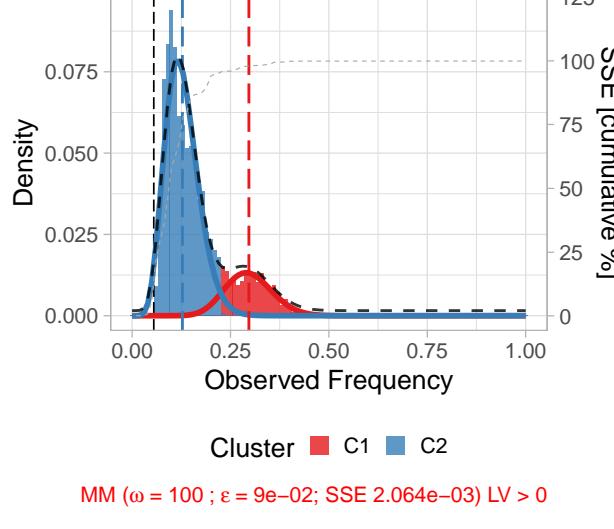
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



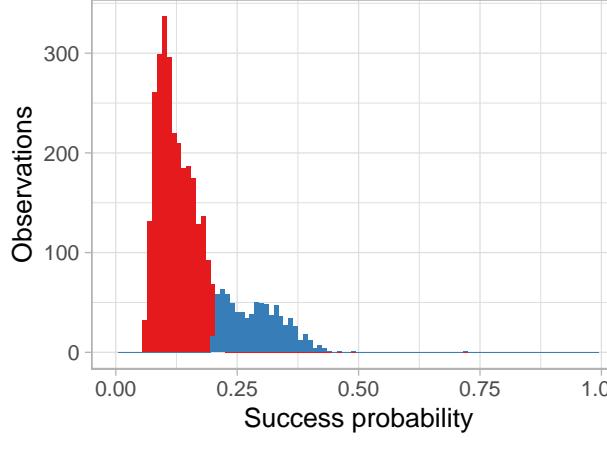
Karyotype: 2:1

N = 3584; Tail 0%, C1 19.4%, C2 80.6%



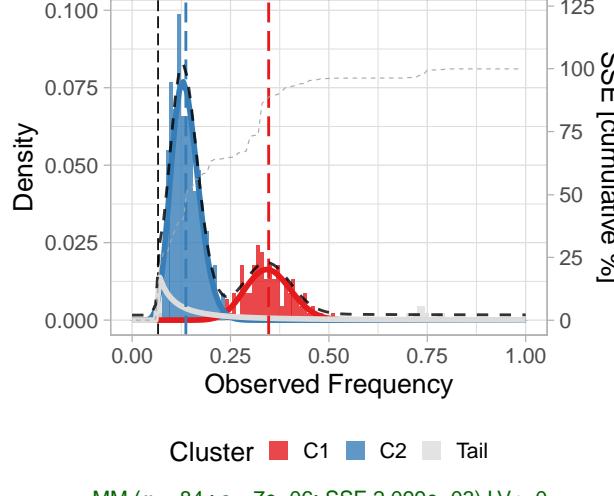
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



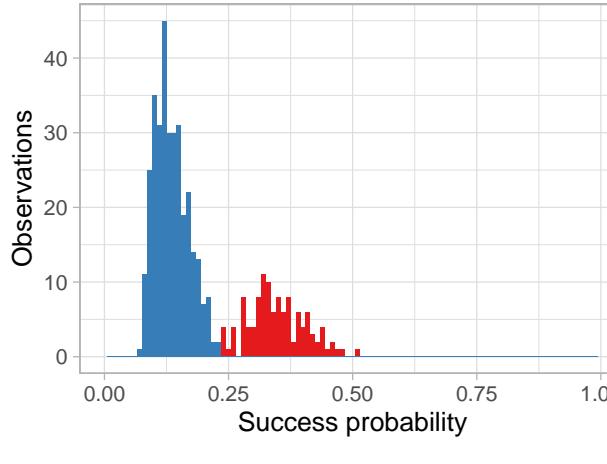
Karyotype: 2:0

N = 456; Tail 10.91%, C1 23.56%, C2 65.54%



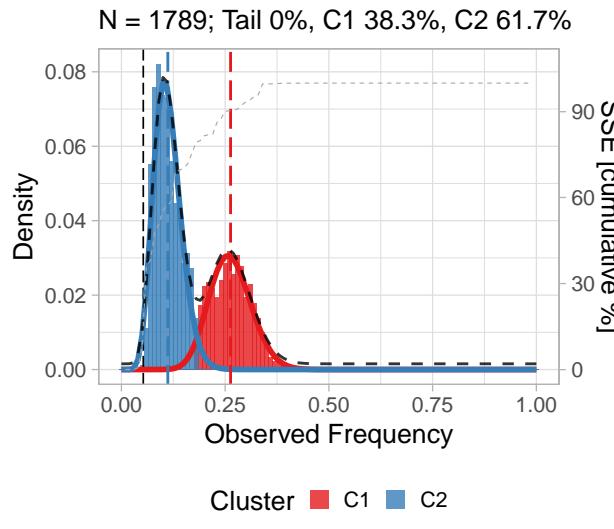
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



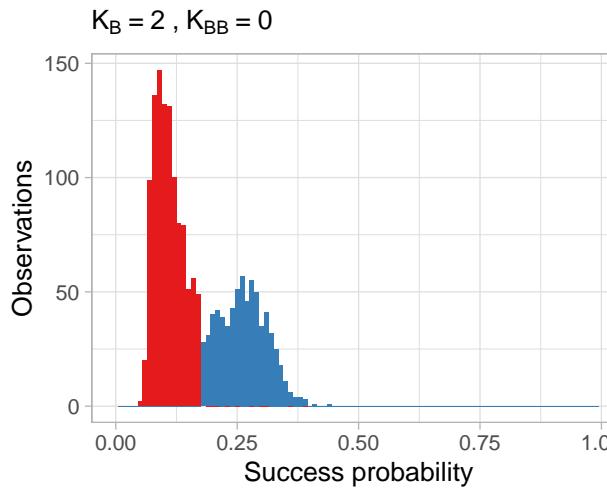
Karyotype: 2:2

N = 1789; Tail 0%, C1 38.3%, C2 61.7%



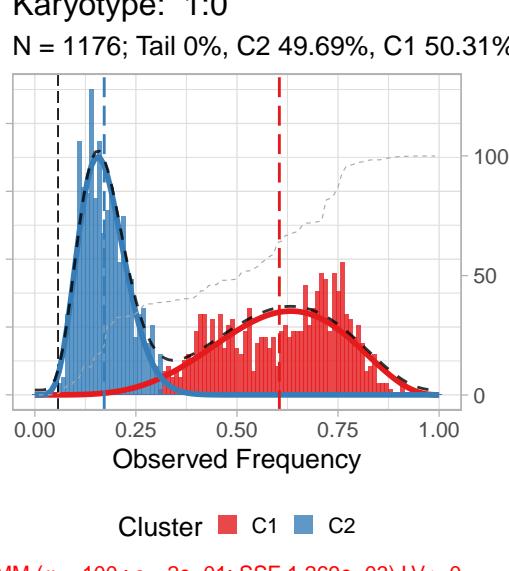
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

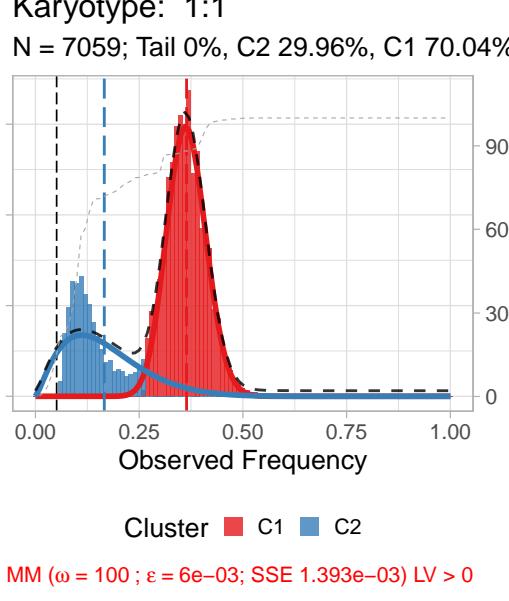
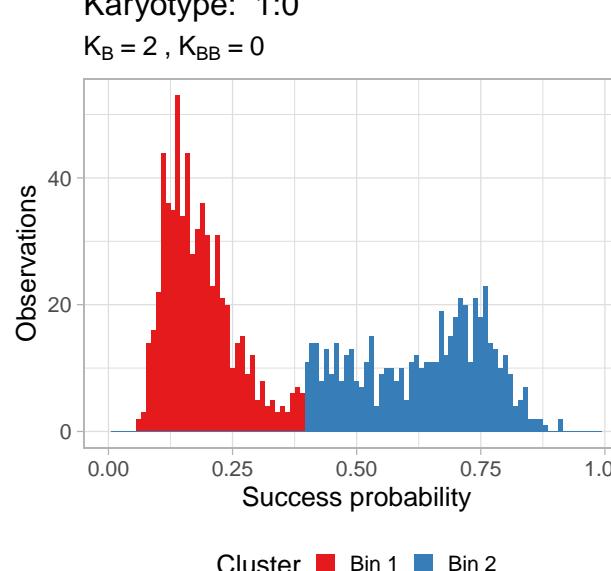


160718_HMFregCPCT_FR12254731_FR12244449_CPCT02020330

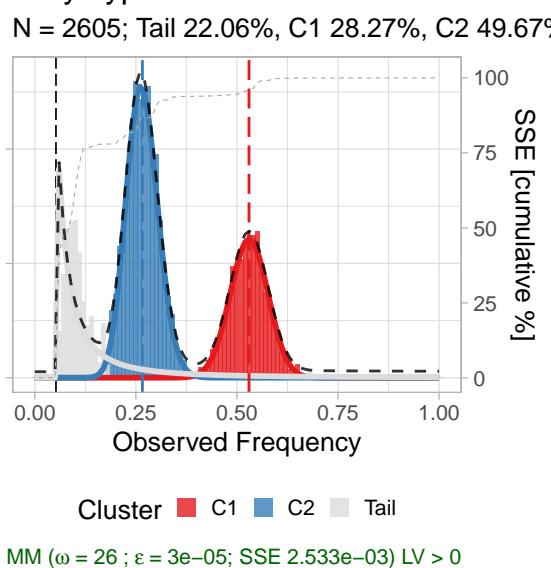
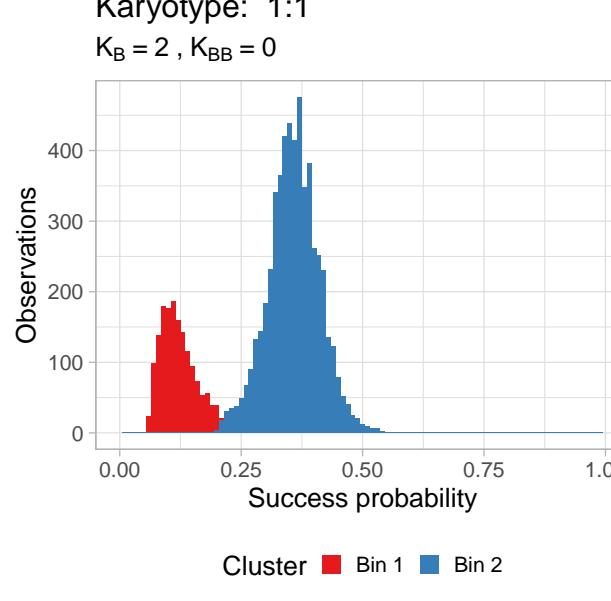
ONLY SNVs (min 150 – max 50000)



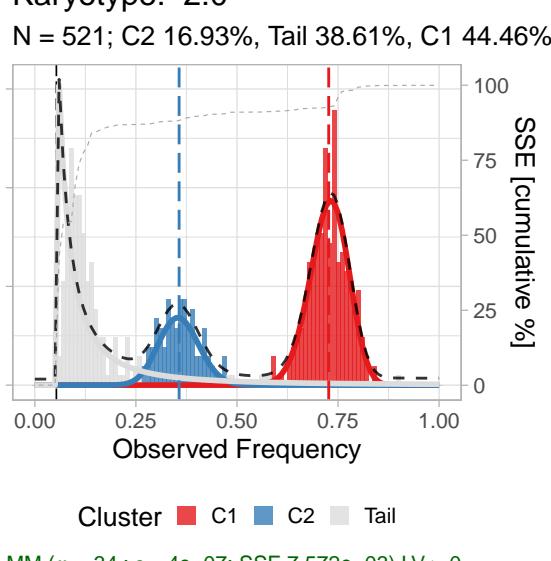
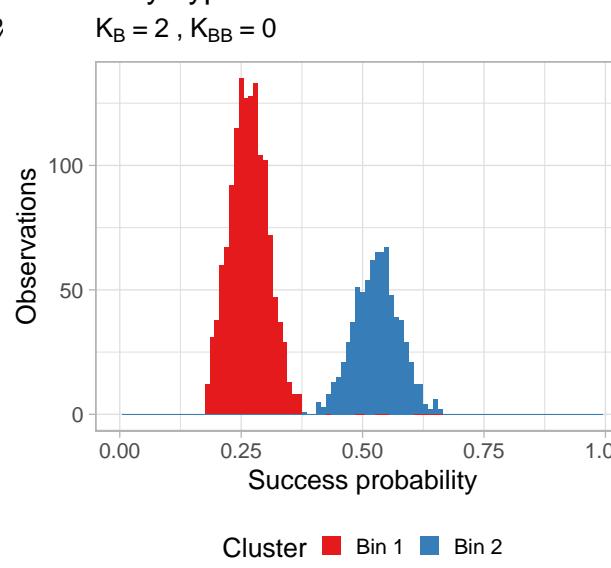
MM ($\omega = 100$; $\epsilon = 2e-01$; SSE $1.269e-03$) LV > 0



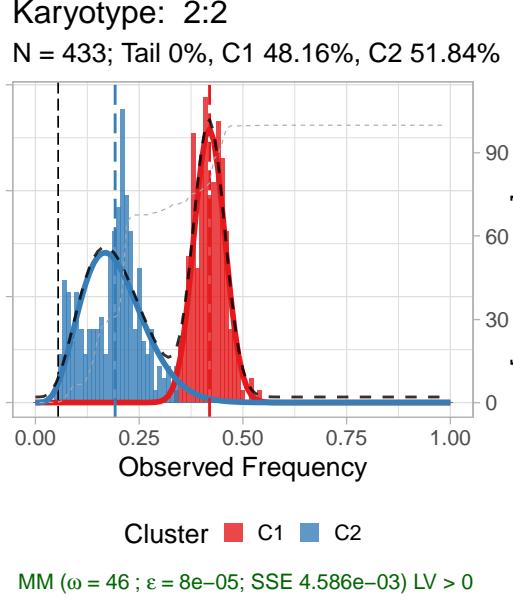
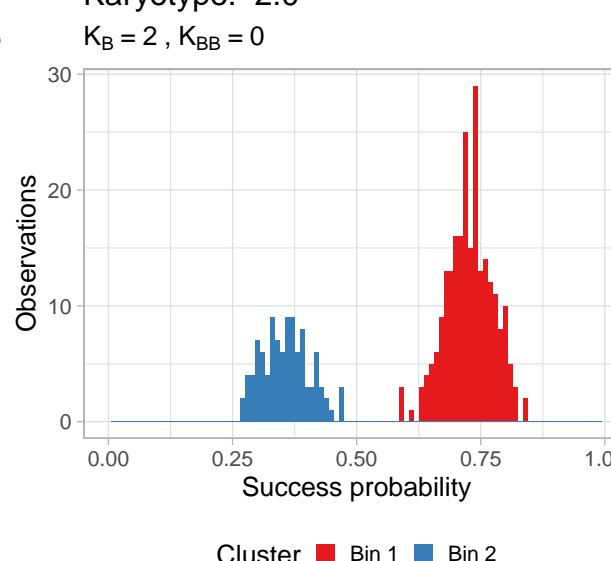
MM ($\omega = 100$; $\epsilon = 6e-03$; SSE $1.393e-03$) LV > 0



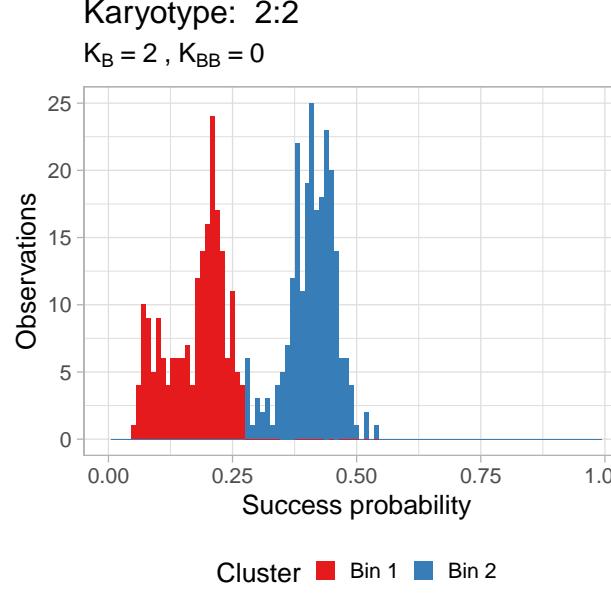
MM ($\omega = 26$; $\epsilon = 3e-05$; SSE $2.533e-03$) LV > 0



MM ($\omega = 34$; $\epsilon = 4e-07$; SSE $7.572e-03$) LV > 0

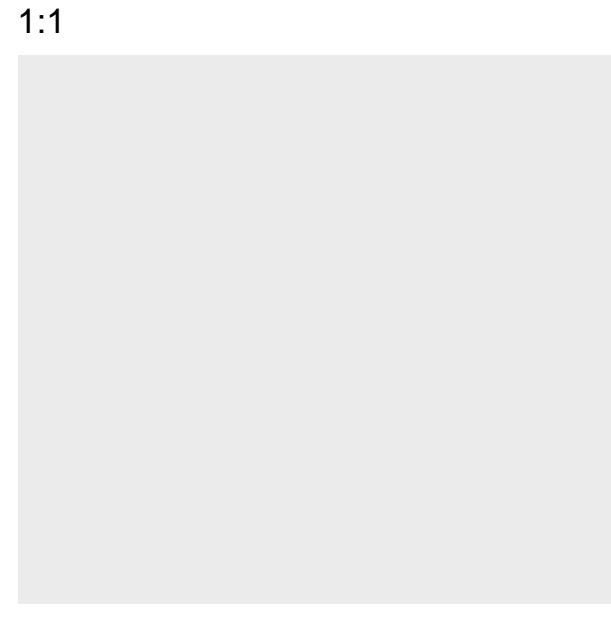
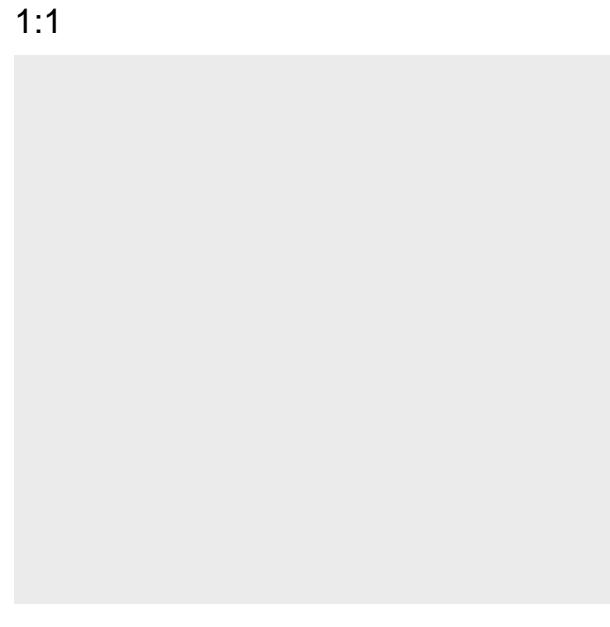
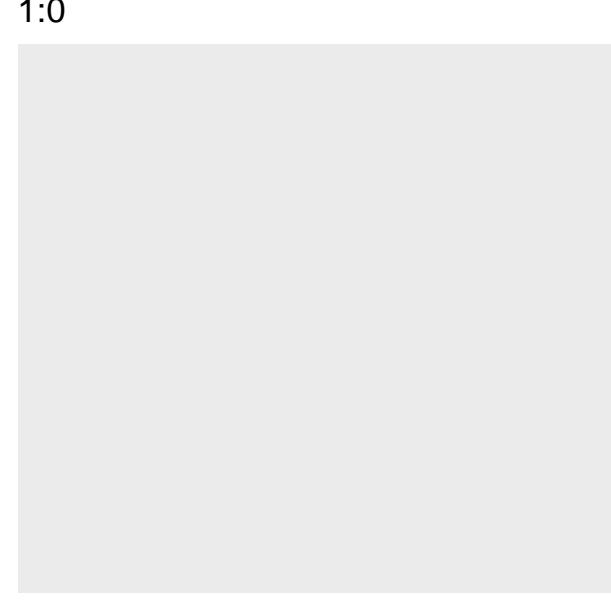
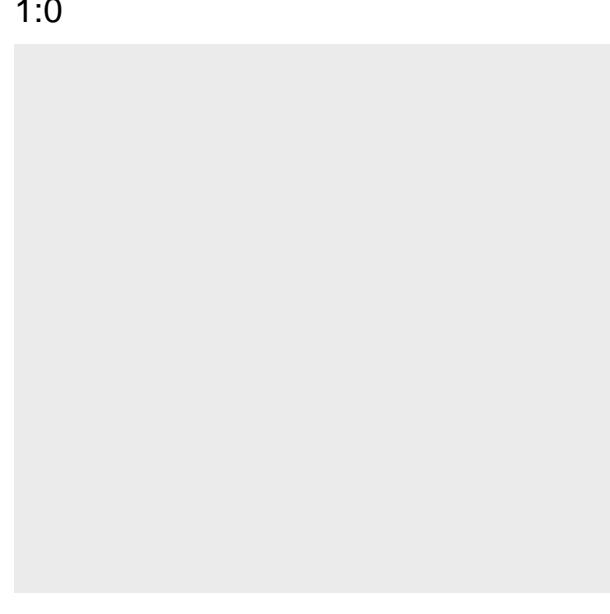


MM ($\omega = 46$; $\epsilon = 8e-05$; SSE $4.586e-03$) LV > 0

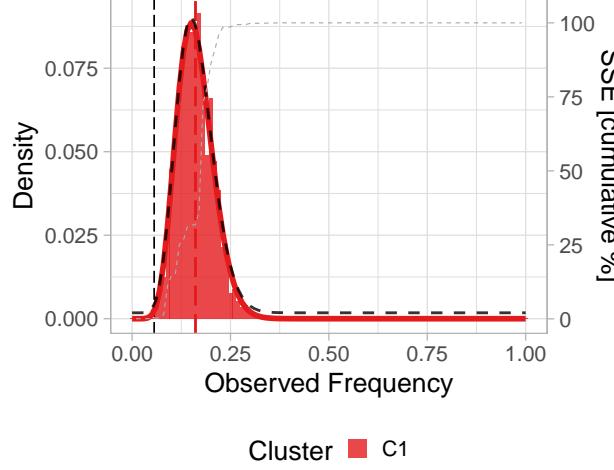


160719_HMFregCPCT_FR10301994_FR10301882_CPCT02020305

ONLY SNVs (min 150 – max 50000)

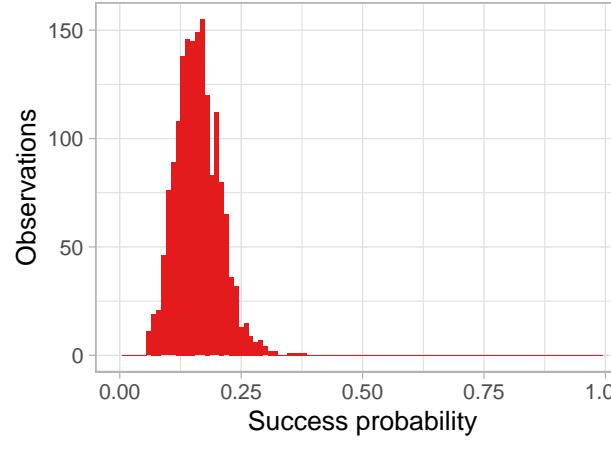


Karyotype: 2:1
N = 1693; Tail 0%, C1 100%

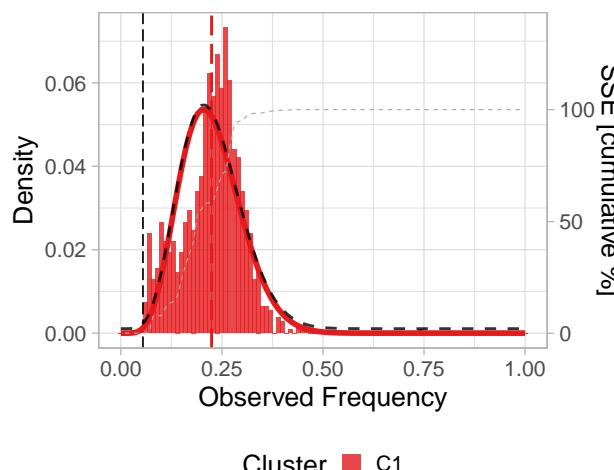


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.146e-03) LV > 0

Karyotype: 2:1
 $K_B = 1$, $K_{BB} = 0$

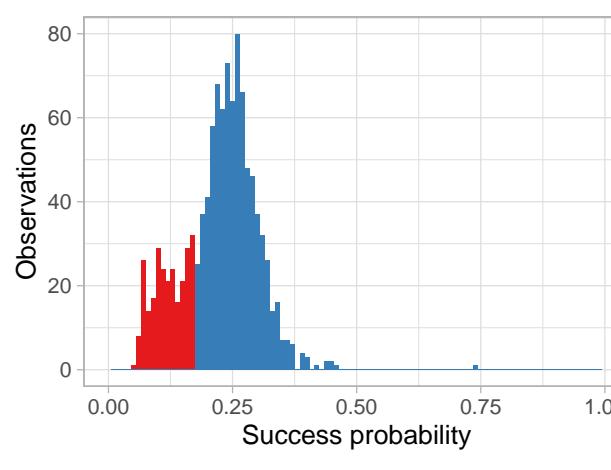


Karyotype: 2:0
N = 1091; Tail 0%, C1 100%

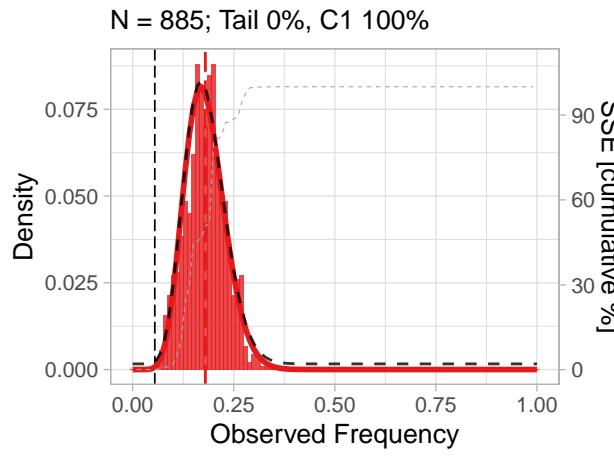


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 7.190e-03) LV > 0

Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$

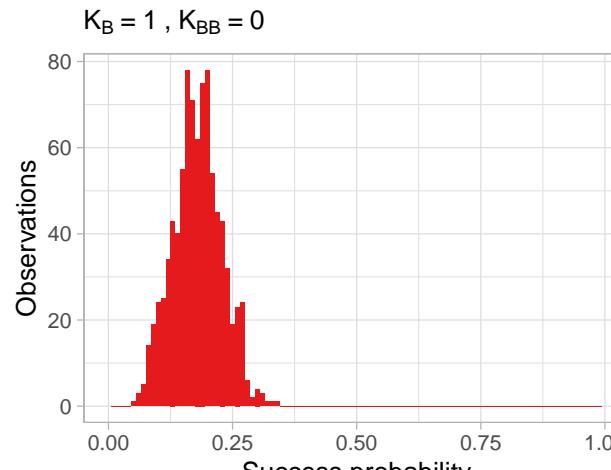


Karyotype: 2:2
N = 885; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 3.042e-03) LV > 0

Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

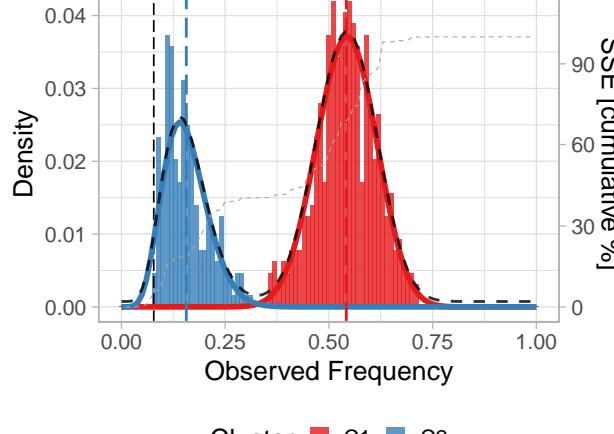


160721_HMFregCPCT_FR12244674_FR12244459_CPCT02020333

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 643; Tail 0%, C2 32.82%, C1 67.18%



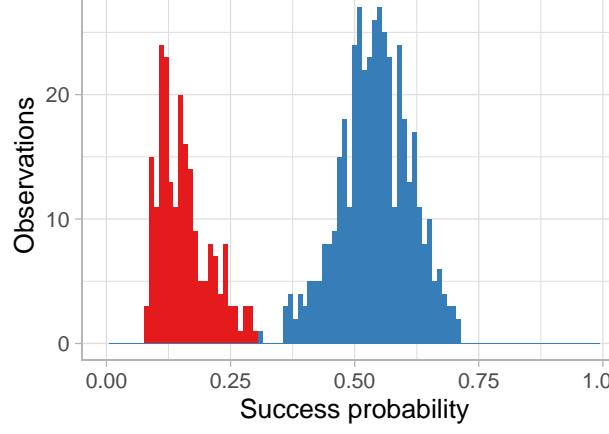
Karyotype: 1:0

N = 643; Tail 0%, C2 32.82%, C1 67.18%

MM ($\omega = 24$; $\epsilon = 1e-03$; SSE $1.845e-03$) LV > 0

Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



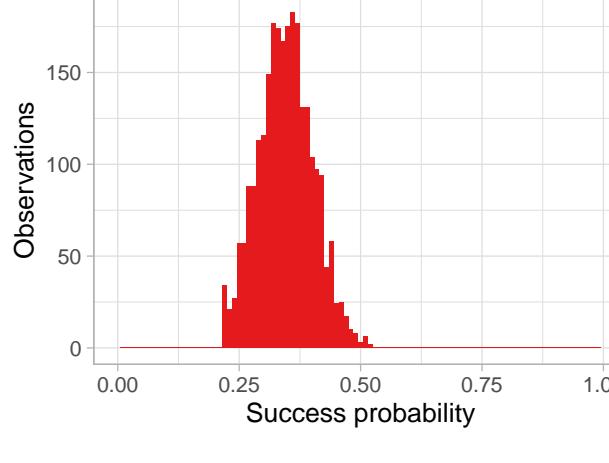
Karyotype: 1:1

N = 3204; Tail 22.85%, C1 77.15%

MM ($\omega = 16$; $\epsilon = 6e-05$; SSE $3.676e-03$) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



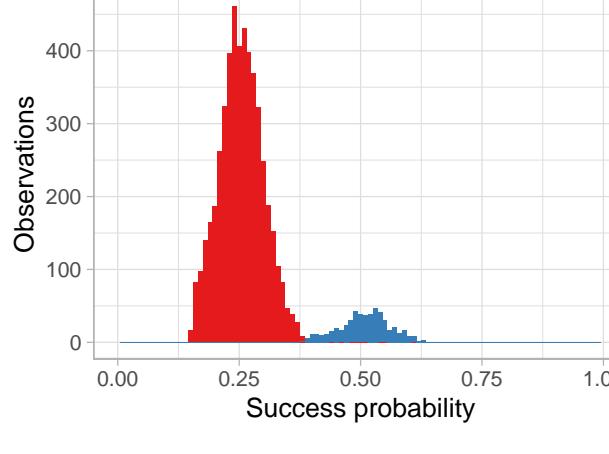
Karyotype: 2:1

N = 6415; C1 7.08%, Tail 18%, C2 74.92%

MM ($\omega = 32$; $\epsilon = 1e-04$; SSE $2.306e-03$) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



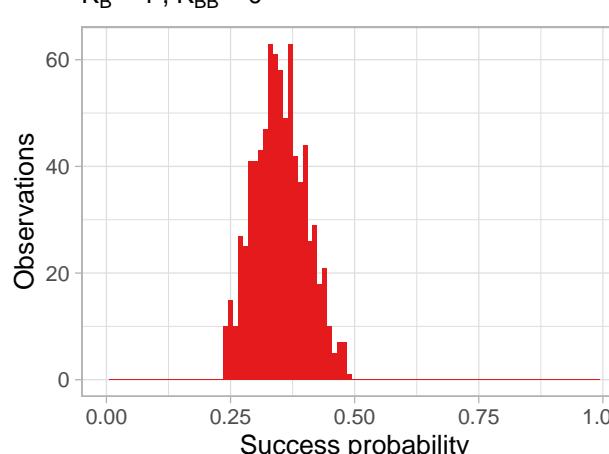
Karyotype: 2:0

N = 1252; Tail 41.36%, C1 58.64%

MM ($\omega = 23$; $\epsilon = 1e-05$; SSE $3.339e-03$) LV > 0

Karyotype: 2:0

$K_B = 1, K_{BB} = 0$



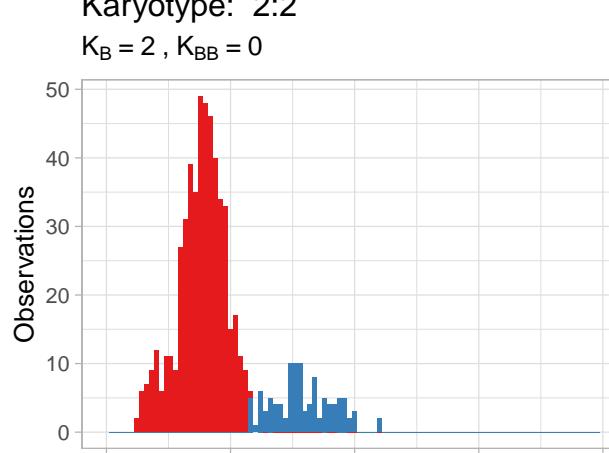
Karyotype: 2:2

N = 621; Tail 0%, C1 13.88%, C2 86.12%

MM ($\omega = 35$; $\epsilon = 1e-04$; SSE $3.979e-03$) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

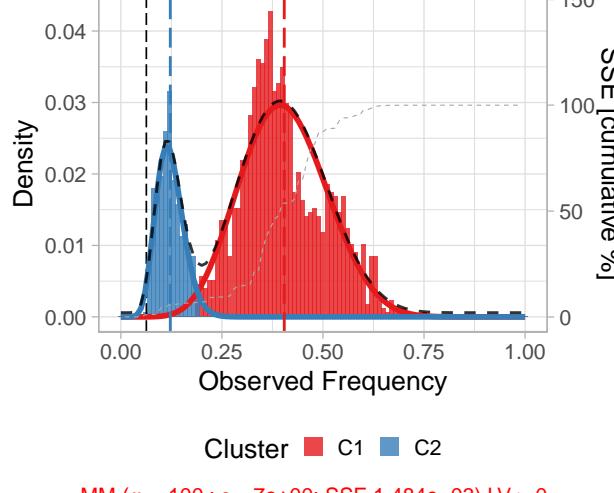


160721_HMFregCPCT_FR12244683_FR12244453_CPCT02010356

ONLY SNVs (min 150 – max 50000)

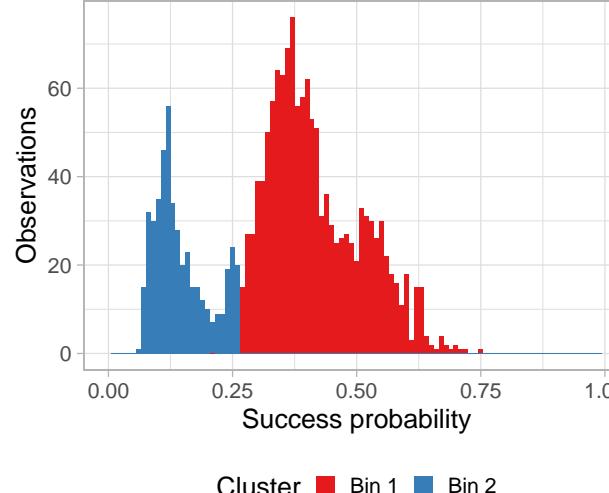
Karyotype: 1:0

N = 1776; Tail 0%, C2 19.85%, C1 80.15%



Karyotype: 1:0

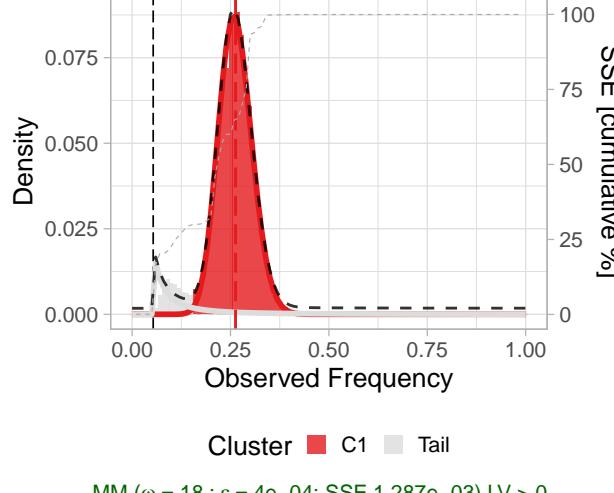
$K_B = 2, K_{BB} = 0$



MM ($\omega = 100$; $\epsilon = 7e+00$; SSE $1.484e-03$) LV > 0

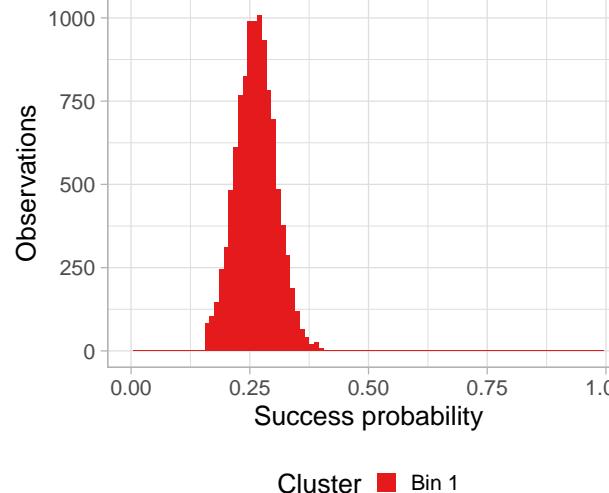
Karyotype: 1:1

N = 11419; Tail 8.59%, C1 91.41%



Karyotype: 1:1

$K_B = 1, K_{BB} = 0$

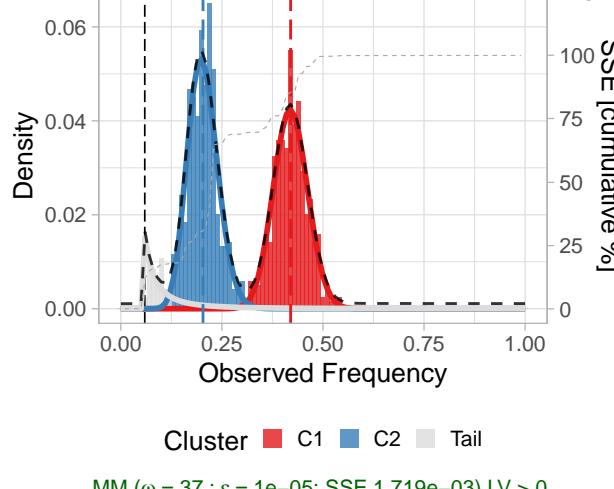


Cluster ■ Bin 1

MM ($\omega = 18$; $\epsilon = 4e-04$; SSE $1.287e-03$) LV > 0

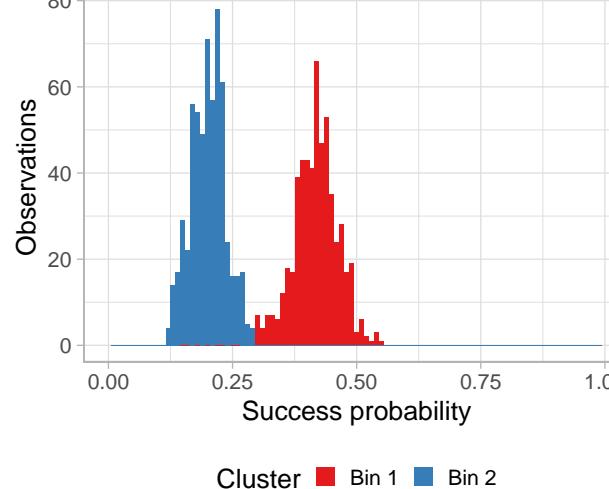
Karyotype: 2:1

N = 1198; Tail 6.2%, C1 44.71%, C2 49.09%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$

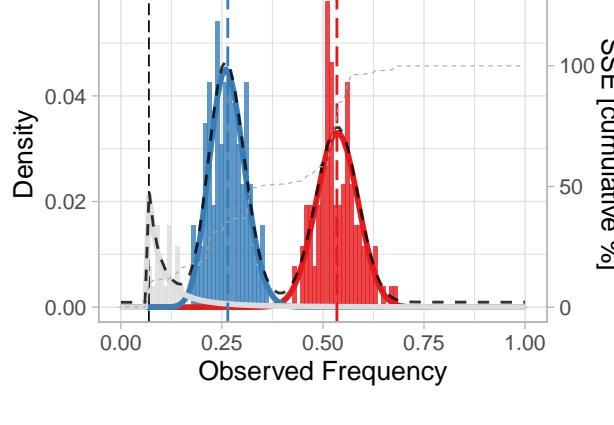


Cluster ■ Bin 1

MM ($\omega = 37$; $\epsilon = 1e-05$; SSE $1.719e-03$) LV > 0

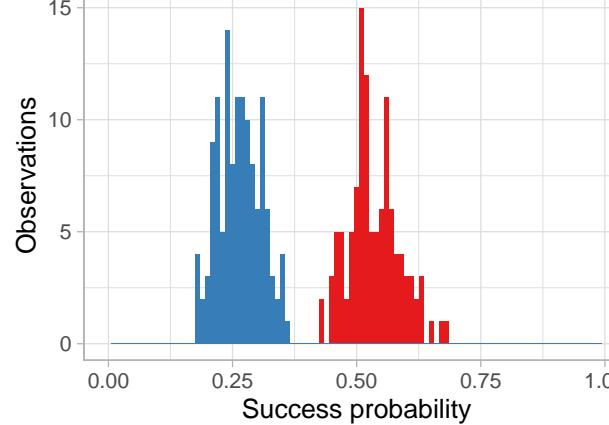
Karyotype: 2:0

N = 259; Tail 8.86%, C1 42.59%, C2 48.55%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$

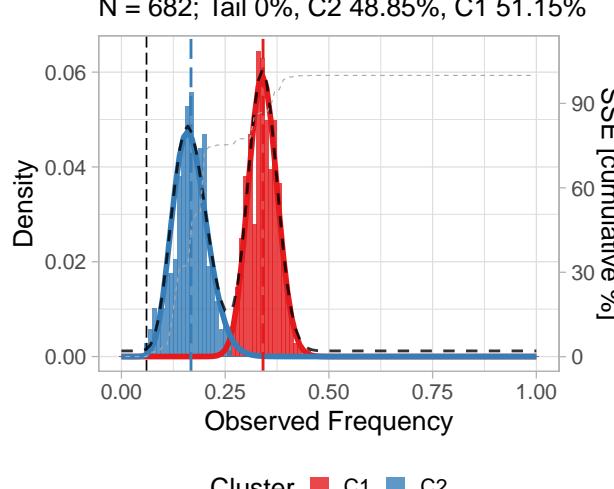


Cluster ■ Bin 1

MM ($\omega = 32$; $\epsilon = 1e-06$; SSE $3.090e-03$) LV > 0

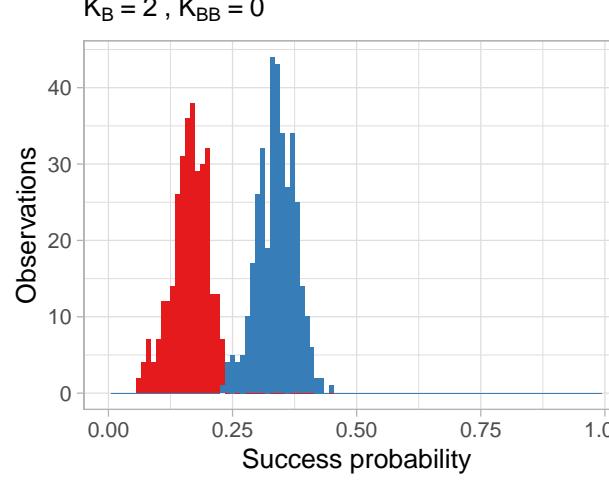
Karyotype: 2:2

N = 682; Tail 0%, C2 48.85%, C1 51.15%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1

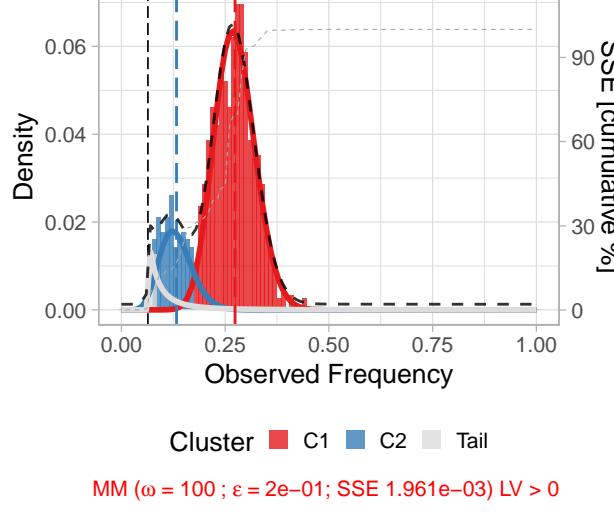
MM ($\omega = 48$; $\epsilon = 2e-04$; SSE $2.583e-03$) LV > 0

160721_HMFregCPCT_FR12244686_FR12244455_CPCT02010359

ONLY SNVs (min 150 – max 50000)

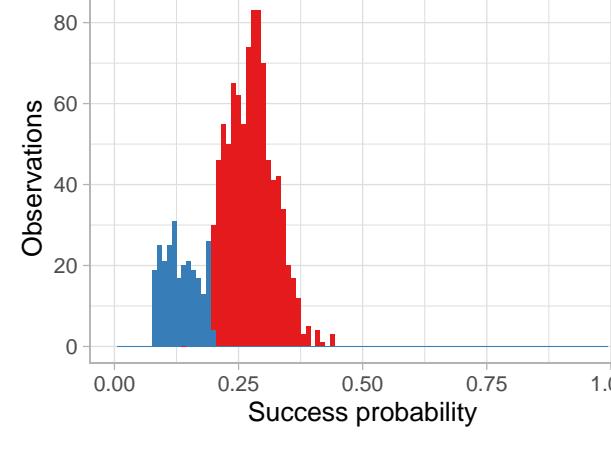
Karyotype: 1:0

N = 1192; Tail 5.51%, C2 17.04%, C1 77.45%



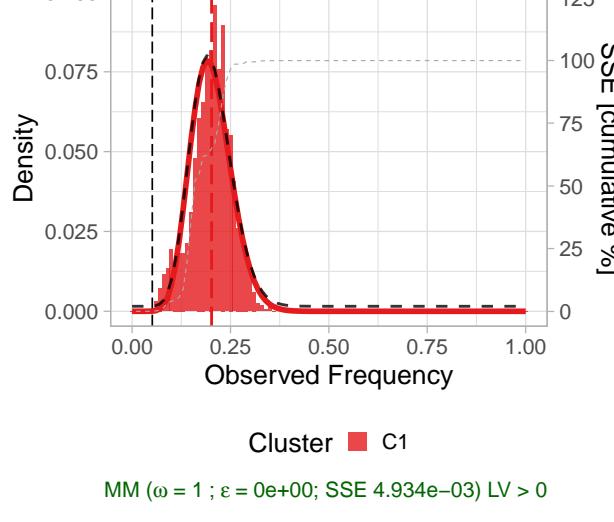
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



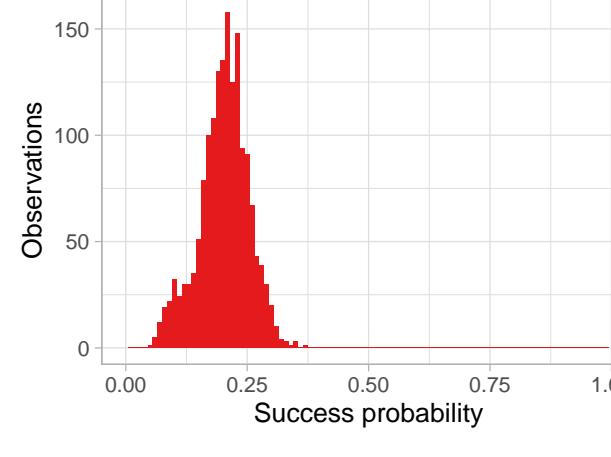
Karyotype: 1:1

N = 1650; Tail 0%, C1 100%



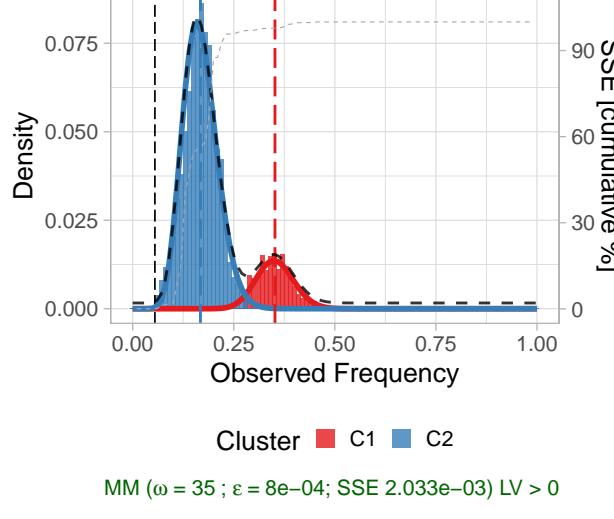
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



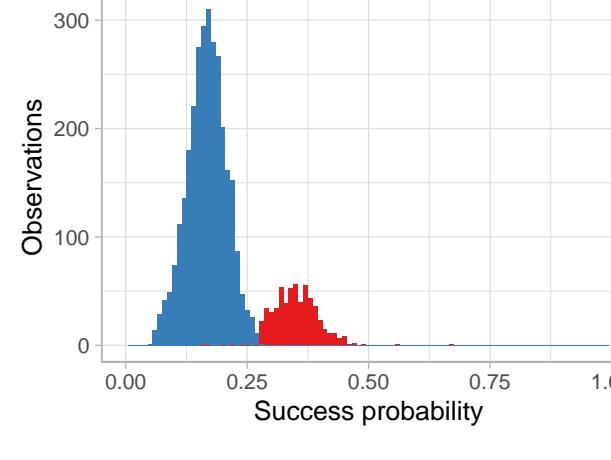
Karyotype: 2:1

N = 3588; Tail 0%, C1 15.67%, C2 84.33%



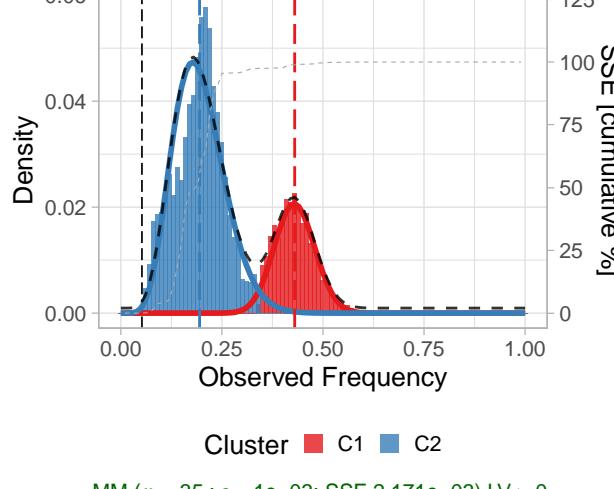
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



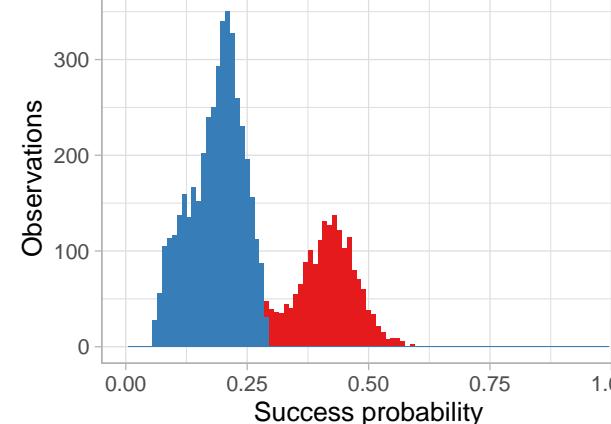
Karyotype: 2:0

N = 6082; Tail 0%, C1 25.69%, C2 74.31%



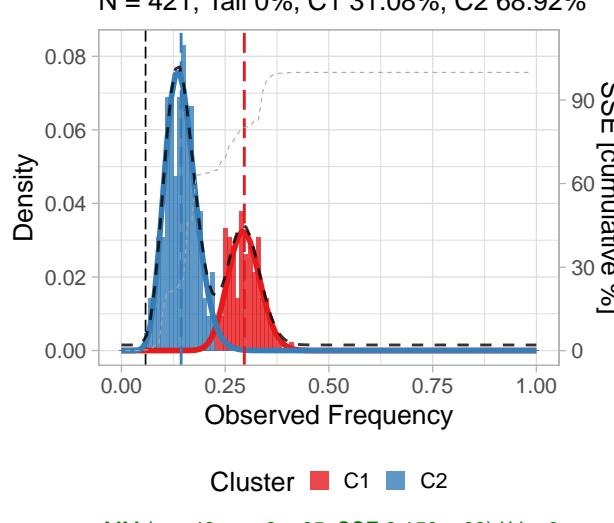
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



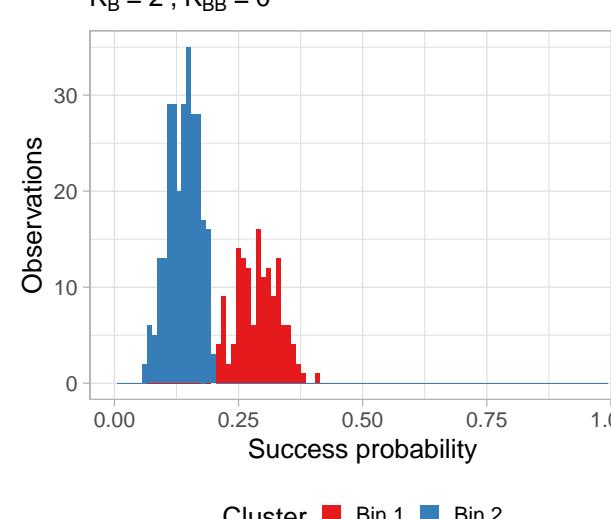
Karyotype: 2:2

N = 421; Tail 0%, C1 31.08%, C2 68.92%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

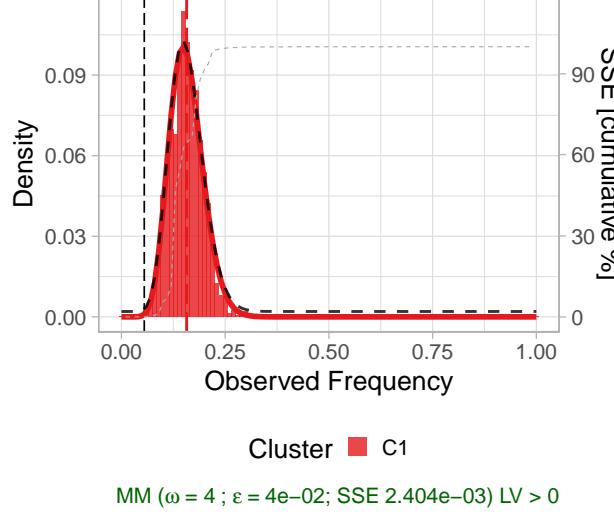


160721_HMFregCPCT_FR12254639_FR12244447_CPCT02050043

ONLY SNVs (min 150 – max 50000)

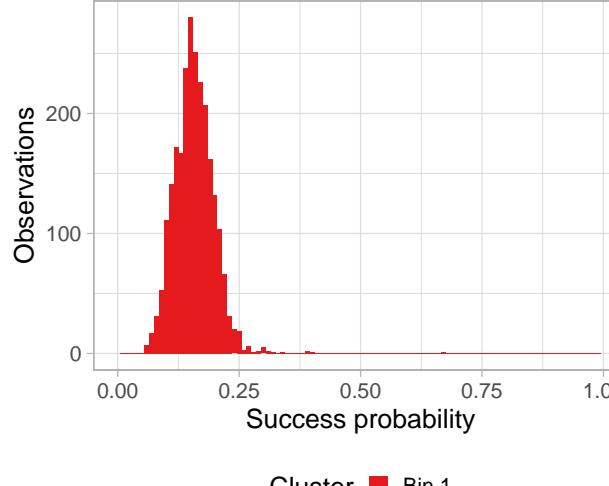
Karyotype: 1:0

N = 2460; Tail 0%, C1 100%



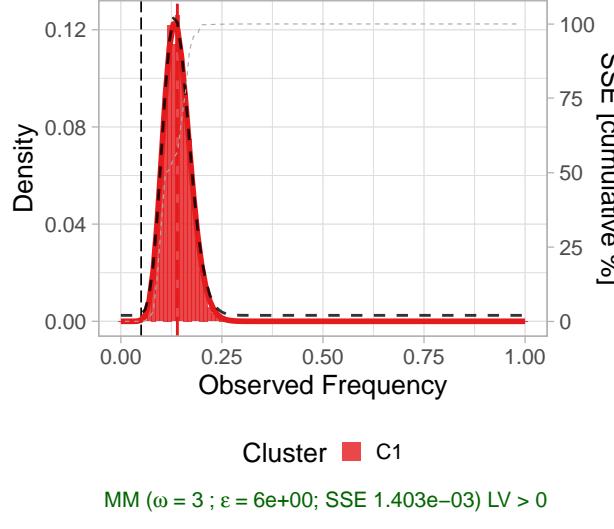
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



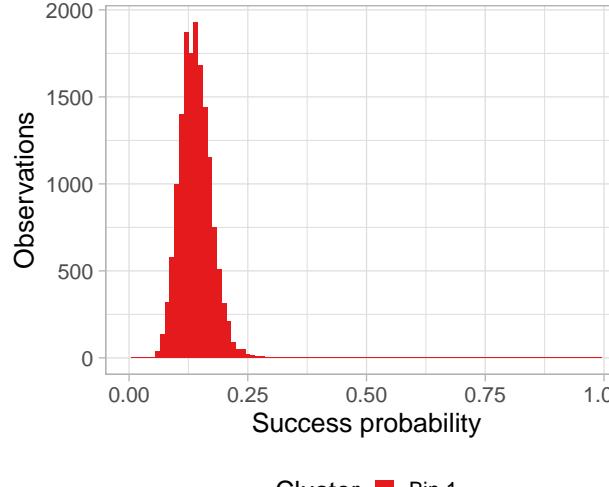
Karyotype: 1:1

N = 15341; Tail 0%, C1 100%



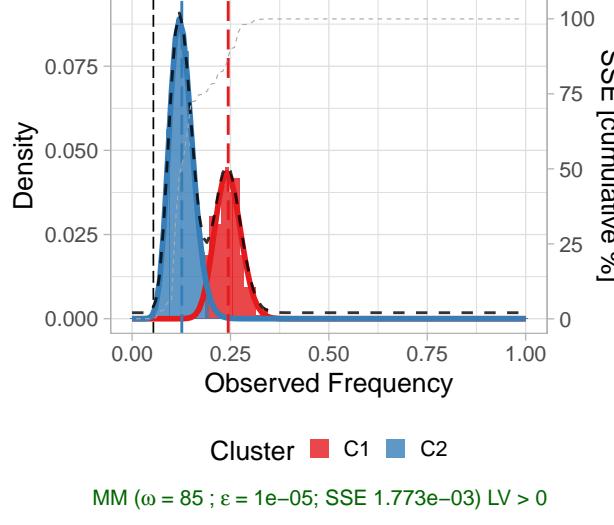
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



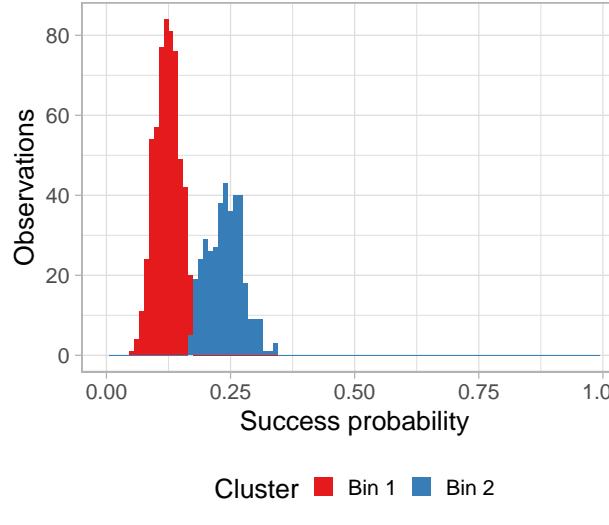
Karyotype: 2:1

N = 957; Tail 0%, C1 35.7%, C2 64.3%



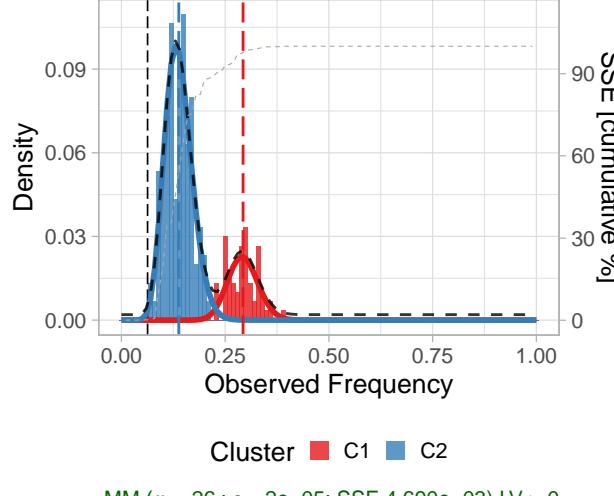
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



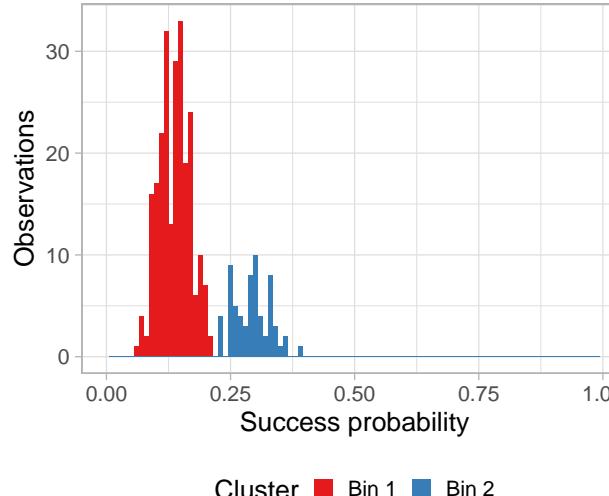
Karyotype: 2:0

N = 301; Tail 0%, C1 20.61%, C2 79.39%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

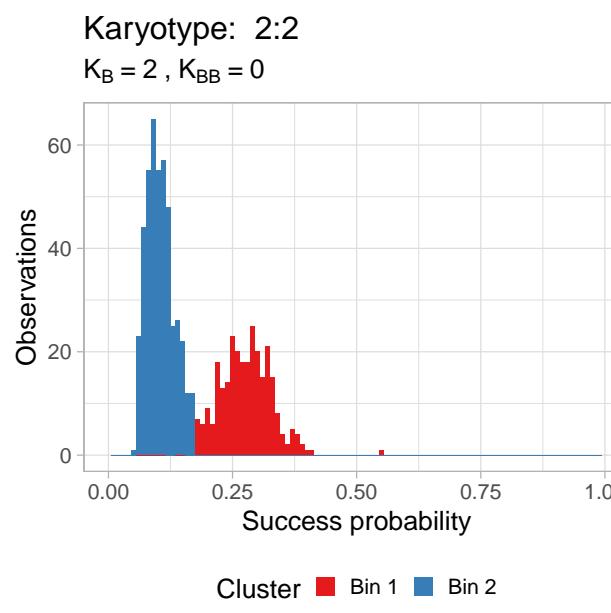
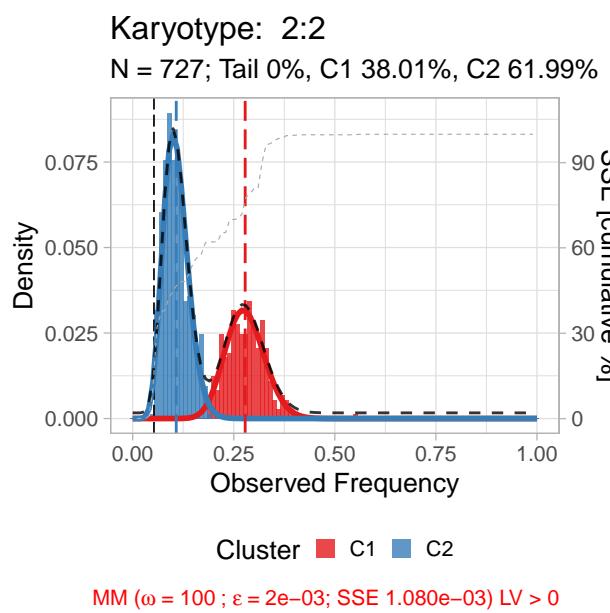
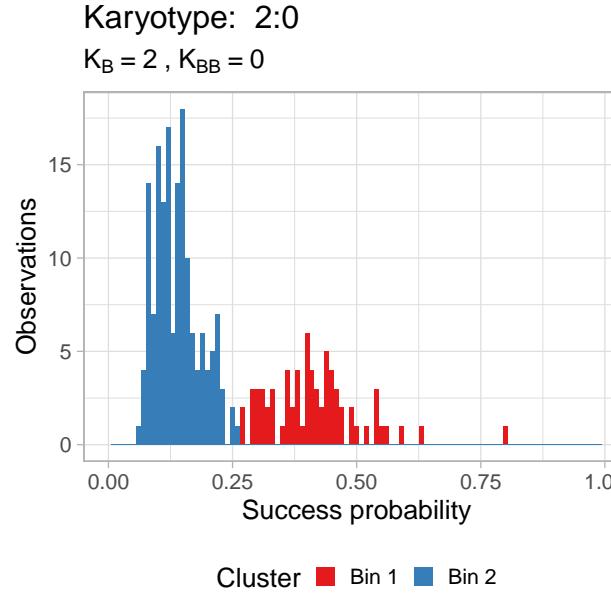
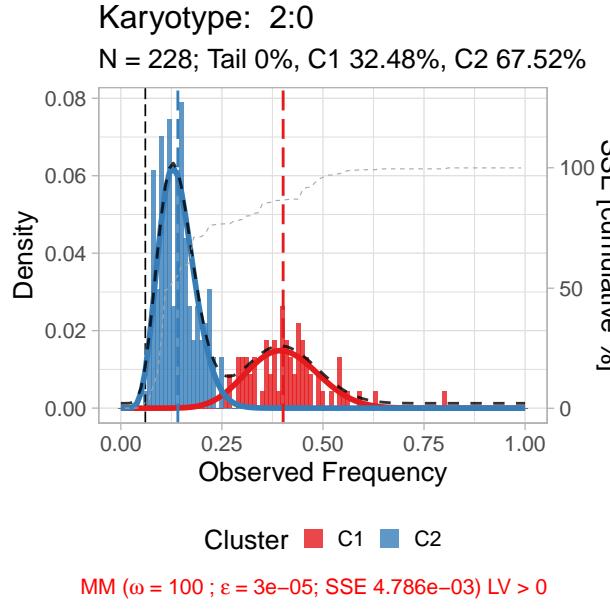
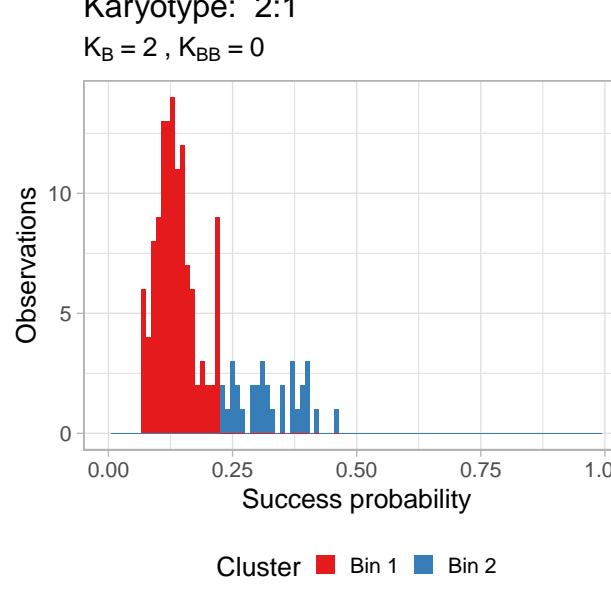
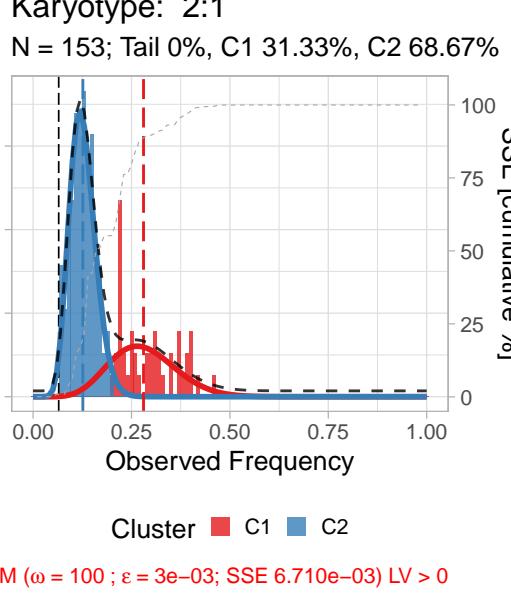
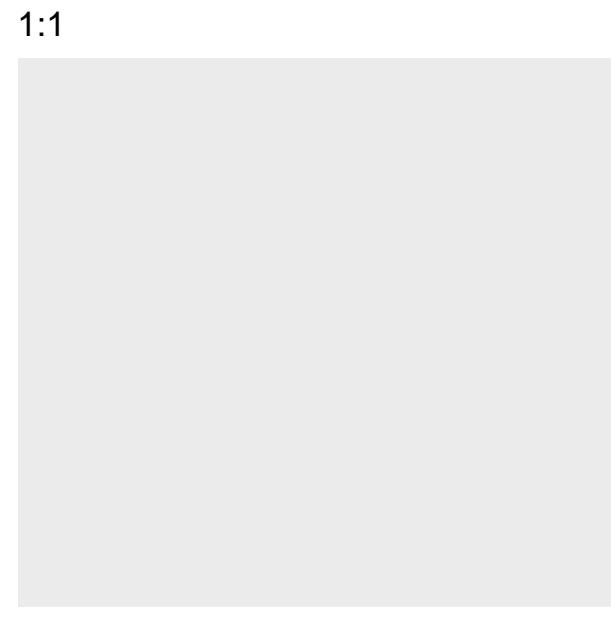
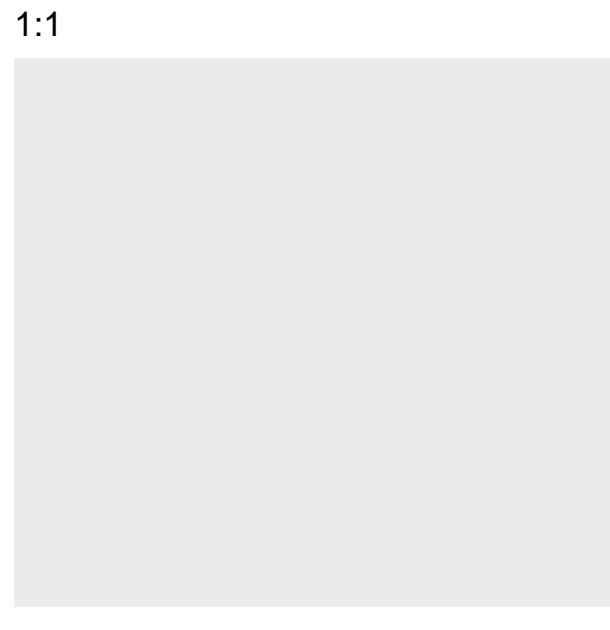
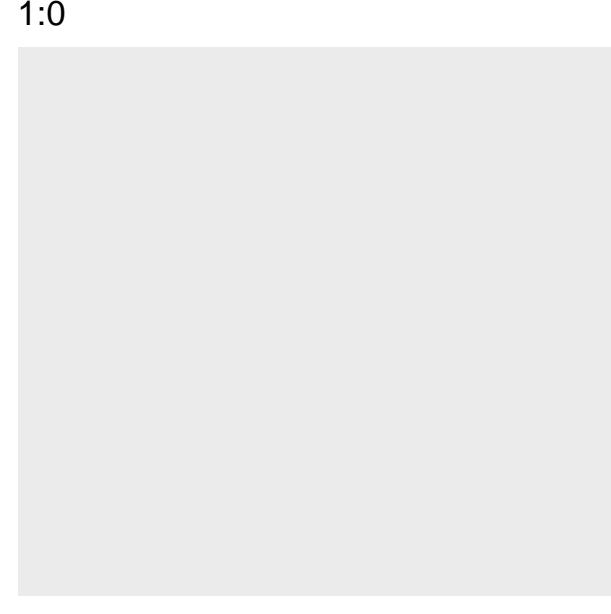
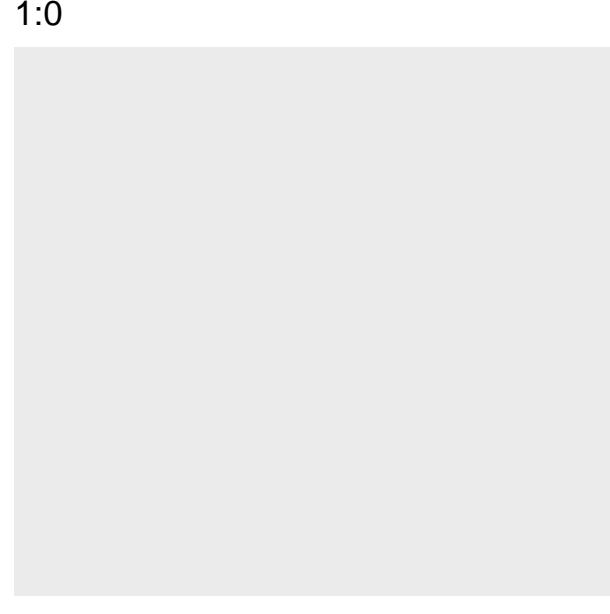


2:2

2:2

160725_HMFregCPCT_FR03631796_FR10302571_CPCT02140007

ONLY SNVs (min 150 – max 50000)

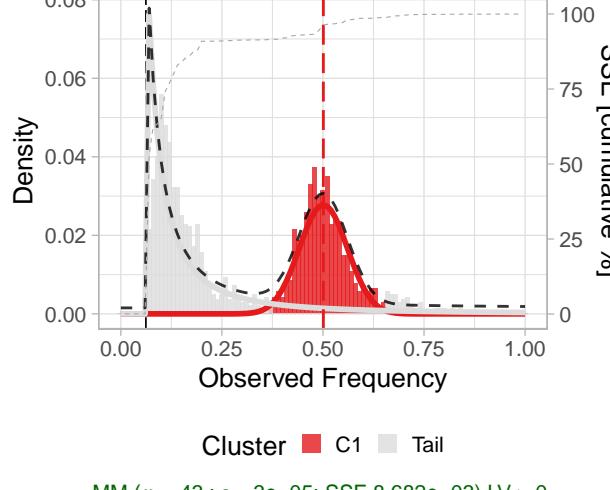


160725_HMFregCPCT_FR03631914_FR10302575_CPCT02010370

ONLY SNVs (min 150 – max 50000)

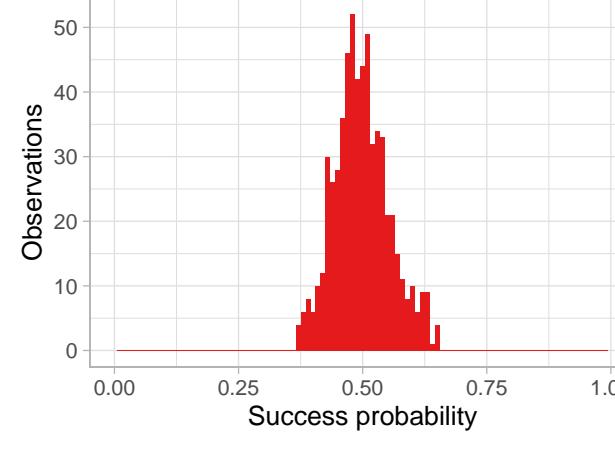
Karyotype: 1:0

N = 1398; C1 40.89%, Tail 59.11%



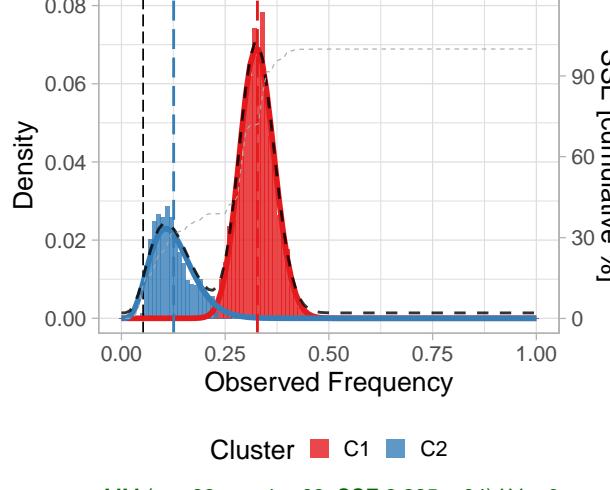
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



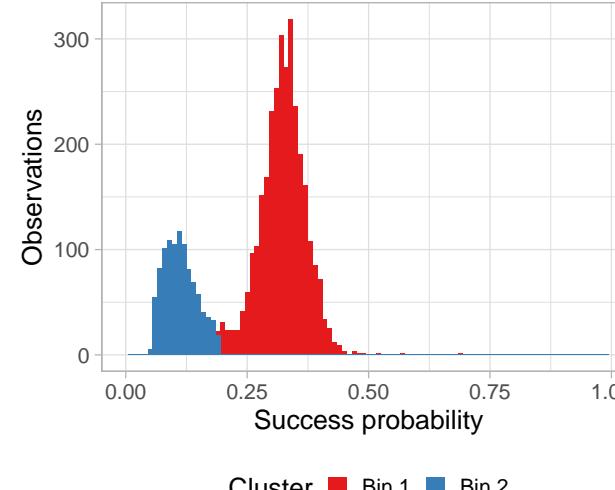
Karyotype: 1:1

N = 4078; Tail 0%, C2 28.19%, C1 71.81%



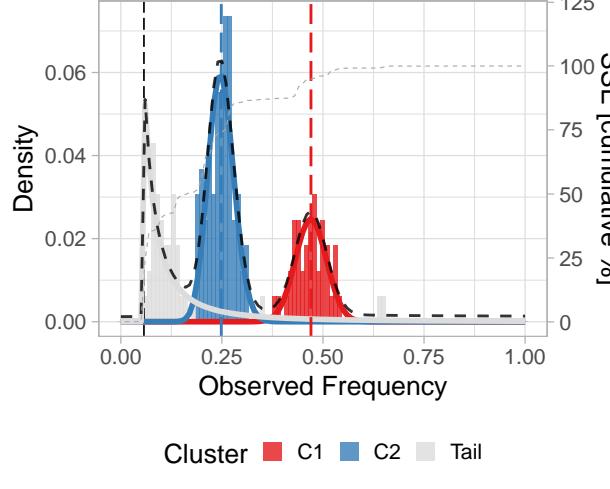
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



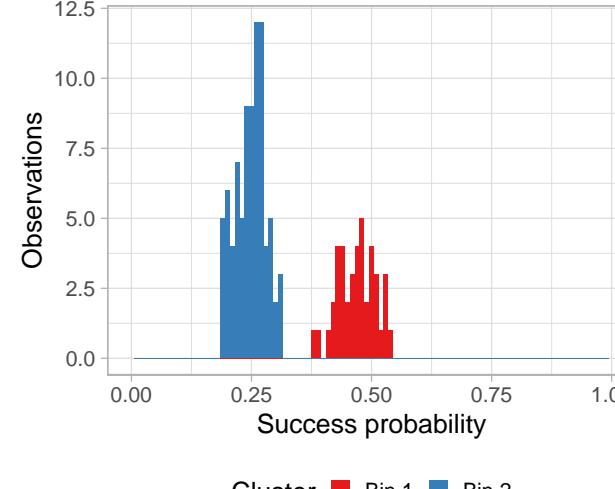
Karyotype: 2:1

N = 163; C1 23.81%, Tail 28.94%, C2 47.25%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

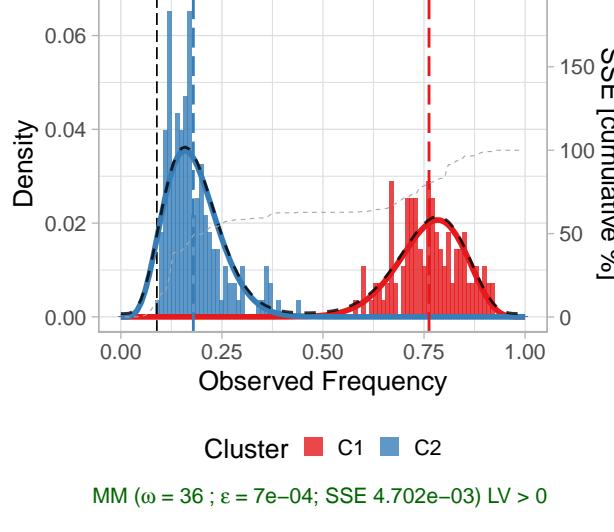
2:2

160725_HMFregCPCT_FR03631919_FR10302569_CPCT02140011

ONLY SNVs (min 150 – max 50000)

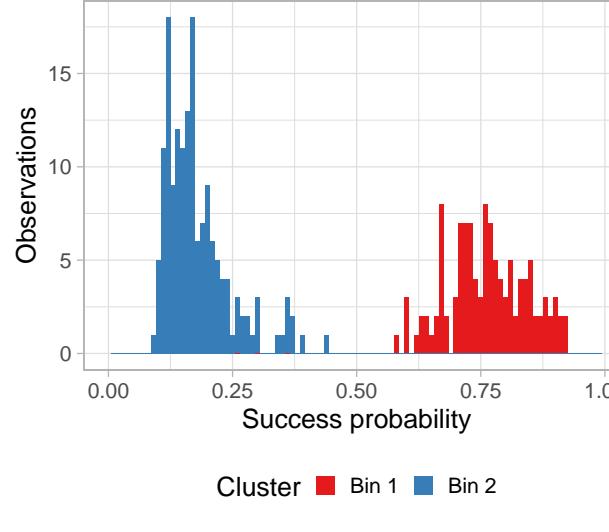
Karyotype: 1:0

N = 276; Tail 0%, C1 42.12%, C2 57.88%



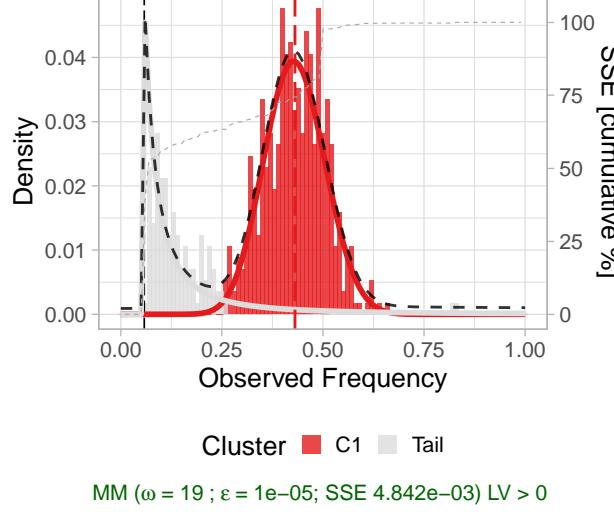
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



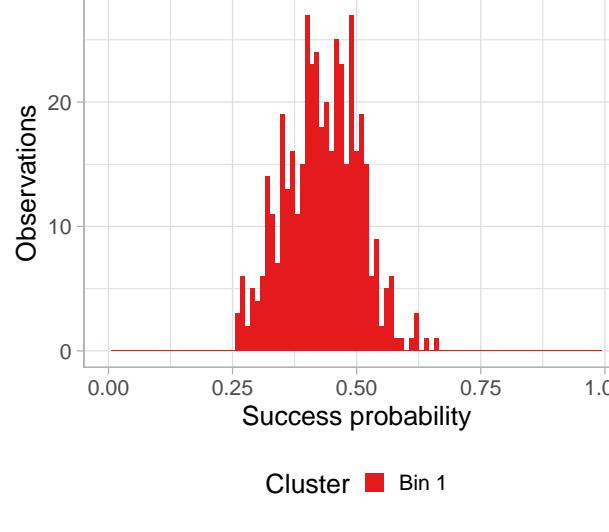
Karyotype: 1:1

N = 567; Tail 25.73%, C1 74.27%



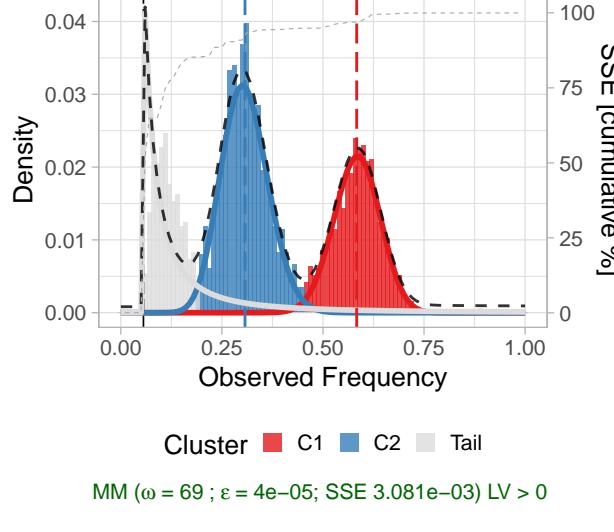
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



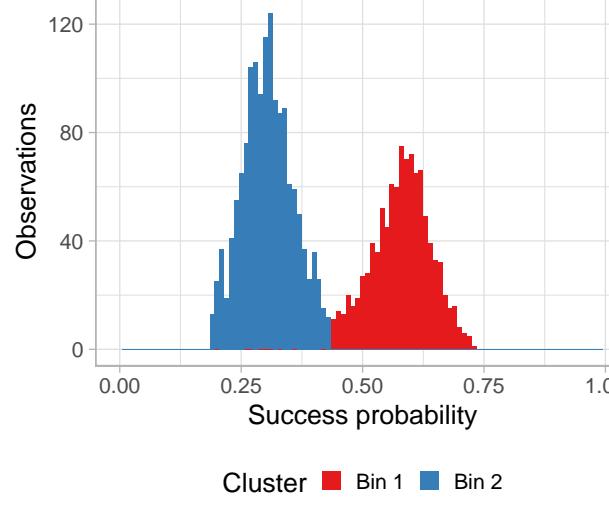
Karyotype: 2:1

N = 3122; Tail 24.16%, C1 30.72%, C2 45.11%



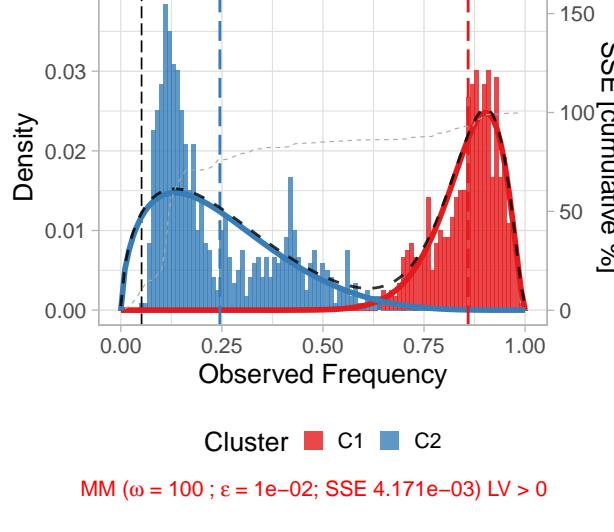
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



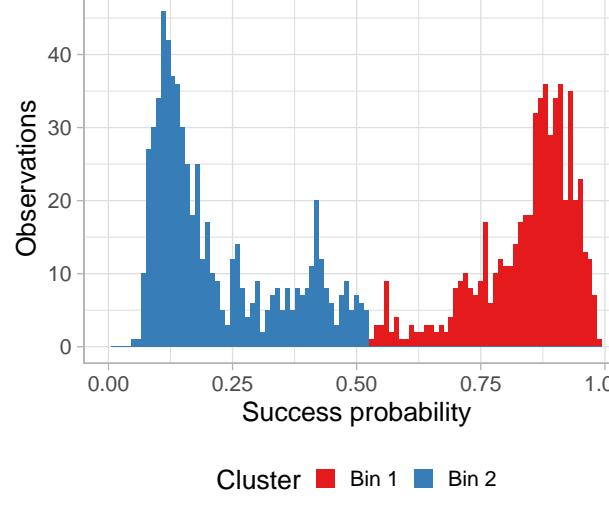
Karyotype: 2:0

N = 1198; Tail 0%, C1 45.1%, C2 54.9%



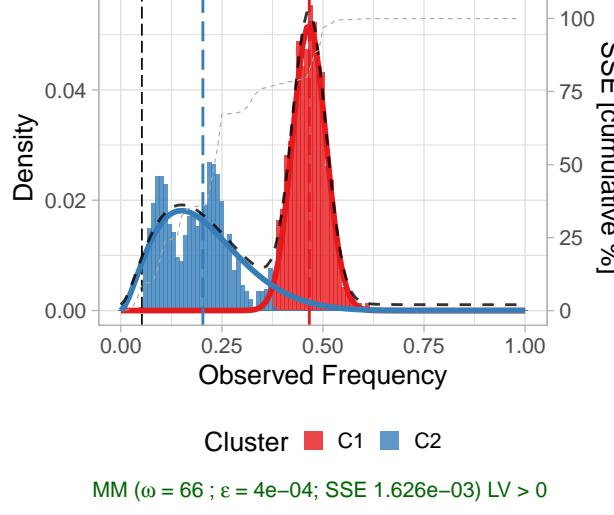
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



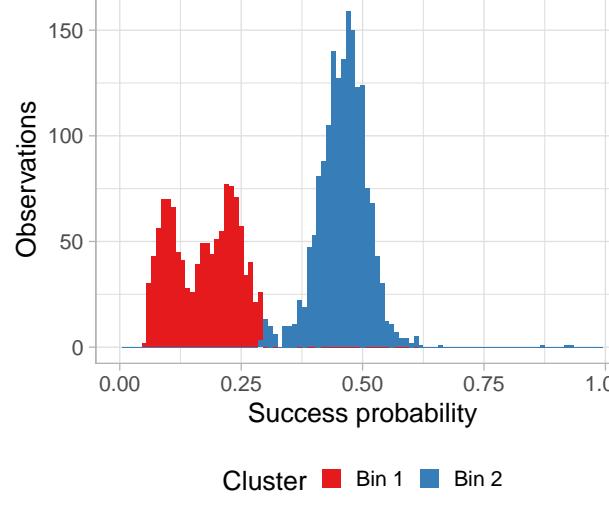
Karyotype: 2:2

N = 2869; Tail 0%, C2 46.76%, C1 53.24%



Karyotype: 2:2

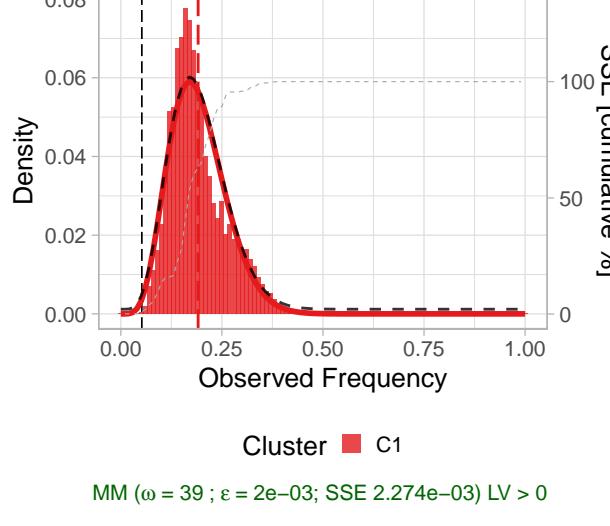
$K_B = 2$, $K_{BB} = 0$



160725_HMFregCPCT_FR03631924_FR10302574_CPCT02020337

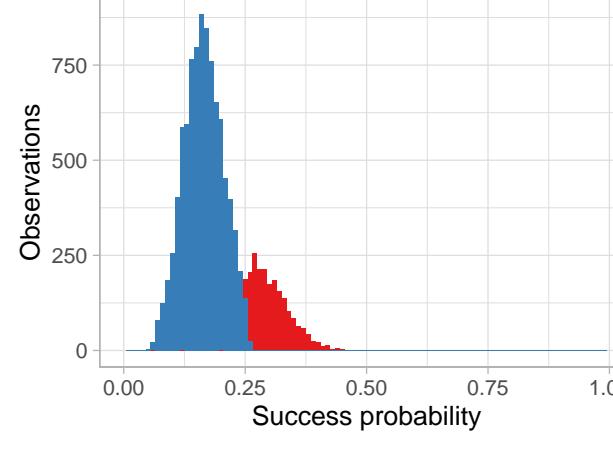
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 11362; Tail 0%, C1 100%



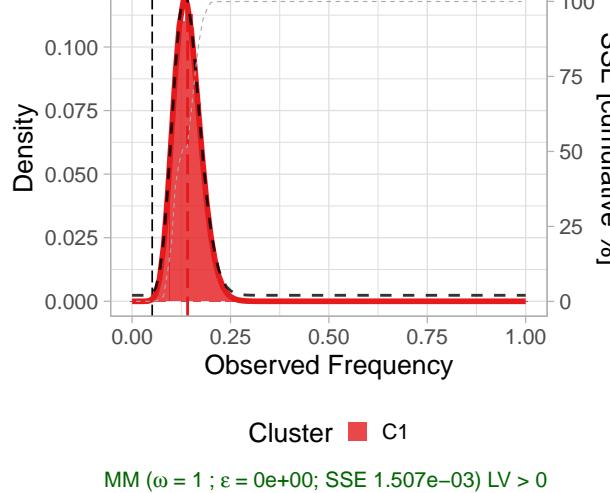
MM ($\omega = 39$; $\epsilon = 2e-03$; SSE 2.274e-03) LV > 0

Karyotype: 1:0
 $K_B = 2, K_{BB} = 0$



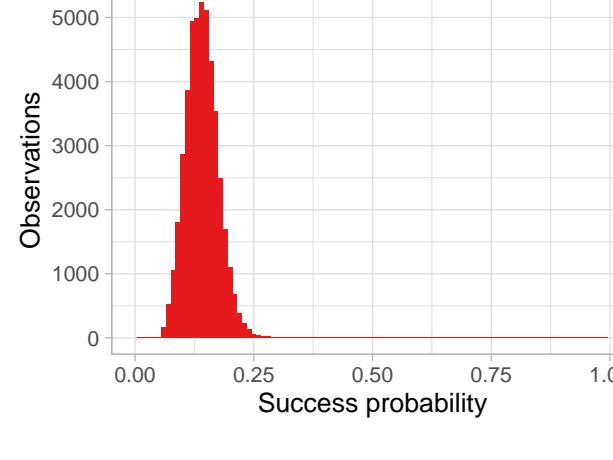
Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1
N = 45280; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.507e-03) LV > 0

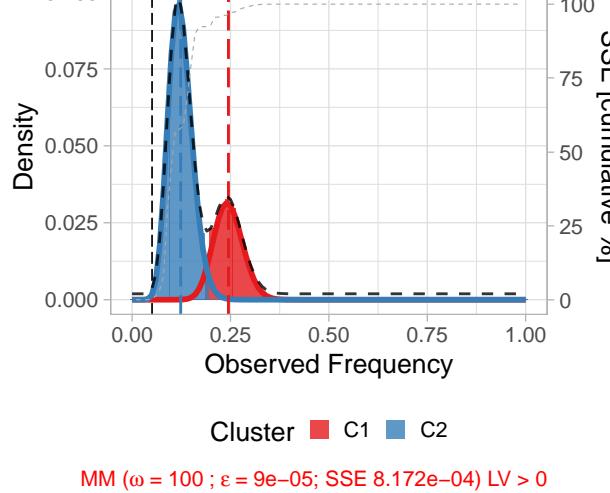
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

N = 23027; Tail 0%, C1 28.83%, C2 71.17%

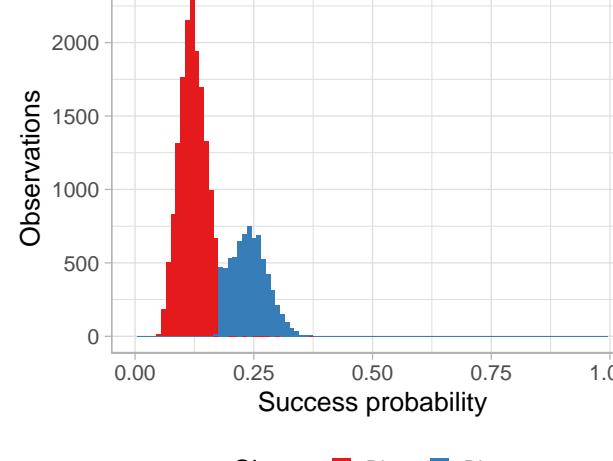


Cluster ■ C1 ■ C2

MM ($\omega = 100$; $\epsilon = 9e-05$; SSE 8.172e-04) LV > 0

Karyotype: 2:1

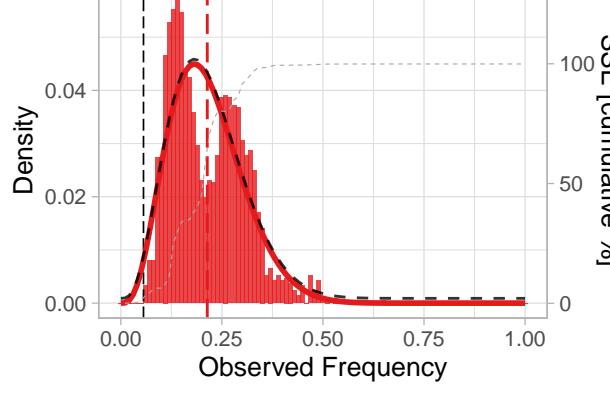
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 2122; Tail 0%, C1 100%

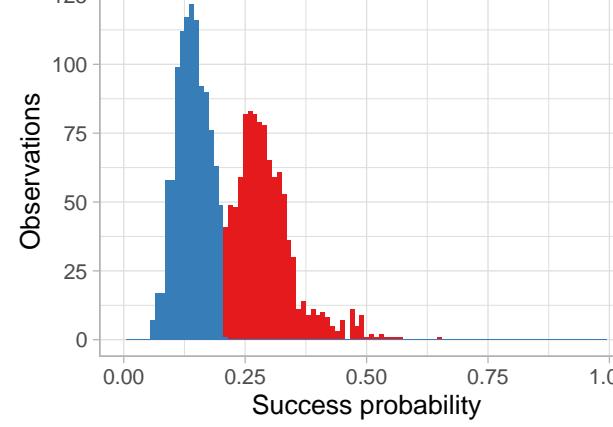


Cluster ■ C1

MM ($\omega = 37$; $\epsilon = 5e-04$; SSE 4.284e-03) LV > 0

Karyotype: 2:0

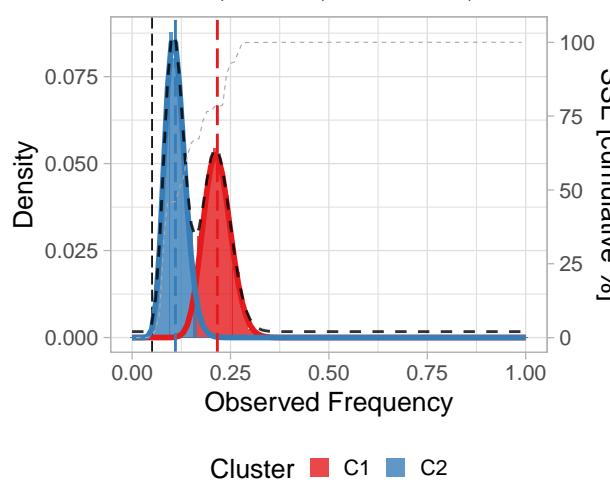
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

N = 4744; Tail 0%, C1 45.49%, C2 54.51%

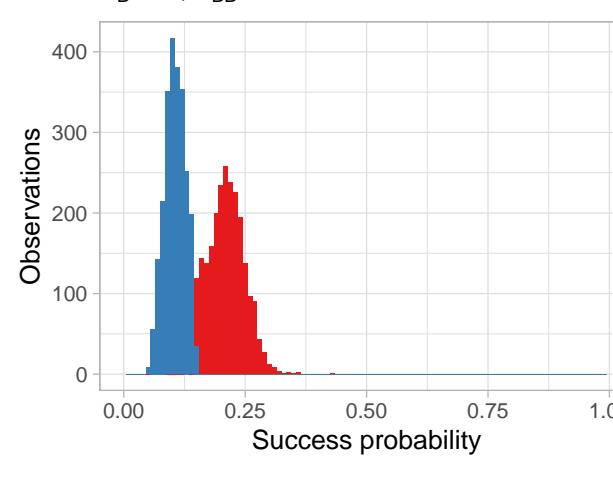


Cluster ■ C1 ■ C2

MM ($\omega = 100$; $\epsilon = 5e-04$; SSE 6.892e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

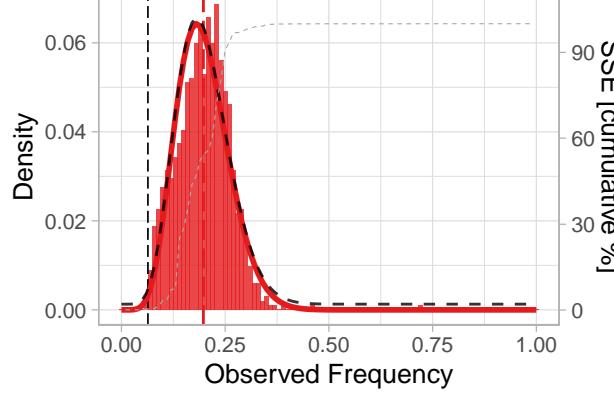


Cluster ■ Bin 1 ■ Bin 2

160725_HMFregCPCT_FR03631931_FR10302577_CPCT02010372

ONLY SNVs (min 150 – max 50000)

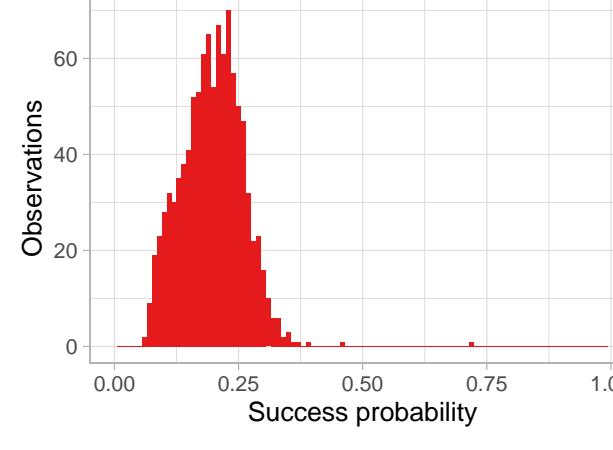
Karyotype: 1:0
N = 1019; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $3.445e-03$) LV > 0

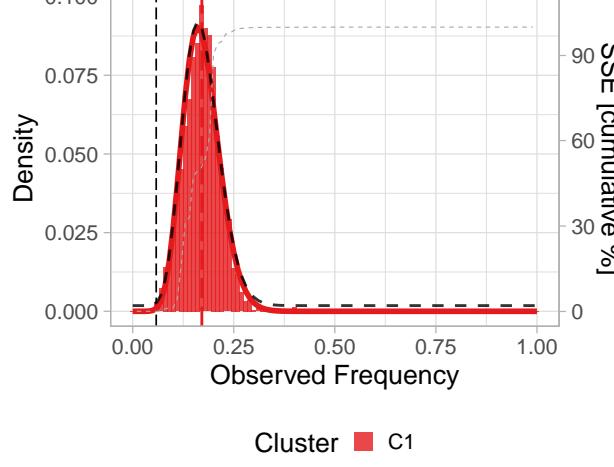
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

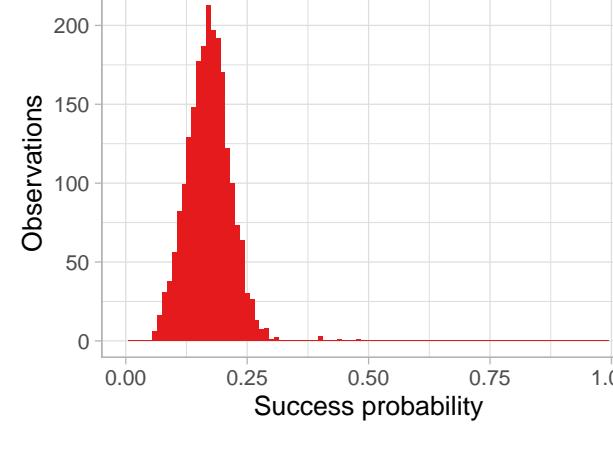
Karyotype: 1:1
N = 2192; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $2.366e-03$) LV > 0

Karyotype: 1:1

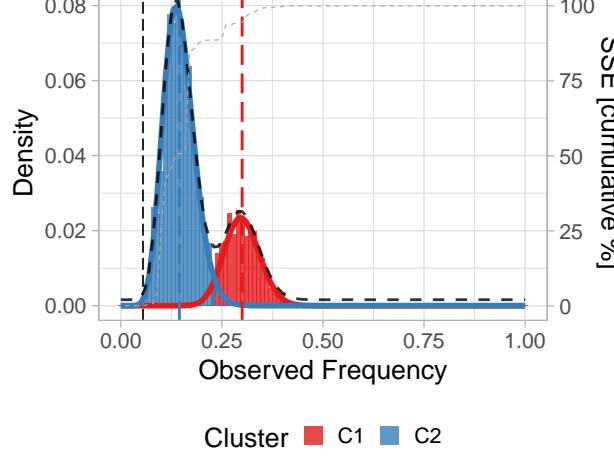
$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

N = 2629; Tail 0%, C1 25.43%, C2 74.57%

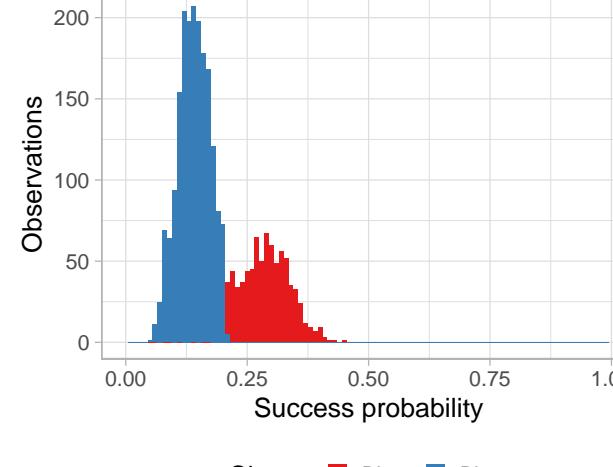


Cluster ■ C1 ■ C2

MM ($\omega = 54$; $\epsilon = 5e-05$; SSE $1.036e-03$) LV > 0

Karyotype: 2:1

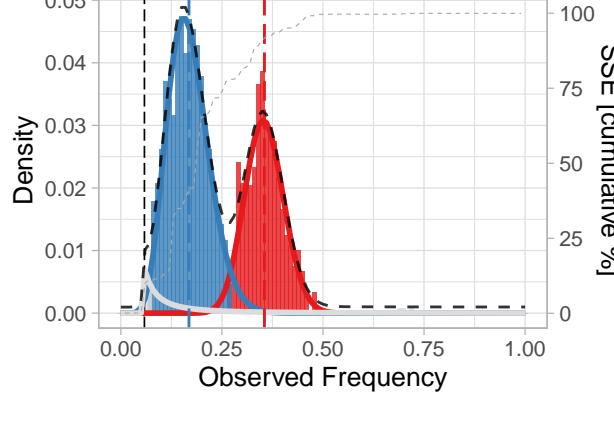
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 2406; Tail 3.76%, C1 36.93%, C2 59.31%

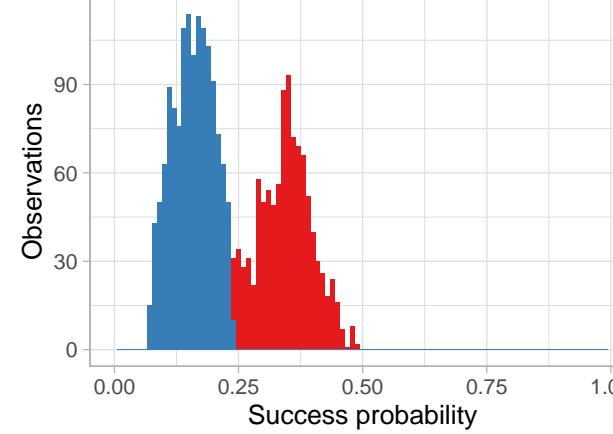


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 100$; $\epsilon = 1e-05$; SSE $6.999e-04$) LV > 0

Karyotype: 2:0

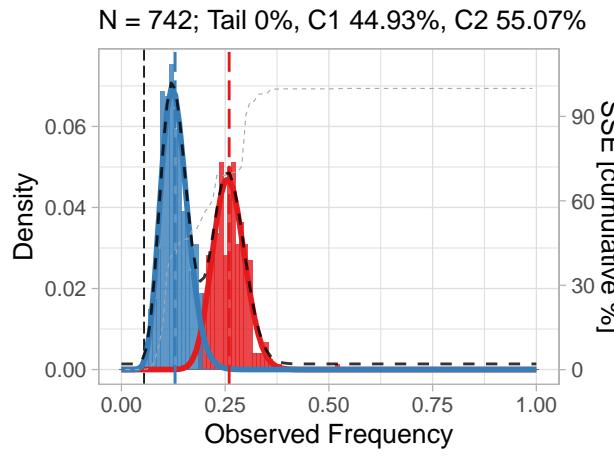
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

N = 742; Tail 0%, C1 44.93%, C2 55.07%

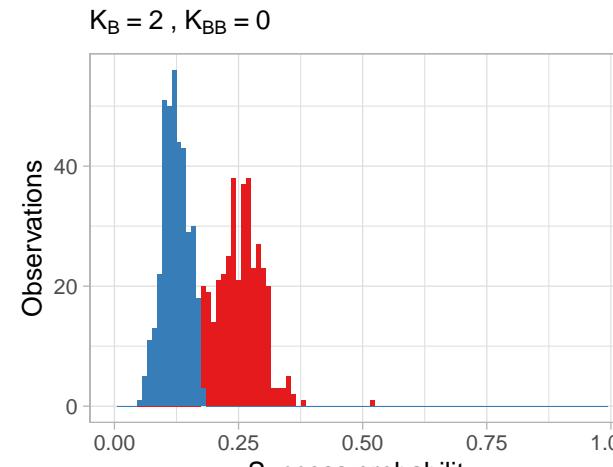


Cluster ■ C1 ■ C2

MM ($\omega = 95$; $\epsilon = 2e-05$; SSE $1.470e-03$) LV > 0

Karyotype: 2:2

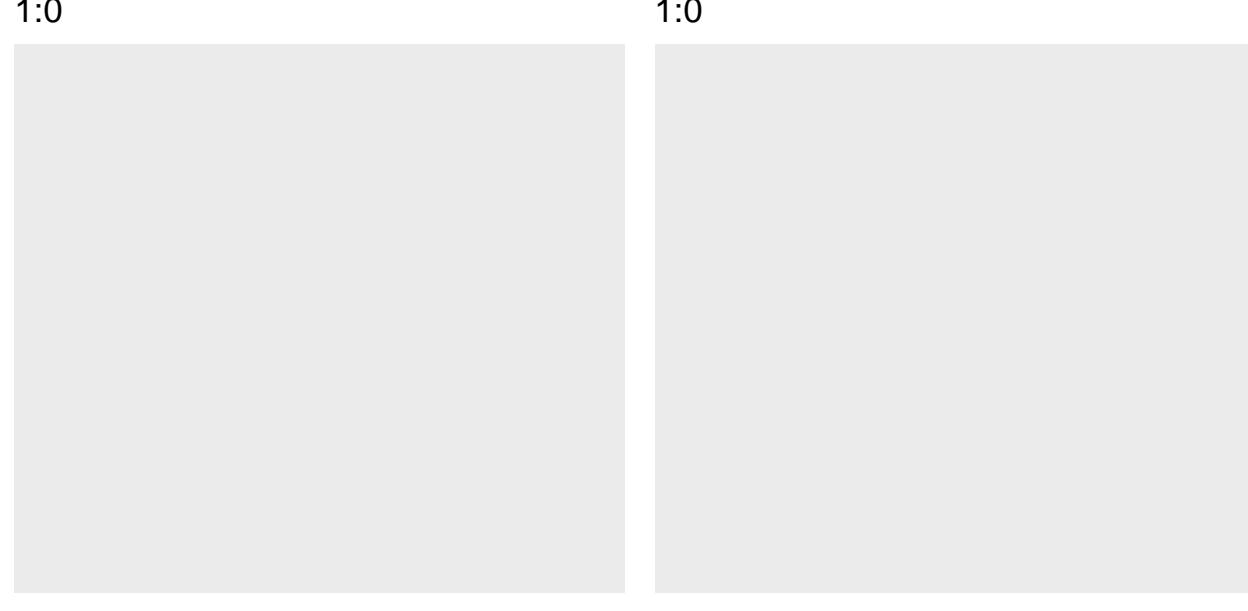
$K_B = 2, K_{BB} = 0$



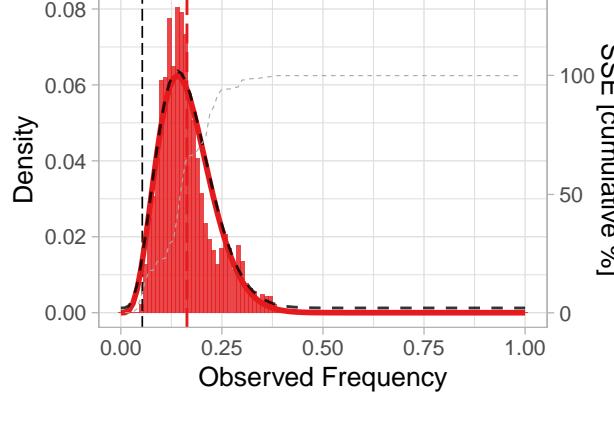
Cluster ■ Bin 1 ■ Bin 2

160725_HMFregCPCT_FR12244553_FR10302567_CPCT02020322

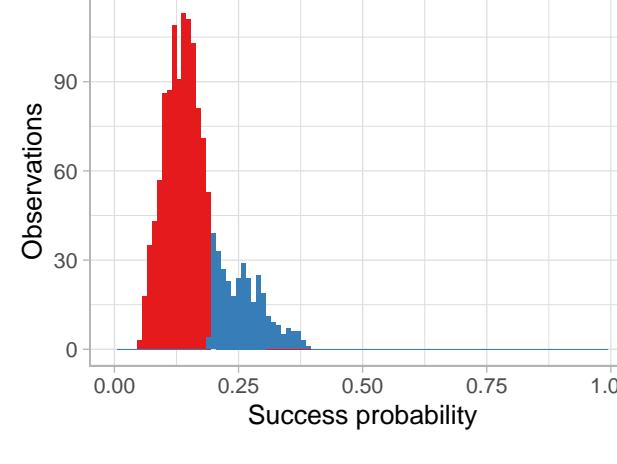
ONLY SNVs (min 150 – max 50000)



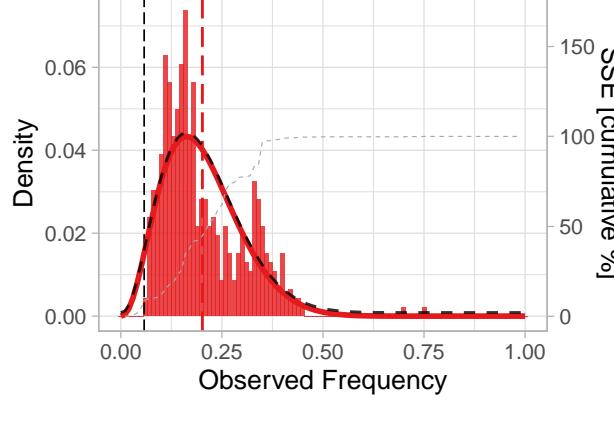
Karyotype: 2:1
N = 1403; Tail 0%, C1 100%



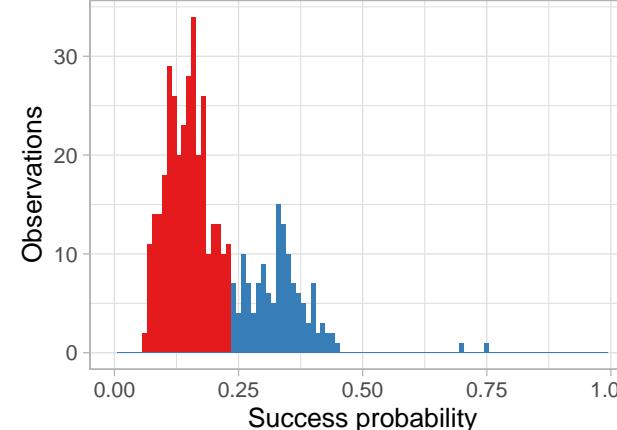
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



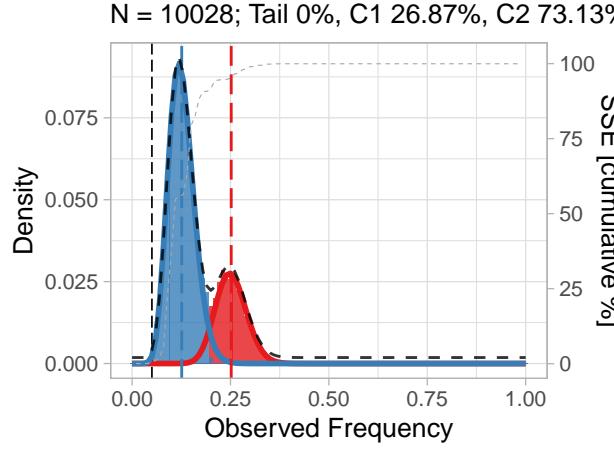
Karyotype: 2:0
N = 461; Tail 0%, C1 100%



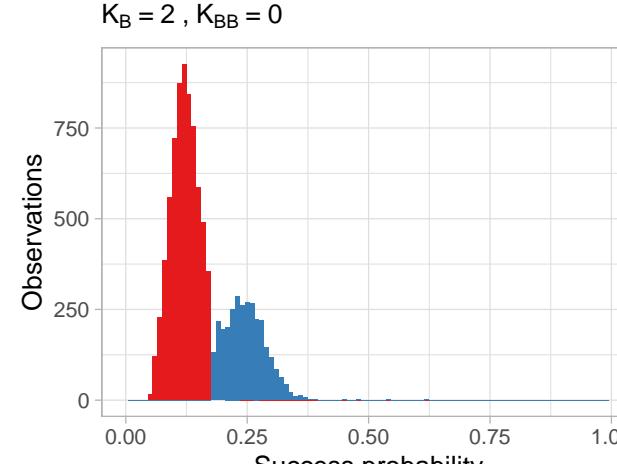
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 10028; Tail 0%, C1 26.87%, C2 73.13%



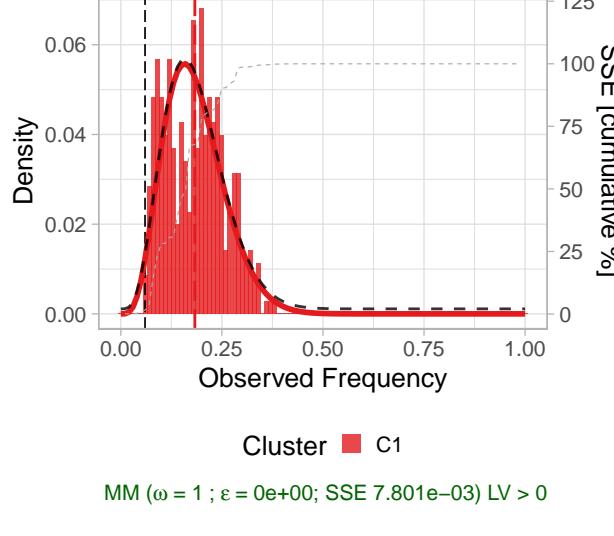
Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



160725_HMFregCPCT_FR12244679_FR10302566_CPCT02010351

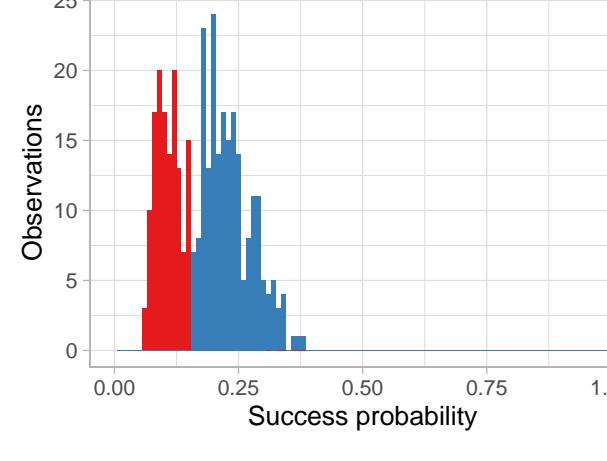
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 352; Tail 0%, C1 100%

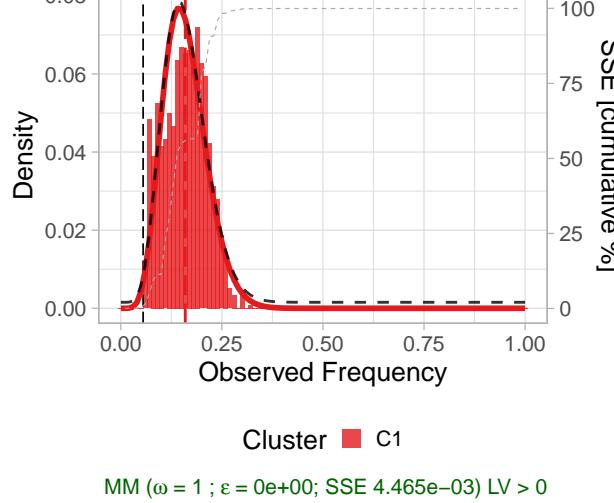


Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$

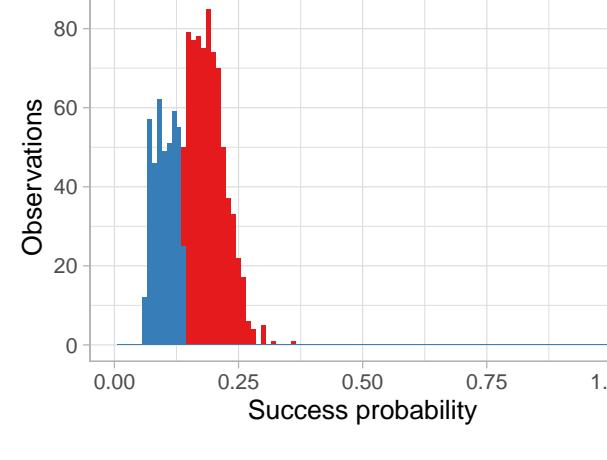


Karyotype: 1:1
N = 1180; Tail 0%, C1 100%

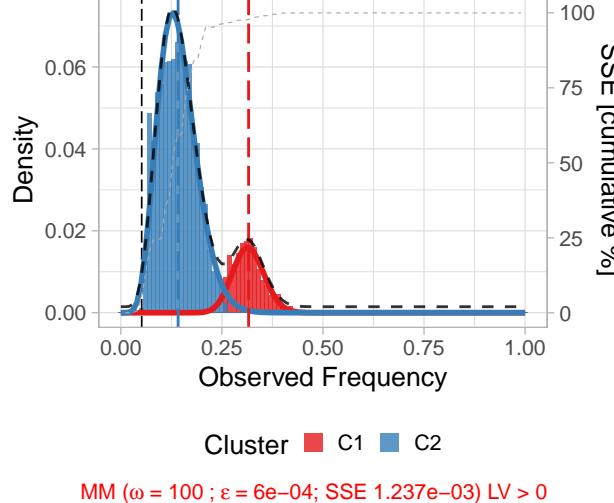


Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$

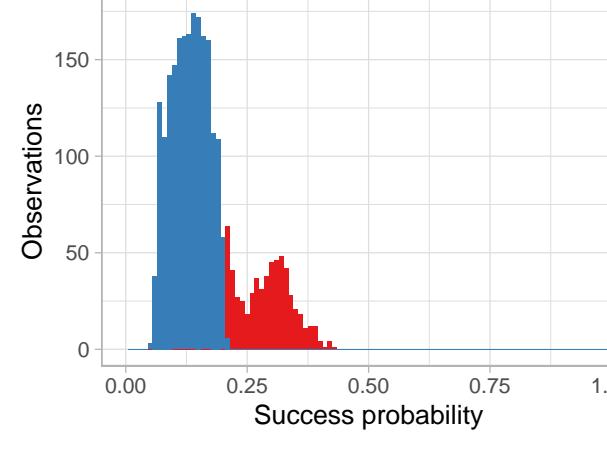


Karyotype: 2:1
N = 2633; Tail 0%, C1 15.39%, C2 84.61%

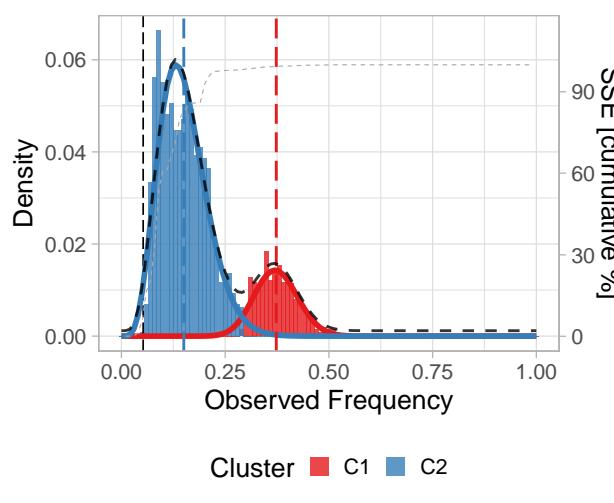


Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$

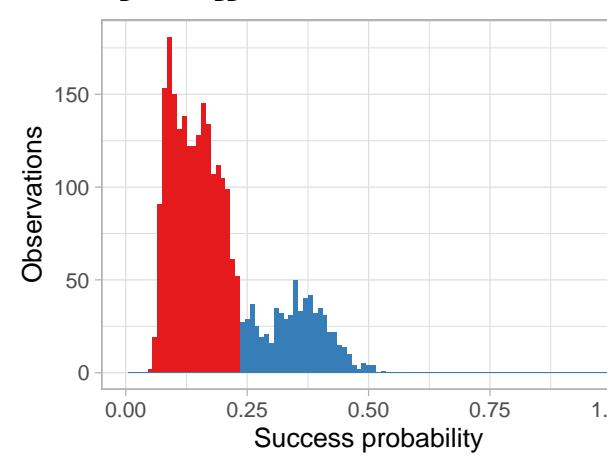


Karyotype: 2:0
N = 2726; Tail 0%, C1 18.62%, C2 81.38%

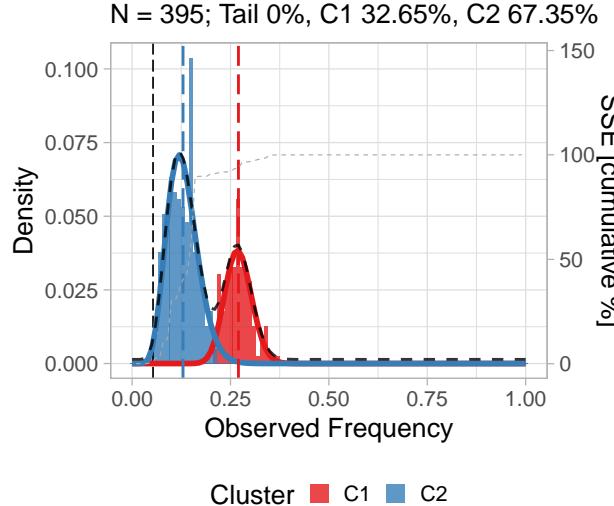


Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

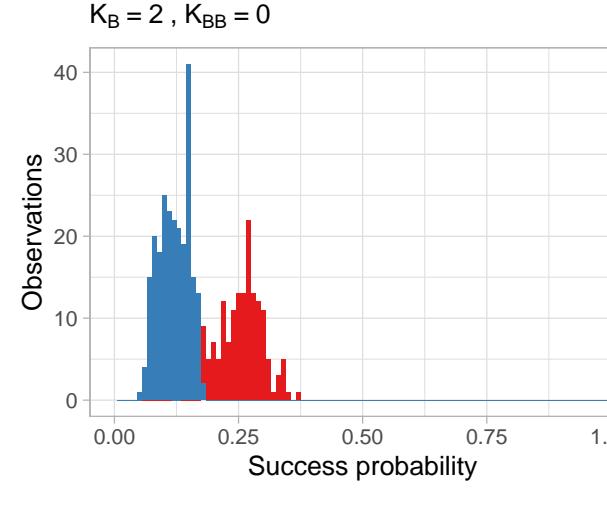


Karyotype: 2:2
N = 395; Tail 0%, C1 32.65%, C2 67.35%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

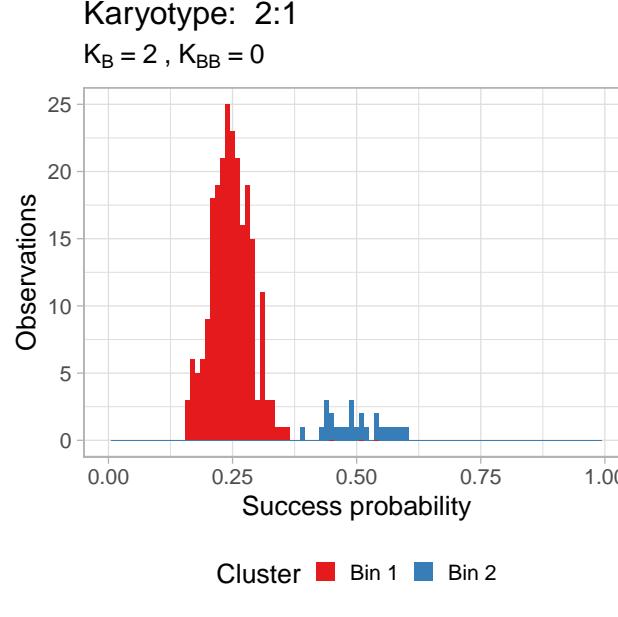
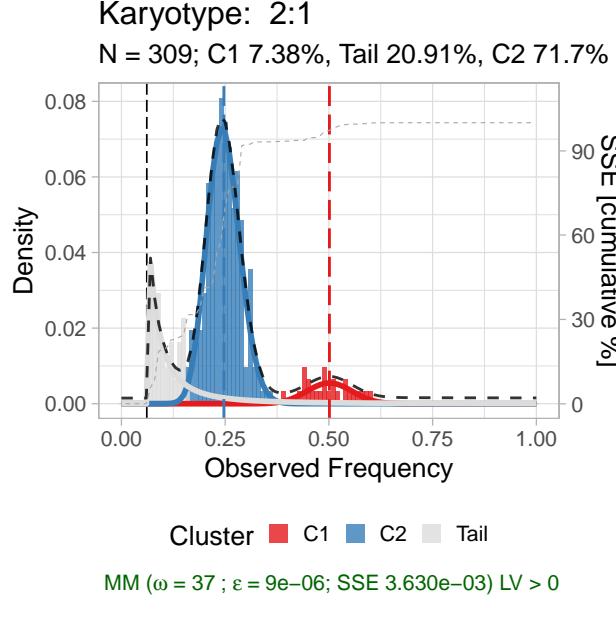
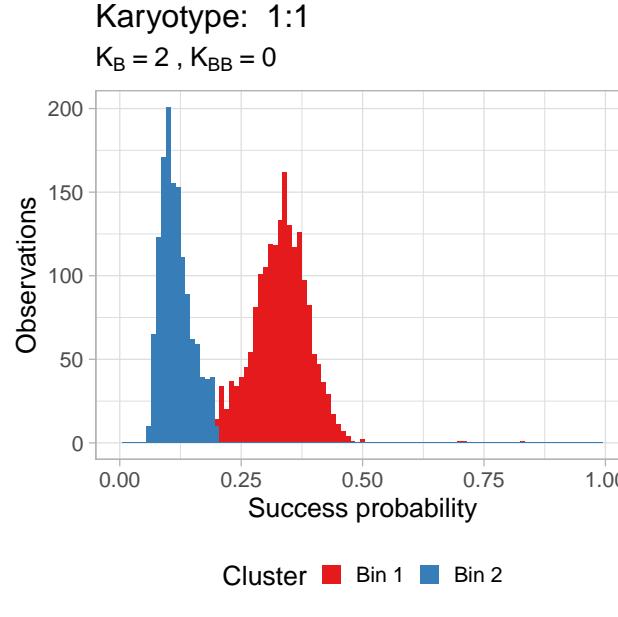
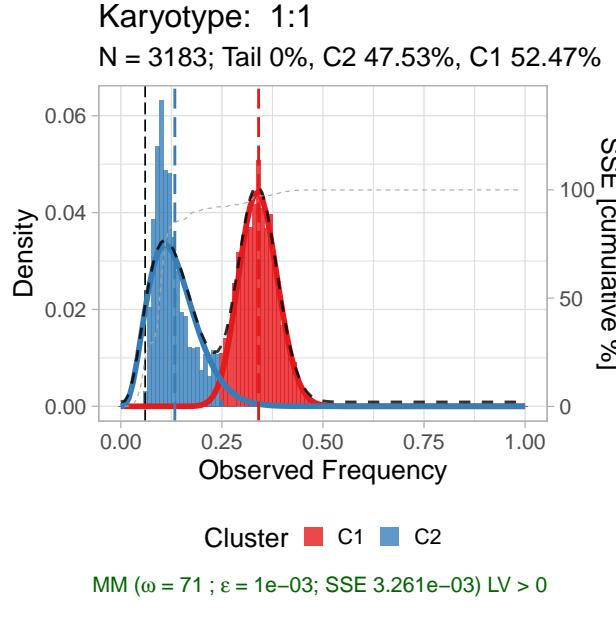


160731_HMFregCPCT_FR03631944_FR10302582_CPCT02010362

ONLY SNVs (min 150 – max 50000)

1:0

1:0



2:0

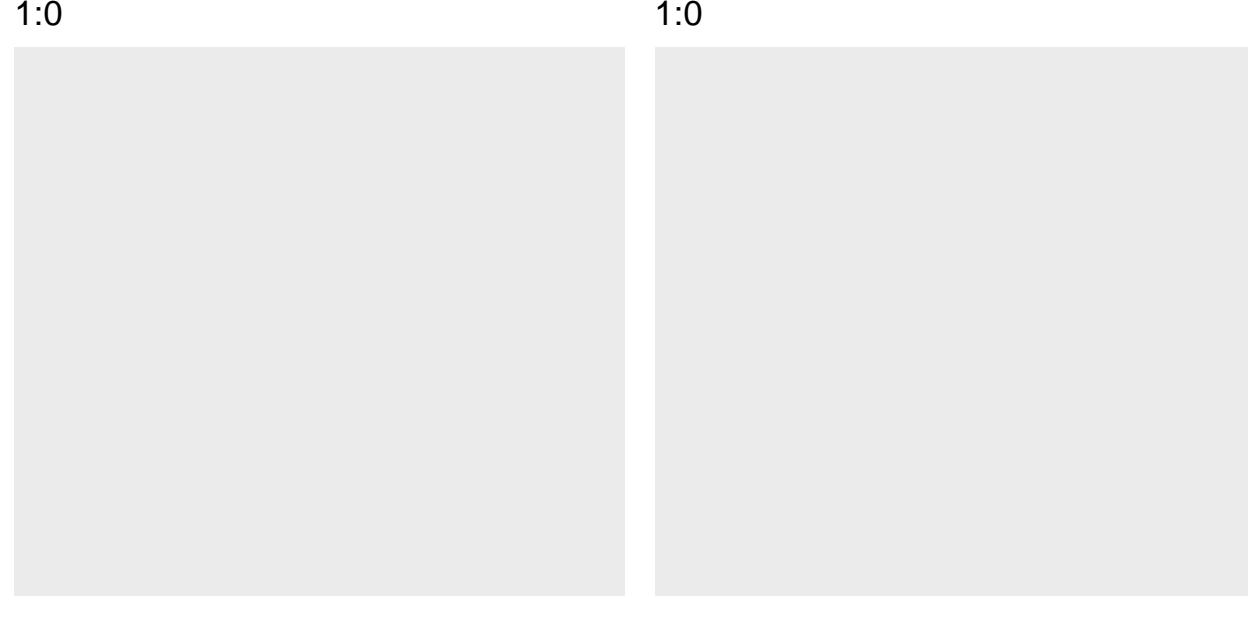
2:0

2:2

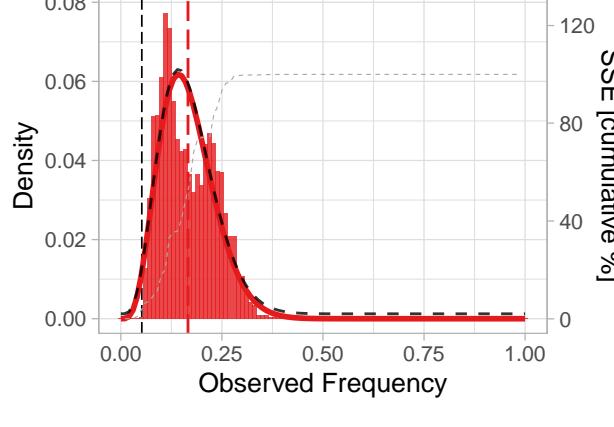
2:2

160802_HMFregCPCT_FR03631910_FR12244691_CPCT02110003

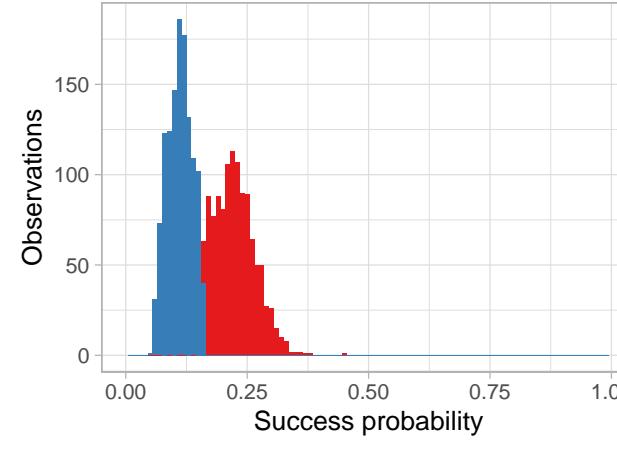
ONLY SNVs (min 150 – max 50000)



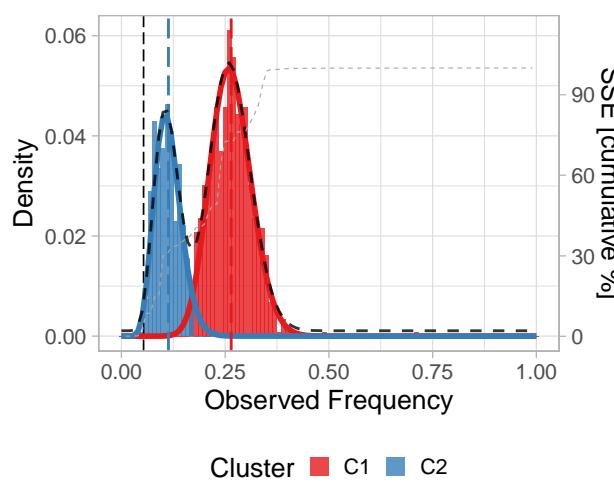
Karyotype: 2:1
N = 2406; Tail 0%, C1 100%



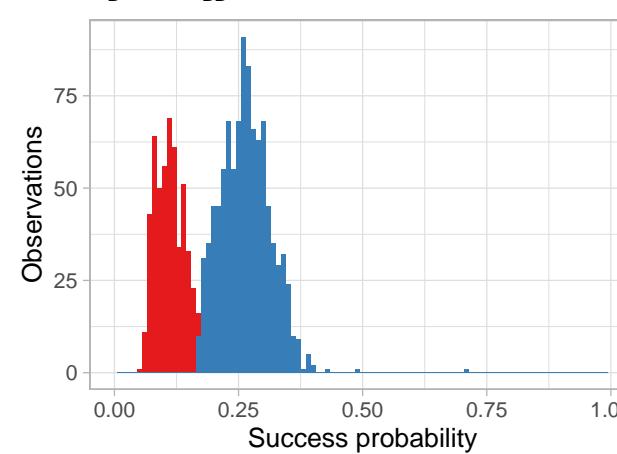
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



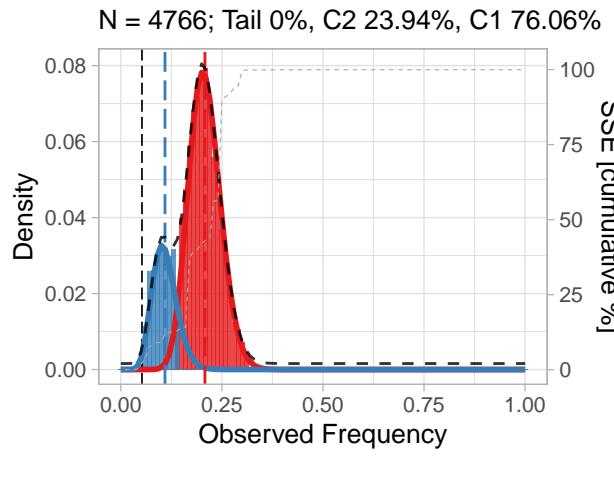
Karyotype: 2:0
N = 1490; Tail 0%, C2 34.4%, C1 65.6%



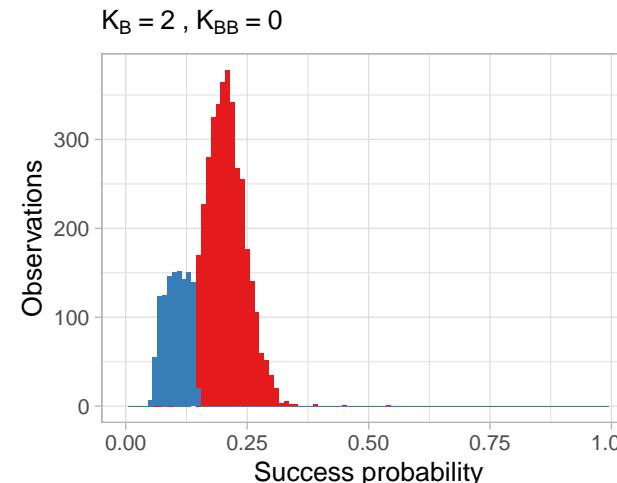
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 4766; Tail 0%, C2 23.94%, C1 76.06%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



160802_HMFregCPCT_FR03631920_FR12244692_CPCT02110004

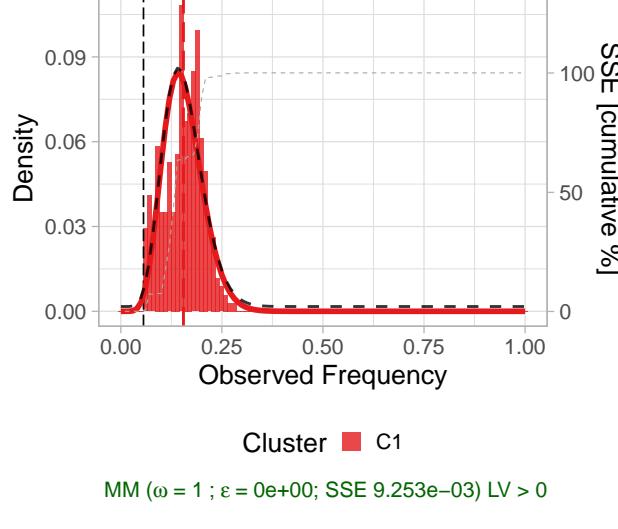
ONLY SNVs (min 150 – max 50000)

1:0

1:0

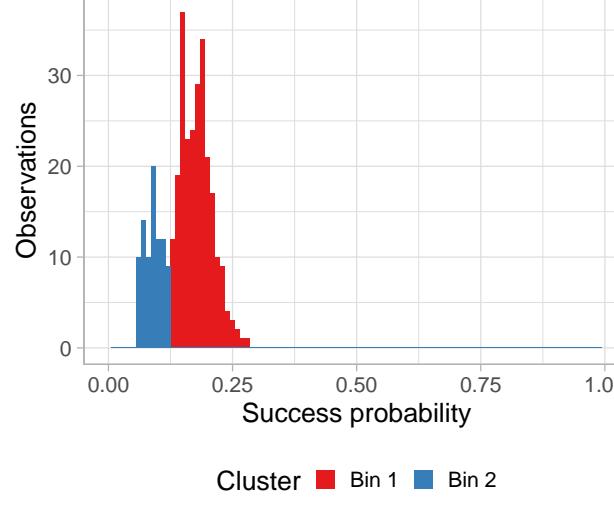
Karyotype: 1:1

N = 342; Tail 0%, C1 100%



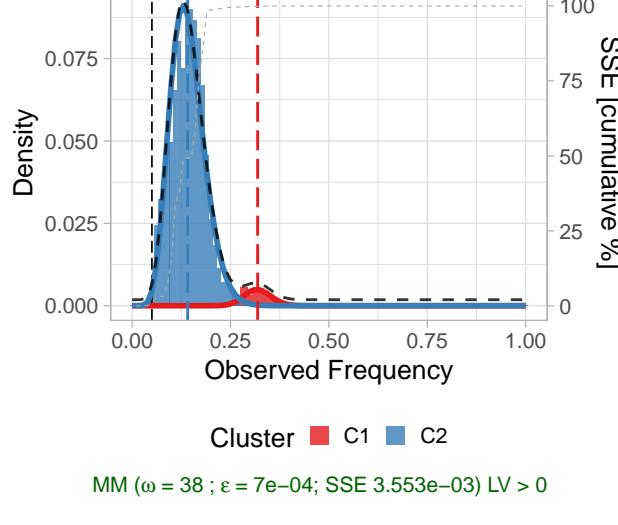
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



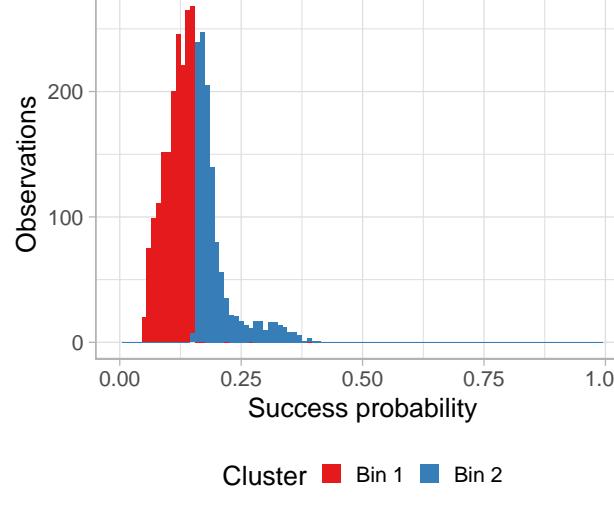
Karyotype: 2:1

N = 3060; Tail 0%, C1 4.14%, C2 95.86%



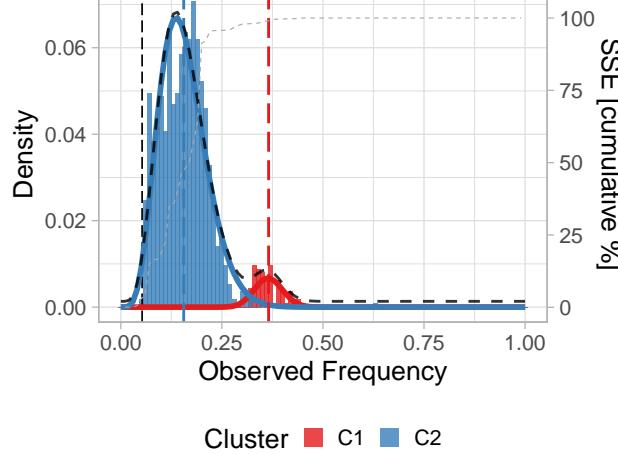
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



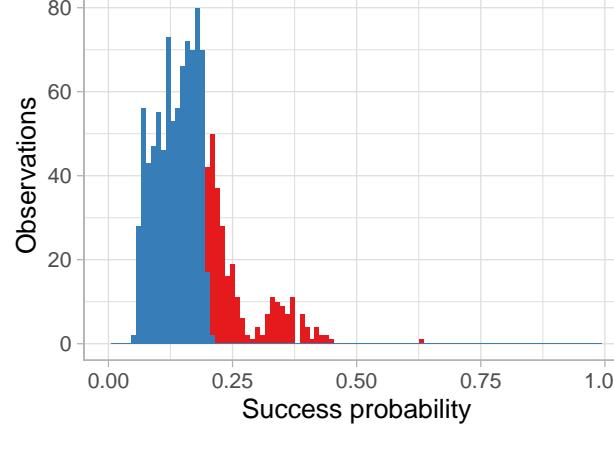
Karyotype: 2:0

N = 1131; Tail 0%, C1 5.82%, C2 94.18%



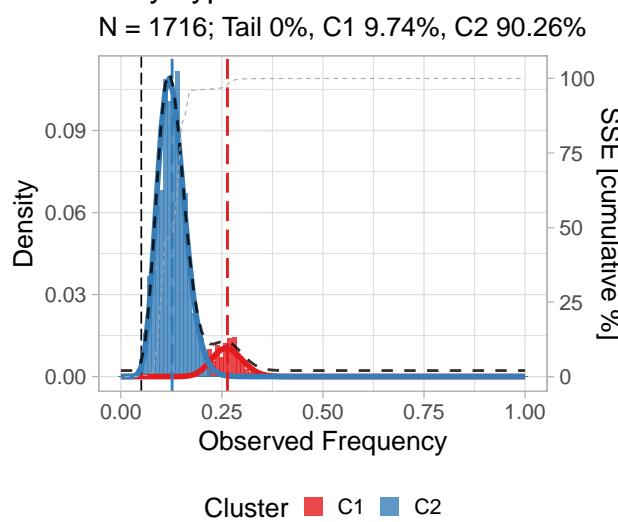
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



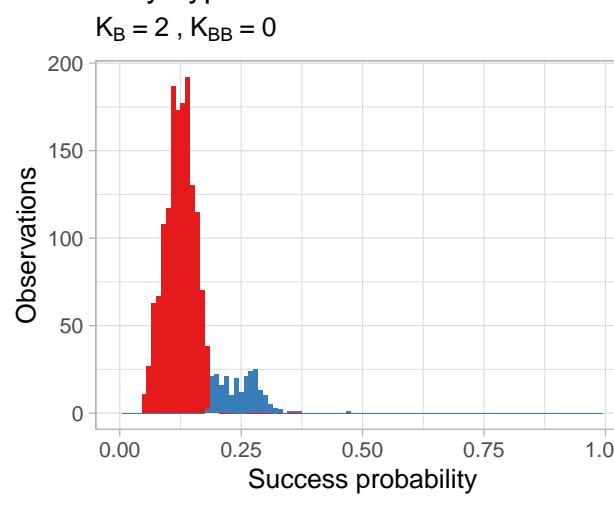
Karyotype: 2:2

N = 1716; Tail 0%, C1 9.74%, C2 90.26%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

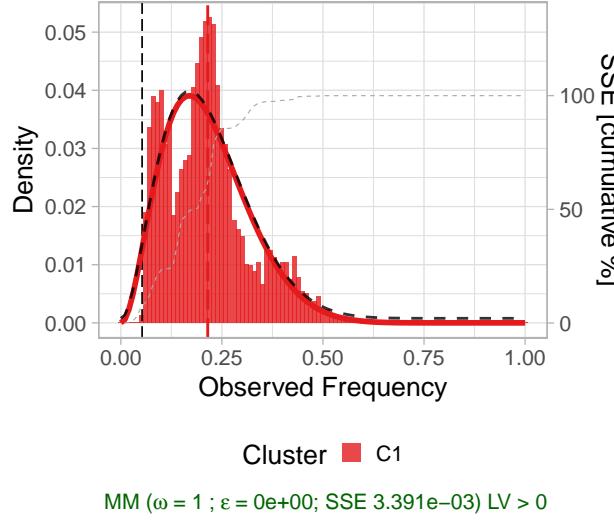


160802_HMFregCPCT_FR03631927_FR12244690_CPCT02140012

ONLY SNVs (min 150 – max 50000)

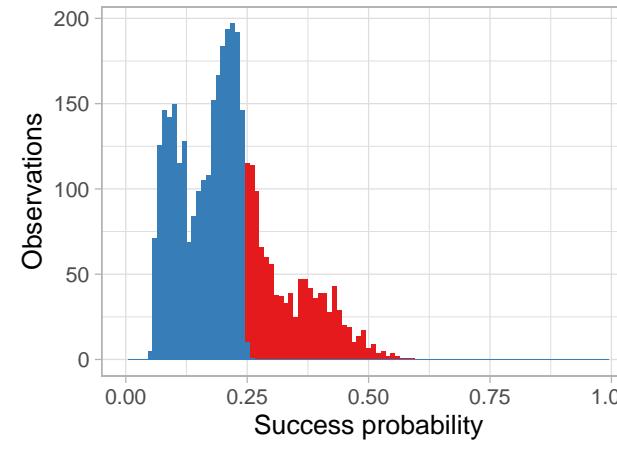
Karyotype: 1:0

N = 3746; Tail 0%, C1 100%



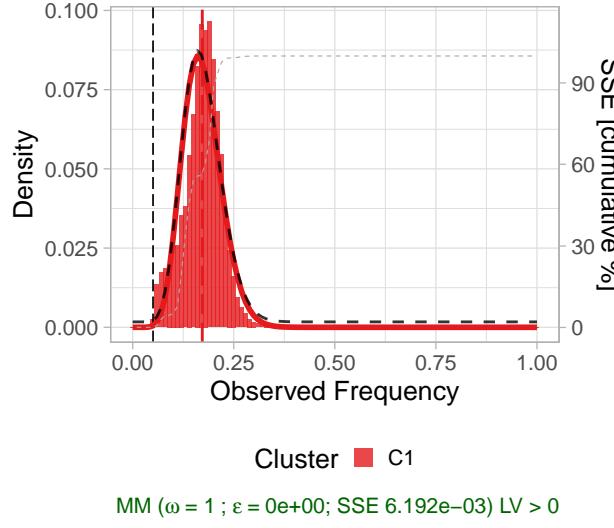
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



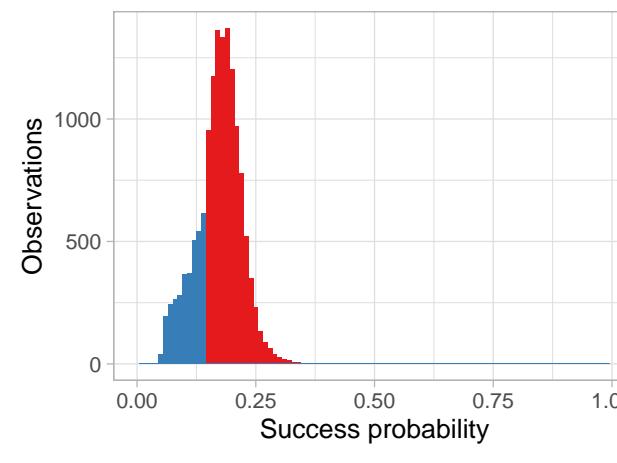
Karyotype: 1:1

N = 14216; Tail 0%, C1 100%



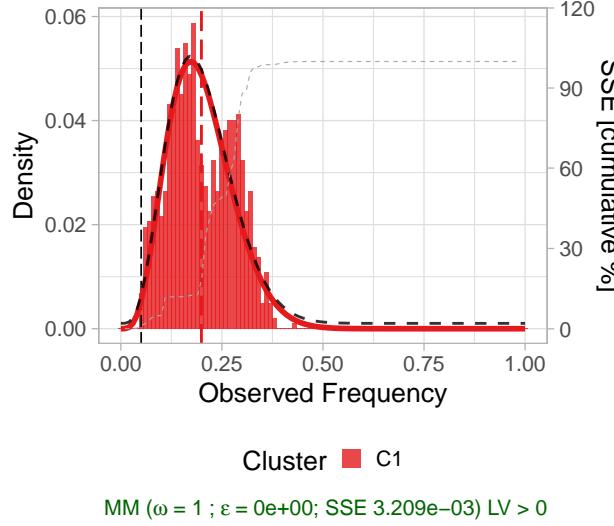
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



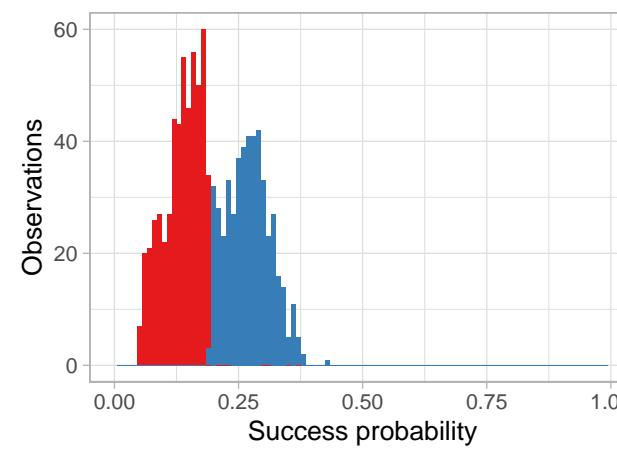
Karyotype: 2:1

N = 1021; Tail 0%, C1 100%



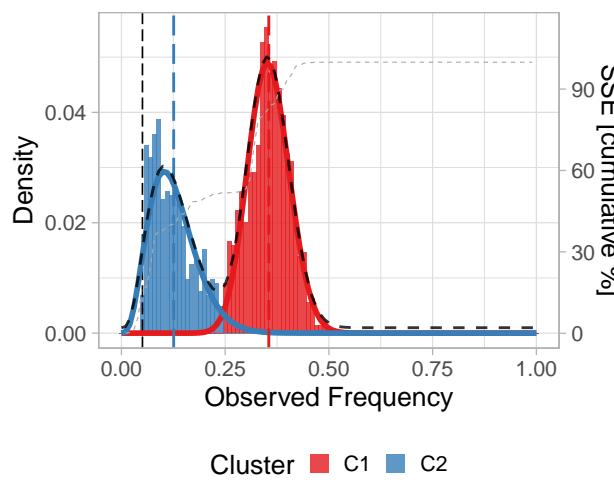
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



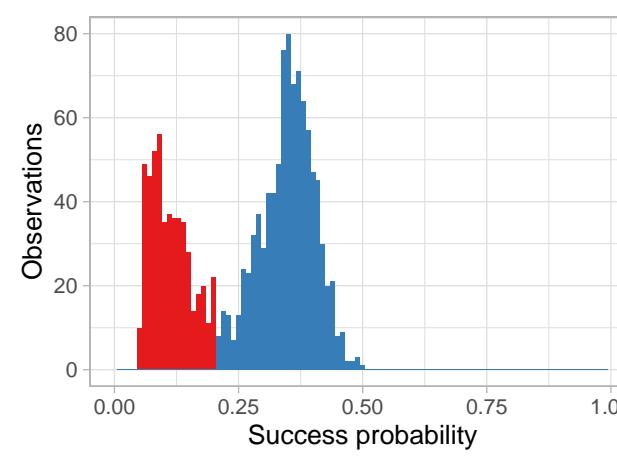
Karyotype: 2:0

N = 1444; Tail 0%, C2 38.88%, C1 61.12%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

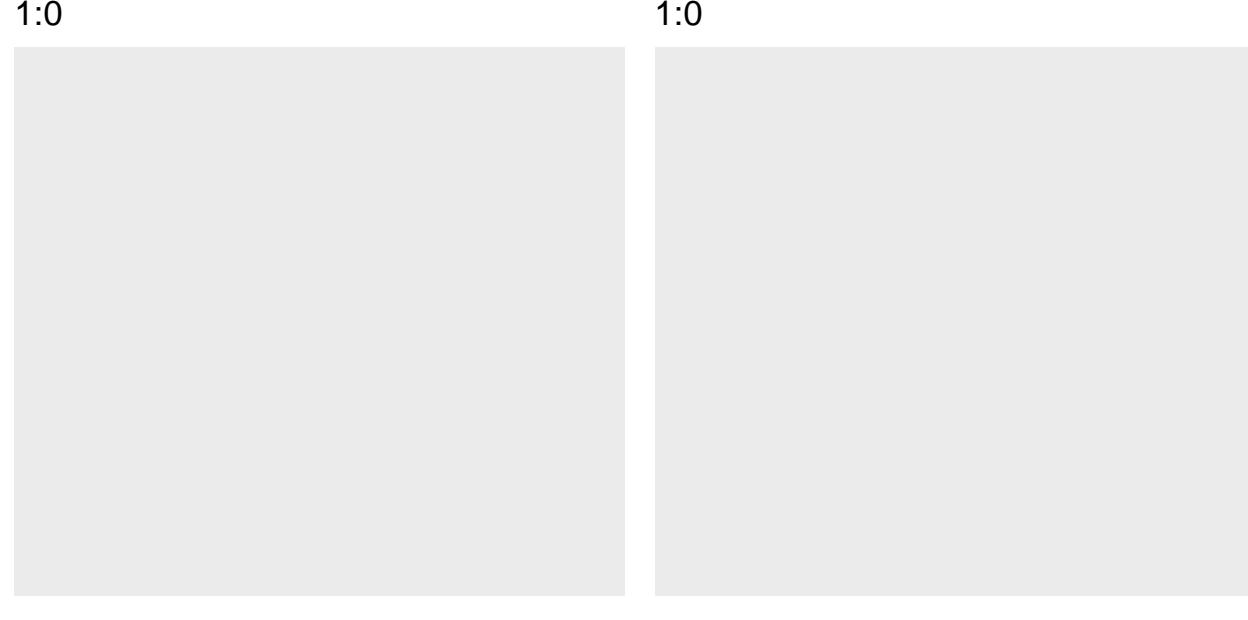


2:2

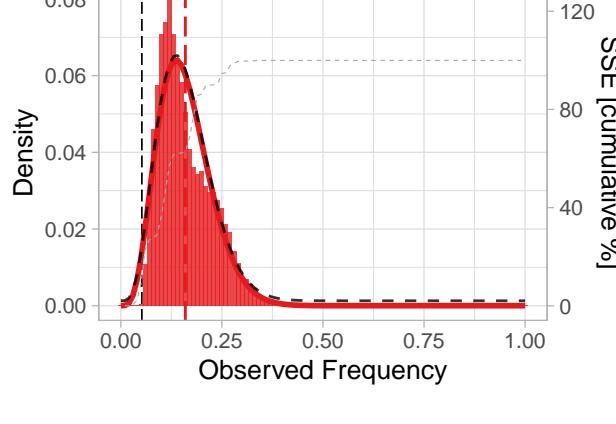
2:2

160802_HMFregCPCT_FR12244664_FR12251615_CPCT02040027

ONLY SNVs (min 150 – max 50000)

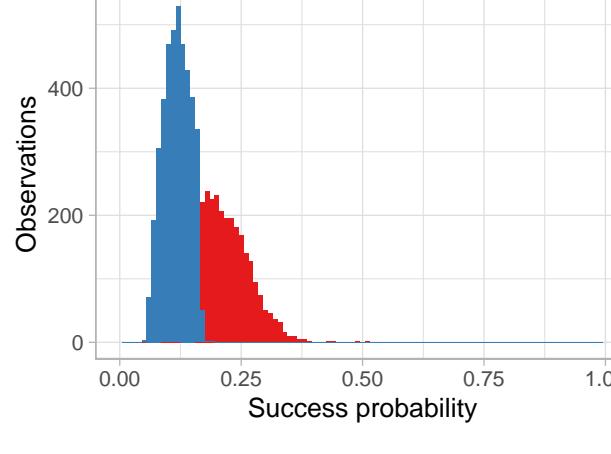


Karyotype: 2:1
N = 6633; Tail 0%, C1 100%

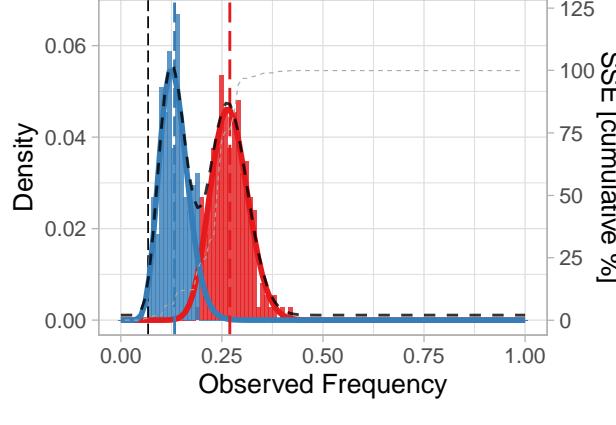


MM ($\omega = 7$; $\epsilon = 8e-03$; SSE 2.319e-03) LV > 0

Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$

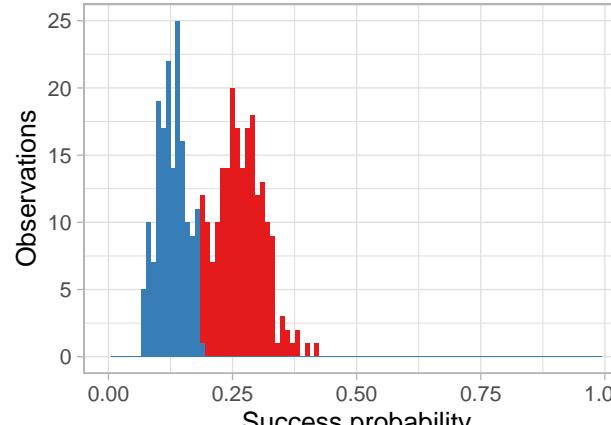


Karyotype: 2:0
N = 374; Tail 0%, C2 47.05%, C1 52.95%

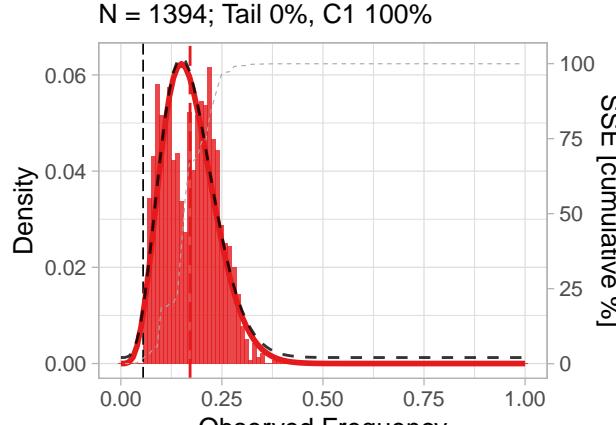


MM ($\omega = 100$; $\epsilon = 9e-04$; SSE 2.259e-03) LV > 0

Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$

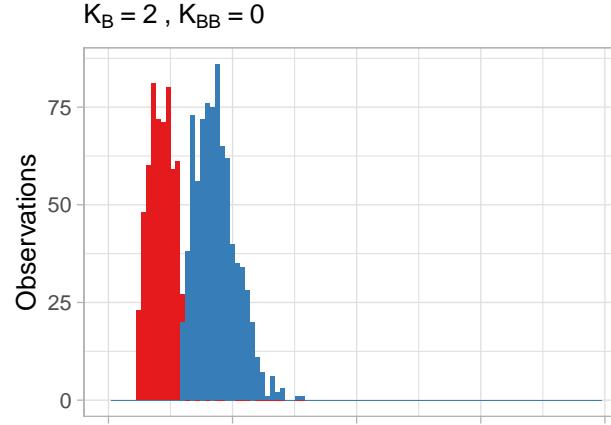


Karyotype: 2:2
N = 1394; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 5.628e-03) LV > 0

Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



160805_HMFregCPCT_FR03631936_FR12251628_CPCT02040031

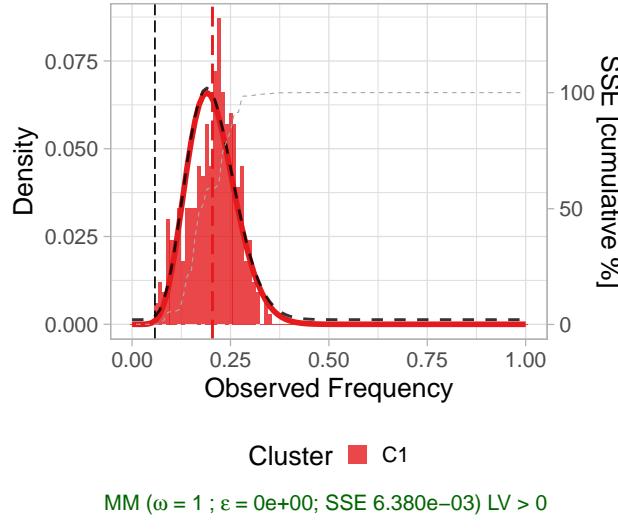
ONLY SNVs (min 150 – max 50000)

1:0

1:0

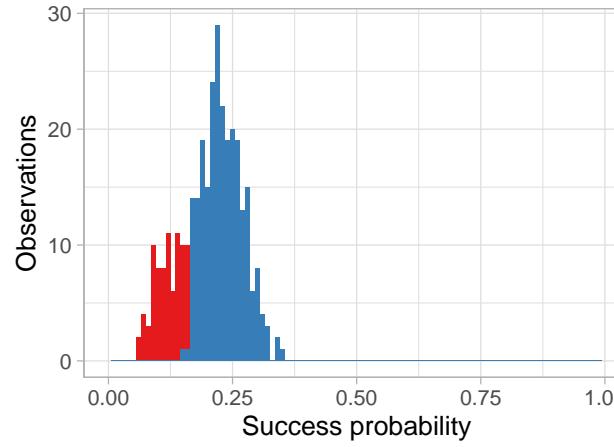
Karyotype: 1:1

N = 333; Tail 0%, C1 100%



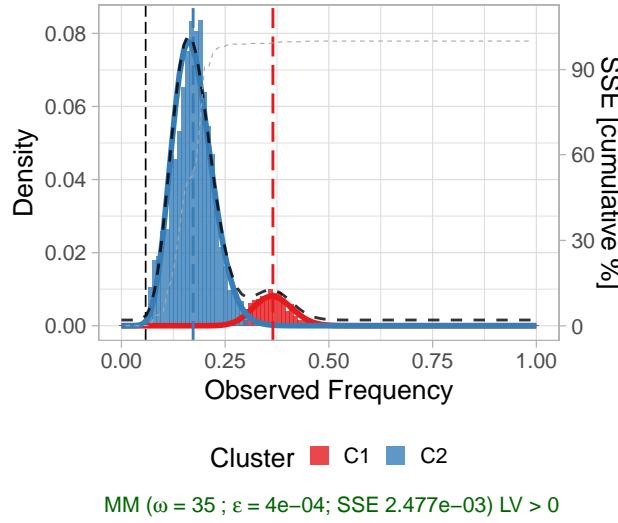
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



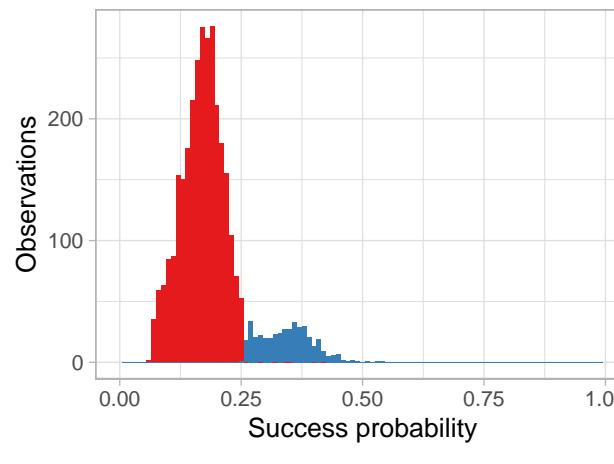
Karyotype: 2:1

N = 3298; Tail 0%, C1 9.33%, C2 90.67%



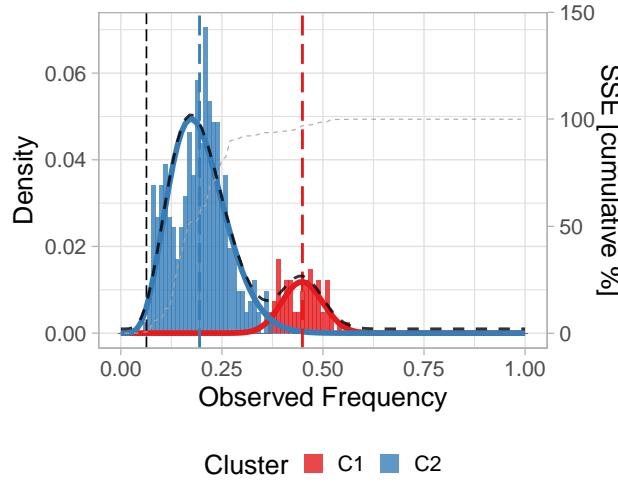
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



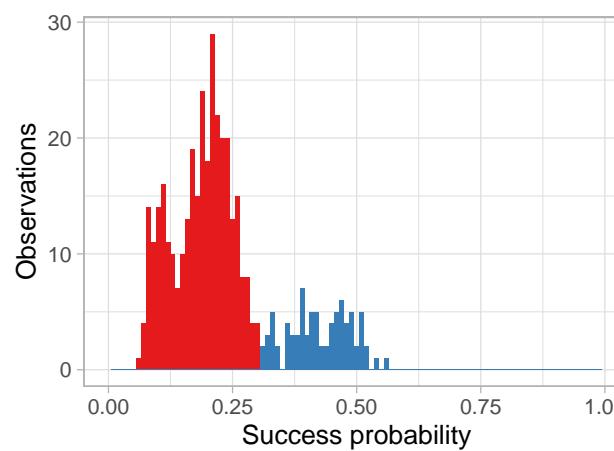
Karyotype: 2:0

N = 411; Tail 0%, C1 14.86%, C2 85.14%



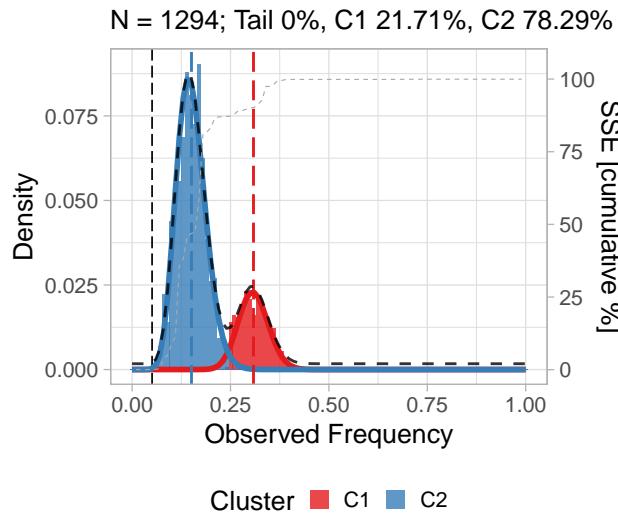
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



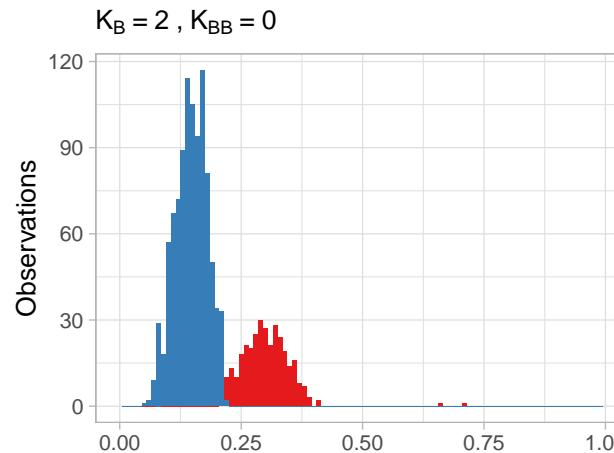
Karyotype: 2:2

N = 1294; Tail 0%, C1 21.71%, C2 78.29%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



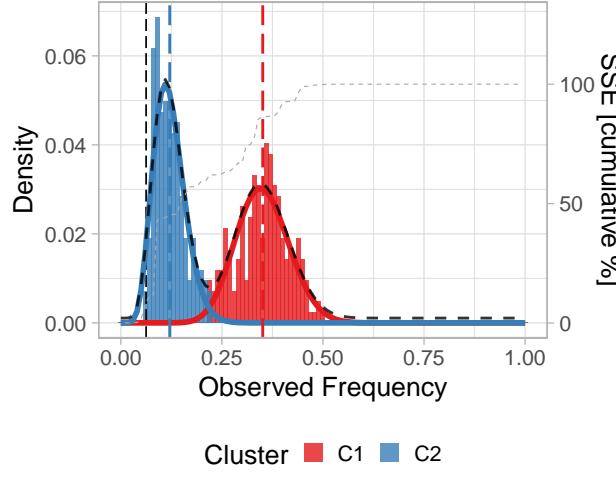
Cluster ■ Bin 1 ■ Bin 2

160805_HMFregCPCT_FR03631937_FR12244697_CPCT02020341

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

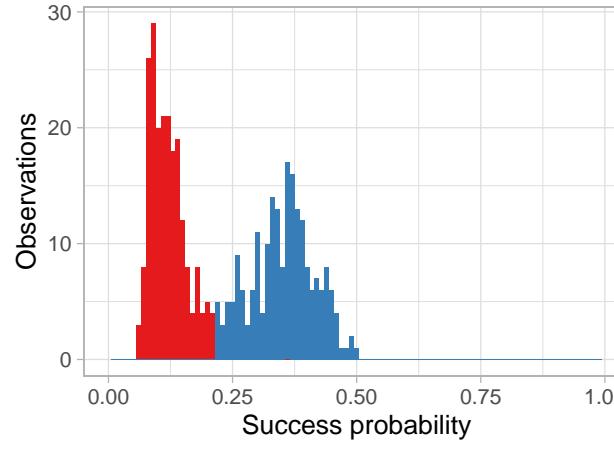
N = 422; Tail 0%, C1 49.62%, C2 50.38%



MM ($\omega = 84$; $\epsilon = 1e-04$; SSE 3.849e-03) LV > 0

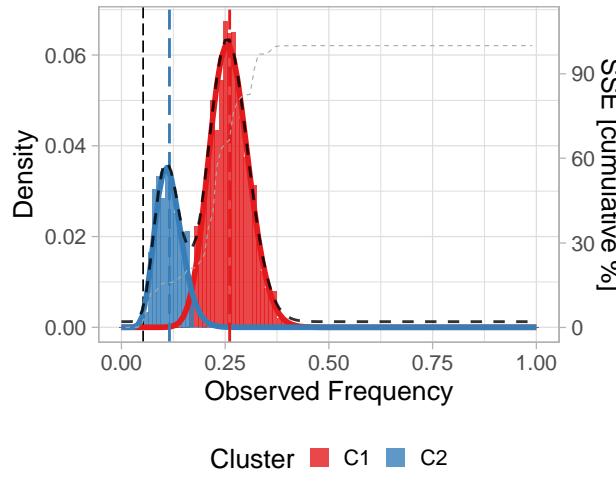
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

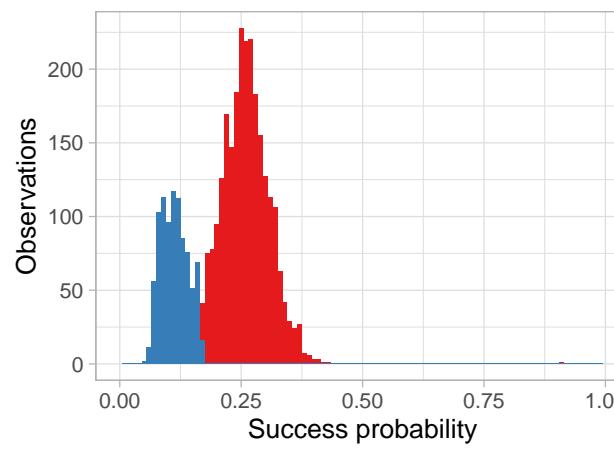
N = 3383; Tail 0%, C2 27.38%, C1 72.62%



MM ($\omega = 100$; $\epsilon = 9e-02$; SSE 4.629e-04) LV > 0

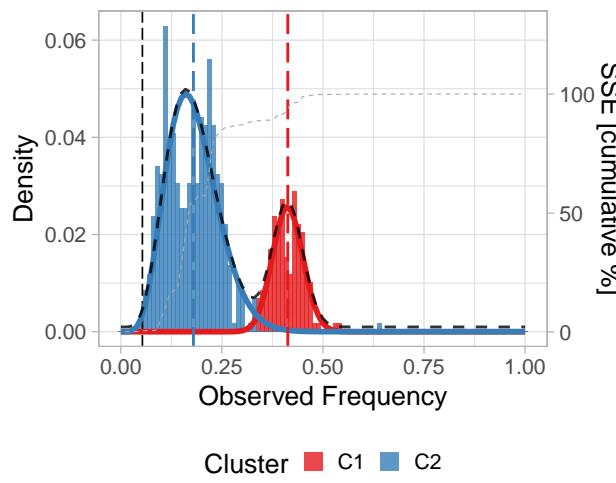
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

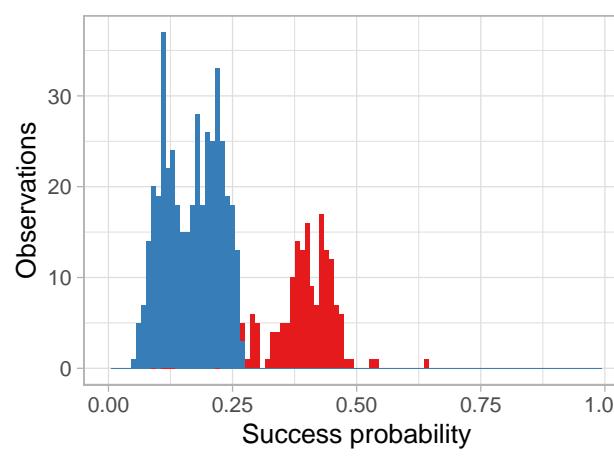
N = 588; Tail 0%, C1 24.06%, C2 75.94%



MM ($\omega = 70$; $\epsilon = 5e-06$; SSE 4.004e-03) LV > 0

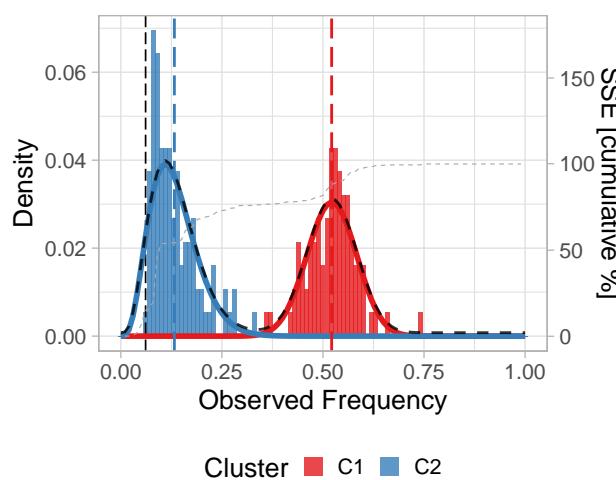
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

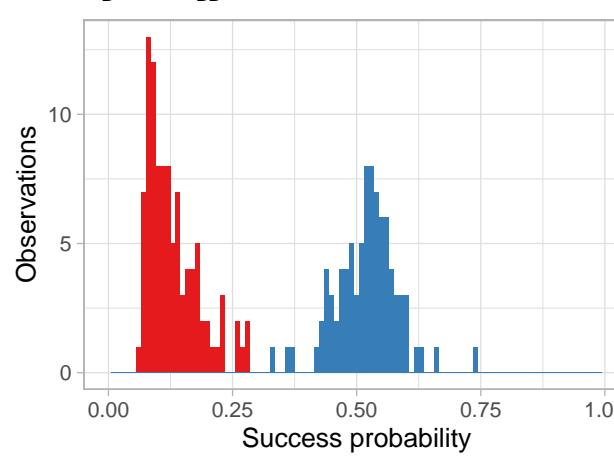
N = 187; Tail 0%, C1 46.51%, C2 53.49%



MM ($\omega = 26$; $\epsilon = 2e-04$; SSE 5.591e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



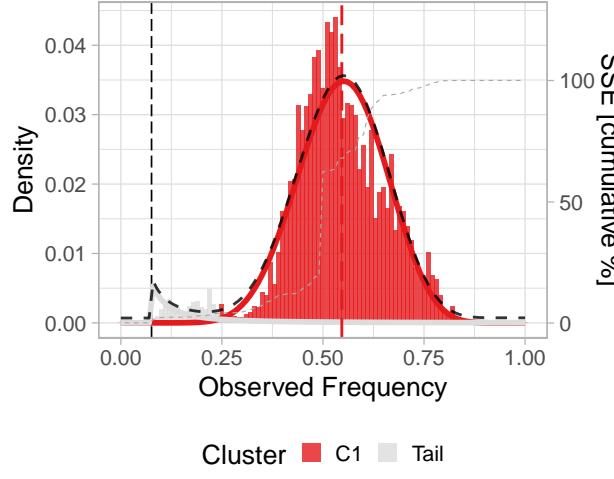
2:2

160805_HMFregCPCT_FR03631940_FR12244699_CPCT02010373

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

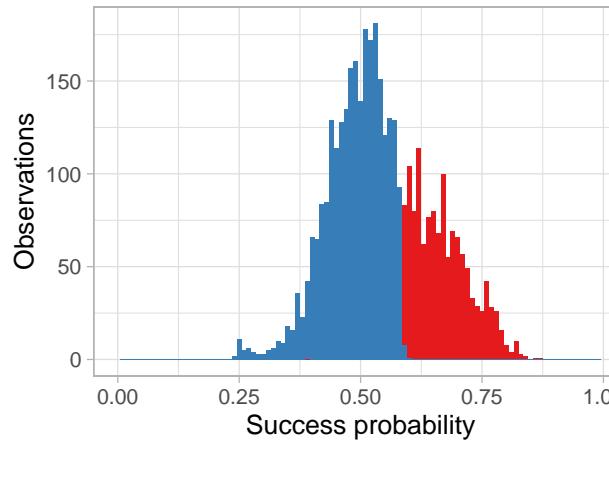
N = 4108; Tail 4.25%, C1 95.75%



MM ($\omega = 15$; $\epsilon = 1e-04$; SSE 1.942e-03) LV > 0

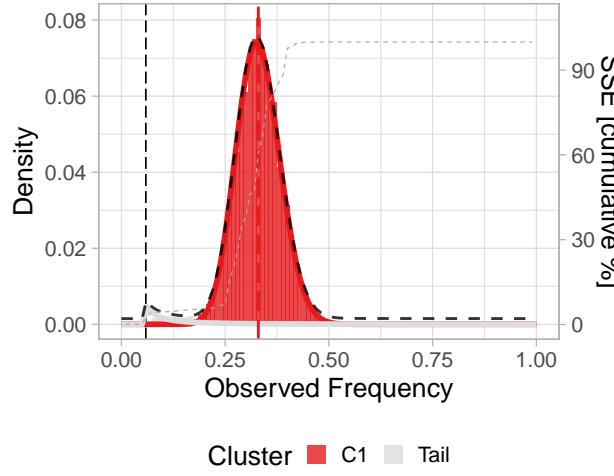
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

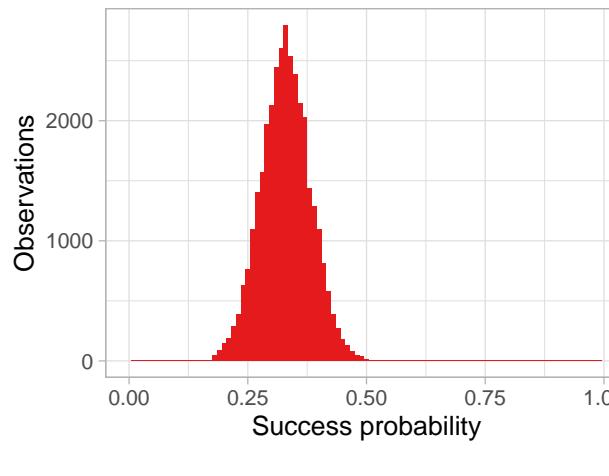
N = 34785; Tail 2.76%, C1 97.24%



MM ($\omega = 16$; $\epsilon = 7e-04$; SSE 7.508e-04) LV > 0

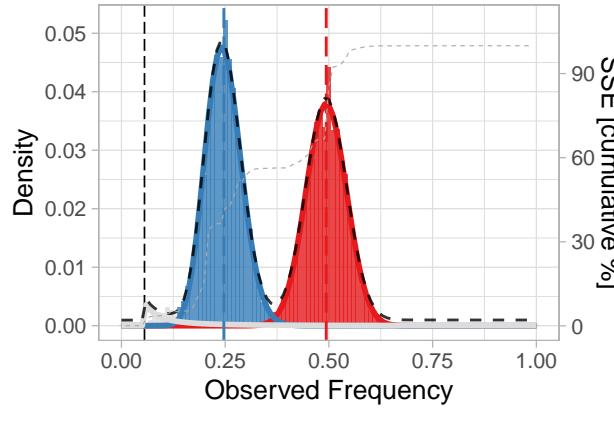
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

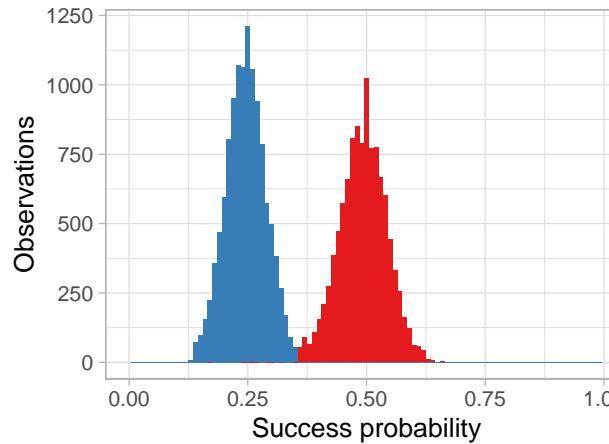
N = 23164; Tail 2.4%, C1 46.24%, C2 51.37%



MM ($\omega = 33$; $\epsilon = 9e-04$; SSE 4.660e-04) LV > 0

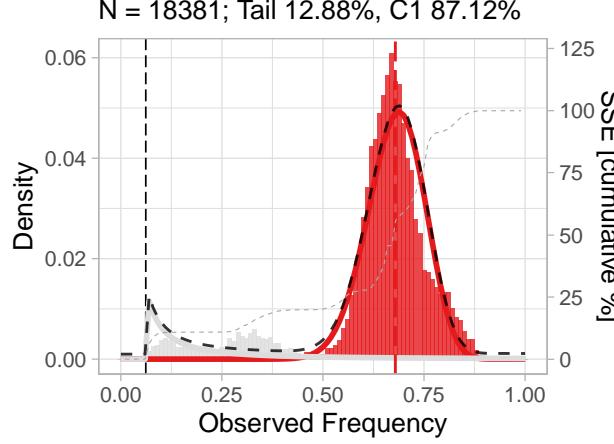
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

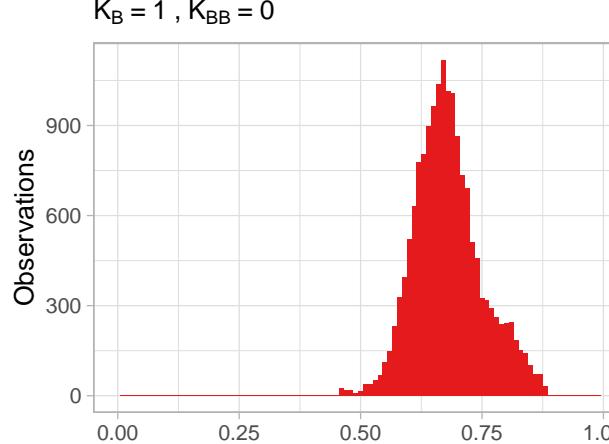
N = 18381; Tail 12.88%, C1 87.12%



MM ($\omega = 16$; $\epsilon = 6e-03$; SSE 1.878e-03) LV > 0

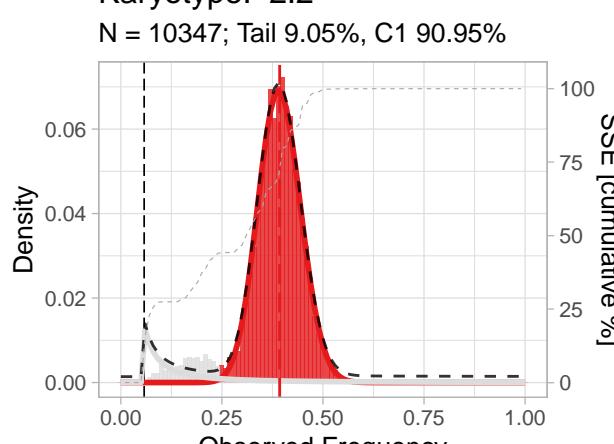
Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:2

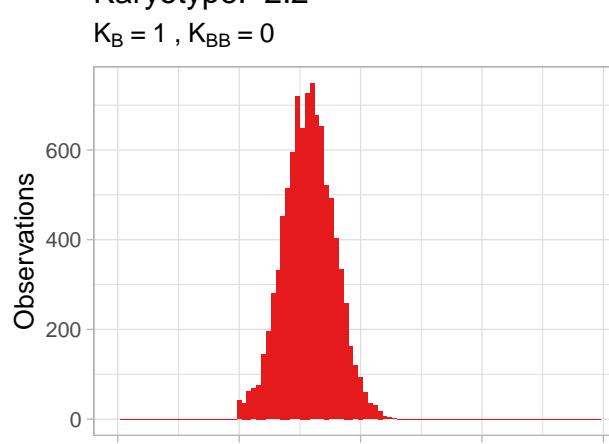
N = 10347; Tail 9.05%, C1 90.95%



MM ($\omega = 13$; $\epsilon = 2e-04$; SSE 9.898e-04) LV > 0

Karyotype: 2:2

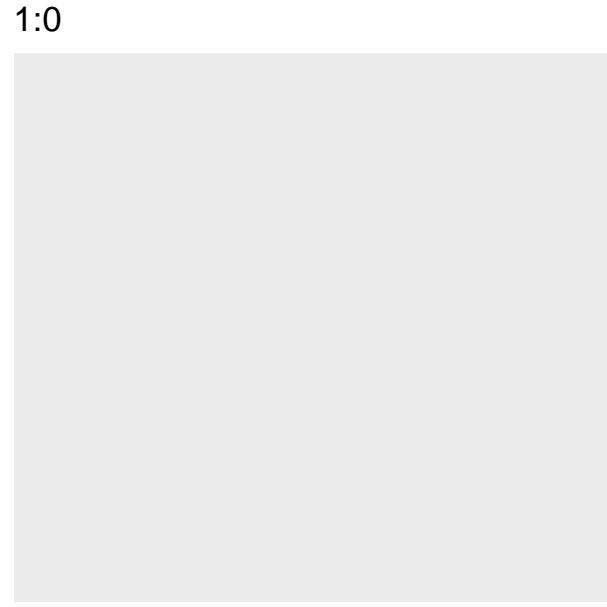
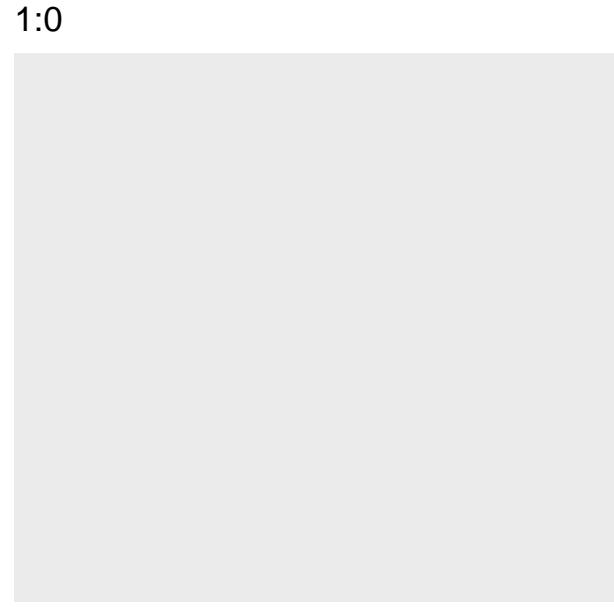
$K_B = 1$, $K_{BB} = 0$



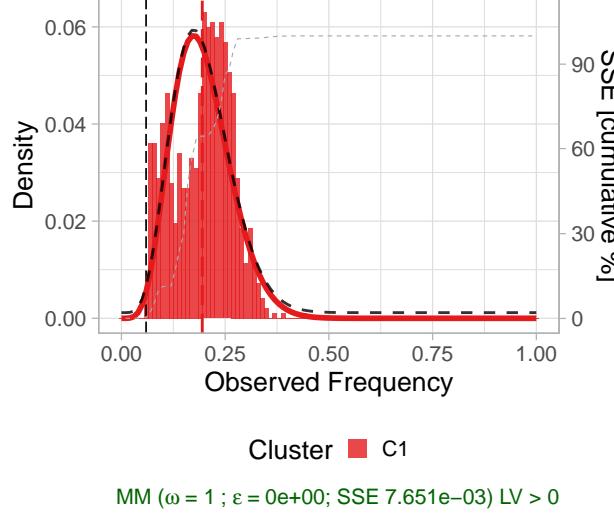
MM ($\omega = 13$; $\epsilon = 2e-04$; SSE 9.898e-04) LV > 0

160805_HMFregCPCT_FR10302554_FR12244693_CPCT02080025

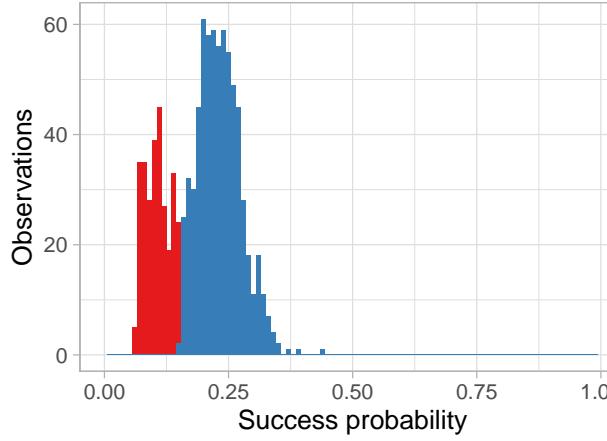
ONLY SNVs (min 150 – max 50000)



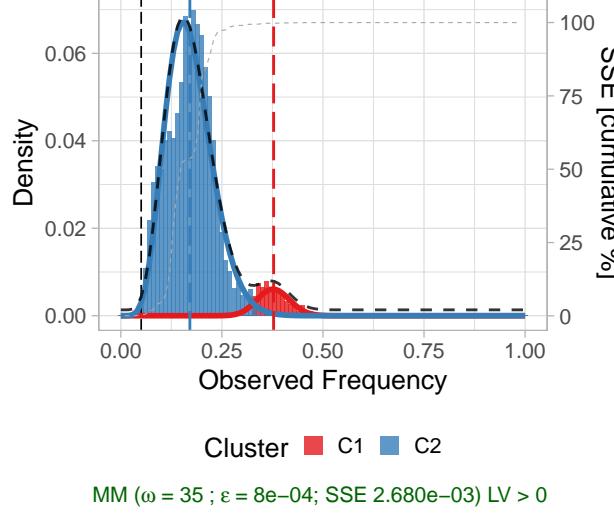
Karyotype: 1:1
N = 969; Tail 0%, C1 100%



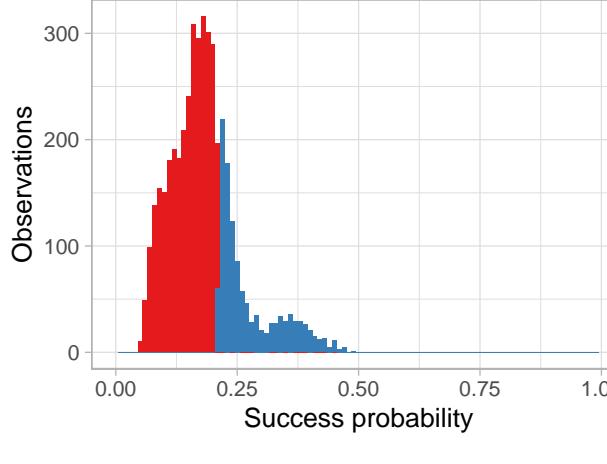
Karyotype: 1:1
 $K_B = 2$, $K_{BB} = 0$



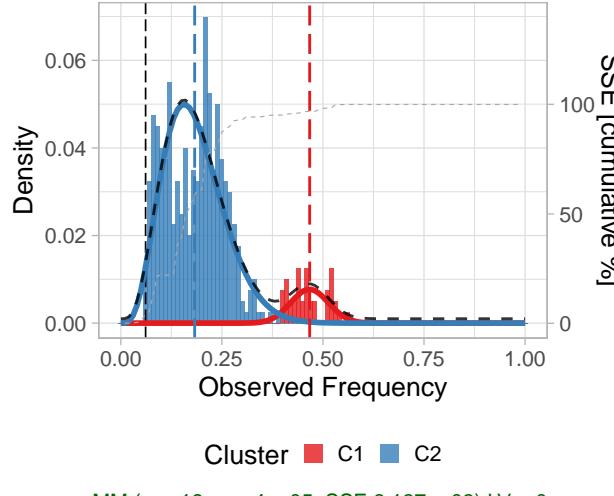
Karyotype: 2:1
N = 4519; Tail 0%, C1 6.04%, C2 93.96%



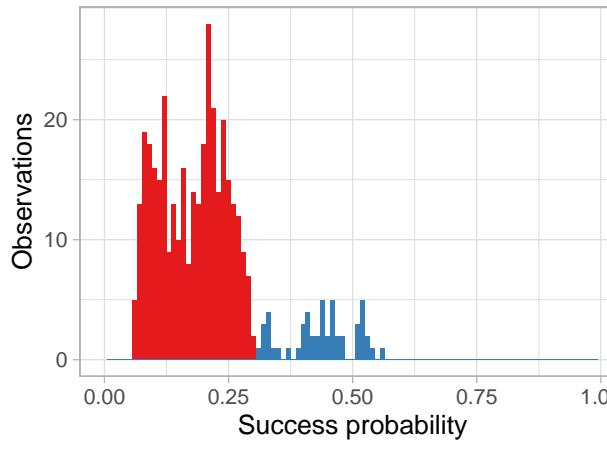
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



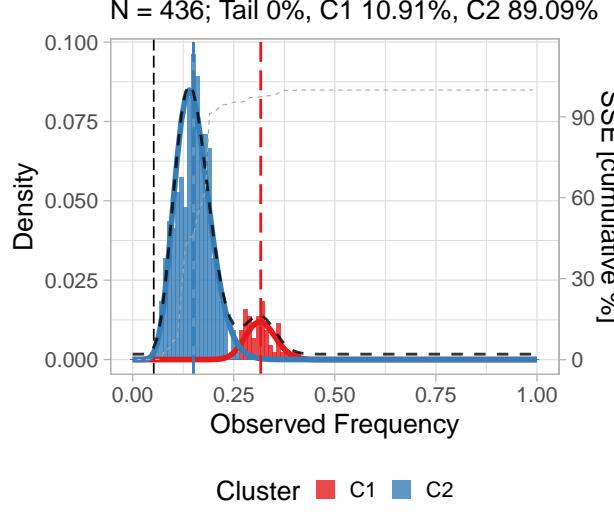
Karyotype: 2:0
N = 401; Tail 0%, C1 8.98%, C2 91.02%



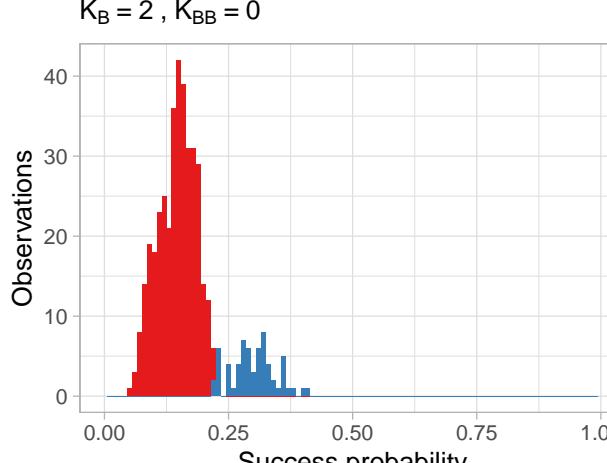
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 436; Tail 0%, C1 10.91%, C2 89.09%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

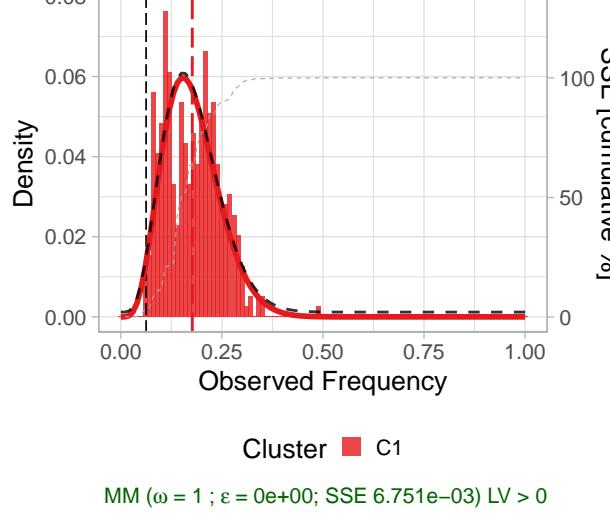


160805_HMFregCPCT_FR10302556_FR12244695_CPCT02080022

ONLY SNVs (min 150 – max 50000)

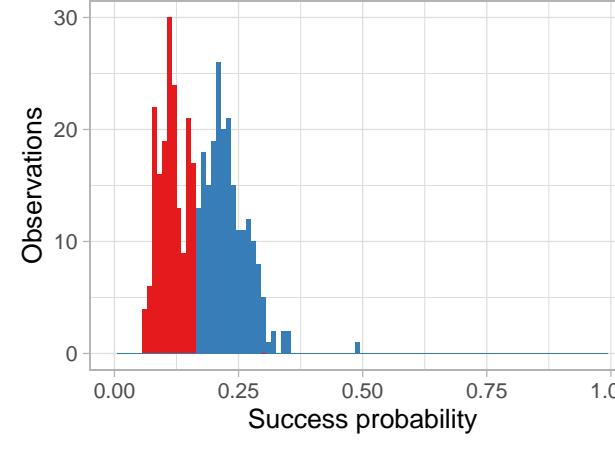
Karyotype: 1:0

N = 393; Tail 0%, C1 100%



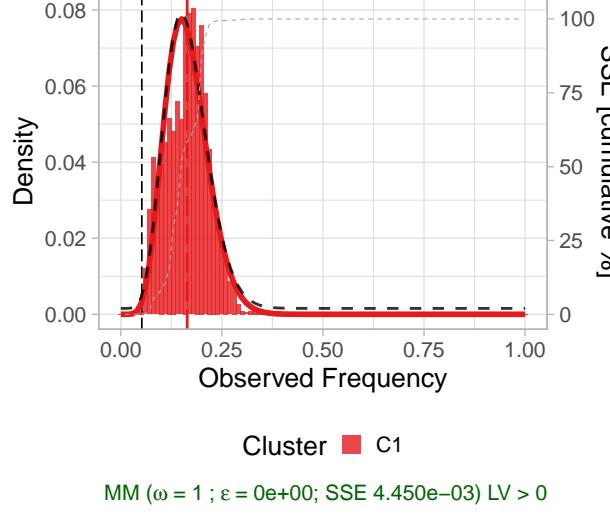
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



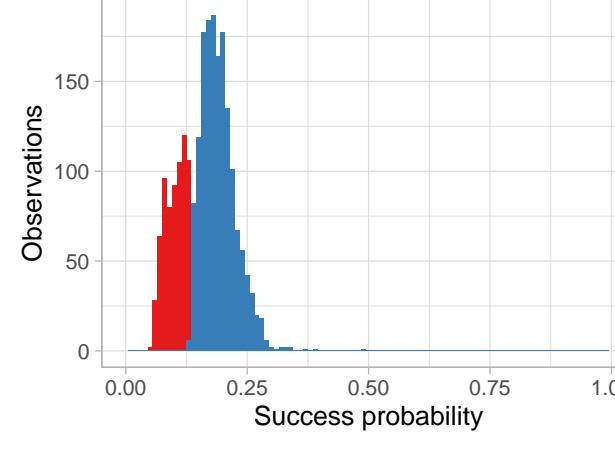
Karyotype: 1:1

N = 2326; Tail 0%, C1 100%



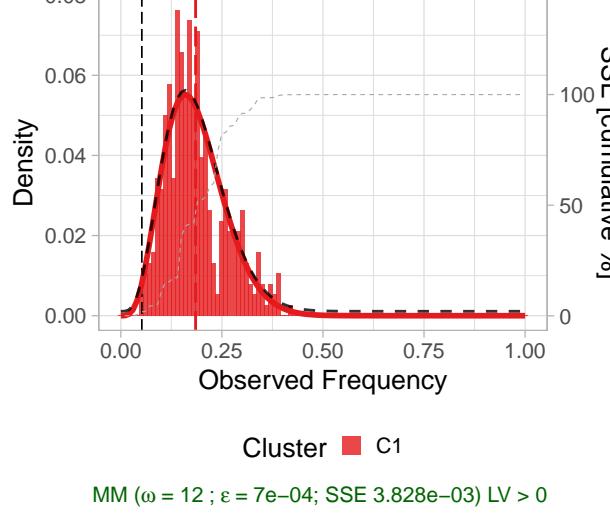
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



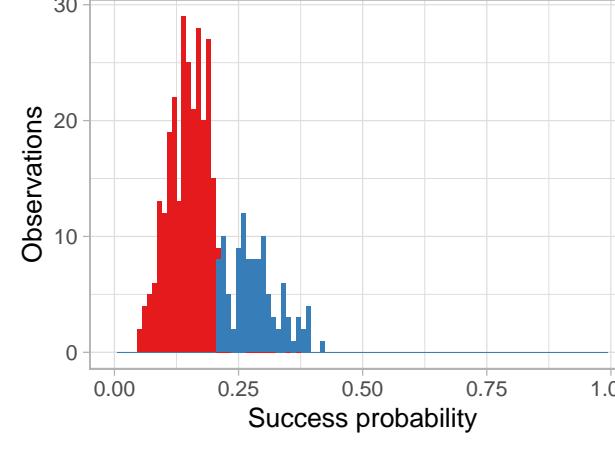
Karyotype: 2:1

N = 380; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

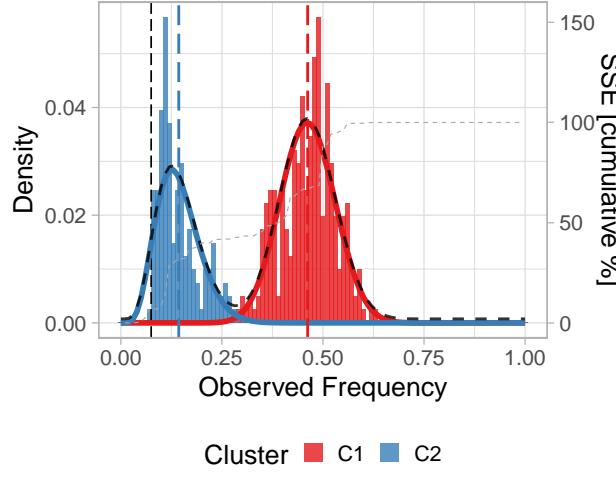
2:2

160805_HMFregCPCT_FR10302560_FR12244696_CPCT02080024

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

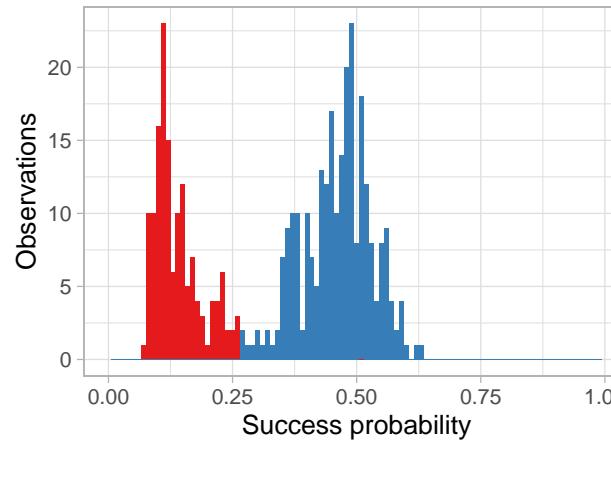
N = 405; Tail 0%, C2 36.5%, C1 63.5%



MM ($\omega = 36$; $\epsilon = 3e-04$; SSE 3.696e-03) LV > 0

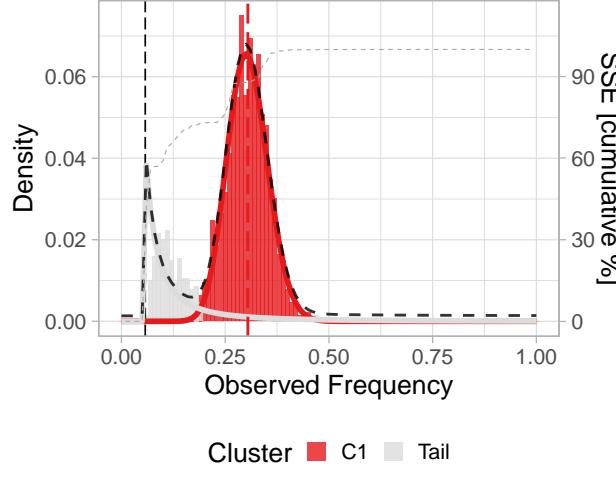
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

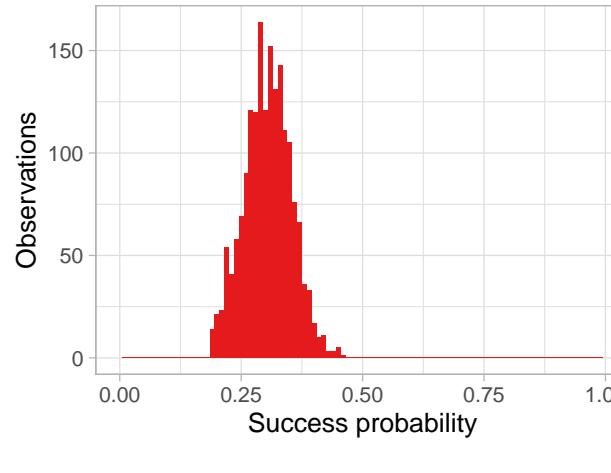
N = 2186; Tail 20.1%, C1 79.9%



MM ($\omega = 20$; $\epsilon = 1e-04$; SSE 3.400e-03) LV > 0

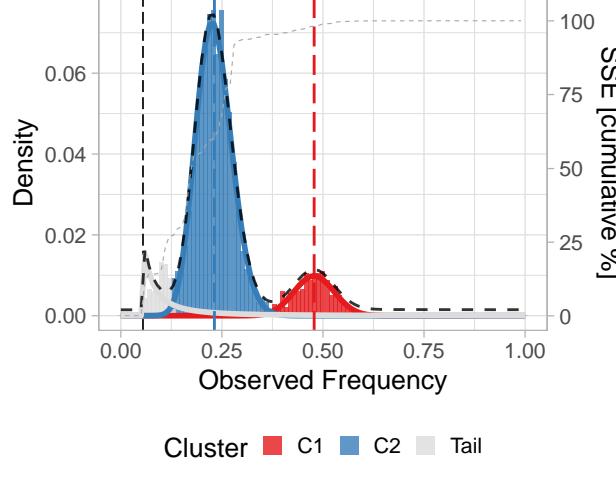
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

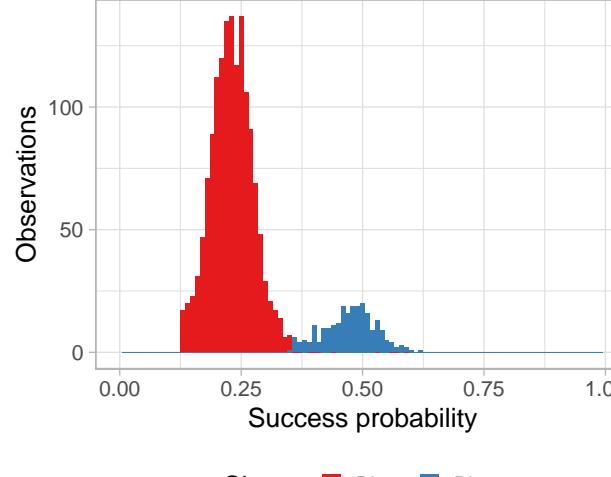
N = 1811; Tail 8.11%, C1 12.15%, C2 79.74%



MM ($\omega = 33$; $\epsilon = 7e-05$; SSE 1.267e-03) LV > 0

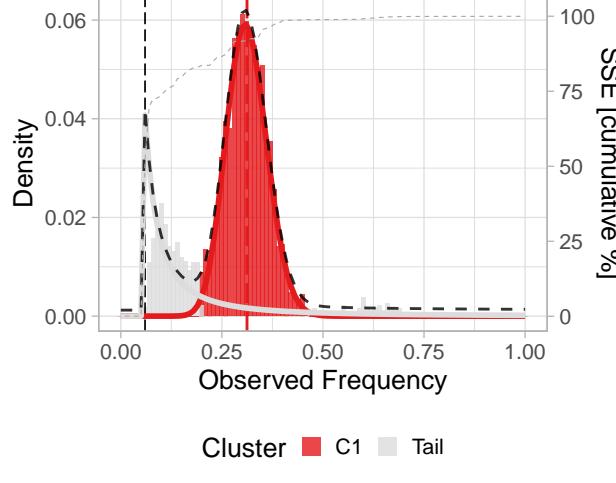
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

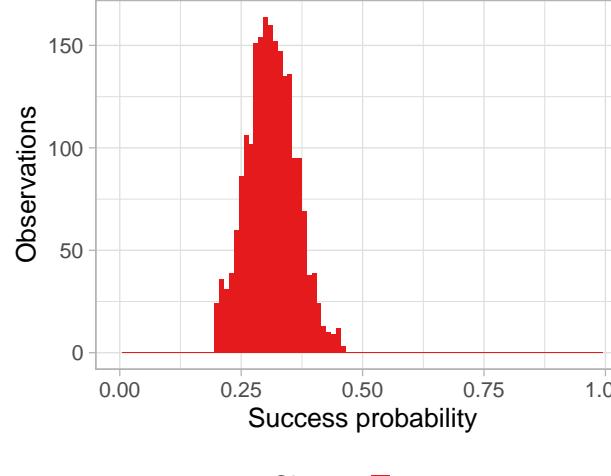
N = 2681; Tail 25.82%, C1 74.18%



MM ($\omega = 21$; $\epsilon = 6e-05$; SSE 3.127e-03) LV > 0

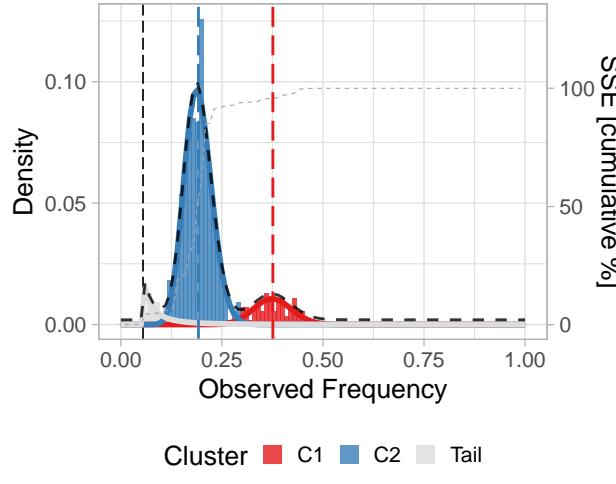
Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:2

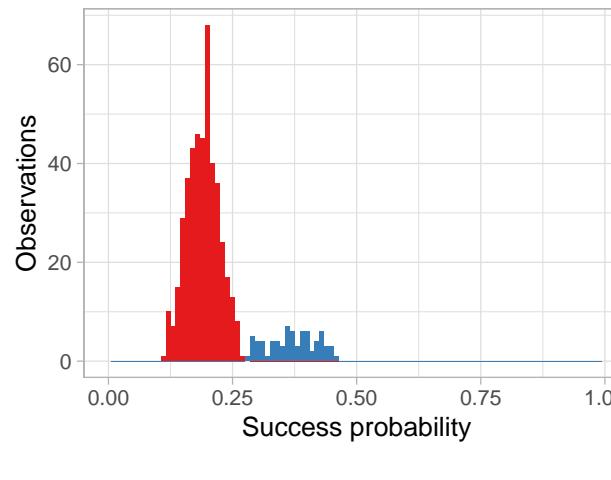
N = 540; Tail 6.15%, C1 12.4%, C2 81.45%



MM ($\omega = 48$; $\epsilon = 8e-06$; SSE 3.091e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

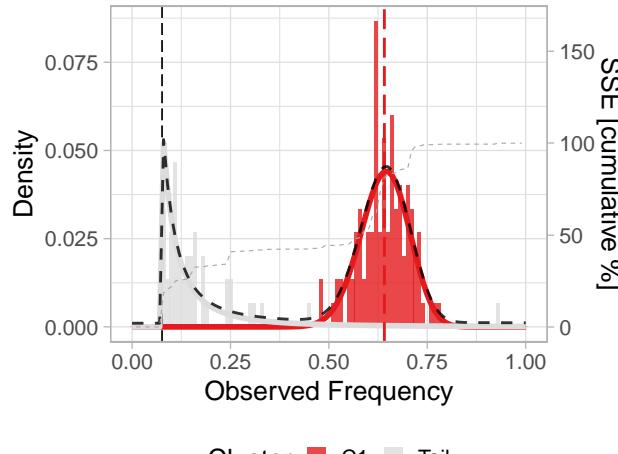


160808_HMFregCPCT_FR03631795_FR12251564_CPCT02100013

ONLY SNVs (min 150 – max 50000)

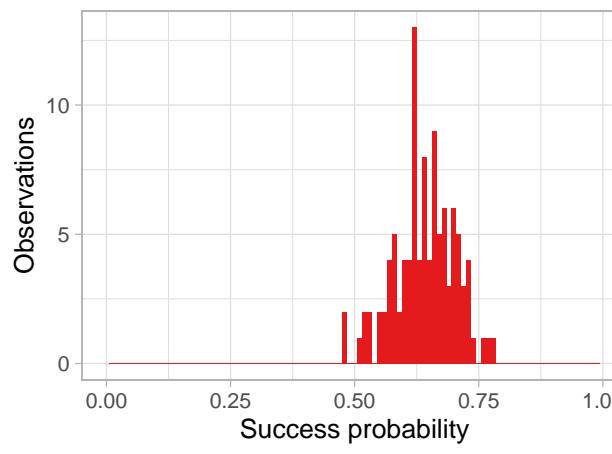
Karyotype: 1:0

N = 150; Tail 31.81%, C1 68.19%



Karyotype: 1:0

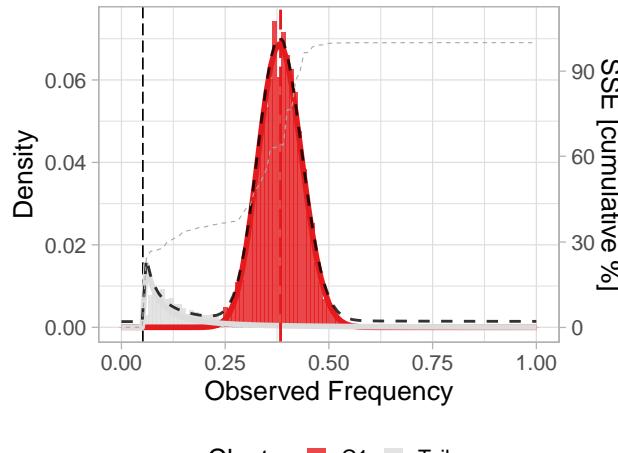
$K_B = 1, K_{BB} = 0$



MM ($\omega = 12$; $\epsilon = 4e-06$; SSE $8.075e-03$) LV > 0

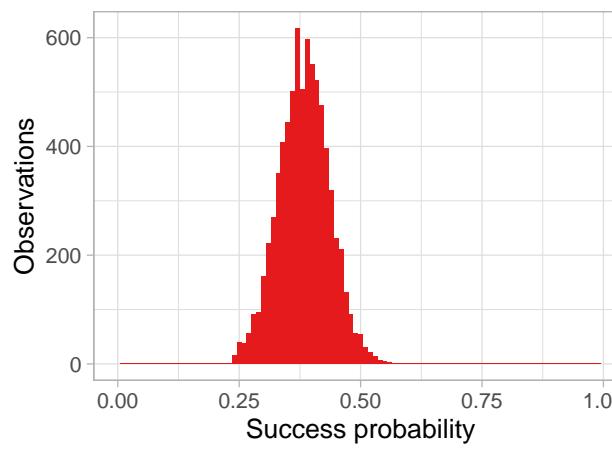
Karyotype: 1:1

N = 8331; Tail 10.73%, C1 89.27%



Karyotype: 1:1

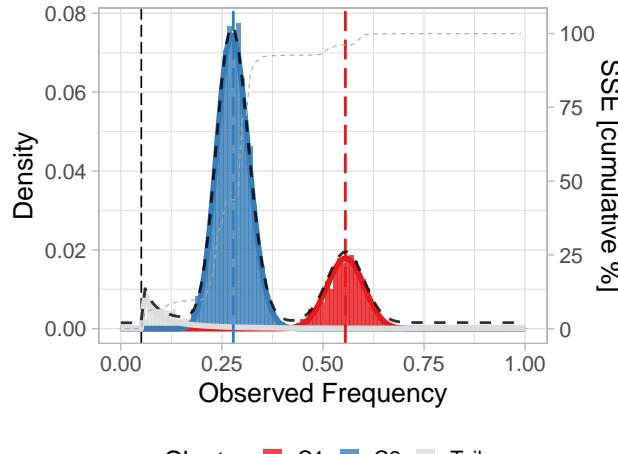
$K_B = 1, K_{BB} = 0$



MM ($\omega = 11$; $\epsilon = 3e-04$; SSE $8.804e-04$) LV > 0

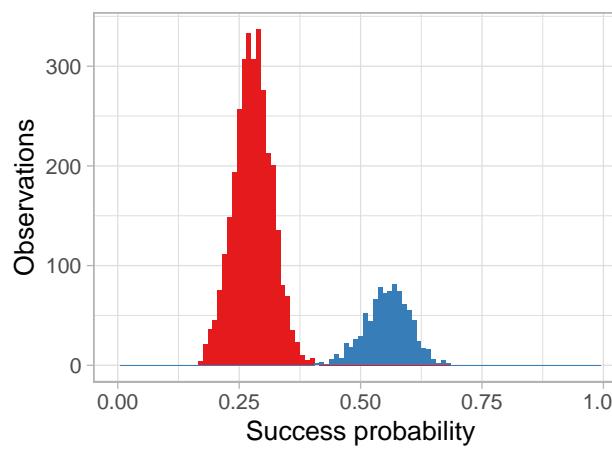
Karyotype: 2:1

N = 4345; Tail 6.16%, C1 20.33%, C2 73.52%



Karyotype: 2:1

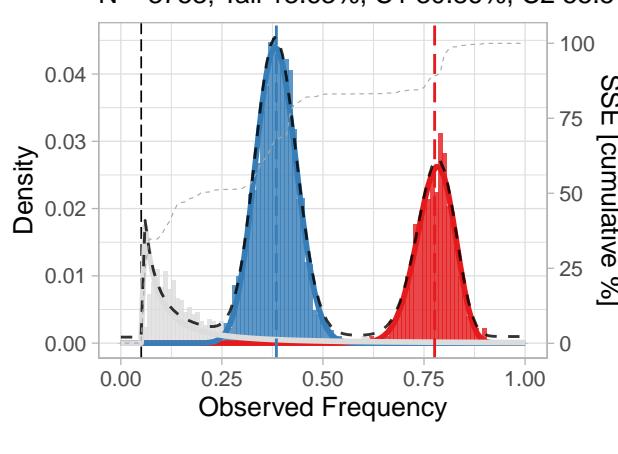
$K_B = 2, K_{BB} = 0$



MM ($\omega = 19$; $\epsilon = 8e-05$; SSE $1.034e-03$) LV > 0

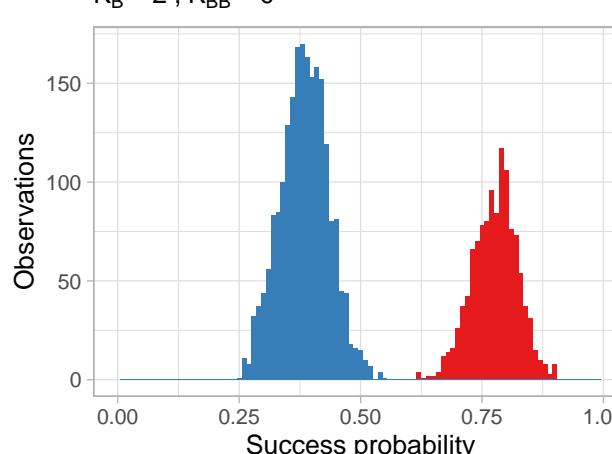
Karyotype: 2:0

N = 3753; Tail 13.63%, C1 30.86%, C2 55.5%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



MM ($\omega = 32$; $\epsilon = 7e-05$; SSE $1.005e-03$) LV > 0

Cluster ■ C1 ■ C2 ■ Tail

Cluster ■ Bin 1 ■ Bin 2

2:2

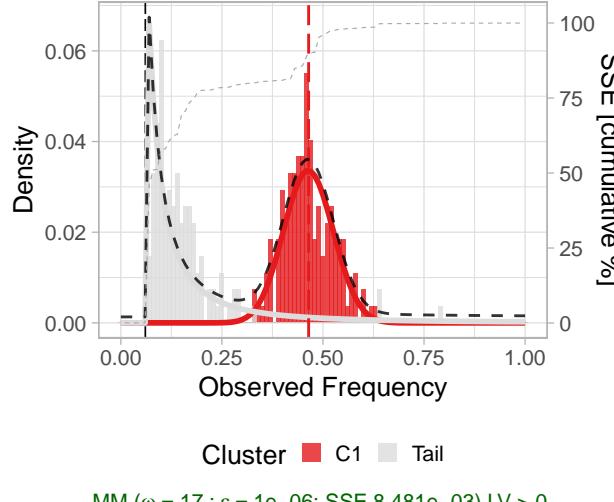
2:2

160808_HMFregCPCT_FR03631929_FR12251528_CPCT02100017

ONLY SNVs (min 150 – max 50000)

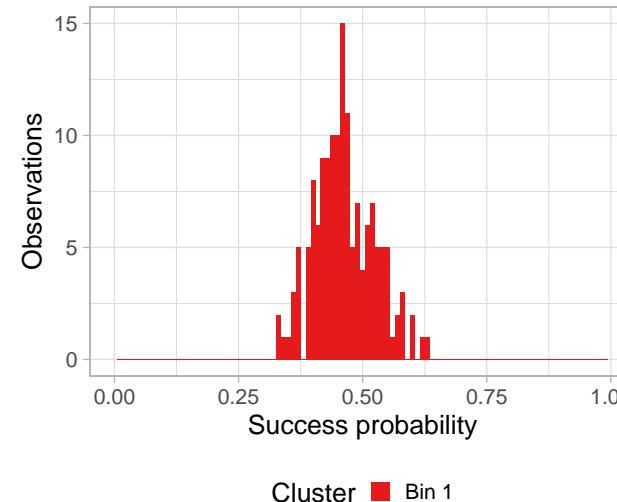
Karyotype: 1:0

N = 273; Tail 48.64%, C1 51.36%



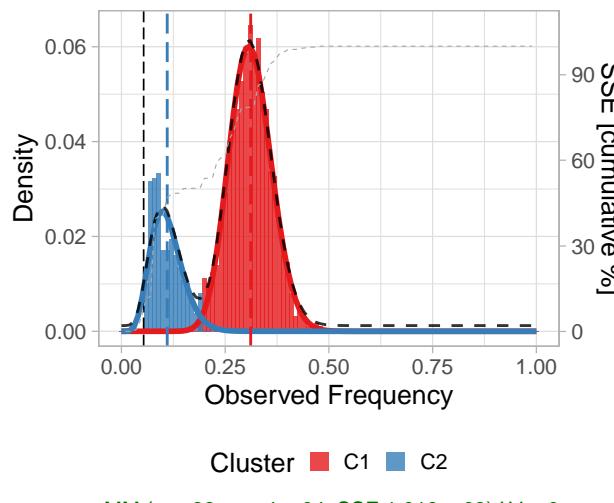
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



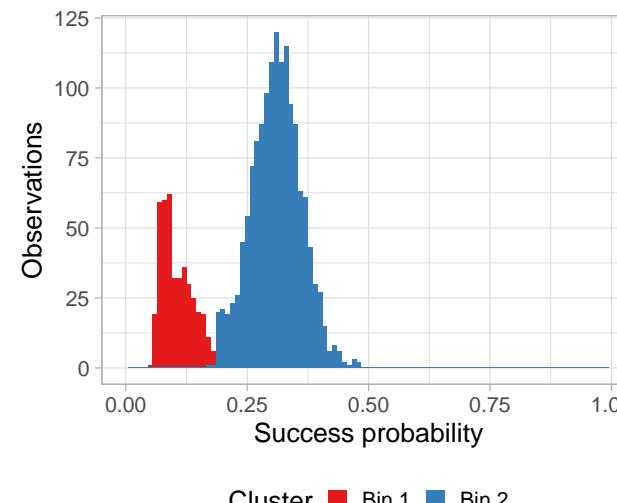
Karyotype: 1:1

N = 1861; Tail 0%, C2 23.46%, C1 76.54%



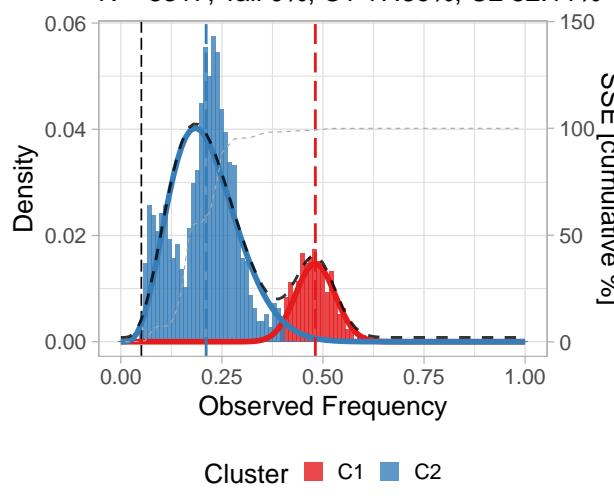
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



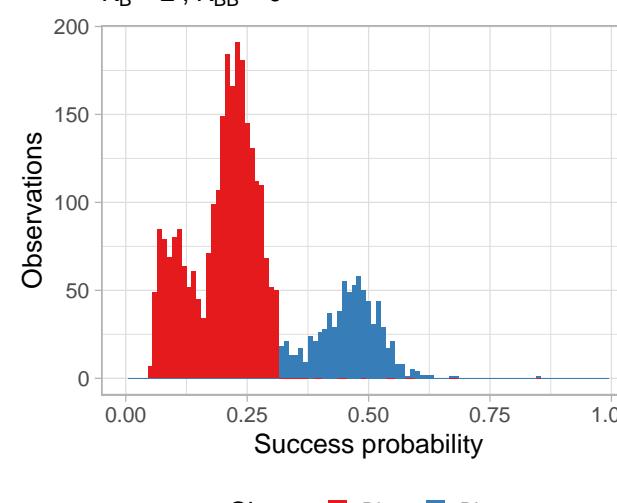
Karyotype: 2:1

N = 3317; Tail 0%, C1 17.89%, C2 82.11%



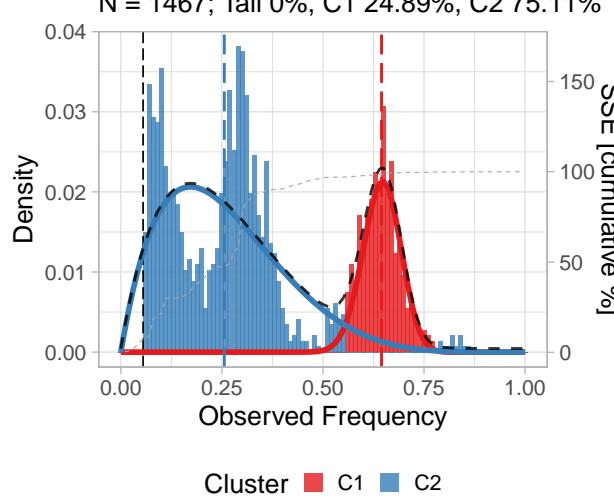
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



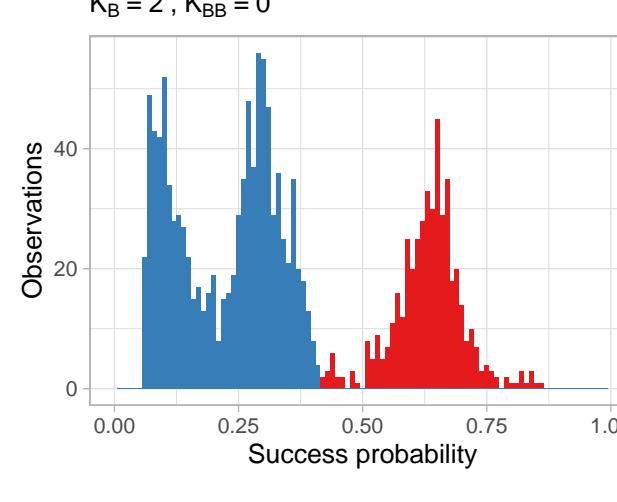
Karyotype: 2:0

N = 1467; Tail 0%, C1 24.89%, C2 75.11%



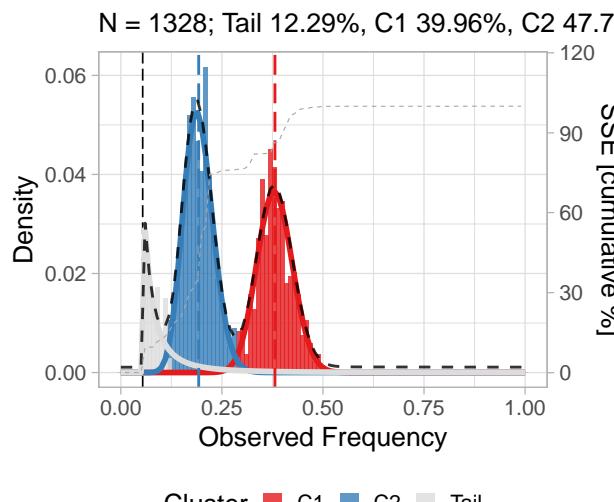
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



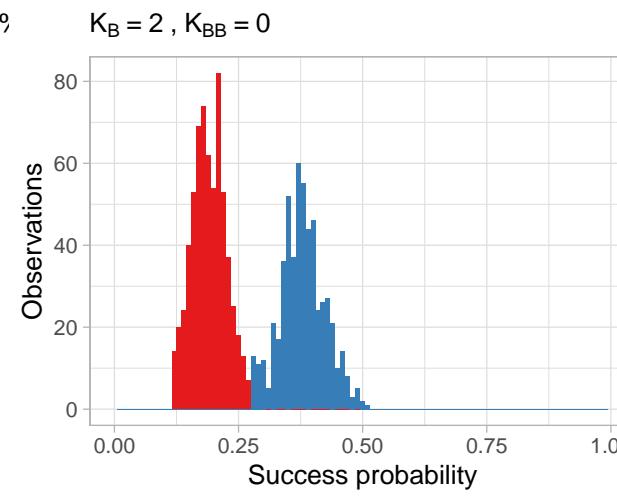
Karyotype: 2:2

N = 1328; Tail 12.29%, C1 39.96%, C2 47.75%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

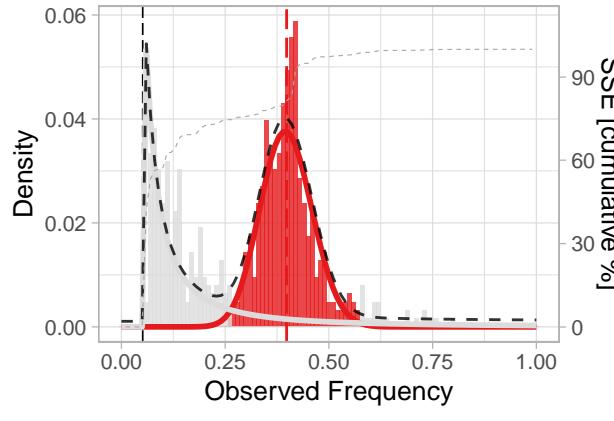


160808_HMFregCPCT_FR03631933_FR12251627_CPCT02020340

ONLY SNVs (min 150 – max 50000)

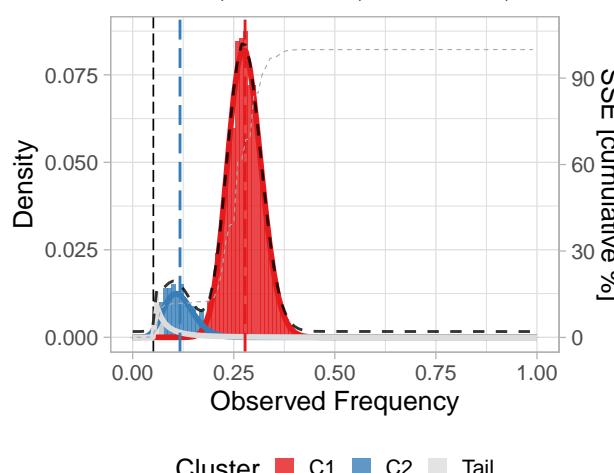
Karyotype: 1:0

N = 629; Tail 41.34%, C1 58.66%



Karyotype: 1:1

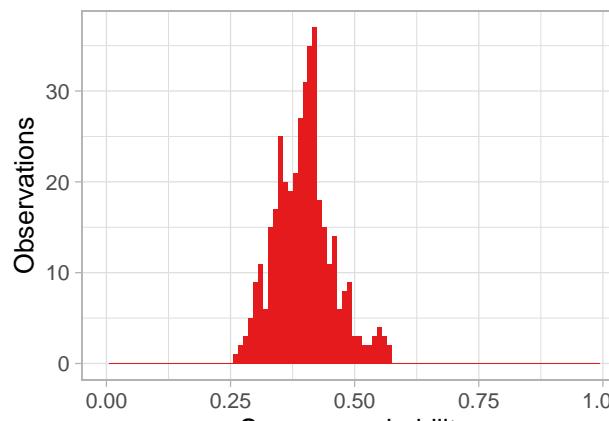
N = 4852; Tail 3.93%, C2 11.13%, C1 84.94%



MM ($\omega = 47$; $\epsilon = 2e-06$; SSE 5.963e-03) LV > 0

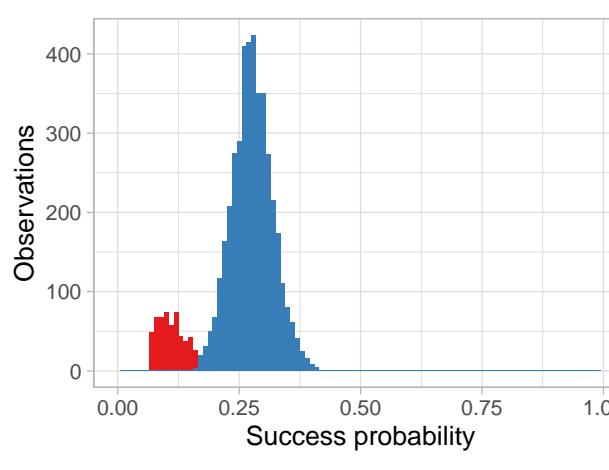
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



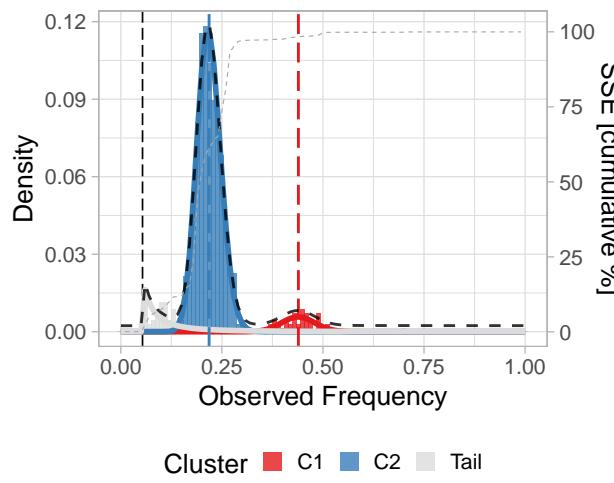
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:1

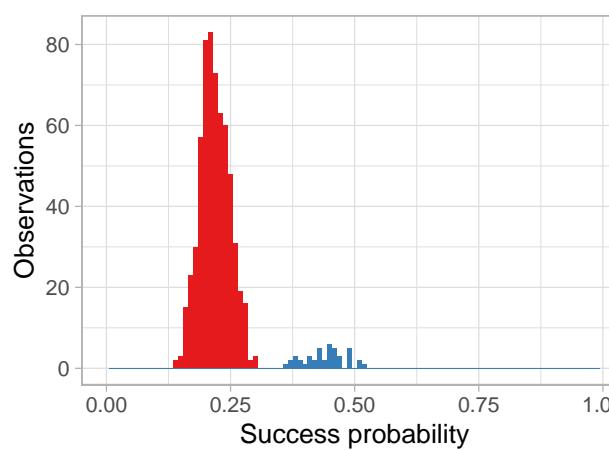
N = 702; C1 5.85%, Tail 8.65%, C2 85.5%



MM ($\omega = 25$; $\epsilon = 5e-06$; SSE 1.799e-03) LV > 0

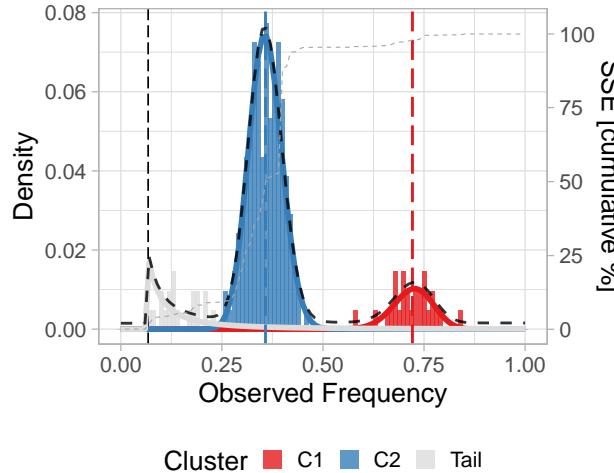
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

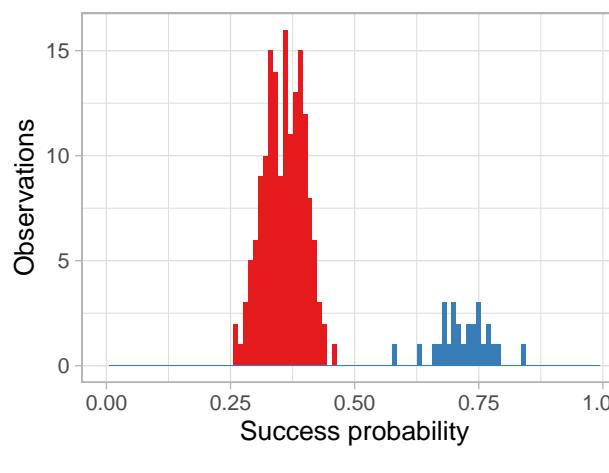
N = 207; Tail 11.01%, C1 12.47%, C2 76.52%



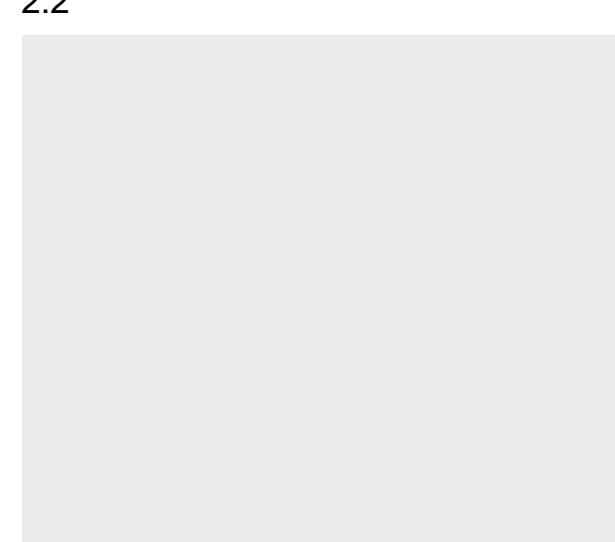
MM ($\omega = 61$; $\epsilon = 8e-06$; SSE 8.147e-03) LV > 0

Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

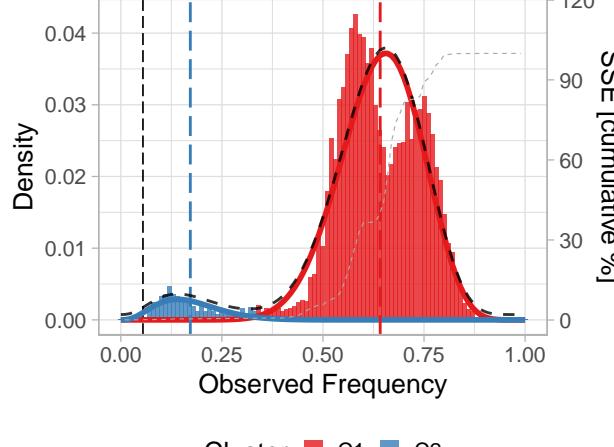


160808_HMFregCPCT_FR03631941_FR12251637_CPCT02020342

ONLY SNVs (min 150 – max 50000)

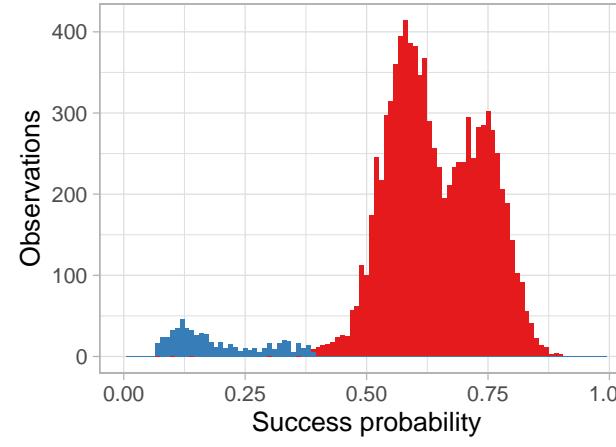
Karyotype: 1:0

N = 9707; Tail 0%, C2 5.37%, C1 94.63%



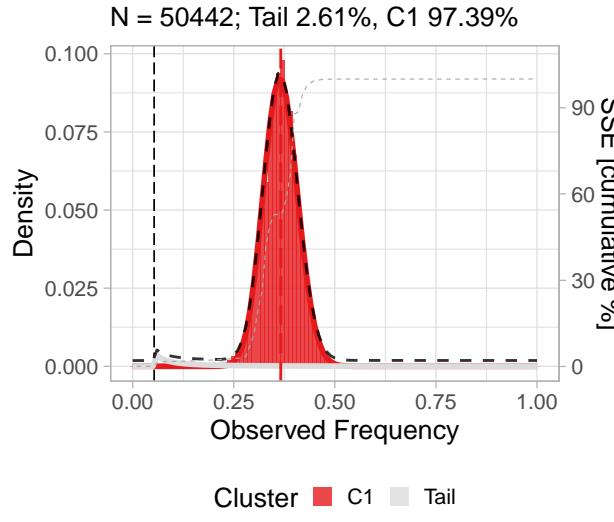
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



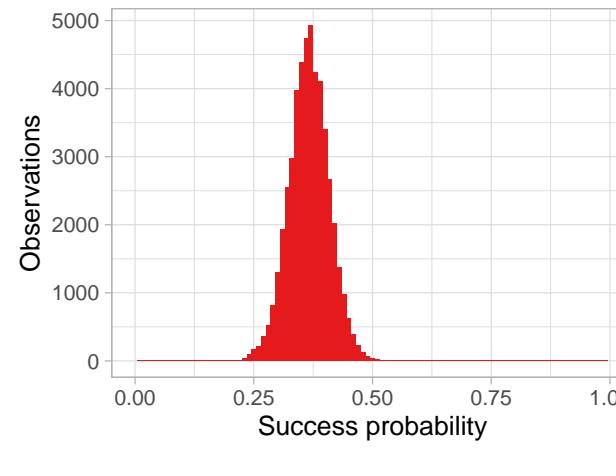
Karyotype: 1:1

N = 50442; Tail 2.61%, C1 97.39%



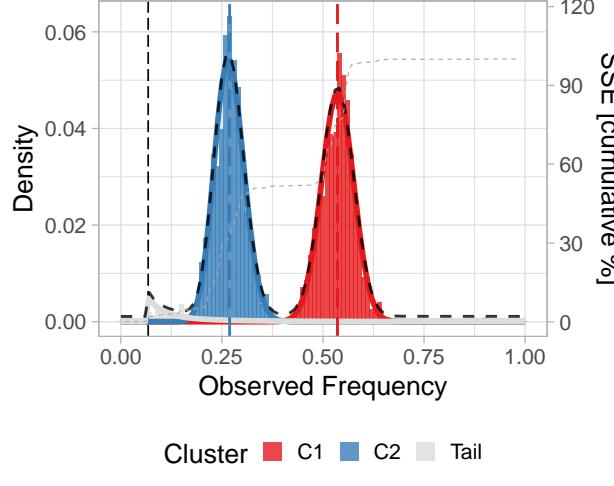
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



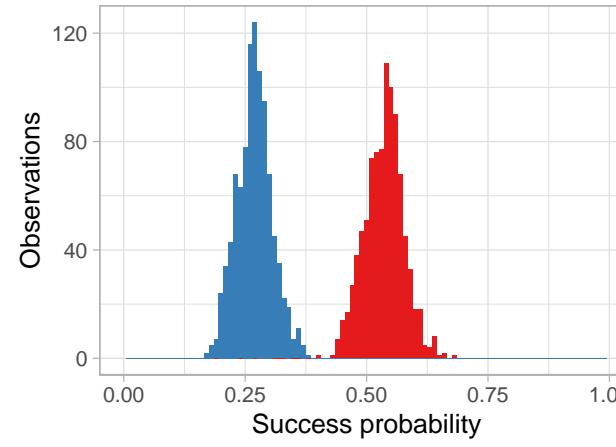
Karyotype: 2:1

N = 1959; Tail 3.35%, C1 47.31%, C2 49.33%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

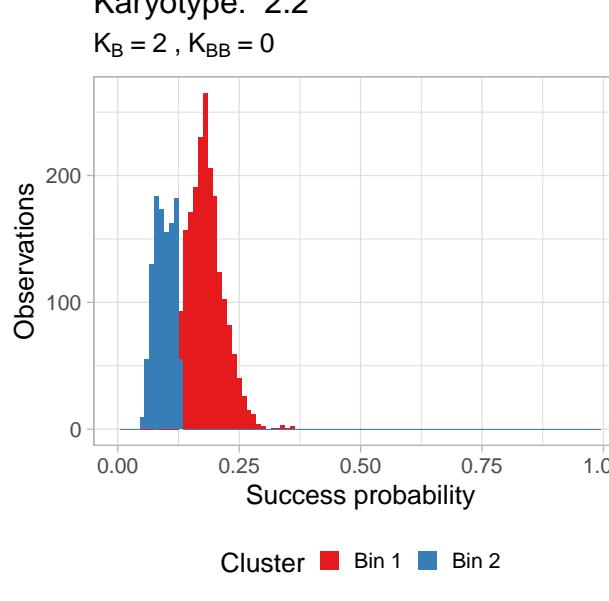
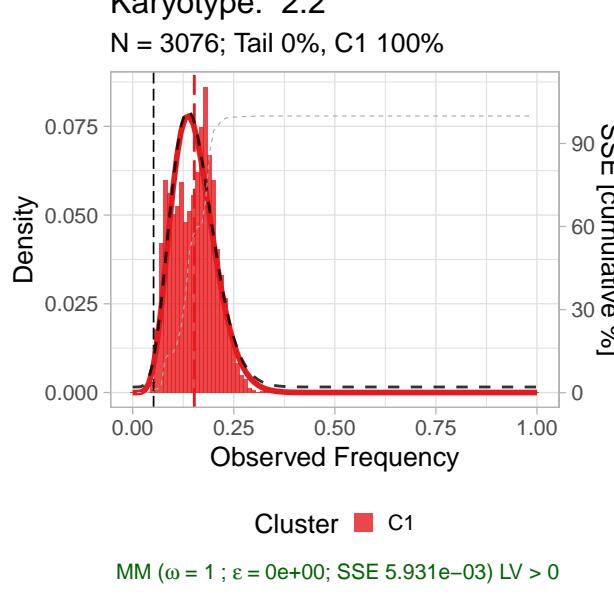
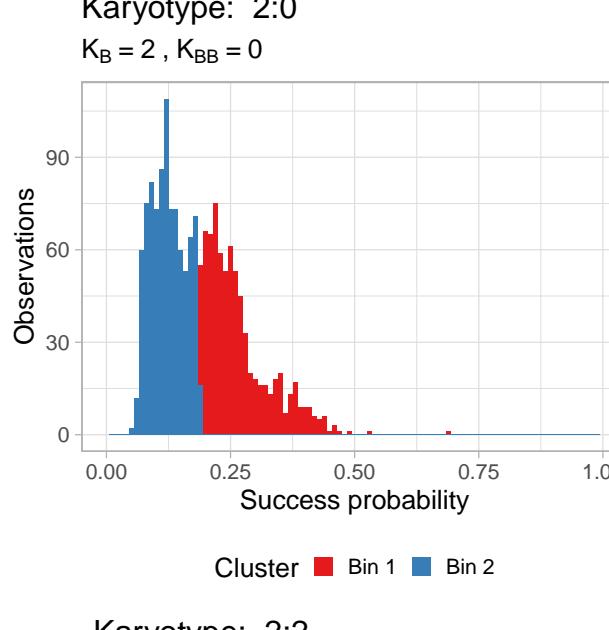
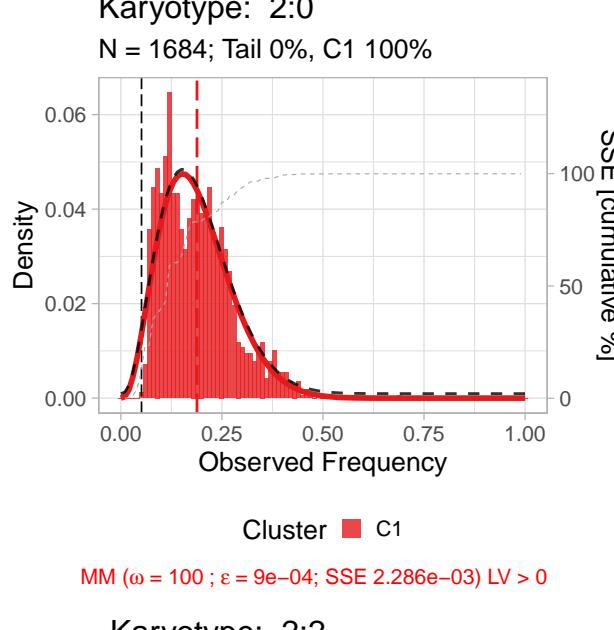
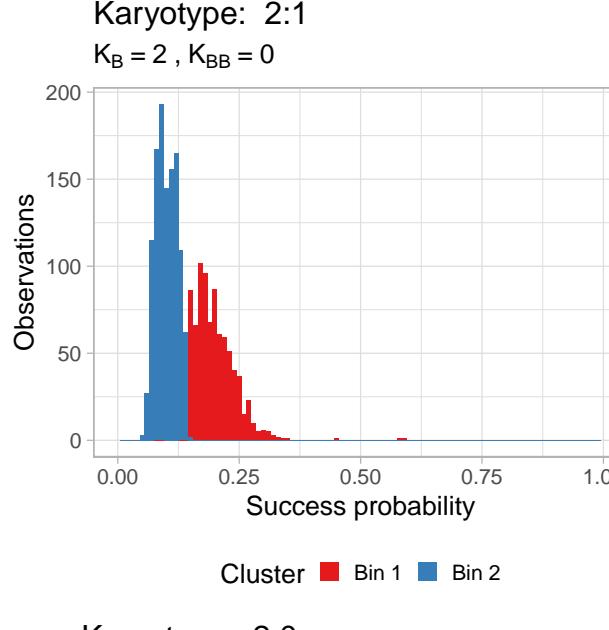
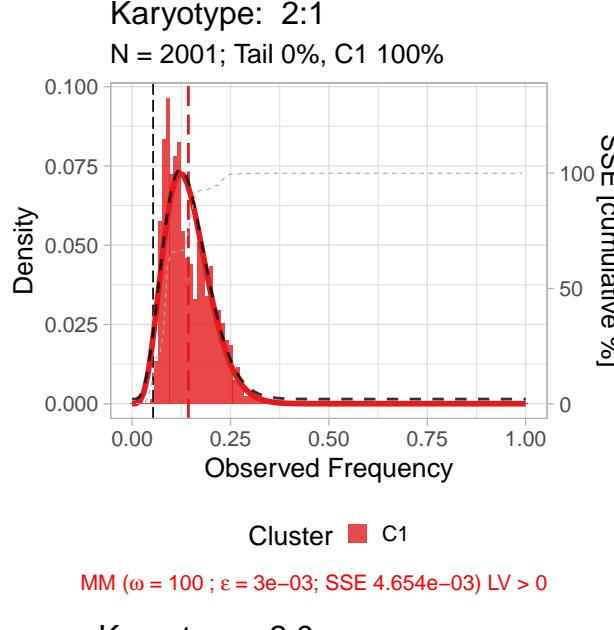
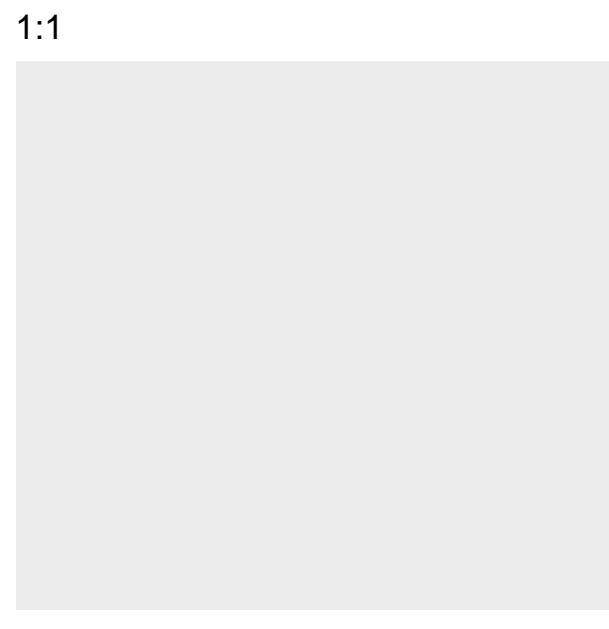
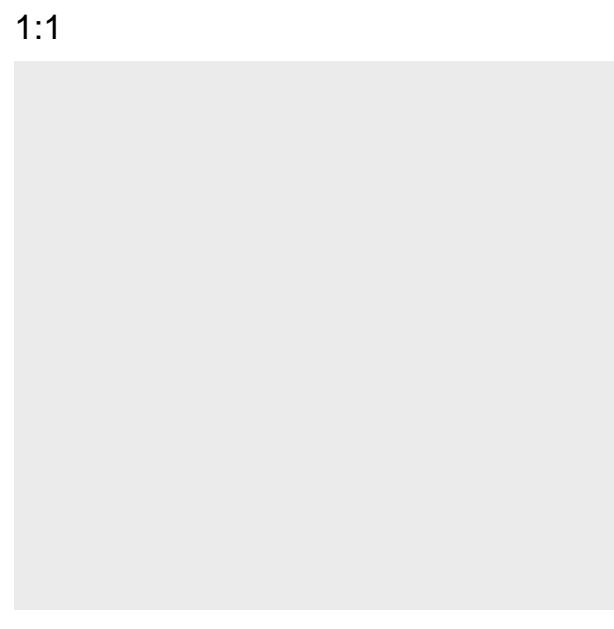
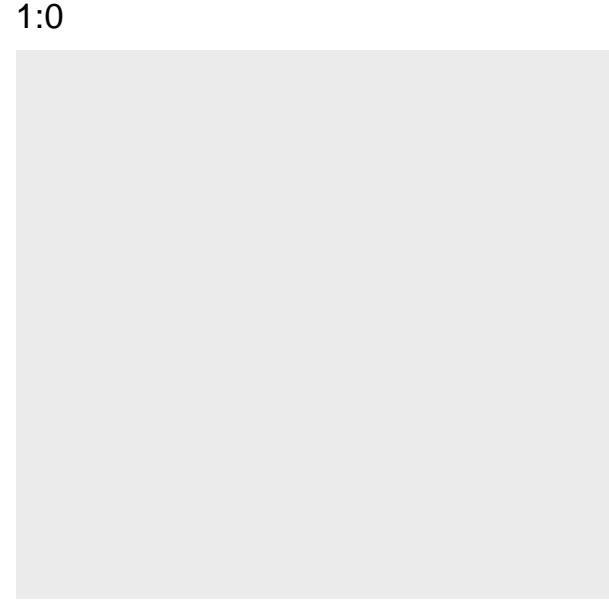
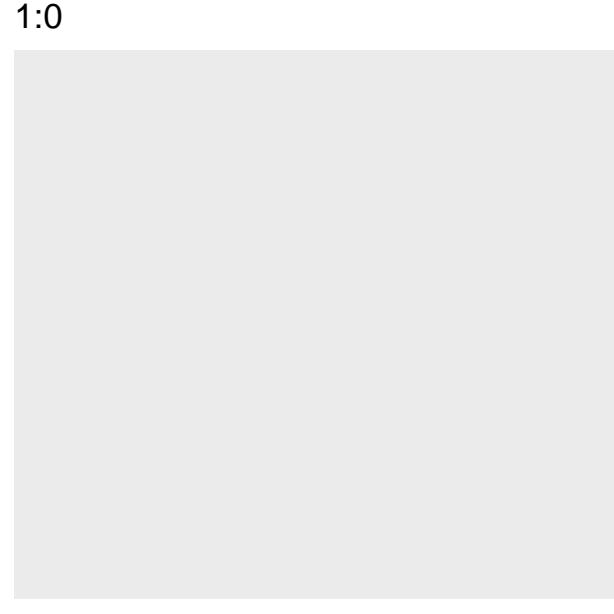
2:0

2:2

2:2

160808_HMFregCPCT_FR03631942_FR12251621_CPCT02010377

ONLY SNVs (min 150 – max 50000)

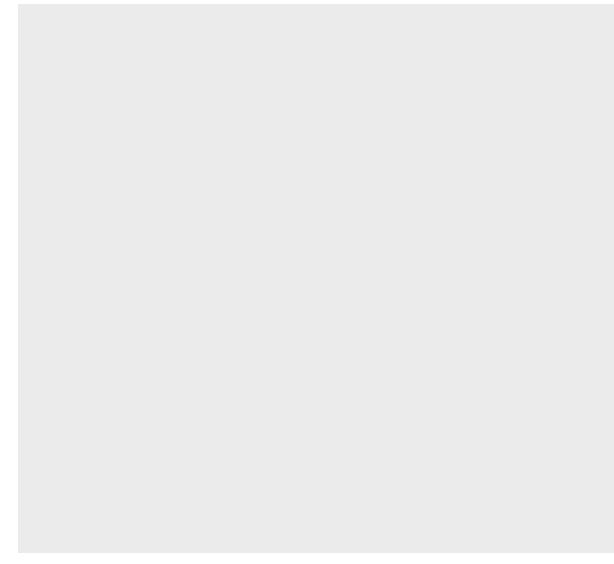
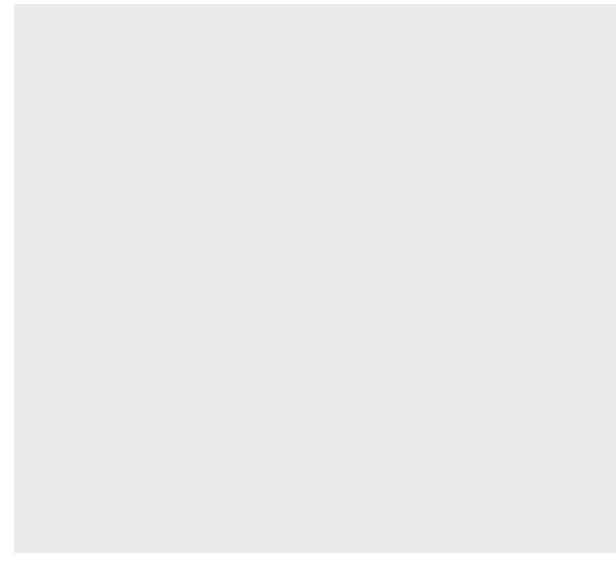


160808_HMFregCPCT_FR10302722_FR10302578_CPCT02010371

ONLY SNVs (min 150 – max 50000)

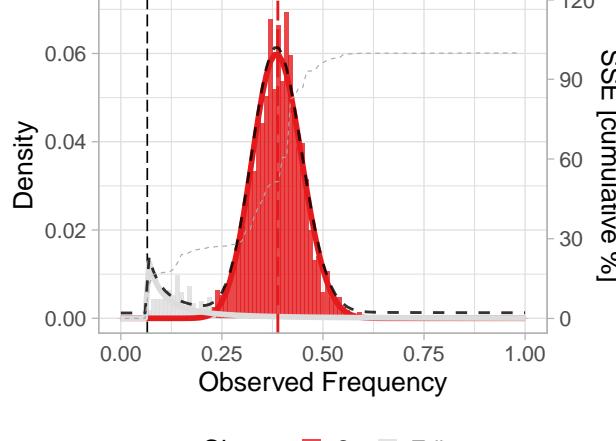
1:0

1:0



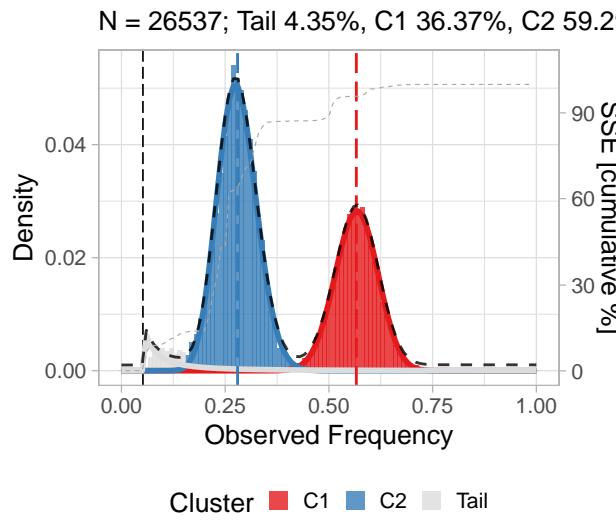
Karyotype: 1:1

N = 2064; Tail 8.98%, C1 91.02%



Karyotype: 2:1

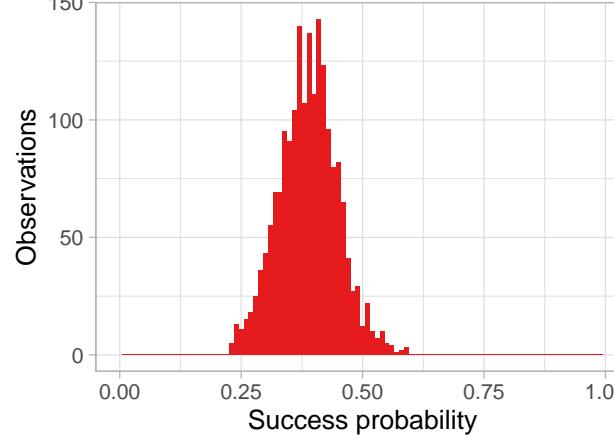
N = 26537; Tail 4.35%, C1 36.37%, C2 59.29%



MM ($\omega = 25$; $\epsilon = 1e-03$; SSE 5.121e-04) LV > 0

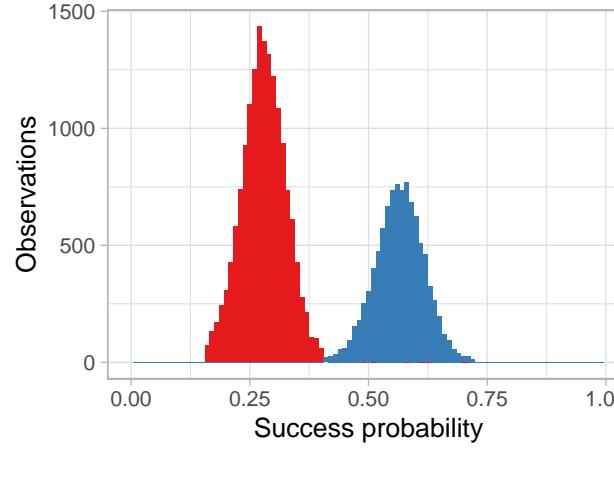
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



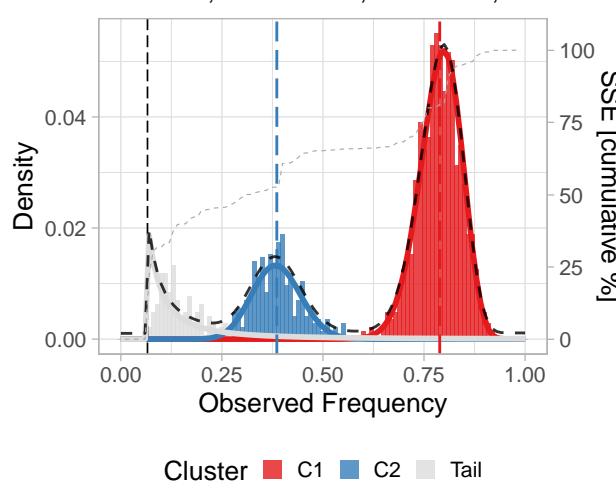
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

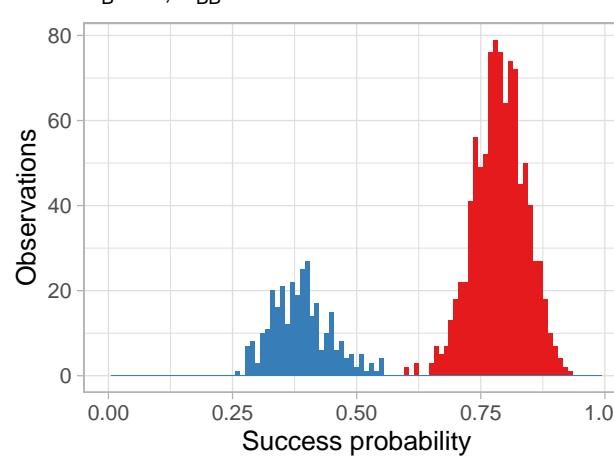
N = 1435; Tail 12.78%, C2 19.9%, C1 67.33%



MM ($\omega = 26$; $\epsilon = 8e-07$; SSE 1.342e-03) LV > 0

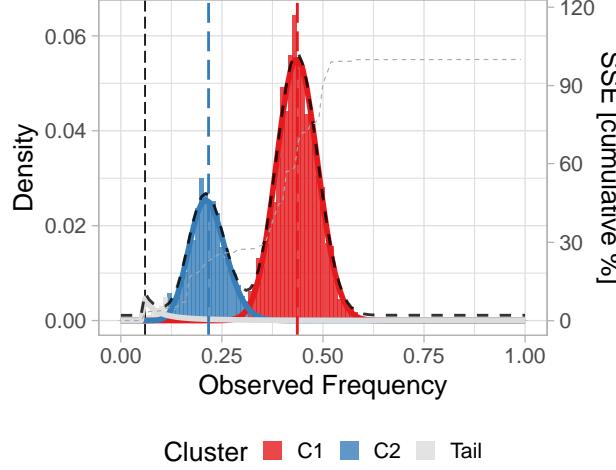
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

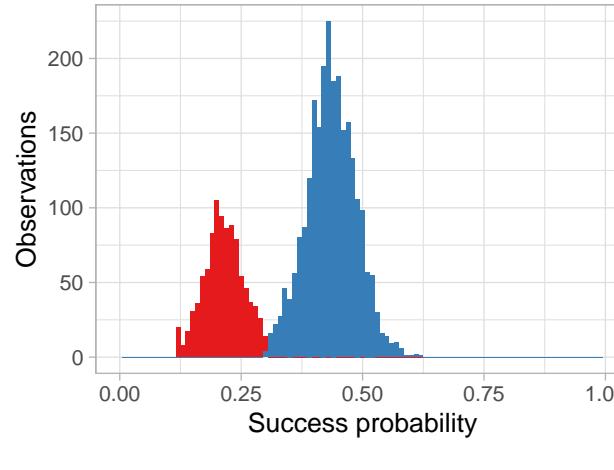
N = 3491; Tail 2.29%, C2 28.07%, C1 69.64%



MM ($\omega = 77$; $\epsilon = 1e-04$; SSE 6.249e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

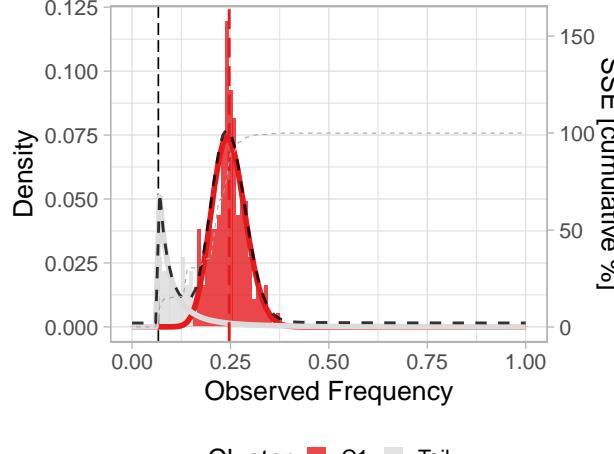


160808_HMFregCPCT_FR10302723_FR12244457_CPCT02020326

ONLY SNVs (min 150 – max 50000)

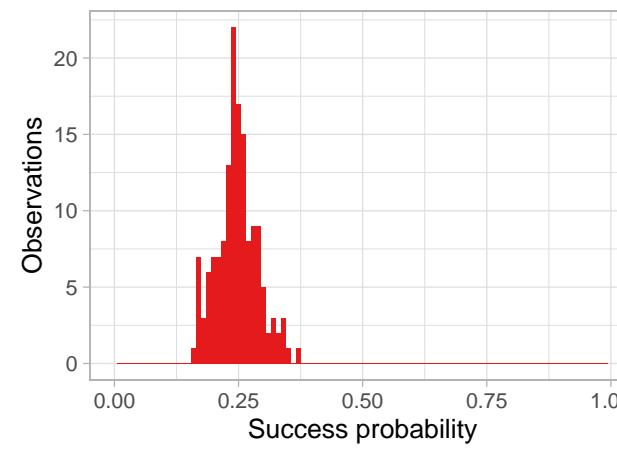
Karyotype: 1:0

N = 184; Tail 21.08%, C1 78.92%



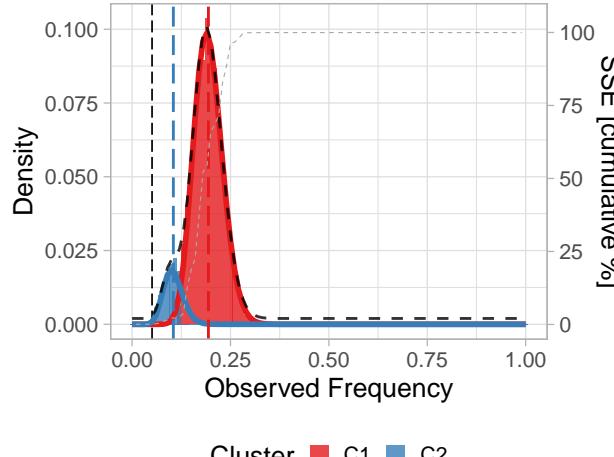
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



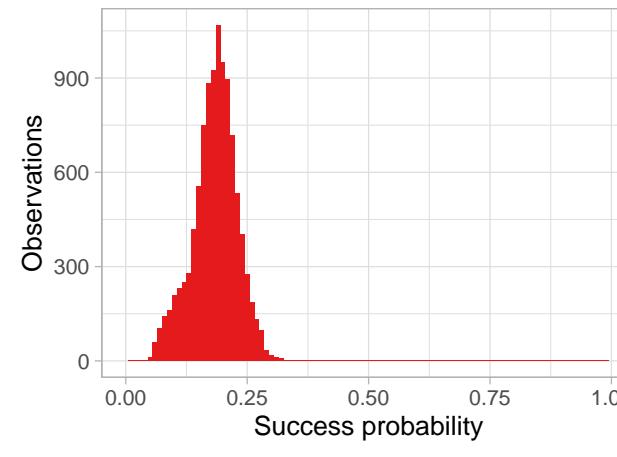
Karyotype: 1:1

N = 10314; Tail 0%, C2 11.01%, C1 88.99%



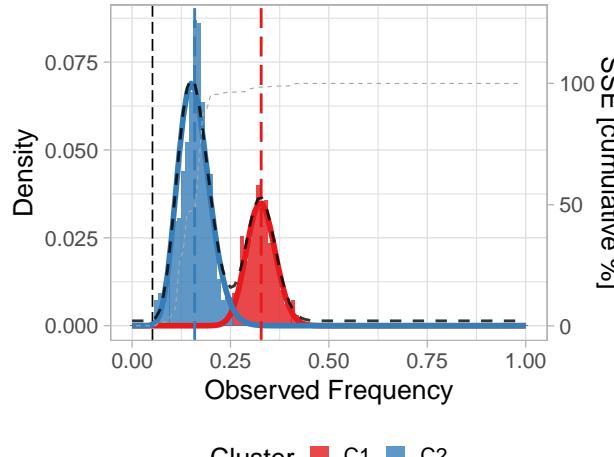
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



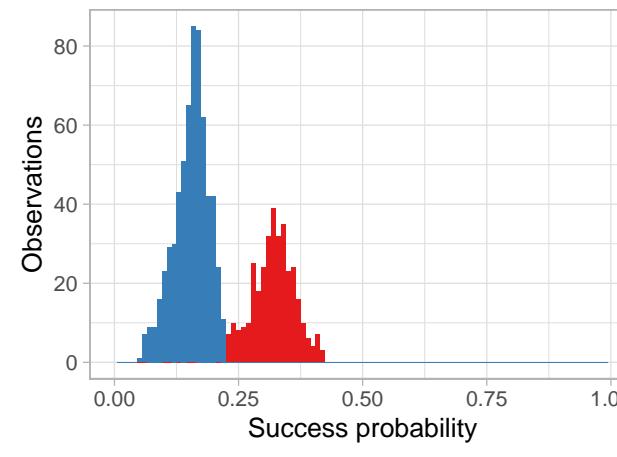
Karyotype: 2:1

N = 977; Tail 0%, C1 31.99%, C2 68.01%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

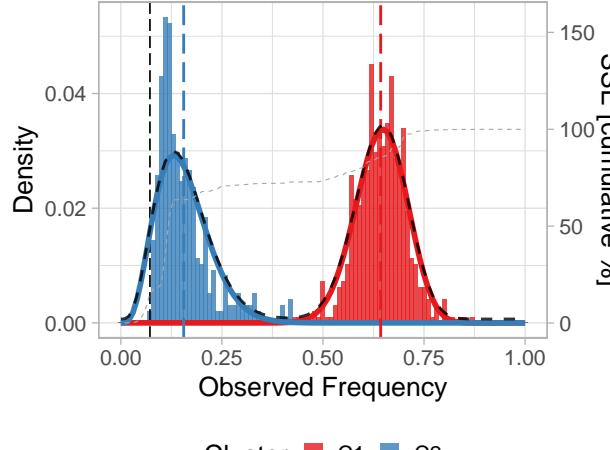
2:2

160808_HMFregCPCT_FR10302730_FR10302576_CPCT02010369

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

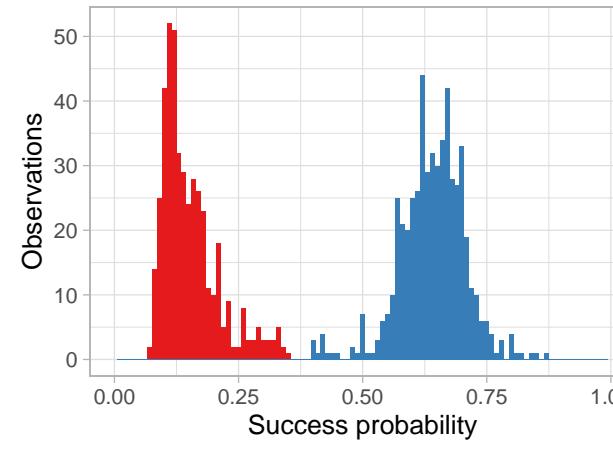
N = 975; Tail 0%, C2 45.84%, C1 54.16%



MM ($\omega = 35$; $\epsilon = 2e-03$; SSE 3.060e-03) LV > 0

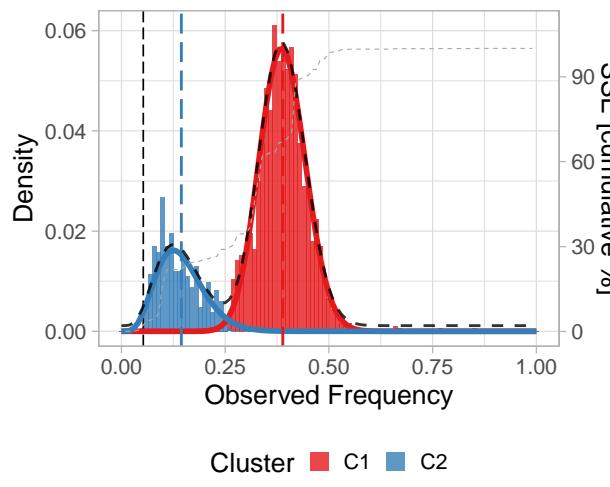
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

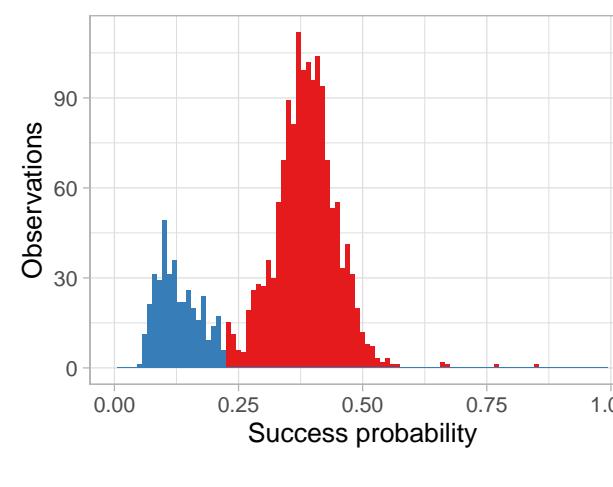
N = 1835; Tail 0%, C2 21.94%, C1 78.06%



MM ($\omega = 100$; $\epsilon = 9e-02$; SSE 9.167e-04) LV > 0

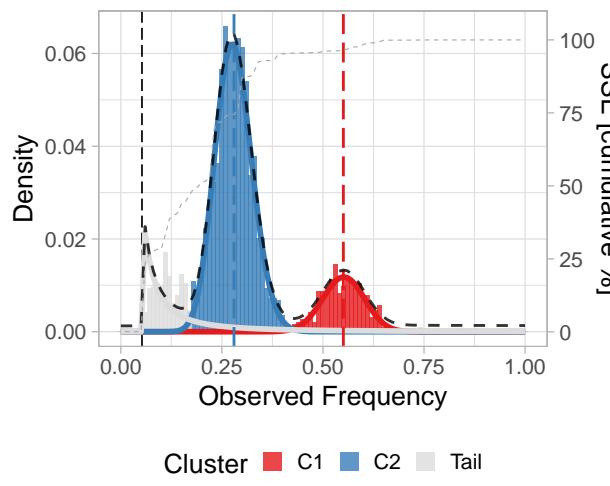
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

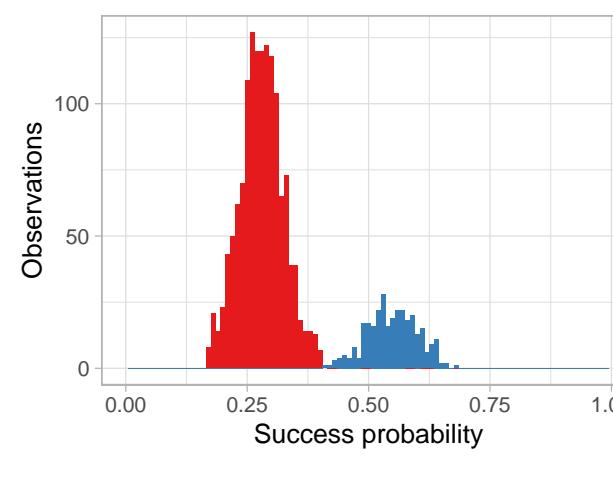
N = 1926; Tail 14.33%, C1 15.15%, C2 70.52%



MM ($\omega = 23$; $\epsilon = 6e-05$; SSE 1.595e-03) LV > 0

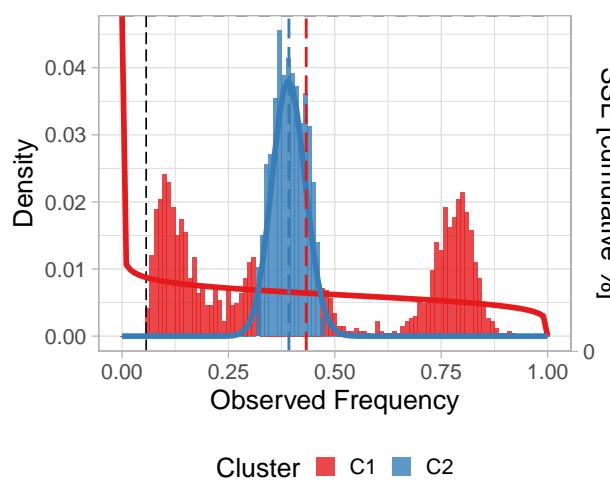
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

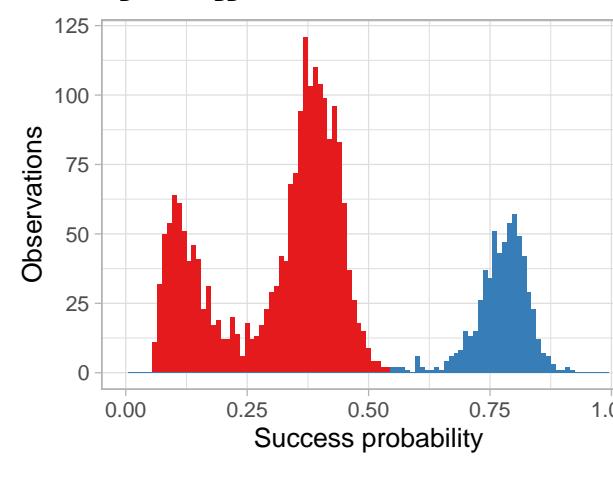
N = 2655; Tail 0%, C2 37.27%, C1 62.73%



MM ($\omega = 32$; $\epsilon = 8e-04$; SSE 4.090e-03) LV > 0

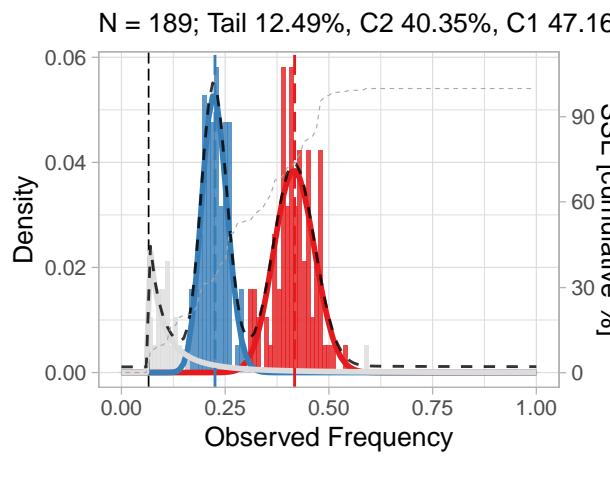
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

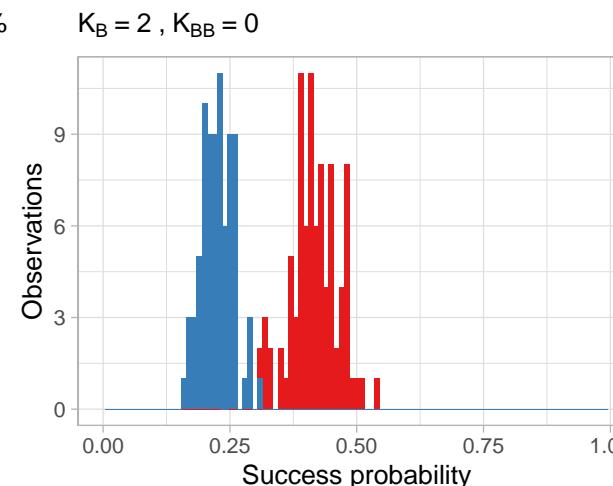
N = 189; Tail 12.49%, C2 40.35%, C1 47.16%



MM ($\omega = 70$; $\epsilon = 6e-06$; SSE 4.171e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

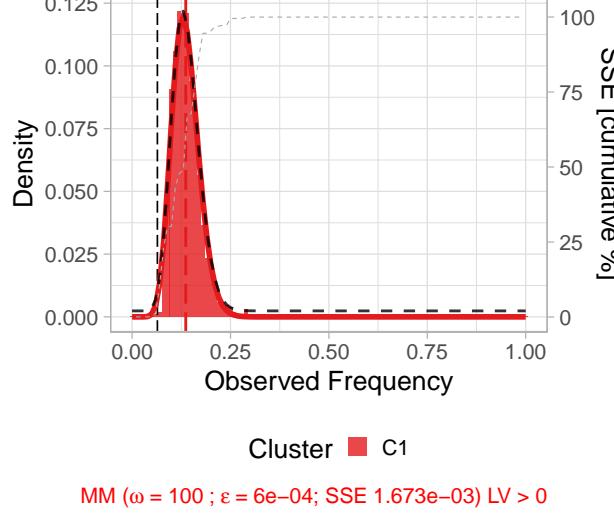


160810_HMFregCPCT_FR10302548_FR12244689_CPCT02030256

ONLY SNVs (min 150 – max 50000)

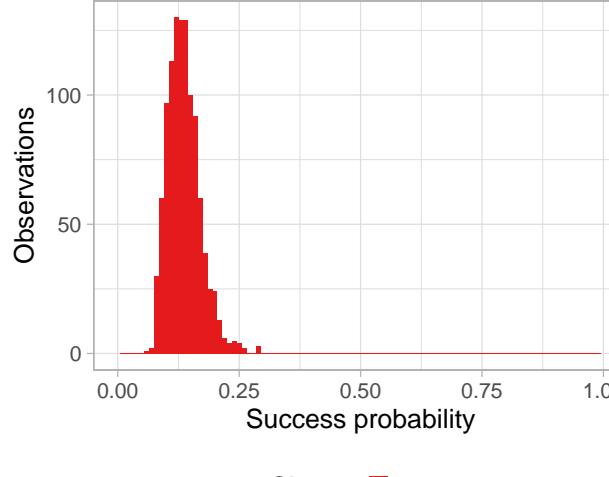
Karyotype: 1:0

N = 1068; Tail 0%, C1 100%



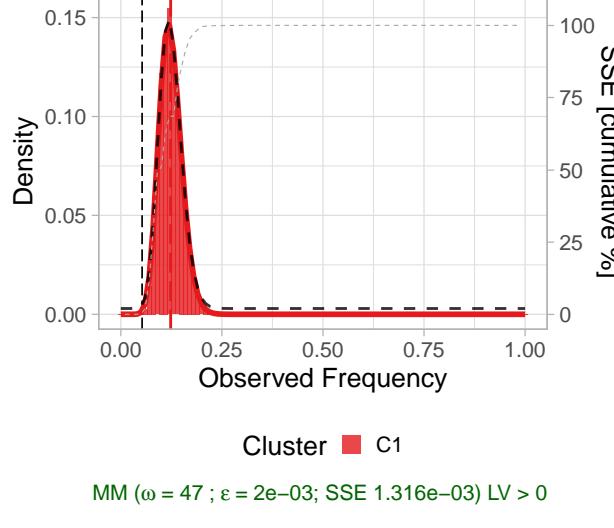
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



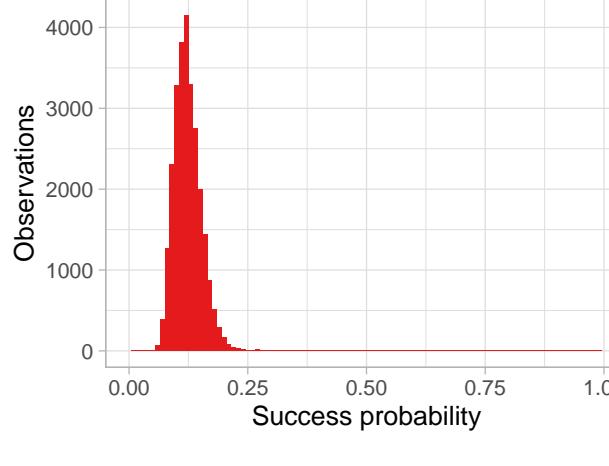
Karyotype: 1:1

N = 26876; Tail 0%, C1 100%



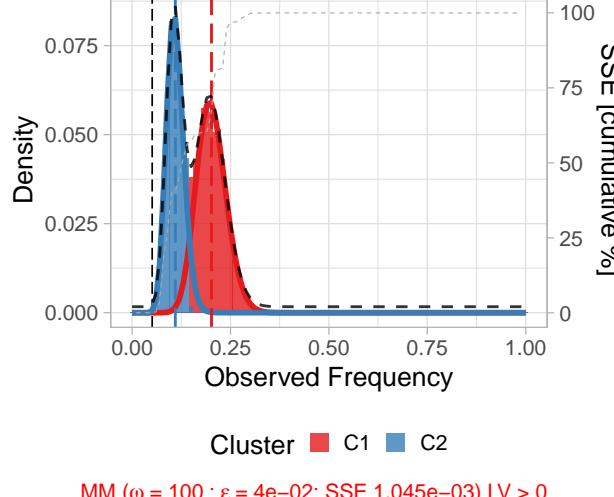
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



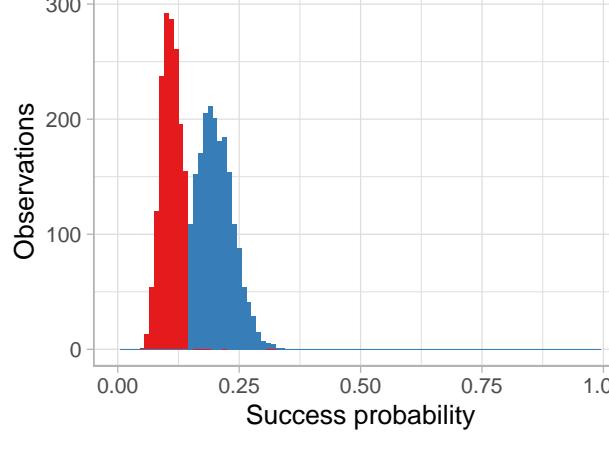
Karyotype: 2:1

N = 3571; Tail 0%, C2 45.02%, C1 54.98%



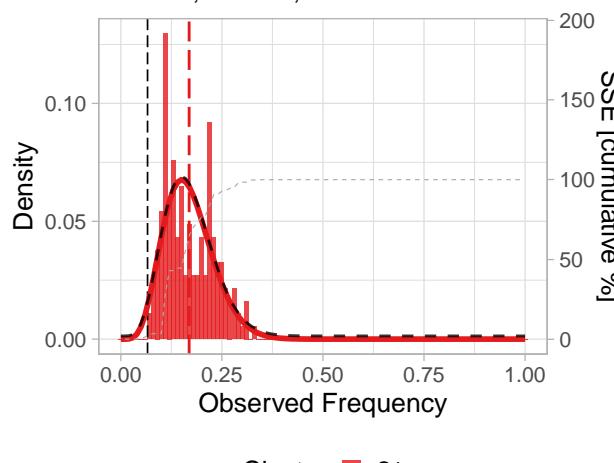
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



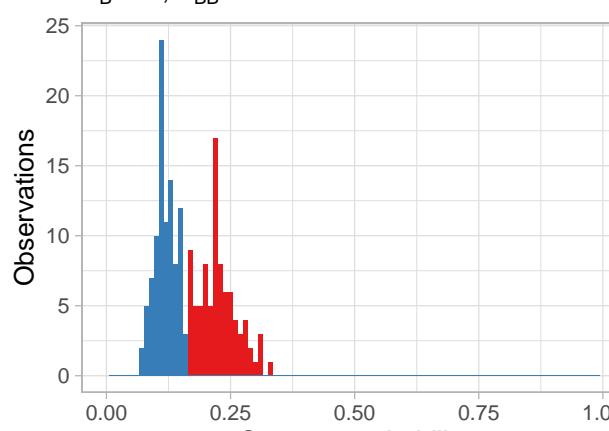
Karyotype: 2:0

N = 185; Tail 0%, C1 100%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

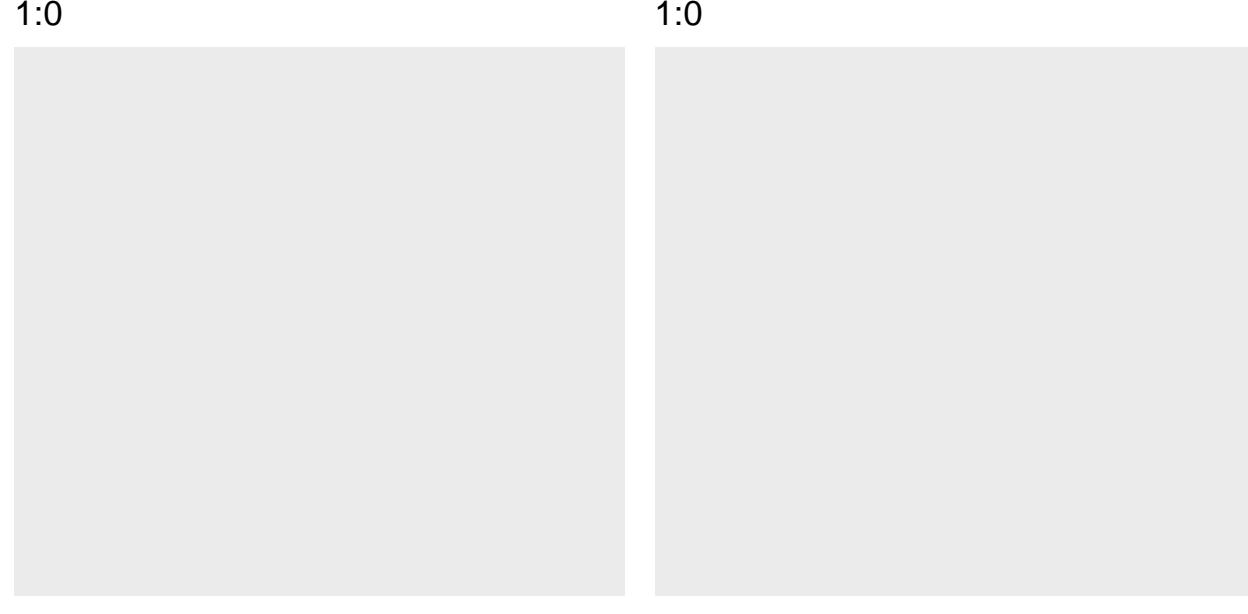


2:2

2:2

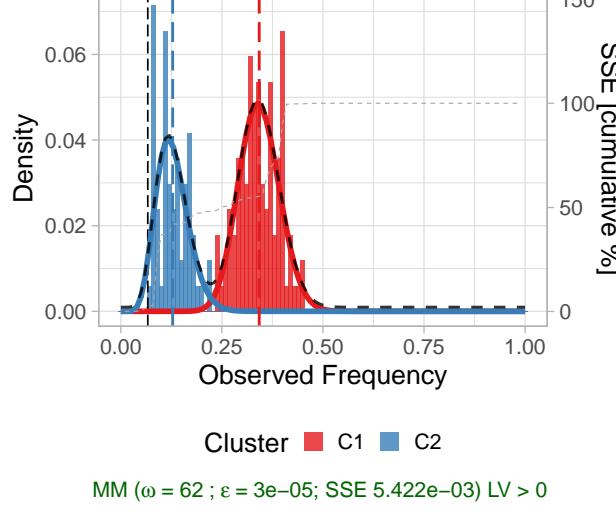
160813_HMFregCPCT_FR10302555_FR12251525_CPCT02100021

ONLY SNVs (min 150 – max 50000)



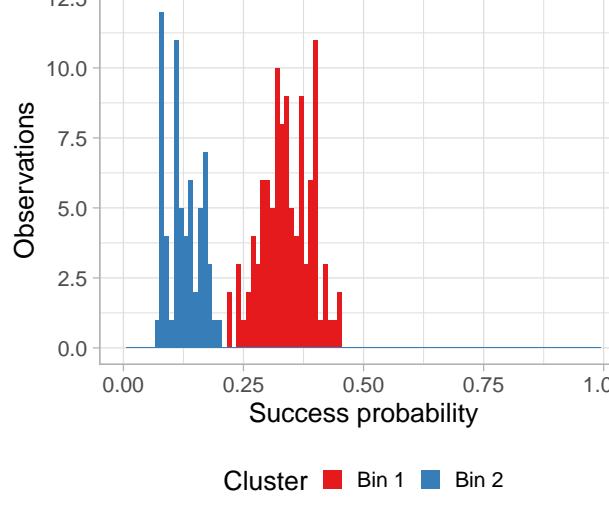
Karyotype: 1:1

N = 168; Tail 0%, C1 38.73%, C2 61.27%



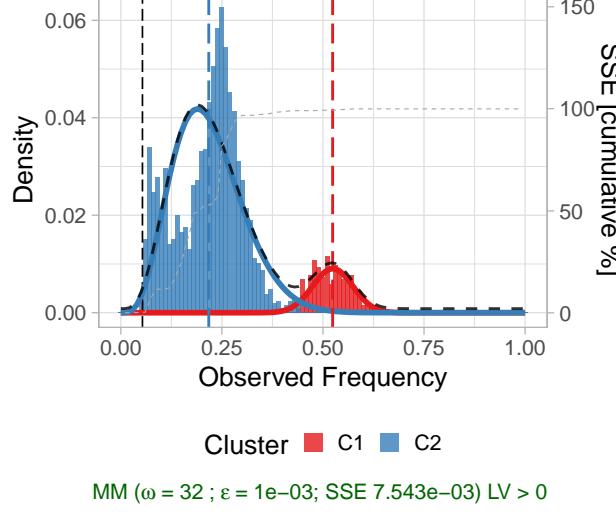
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



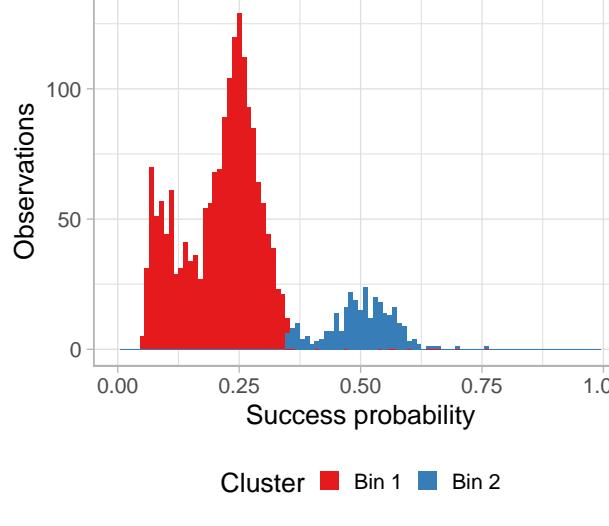
Karyotype: 2:1

N = 2056; Tail 0%, C1 11.16%, C2 88.84%



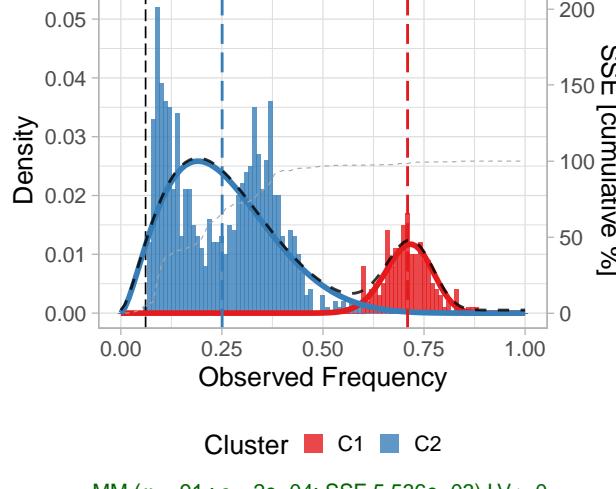
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



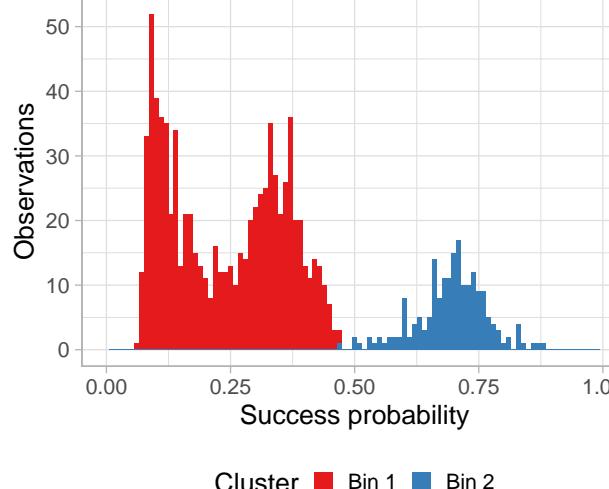
Karyotype: 2:0

N = 1000; Tail 0%, C1 16.91%, C2 83.09%



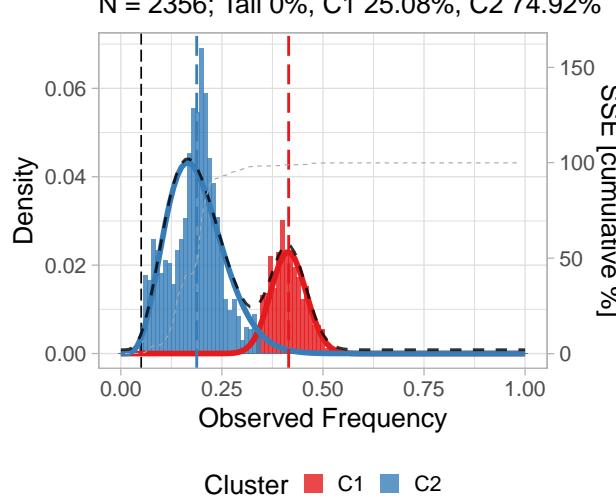
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



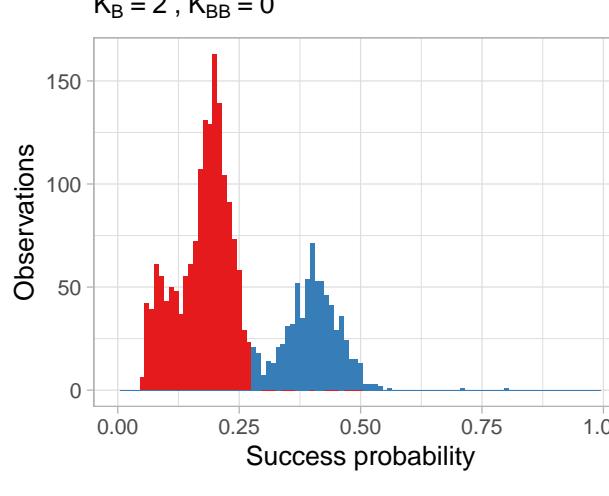
Karyotype: 2:2

N = 2356; Tail 0%, C1 25.08%, C2 74.92%



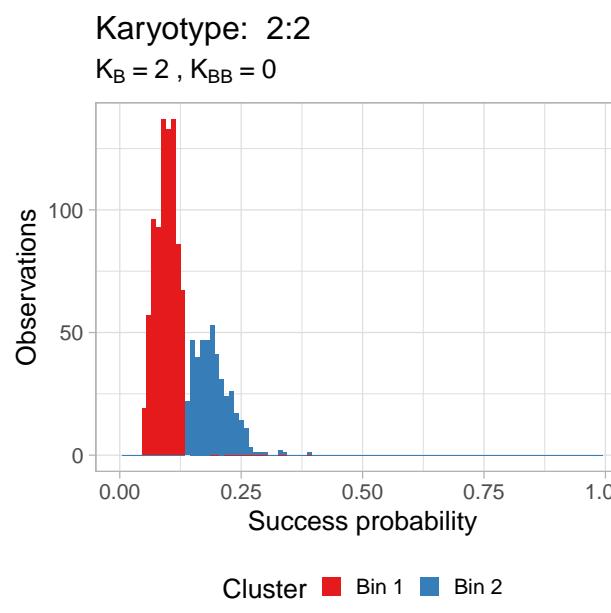
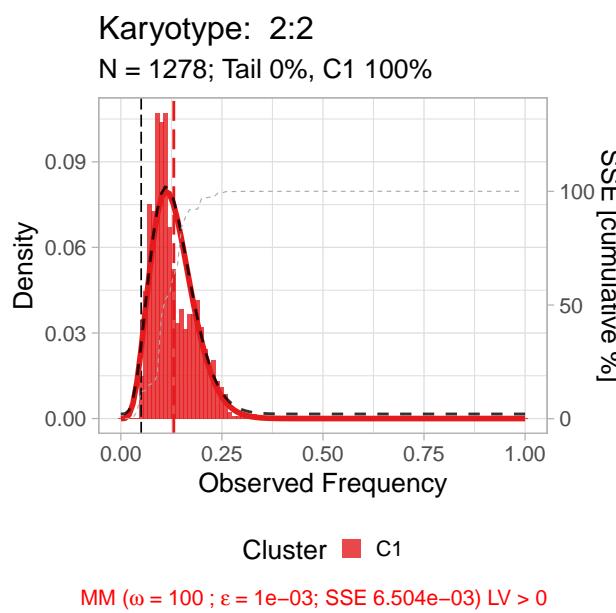
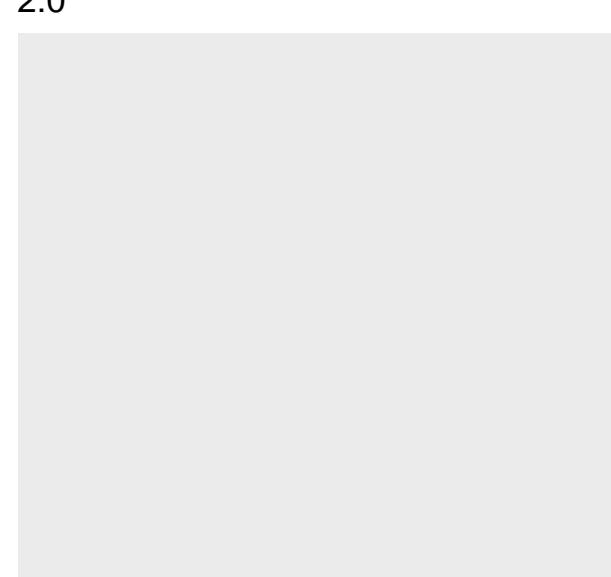
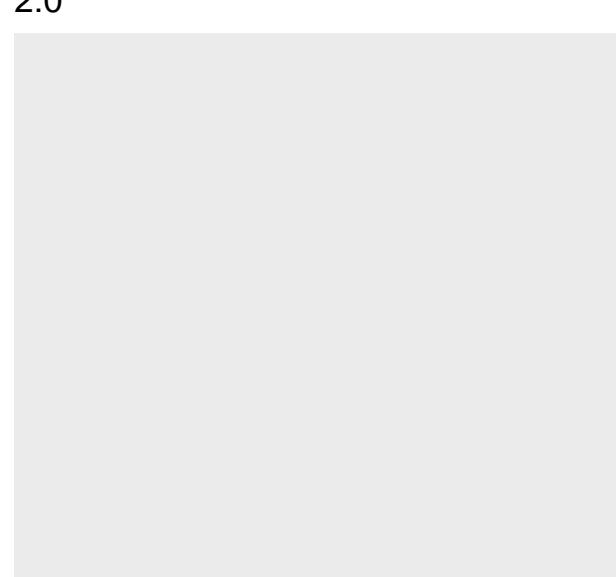
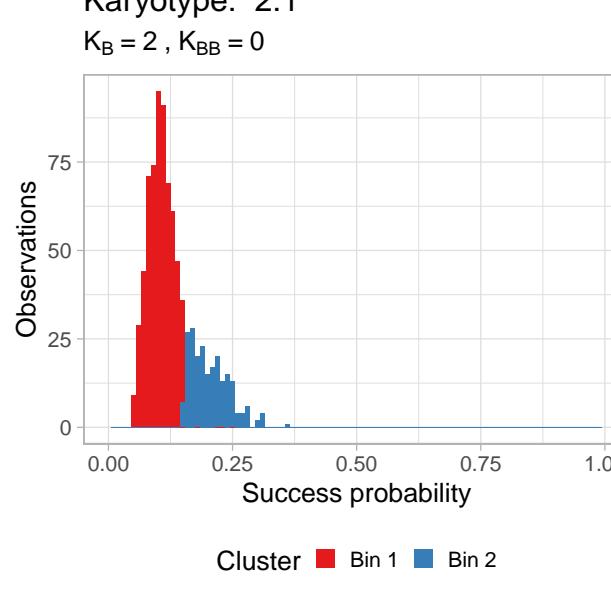
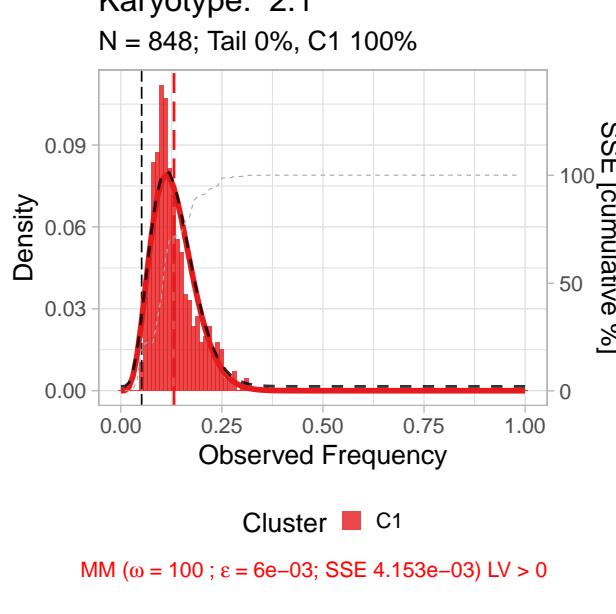
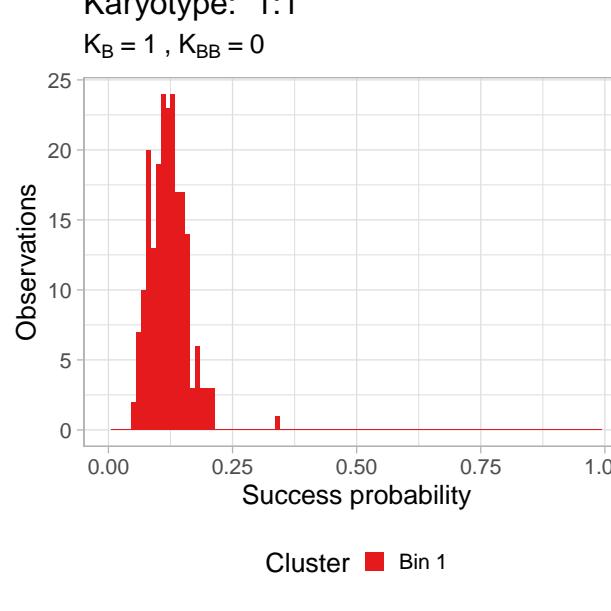
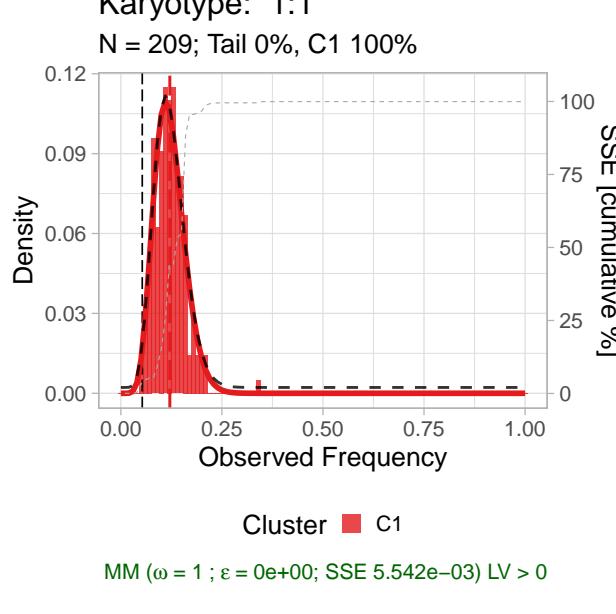
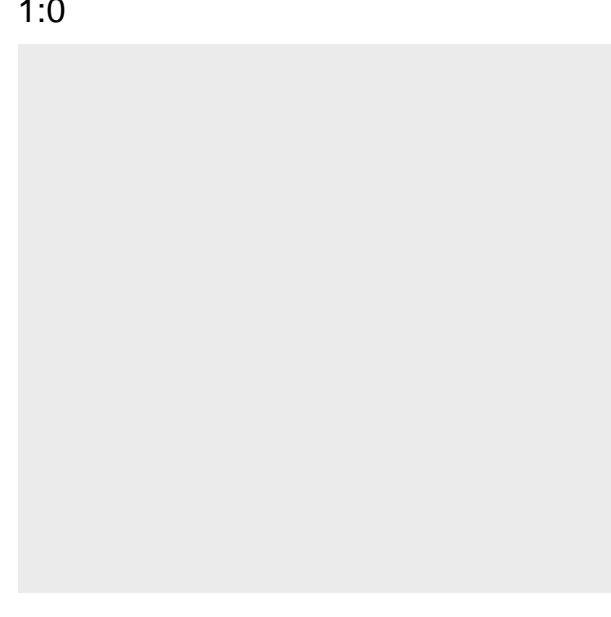
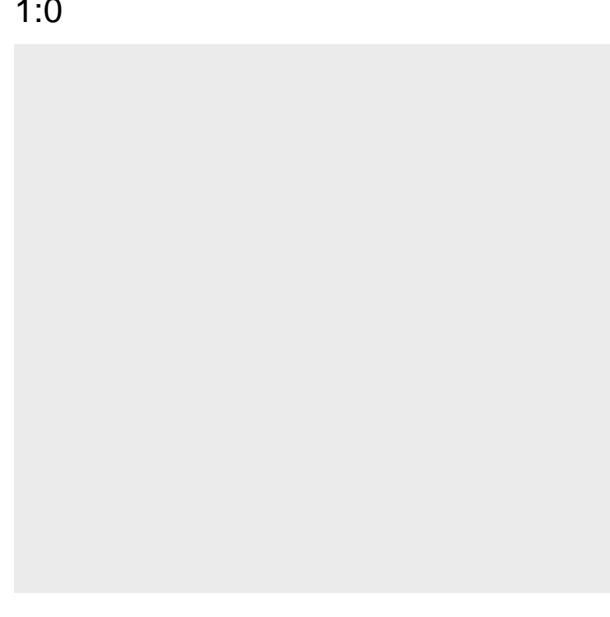
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



160813_HMFregCPCT_FR10302561_FR12251598_CPCT02020345

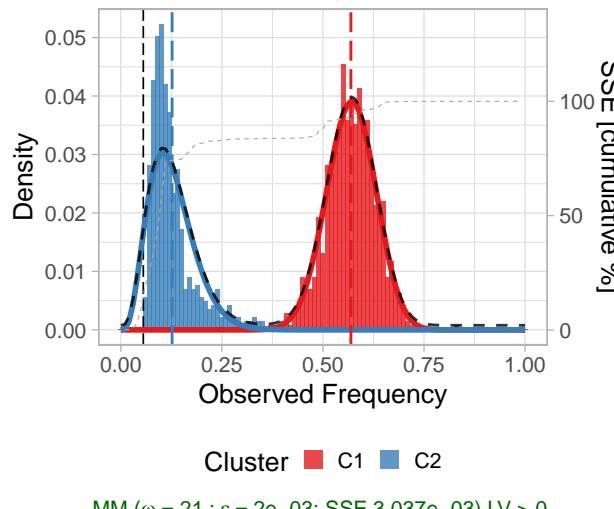
ONLY SNVs (min 150 – max 50000)



160813_HMFregCPCT_FR10302562_FR12251703_CPCT02020344

ONLY SNVs (min 150 – max 50000)

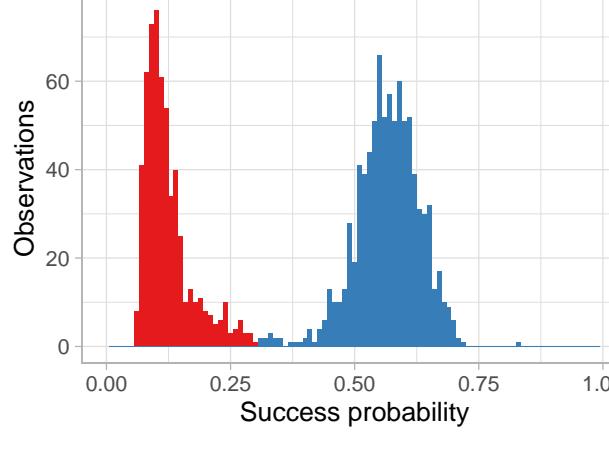
Karyotype: 1:0
N = 1453; Tail 0%, C2 40.23%, C1 59.77%



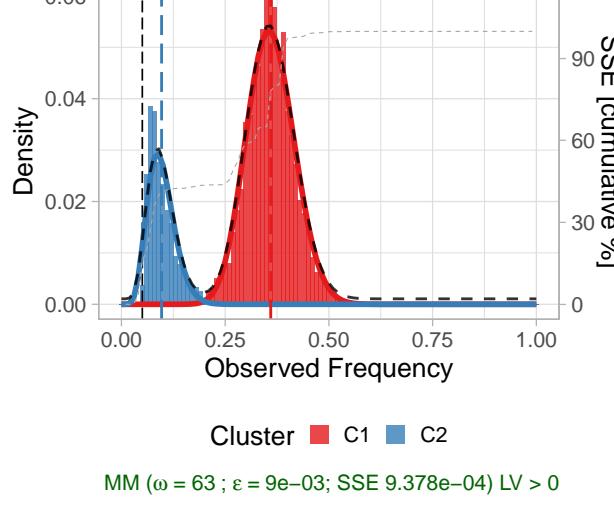
MM ($\omega = 21$; $\epsilon = 2e-03$; SSE 3.037e-03) LV > 0

Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



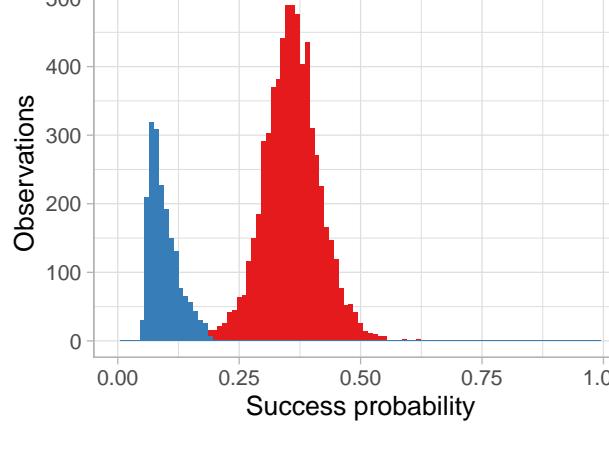
Karyotype: 1:1
N = 8235; Tail 0%, C2 22.98%, C1 77.02%



MM ($\omega = 63$; $\epsilon = 9e-03$; SSE 9.378e-04) LV > 0

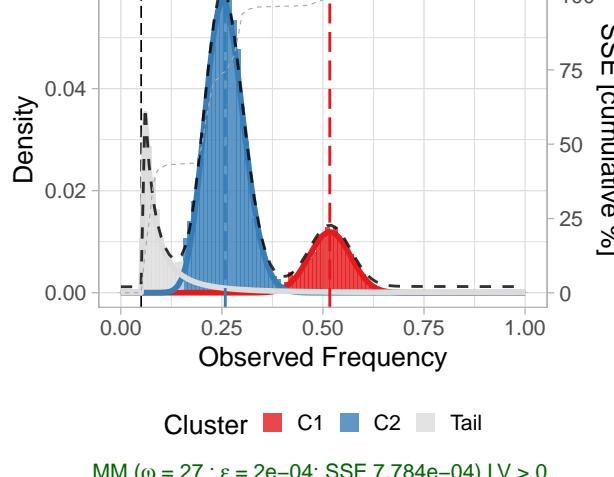
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:1

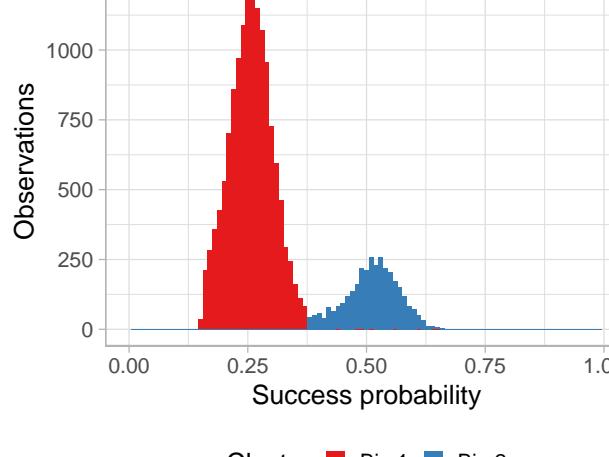
N = 20074; C1 15.14%, Tail 18.07%, C2 66.79



MM ($\omega = 27$; $\epsilon = 2e-04$; SSE 7.784e-04) LV > 0

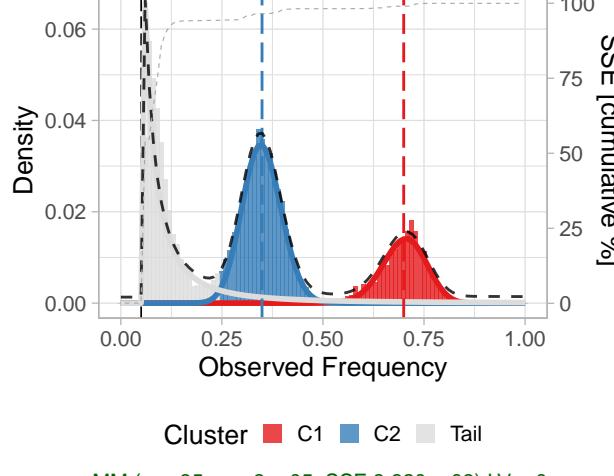
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

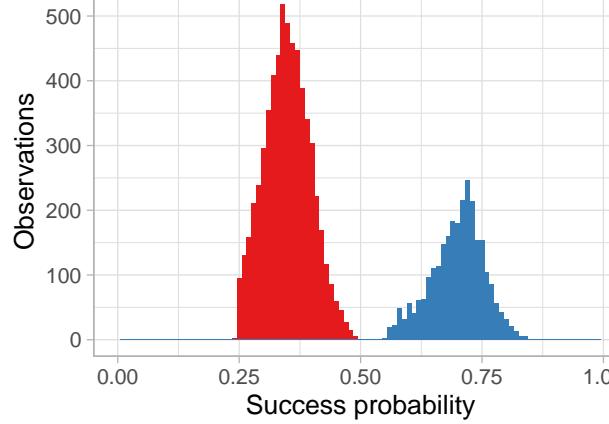
N = 13625; C1 18.95%, Tail 39.45%, C2 41.61



MM ($\omega = 35$; $\epsilon = 3e-05$; SSE 3.620e-03) LV > 0

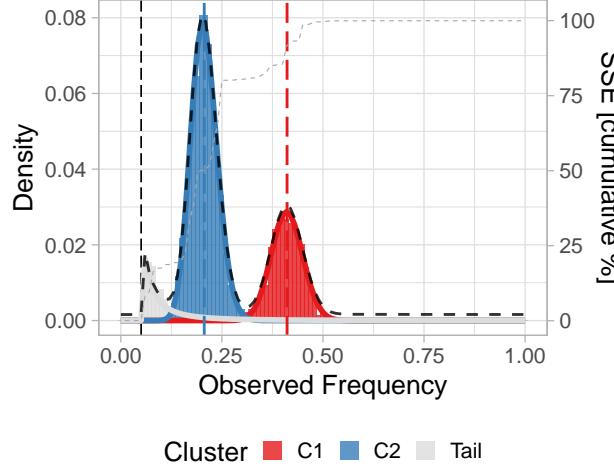
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

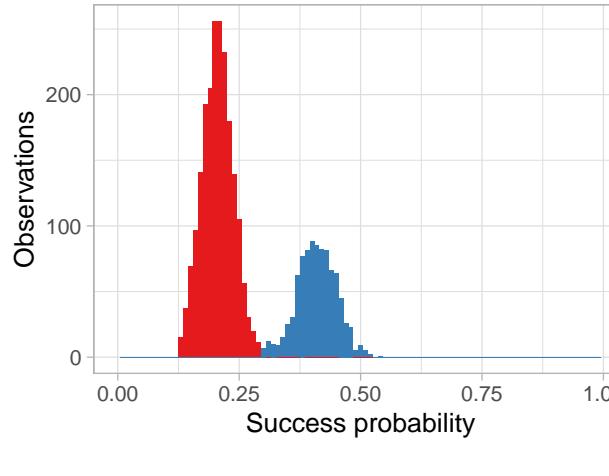
N = 3174; Tail 8.78%, C1 27.91%, C2 63.31%



MM ($\omega = 30$; $\epsilon = 1e-05$; SSE 1.103e-03) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

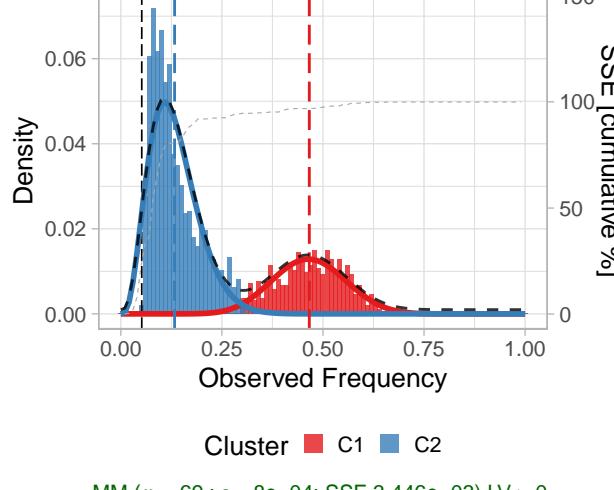


160813_HMFregCPCT_FR12251589_FR12251671_CPCT02020343

ONLY SNVs (min 150 – max 50000)

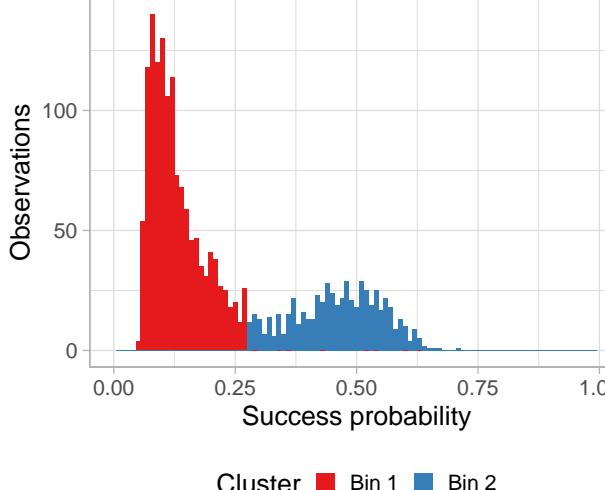
Karyotype: 1:0

N = 1947; Tail 0%, C1 29.19%, C2 70.81%



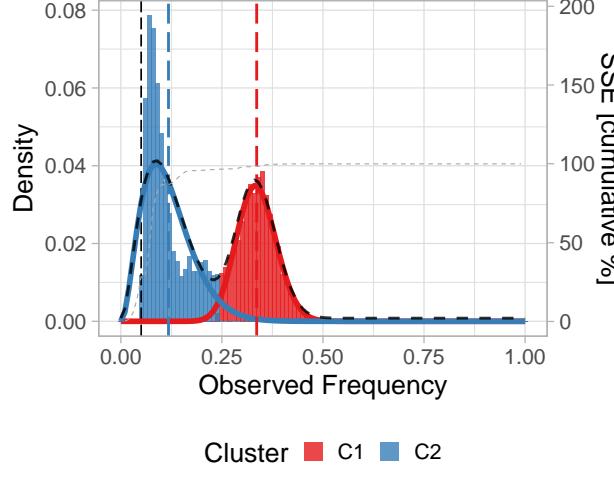
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



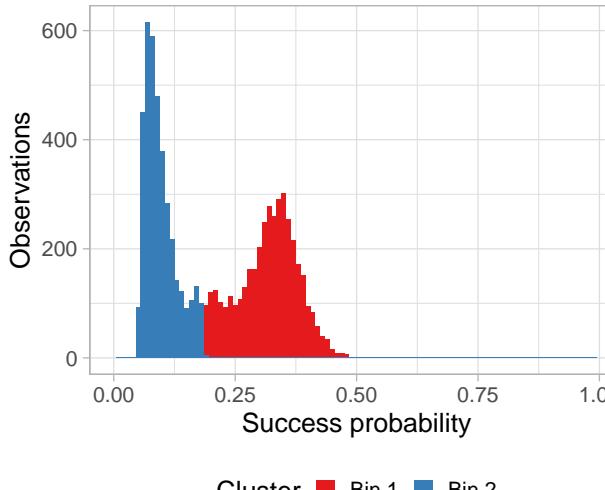
Karyotype: 1:1

N = 7834; Tail 0%, C1 42.42%, C2 57.58%



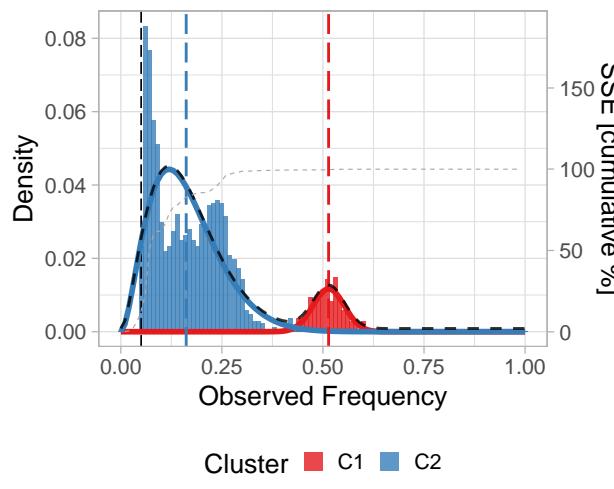
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



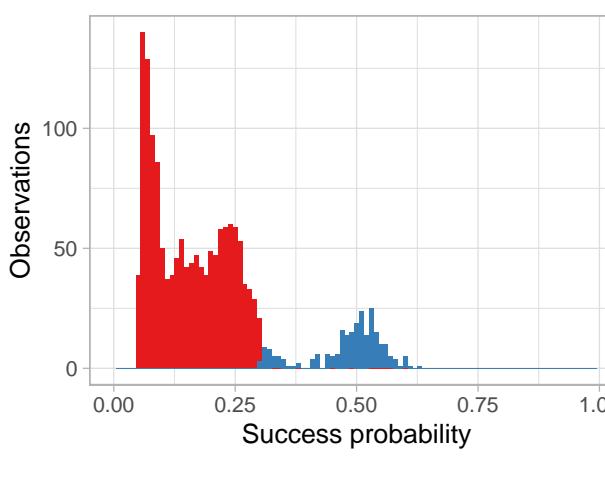
Karyotype: 2:1

N = 1679; Tail 0%, C1 11.37%, C2 88.63%



Karyotype: 2:1

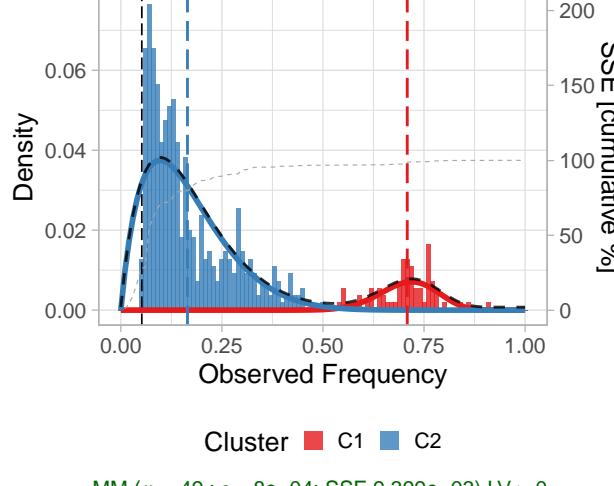
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 14$; $\epsilon = 4e-04$; SSE 9.075e-03) LV > 0

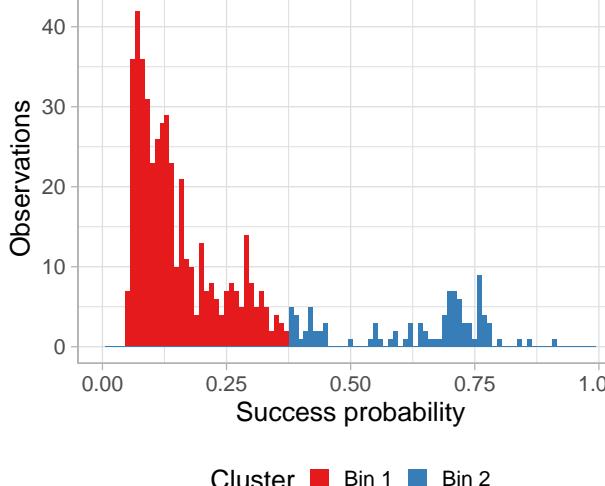
Karyotype: 2:0

N = 549; Tail 0%, C1 12.54%, C2 87.46%

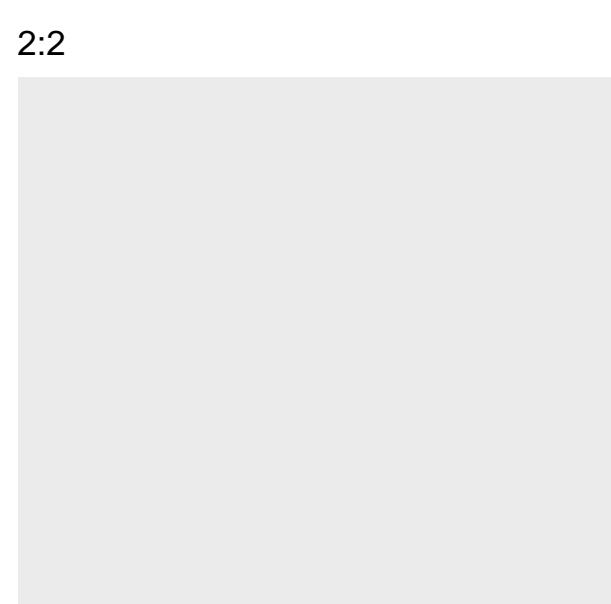


Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

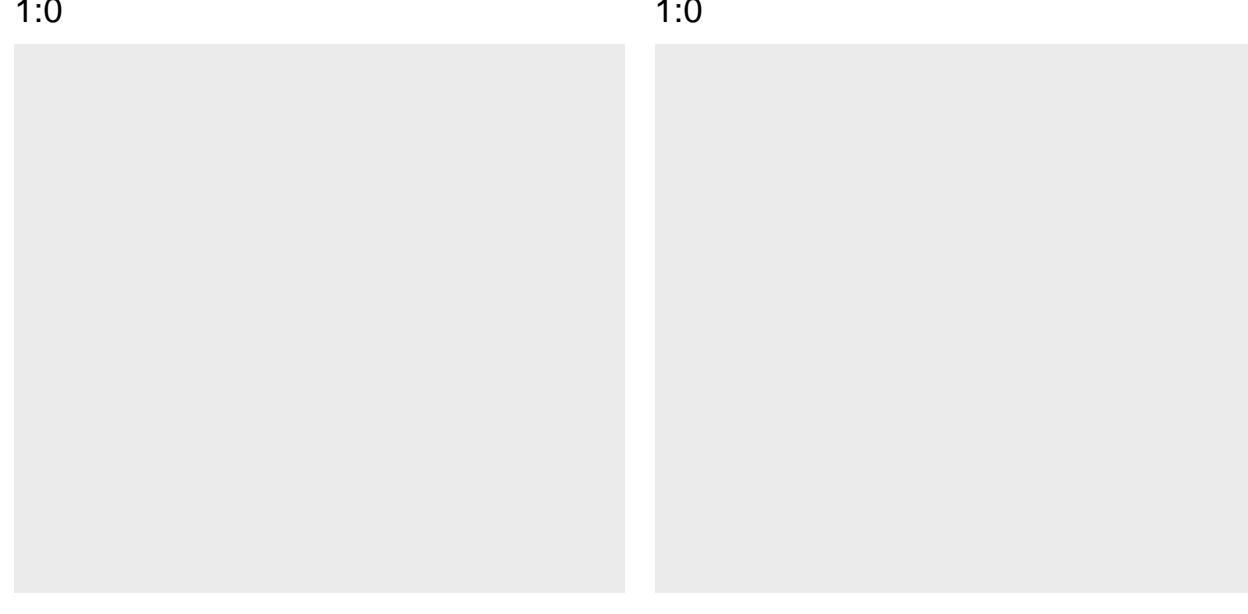


2:2

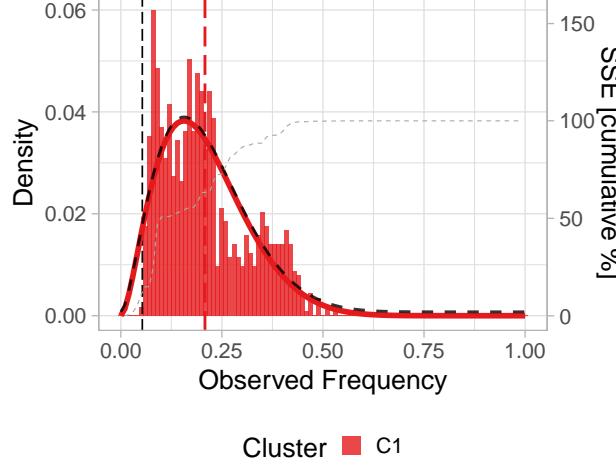


160813_HMFregCPCT_FR12251640_FR12251531_CPCT02020347

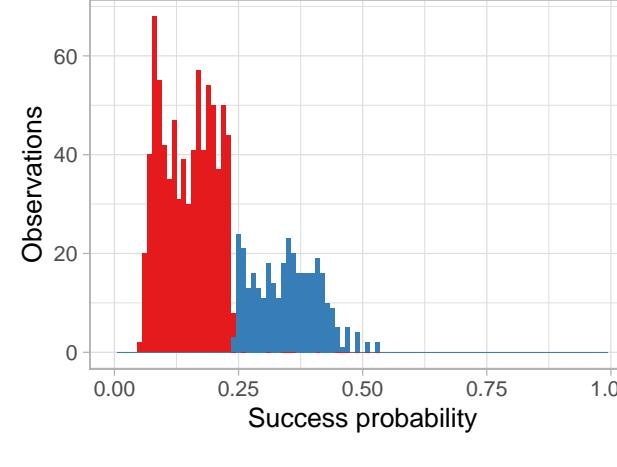
ONLY SNVs (min 150 – max 50000)



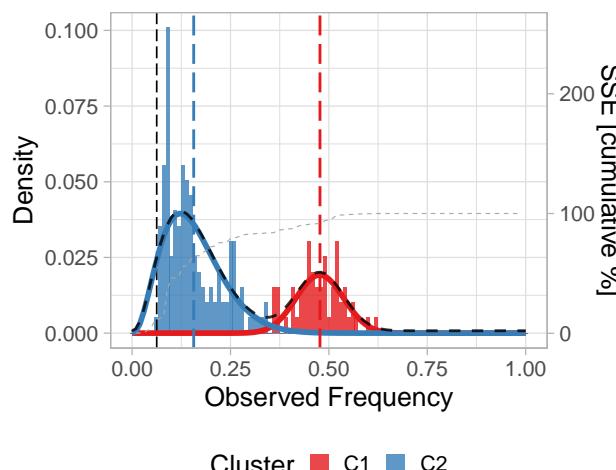
Karyotype: 2:1
N = 1133; Tail 0%, C1 100%



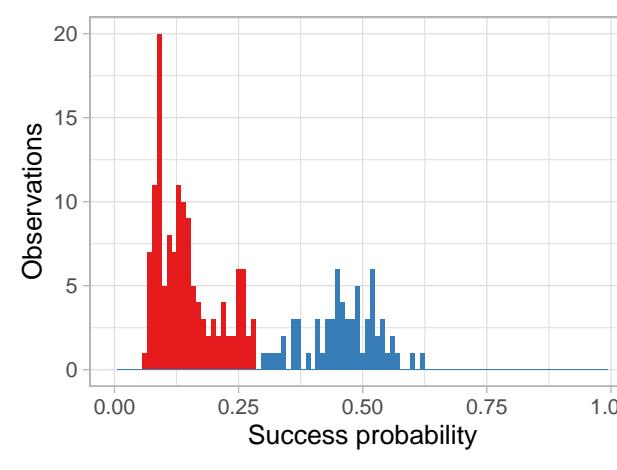
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



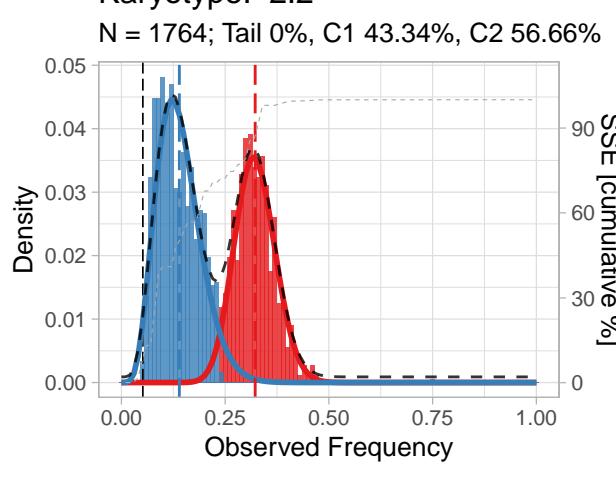
Karyotype: 2:0
N = 198; Tail 0%, C1 28.72%, C2 71.28%



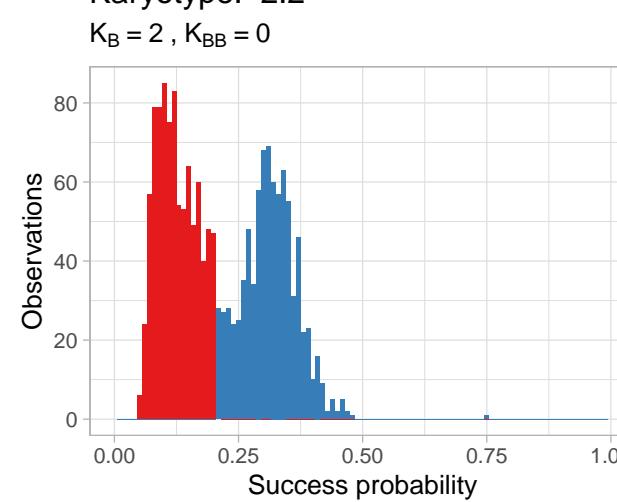
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 1764; Tail 0%, C1 43.34%, C2 56.66%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

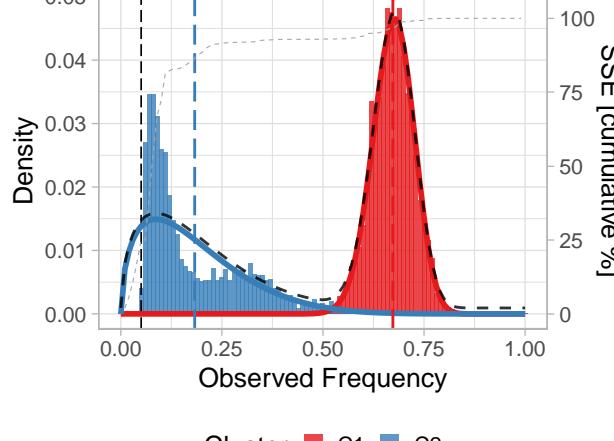


160813_HMFregCPCT_FR12251693_FR12251634_CPCT02100020

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

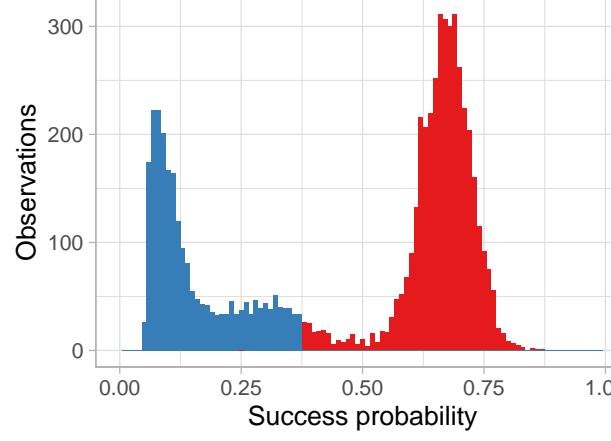
N = 6452; Tail 0%, C2 40.8%, C1 59.2%



MM ($\omega = 35$; $\epsilon = 8e-03$; SSE 2.577e-03) LV > 0

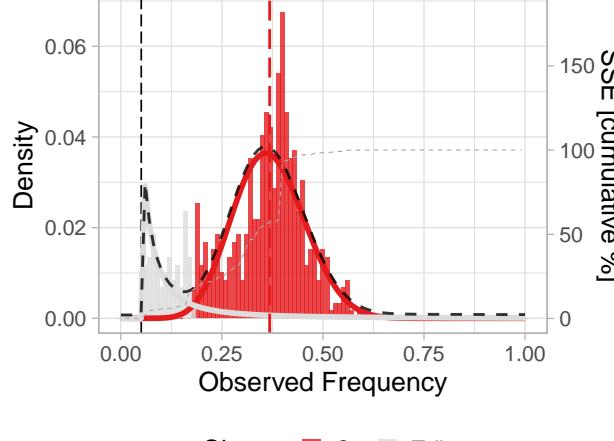
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

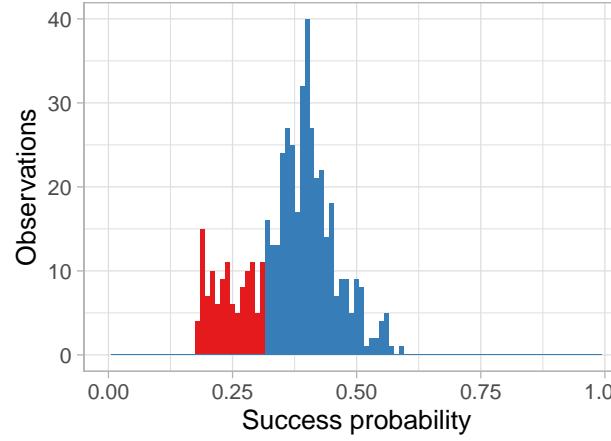
N = 593; Tail 19.17%, C1 80.83%



MM ($\omega = 55$; $\epsilon = 7e-05$; SSE 6.006e-03) LV > 0

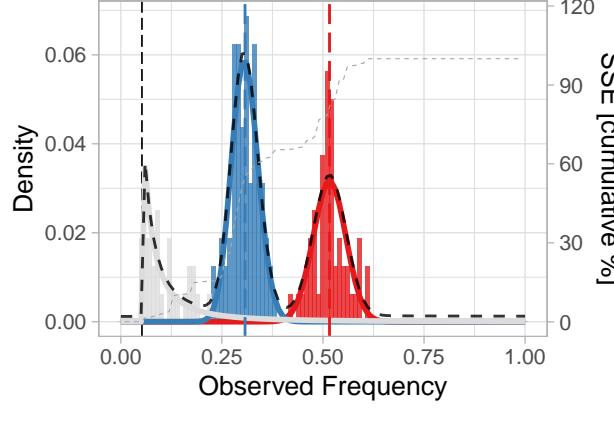
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

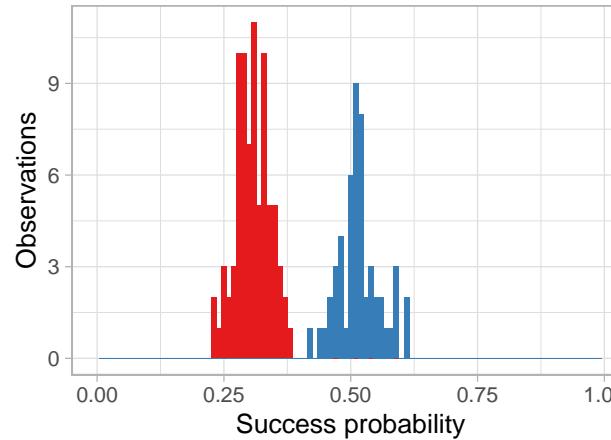
N = 160; Tail 19.61%, C1 31.86%, C2 48.53%



MM ($\omega = 24$; $\epsilon = 2e-06$; SSE 6.171e-03) LV > 0

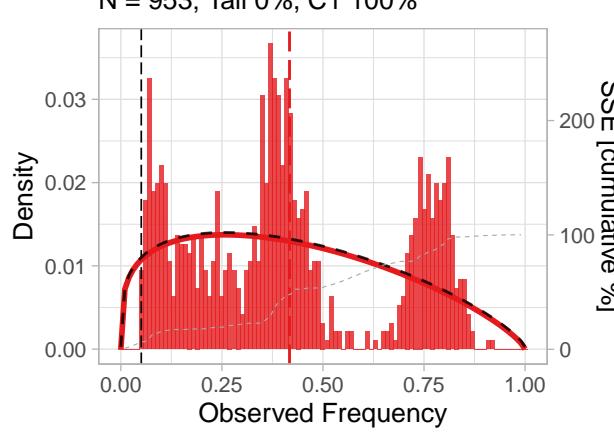
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

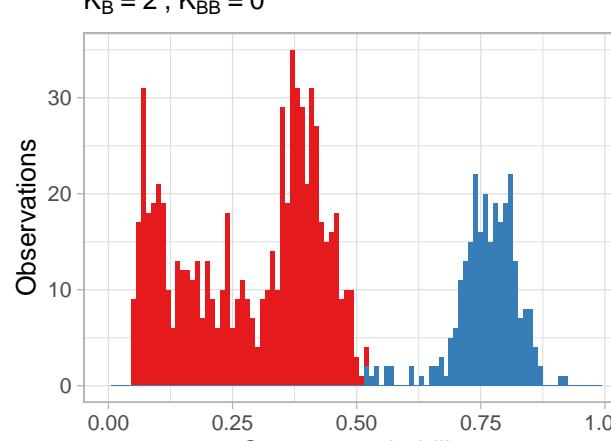
N = 953; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 6.964e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

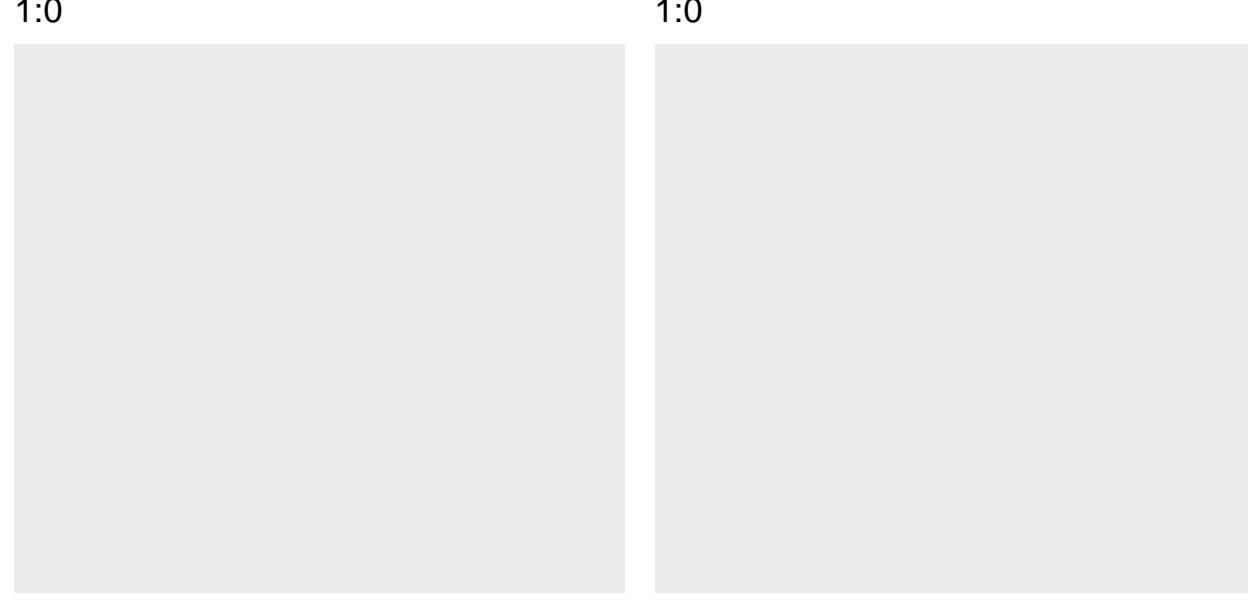


2:2



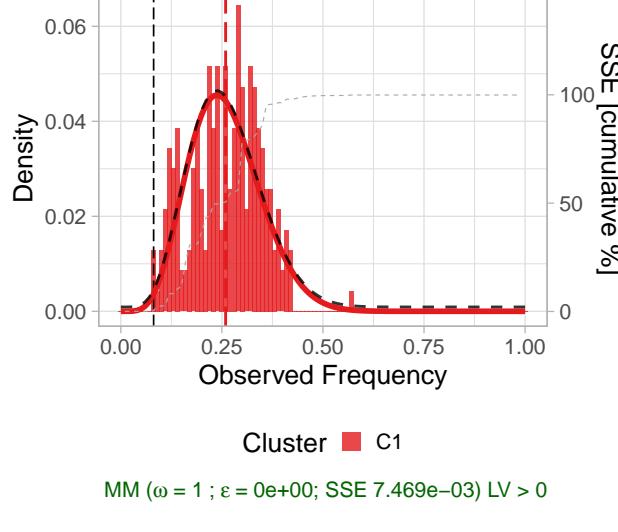
160815_HMFregCPCT_FR12251696_FR12251687_CPCT02100024

ONLY SNVs (min 150 – max 50000)



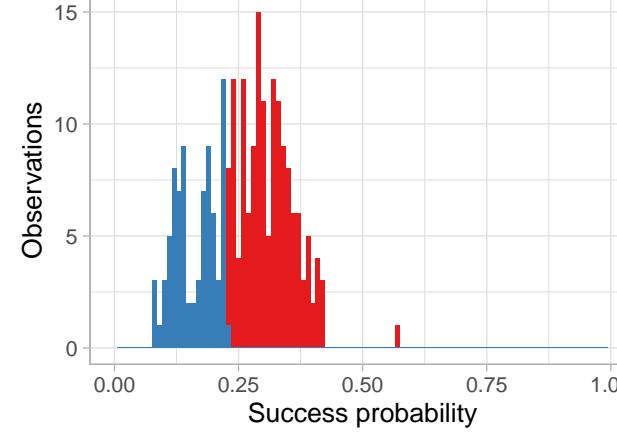
Karyotype: 1:1

N = 233; Tail 0%, C1 100%



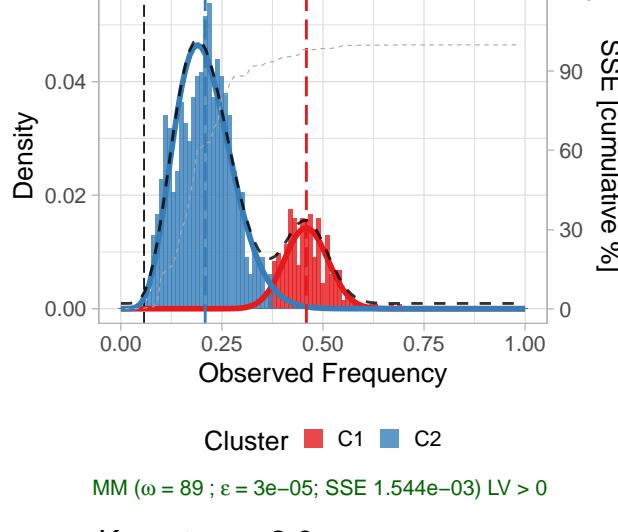
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



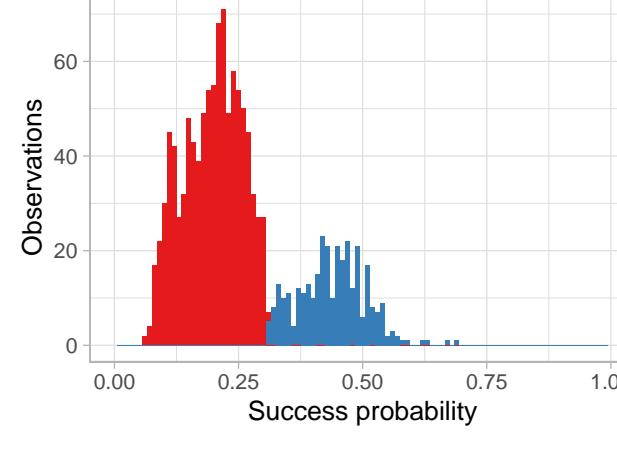
Karyotype: 2:1

N = 1318; Tail 0%, C1 19.12%, C2 80.88%



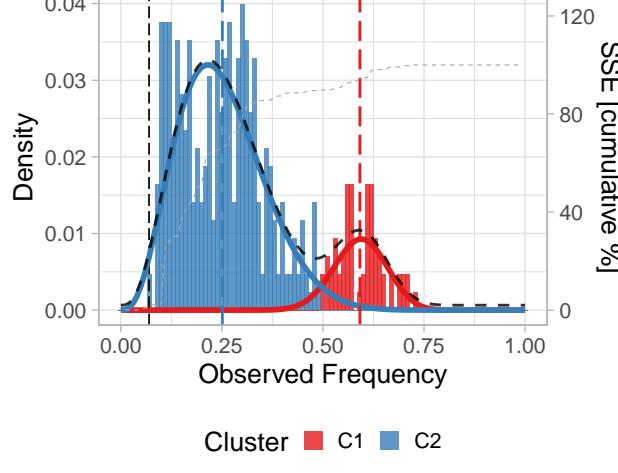
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



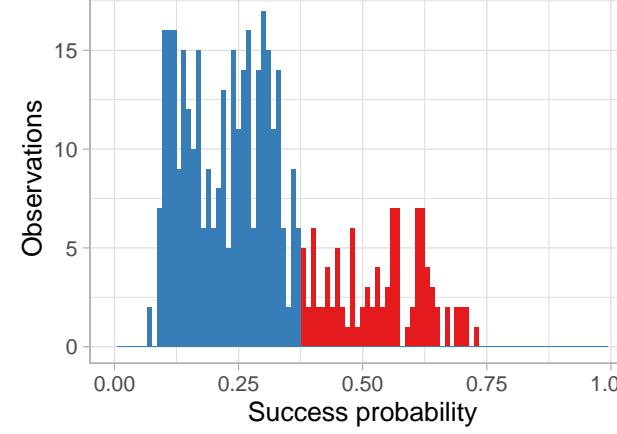
Karyotype: 2:0

N = 426; Tail 0%, C1 15.21%, C2 84.79%



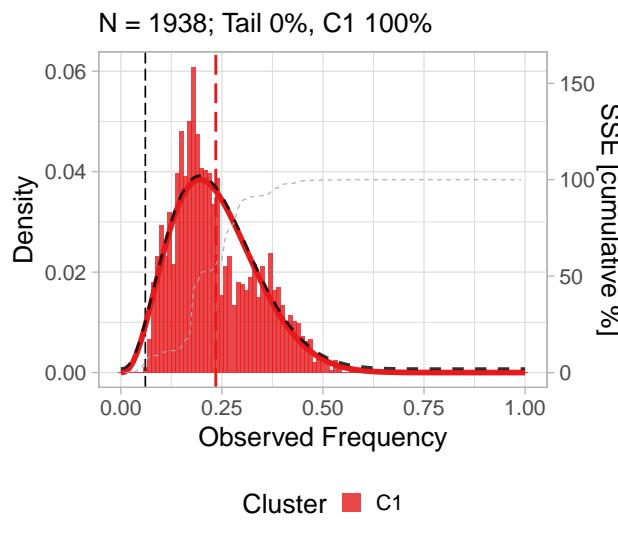
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



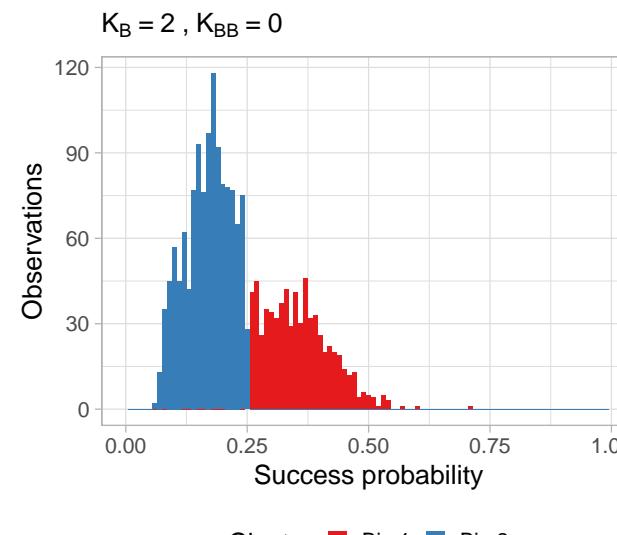
Karyotype: 2:2

N = 1938; Tail 0%, C1 100%



Karyotype: 2:2

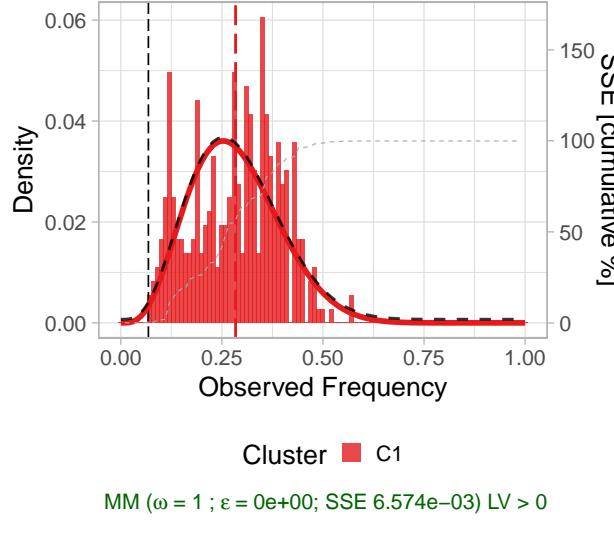
$K_B = 2$, $K_{BB} = 0$



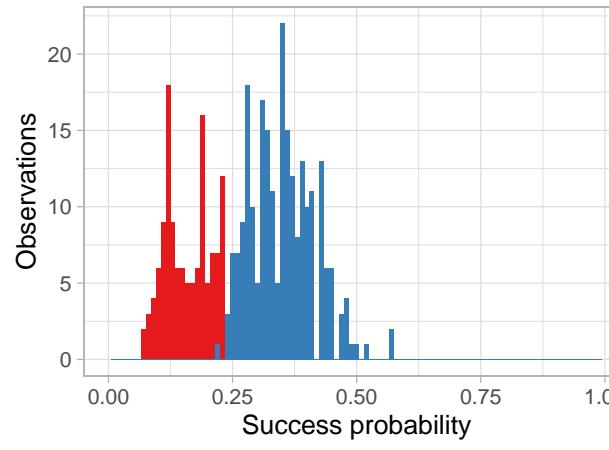
160815_HMFregCPCT_FR12254126_FR12251673_CPCT02100023

ONLY SNVs (min 150 – max 50000)

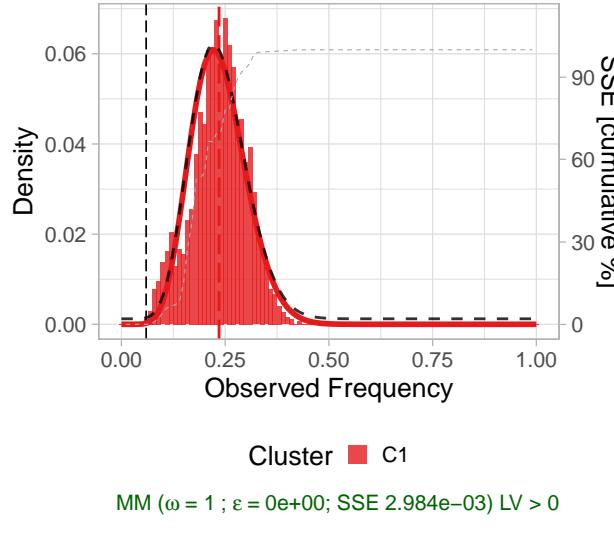
Karyotype: 1:0
N = 363; Tail 0%, C1 100%



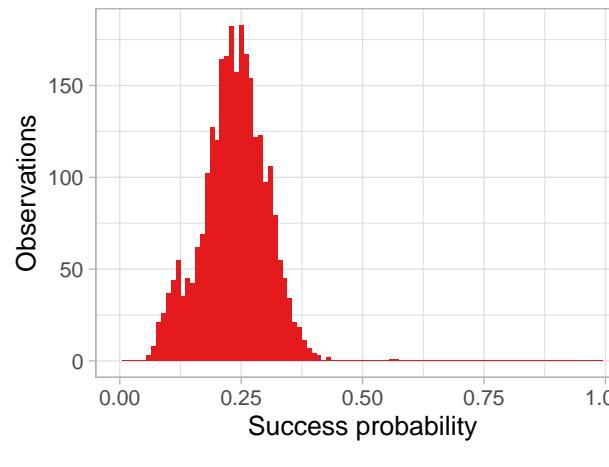
Karyotype: 1:0
 $K_B = 2$, $K_{BB} = 0$



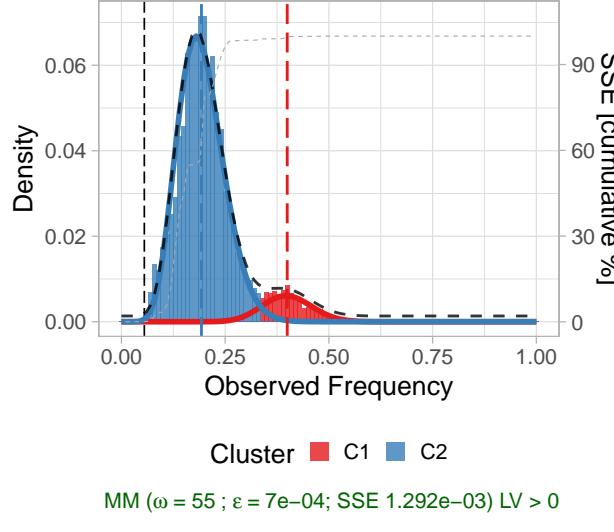
Karyotype: 1:1
N = 2698; Tail 0%, C1 100%



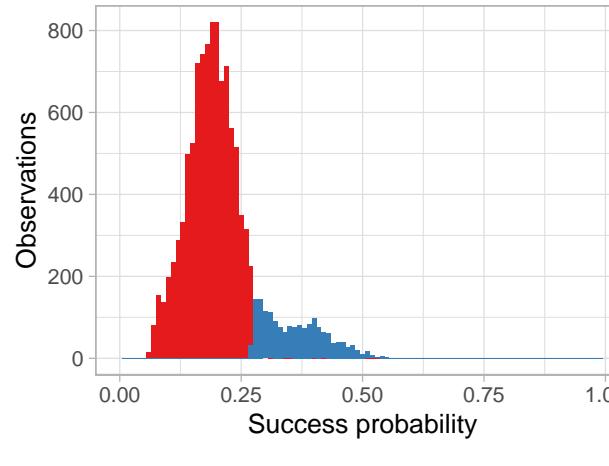
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



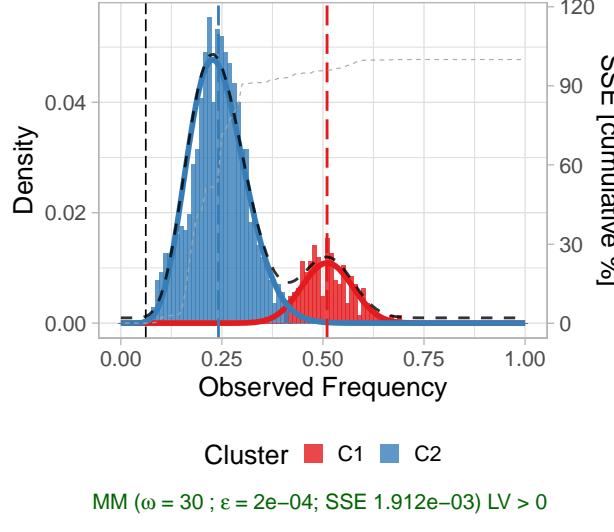
Karyotype: 2:1
N = 11461; Tail 0%, C1 8.95%, C2 91.05%



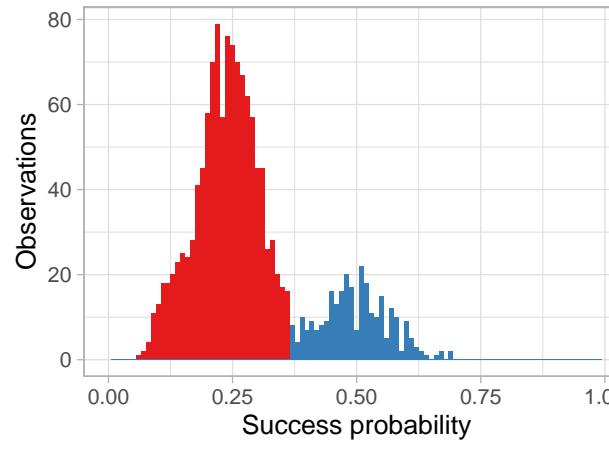
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



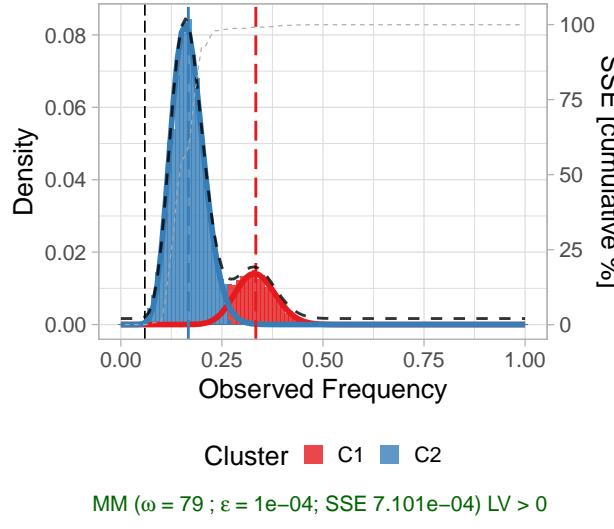
Karyotype: 2:0
N = 1426; Tail 0%, C1 17.06%, C2 82.94%



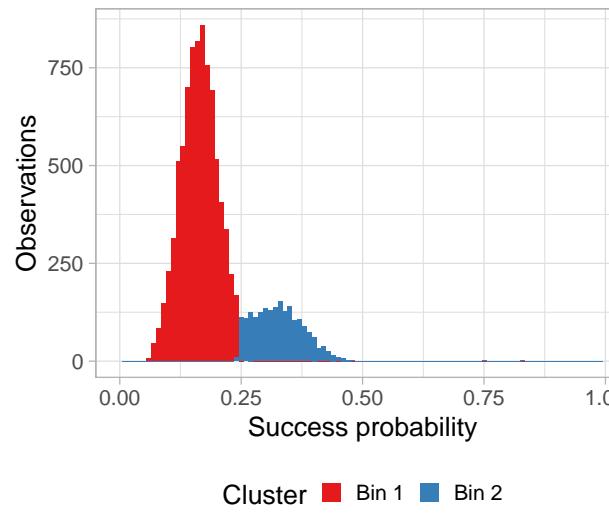
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 10172; Tail 0%, C1 17.37%, C2 82.63%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

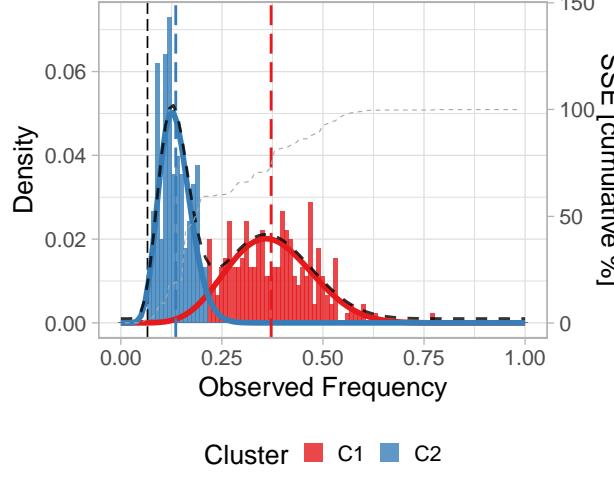


160827_HMFregCPCT_FR10302717_FR12251692_CPCT02030262

ONLY SNVs (min 150 – max 50000)

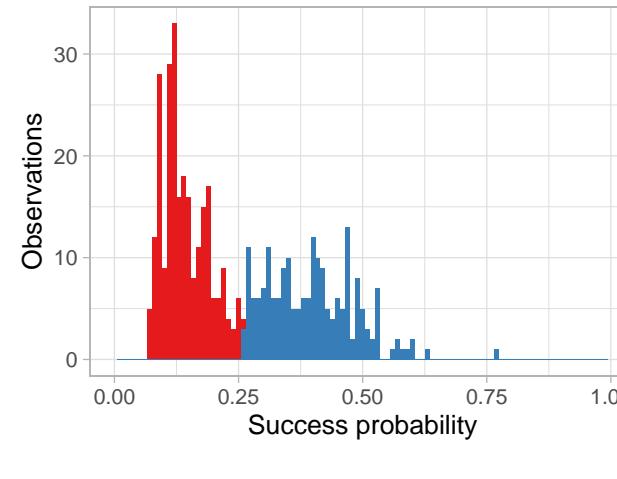
Karyotype: 1:0

N = 452; Tail 0%, C2 47.65%, C1 52.35%



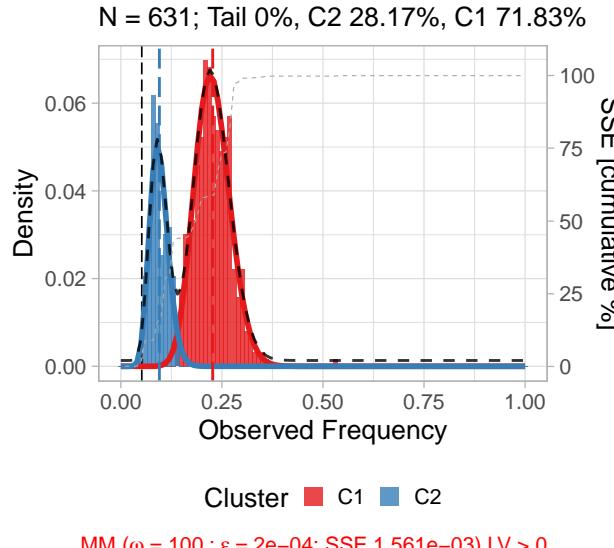
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



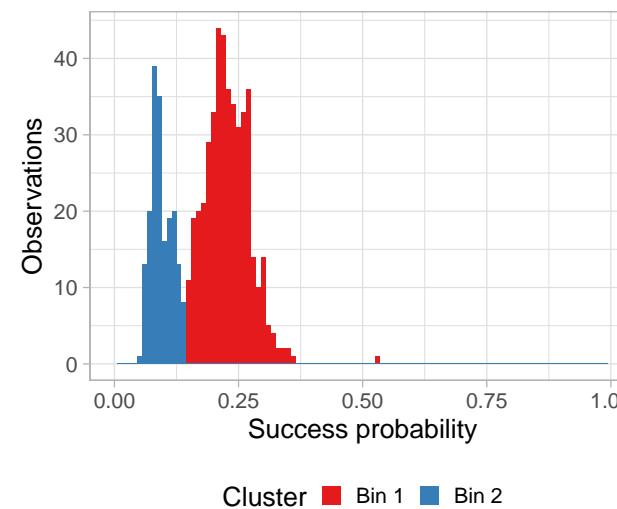
Karyotype: 1:1

N = 631; Tail 0%, C2 28.17%, C1 71.83%



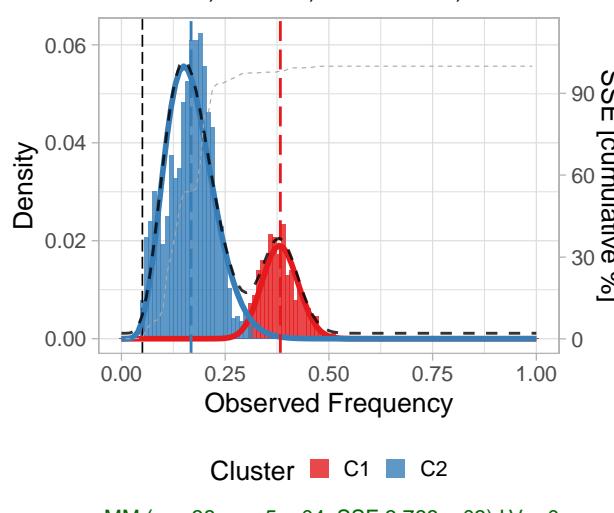
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



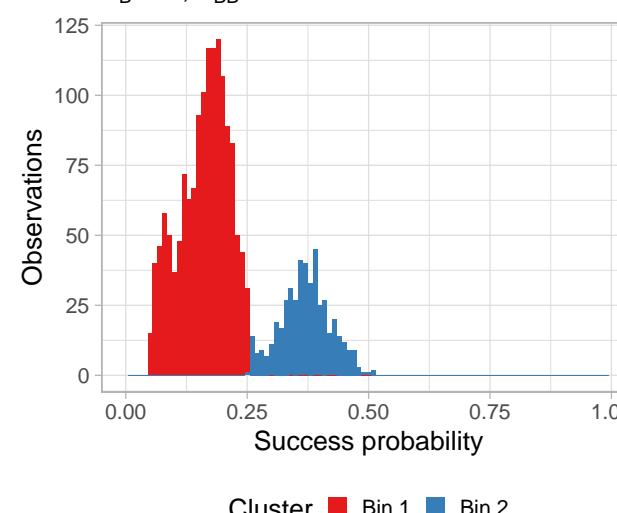
Karyotype: 2:1

N = 1922; Tail 0%, C1 20.51%, C2 79.49%



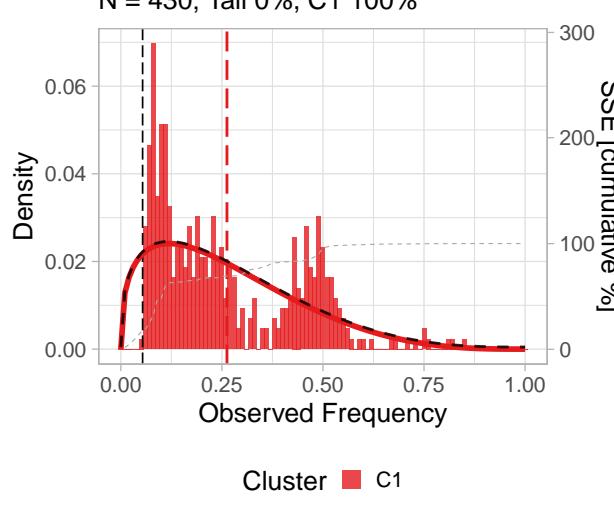
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



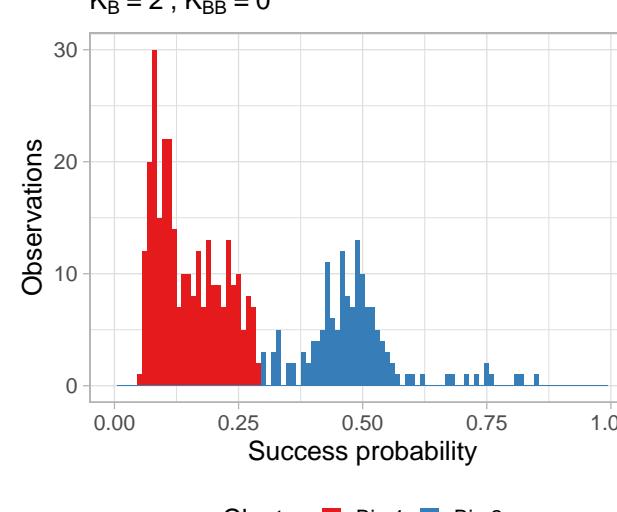
Karyotype: 2:0

N = 430; Tail 0%, C1 100%



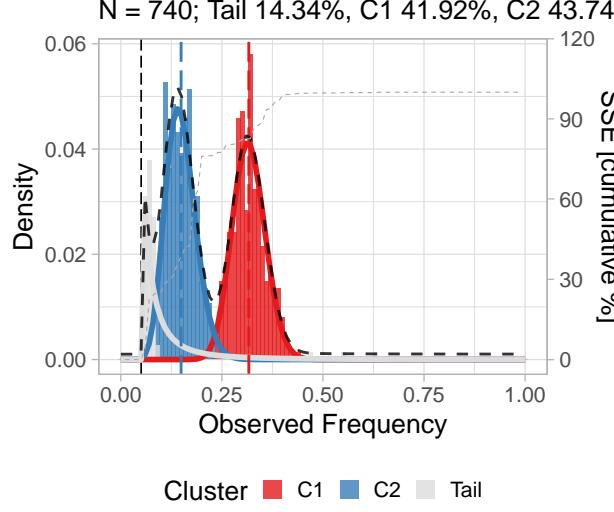
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



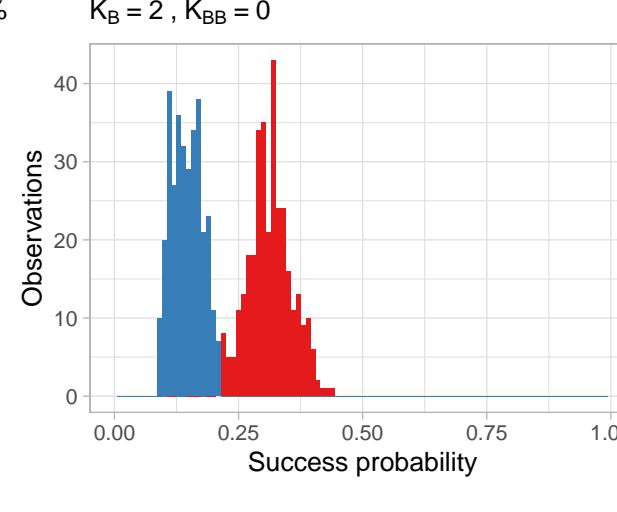
Karyotype: 2:2

N = 740; Tail 14.34%, C1 41.92%, C2 43.74%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



MM ($\omega = 100$; $\epsilon = 2e-02$; SSE 2.139e-03) LV > 0

MM ($\omega = 100$; $\epsilon = 2e-04$; SSE 1.561e-03) LV > 0

MM ($\omega = 38$; $\epsilon = 5e-04$; SSE 3.766e-03) LV > 0

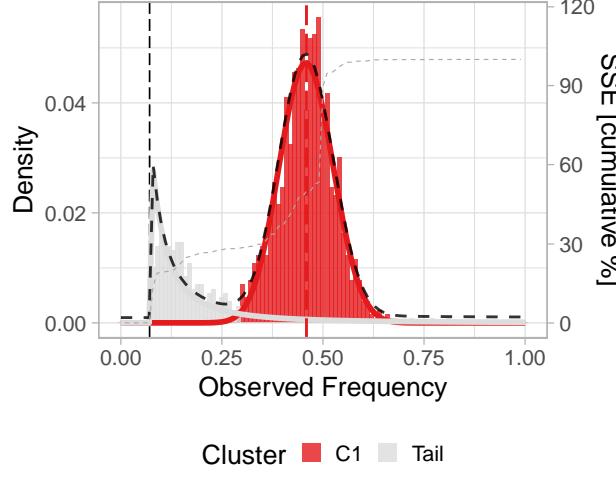
MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.005e-02) LV > 0

MM ($\omega = 76$; $\epsilon = 1e-05$; SSE 1.283e-03) LV > 0

160827_HMFregCPCT_FR12251681_FR12254251_CPCT02030257

ONLY SNVs (min 150 – max 50000)

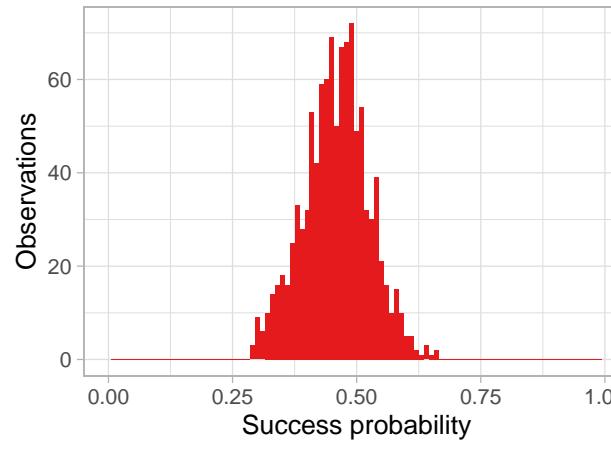
Karyotype: 1:0
N = 1295; Tail 21.65%, C1 78.35%



MM ($\omega = 16$; $\epsilon = 2e-05$; SSE 2.634e-03) LV > 0

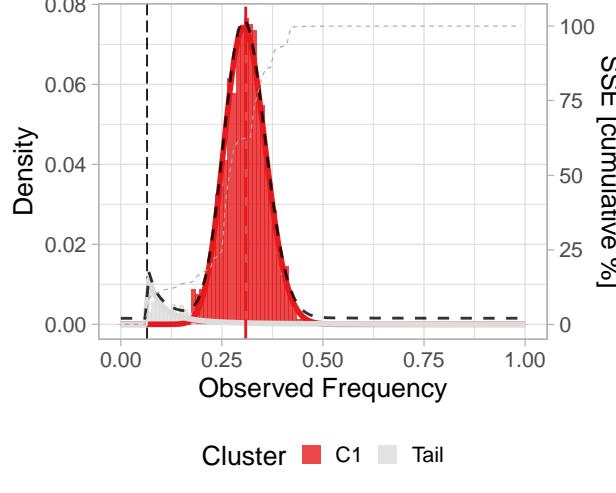
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

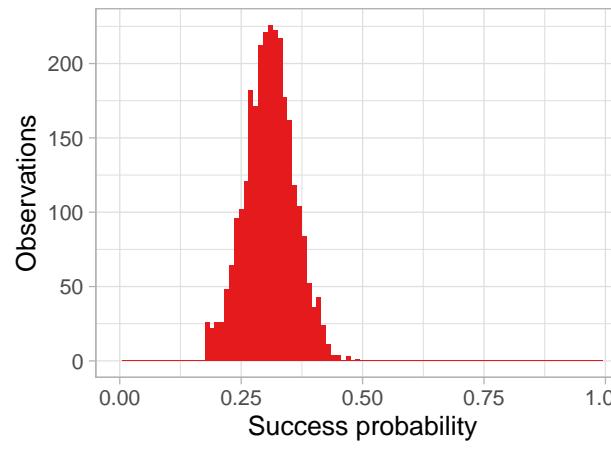
Karyotype: 1:1
N = 2955; Tail 6.34%, C1 93.66%



MM ($\omega = 19$; $\epsilon = 1e-04$; SSE 1.072e-03) LV > 0

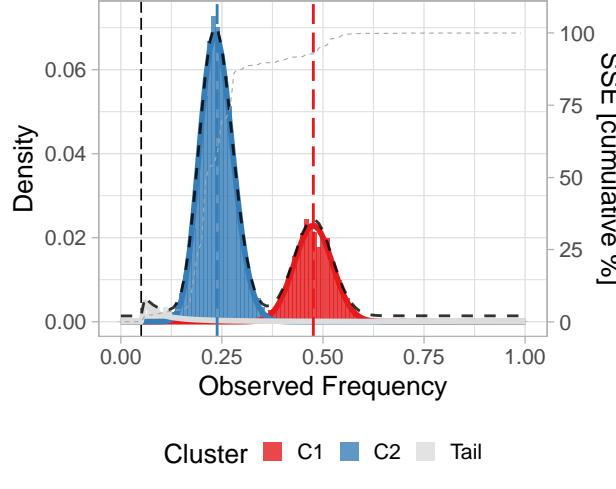
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

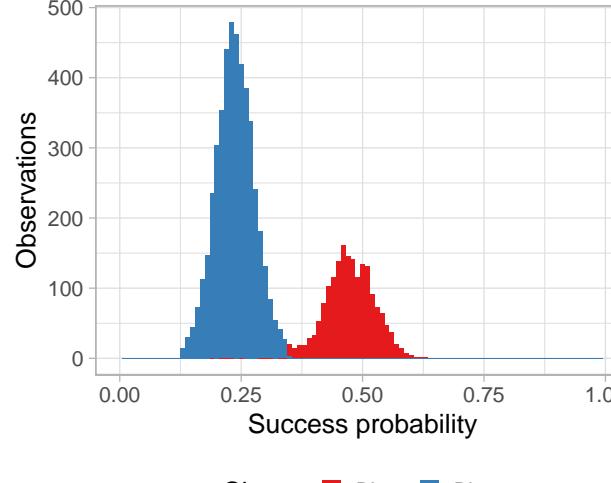
Karyotype: 2:1
N = 6580; Tail 3.34%, C1 26.93%, C2 69.73%



MM ($\omega = 22$; $\epsilon = 1e-04$; SSE 6.484e-04) LV > 0

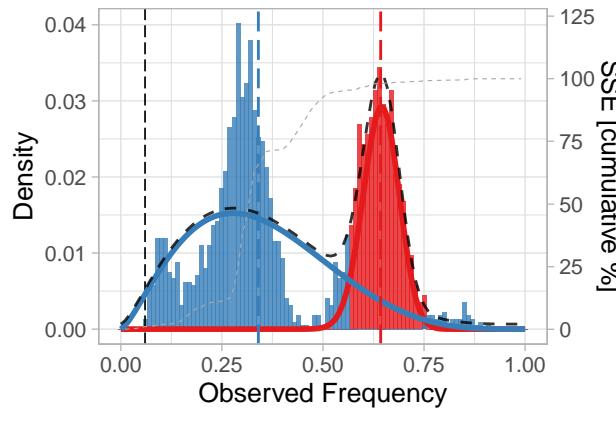
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

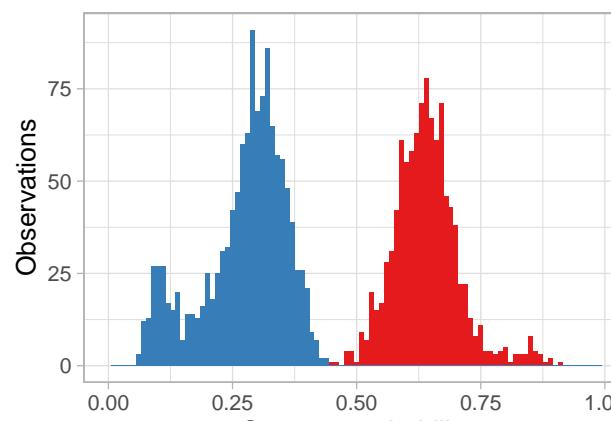
Karyotype: 2:0
N = 2264; Tail 0%, C1 32.5%, C2 67.5%



MM ($\omega = 100$; $\epsilon = 2e-03$; SSE 3.992e-03) LV > 0

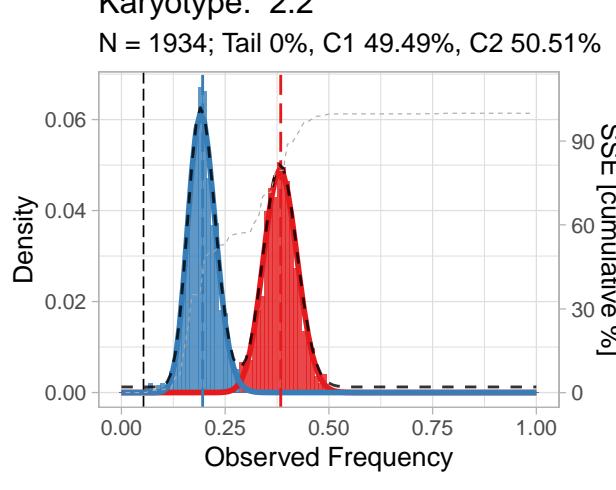
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

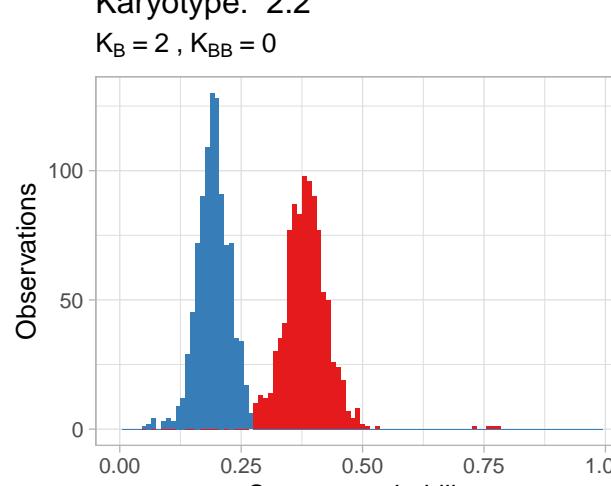
Karyotype: 2:2
N = 1934; Tail 0%, C1 49.49%, C2 50.51%



MM ($\omega = 28$; $\epsilon = 5e-06$; SSE 7.141e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



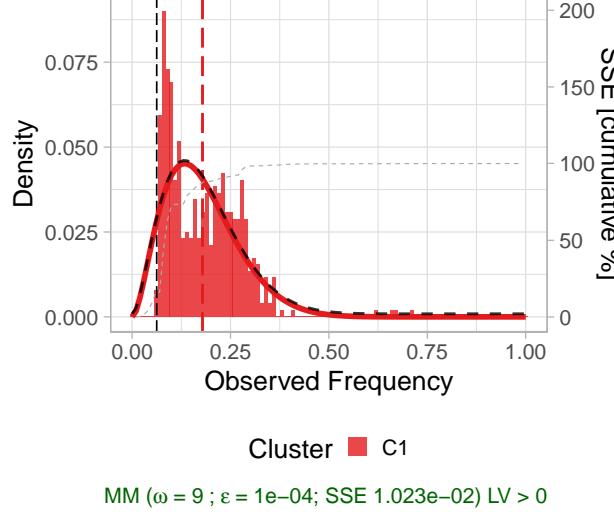
Cluster ■ Bin 1 ■ Bin 2

160829_HMFregCPCT_FR10302727_FR12251684_CPCT02080027

ONLY SNVs (min 150 – max 50000)

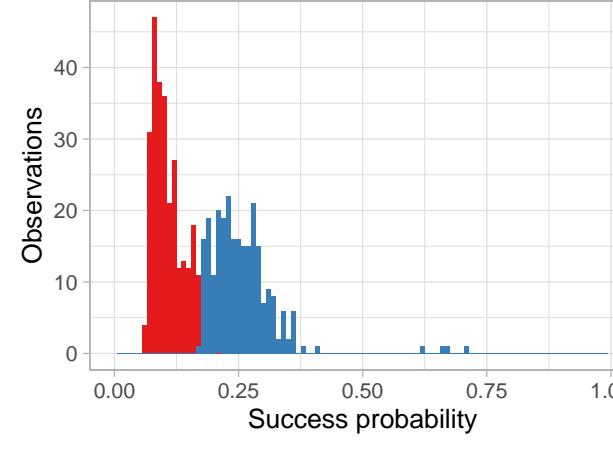
Karyotype: 1:0

N = 522; Tail 0%, C1 100%



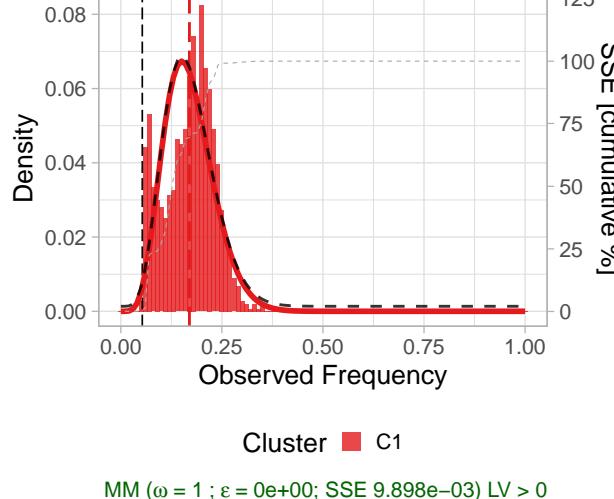
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



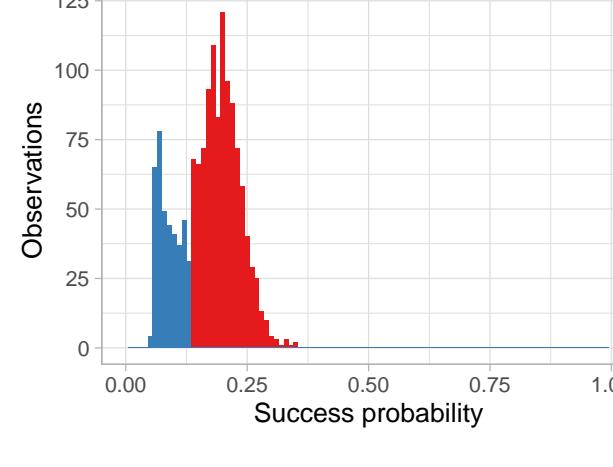
Karyotype: 1:1

N = 1469; Tail 0%, C1 100%



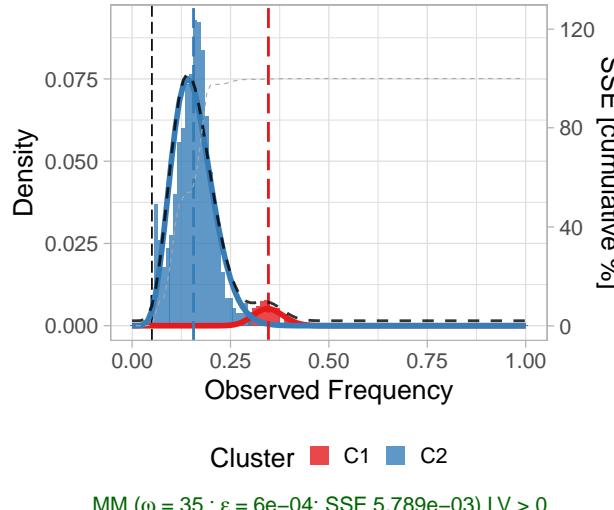
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



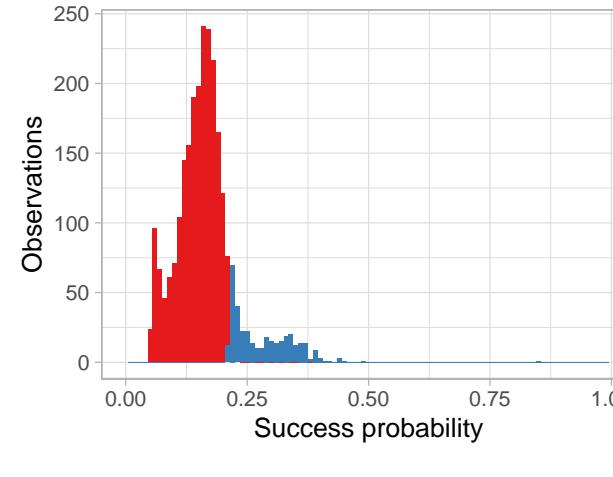
Karyotype: 2:1

N = 2593; Tail 0%, C1 4.9%, C2 95.1%



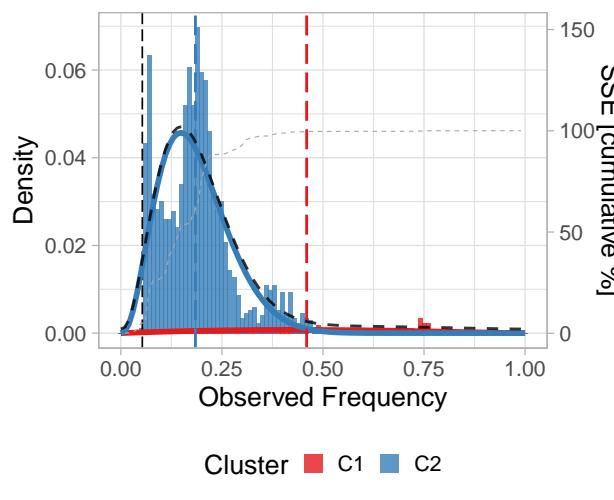
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



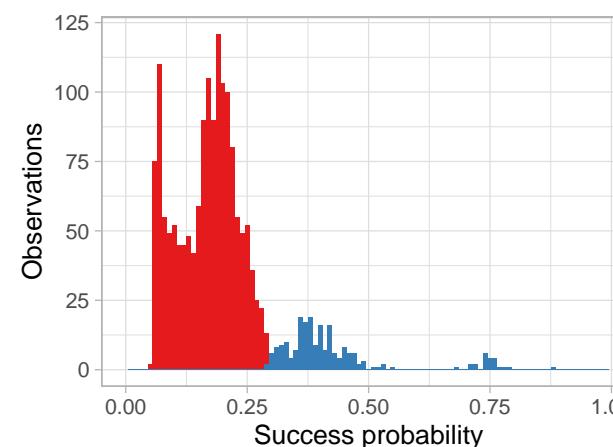
Karyotype: 2:0

N = 1735; Tail 0%, C1 4.63%, C2 95.37%



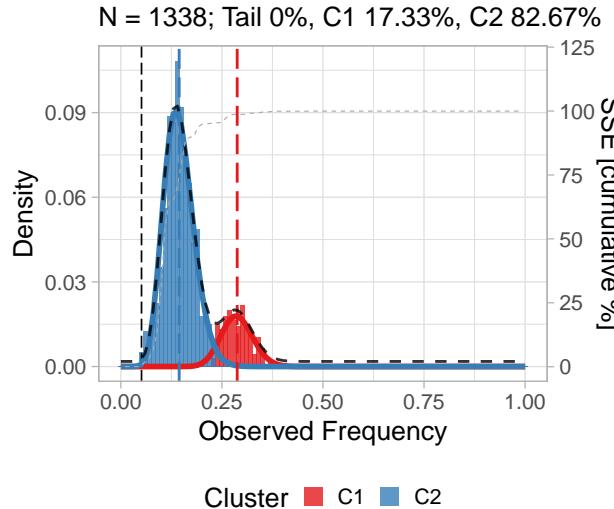
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



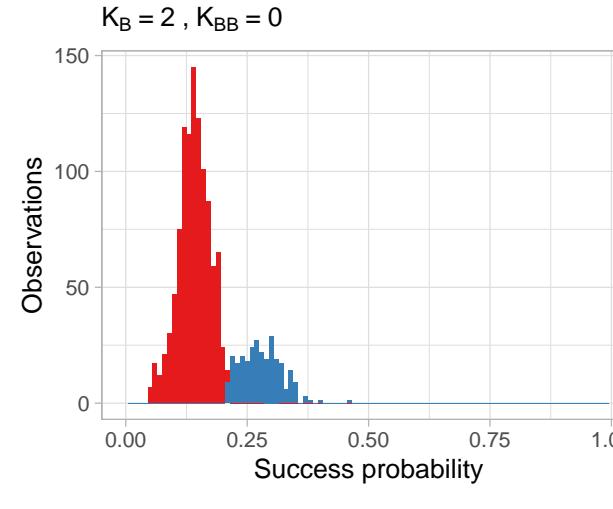
Karyotype: 2:2

N = 1338; Tail 0%, C1 17.33%, C2 82.67%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

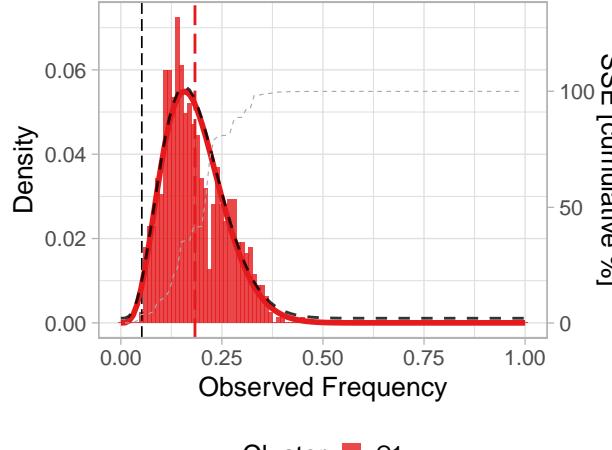


160830_HMFregCPCT_FR03631915_FR12251706_CPCT02140010

ONLY SNVs (min 150 – max 50000)

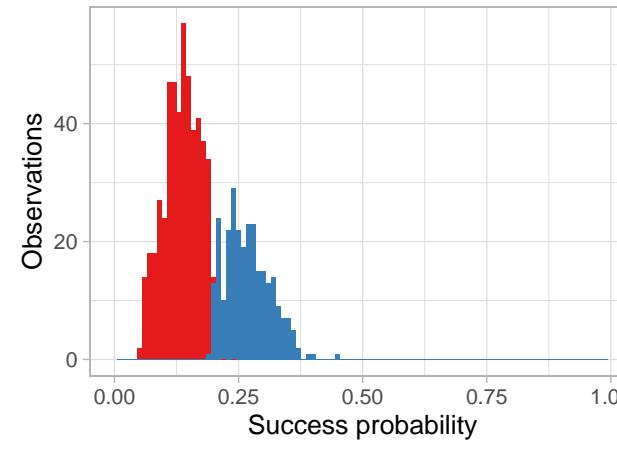
Karyotype: 1:0

N = 786; Tail 0%, C1 100%



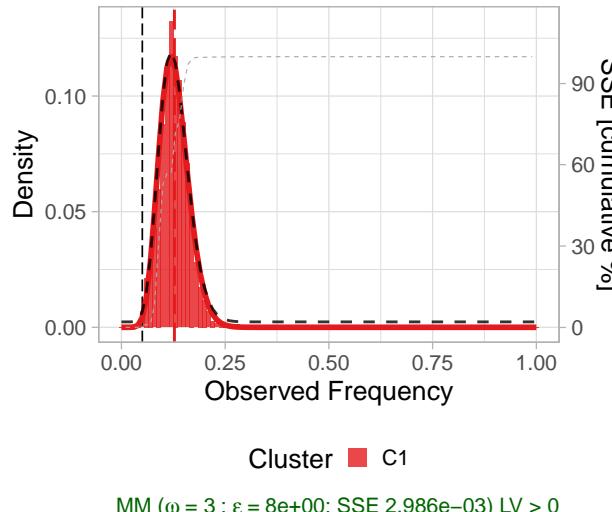
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



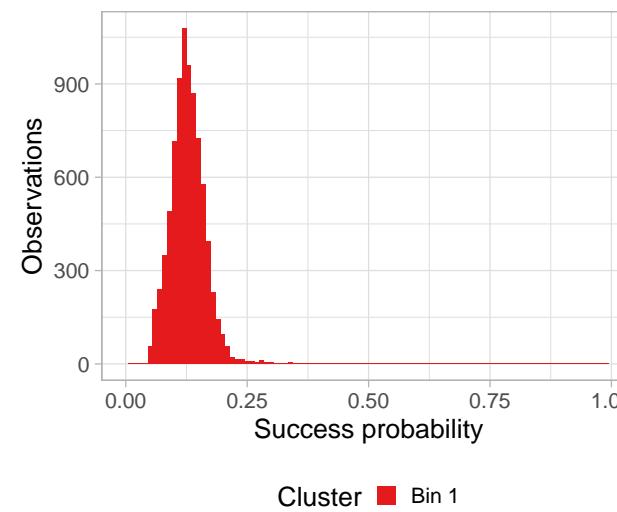
Karyotype: 1:1

N = 8168; Tail 0%, C1 100%



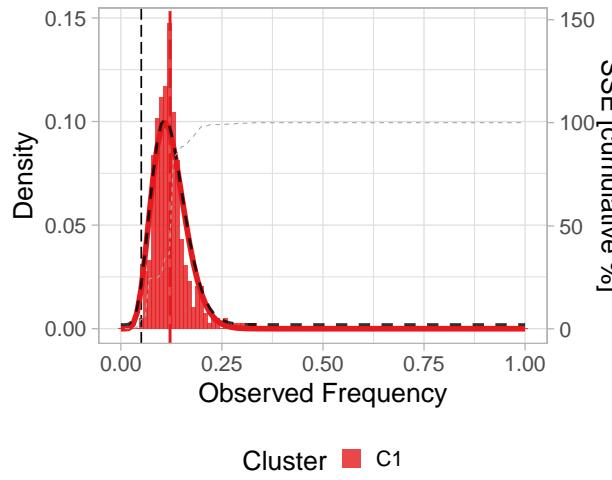
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



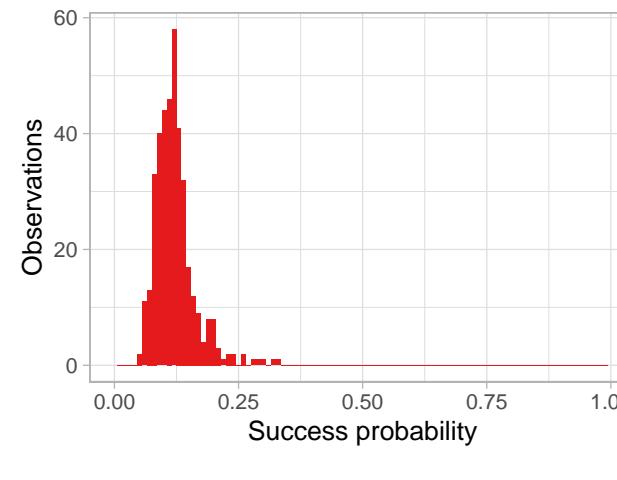
Karyotype: 2:1

N = 393; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$



2:0

2:0

2:2

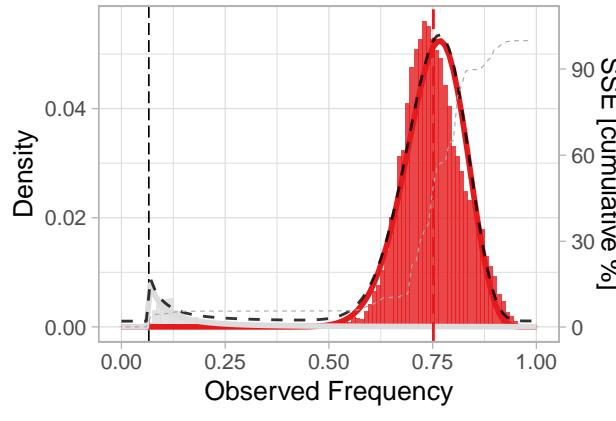
2:2

160830_HMFregCPCT_FR10302546_FR10304567_CPCT02050045

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

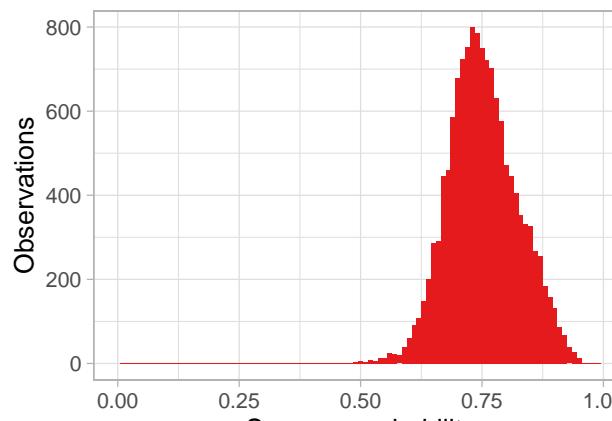
N = 14258; Tail 5.38%, C1 94.62%



MM ($\omega = 13$; $\epsilon = 5e-03$; SSE $1.675e-03$) LV > 0

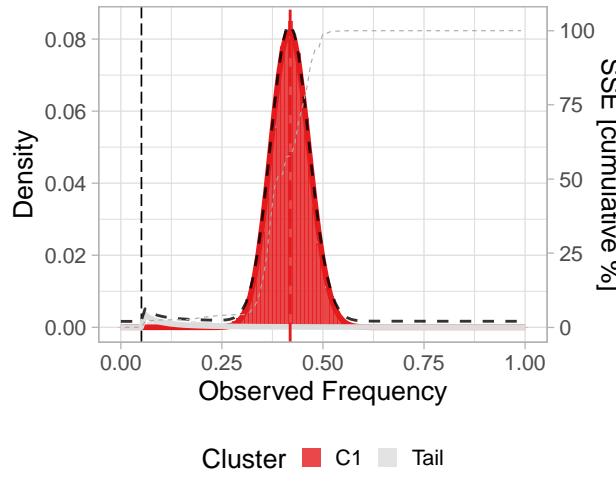
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

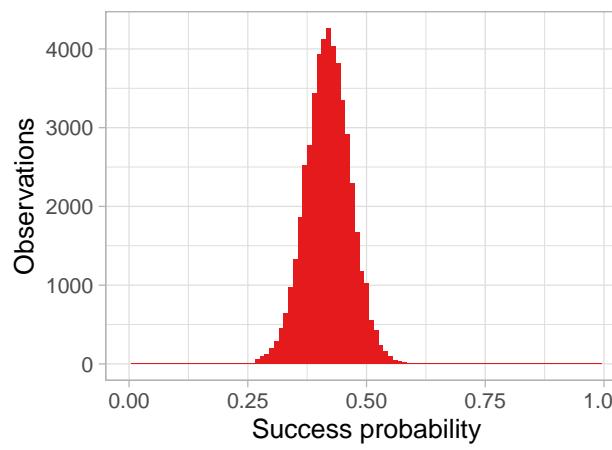
N = 50271; Tail 3.1%, C1 96.9%



MM ($\omega = 9$; $\epsilon = 1e-03$; SSE $5.534e-04$) LV > 0

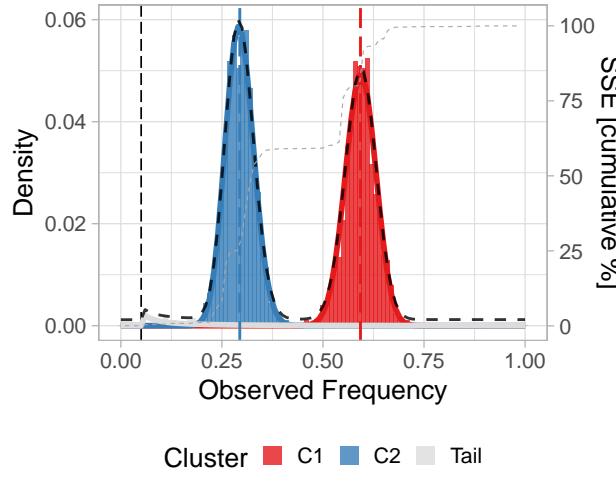
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

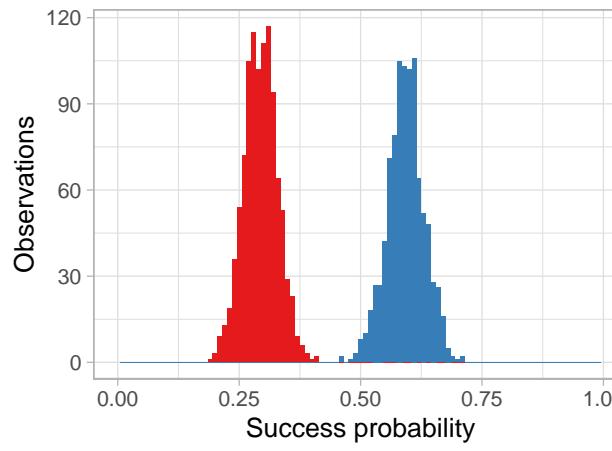
N = 2022; Tail 2.02%, C1 46.75%, C2 51.23%



MM ($\omega = 18$; $\epsilon = 5e-05$; SSE $7.925e-04$) LV > 0

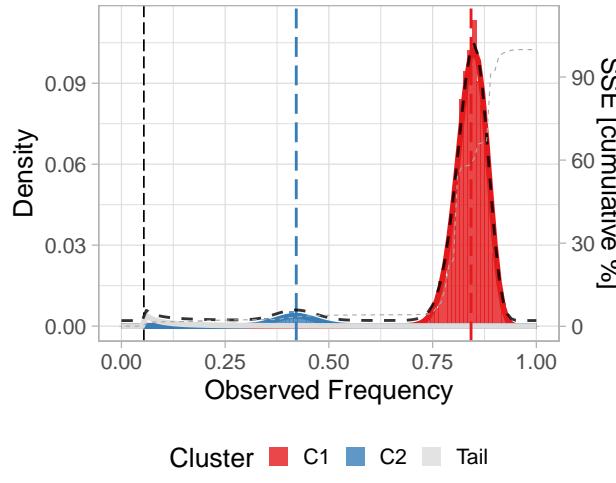
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

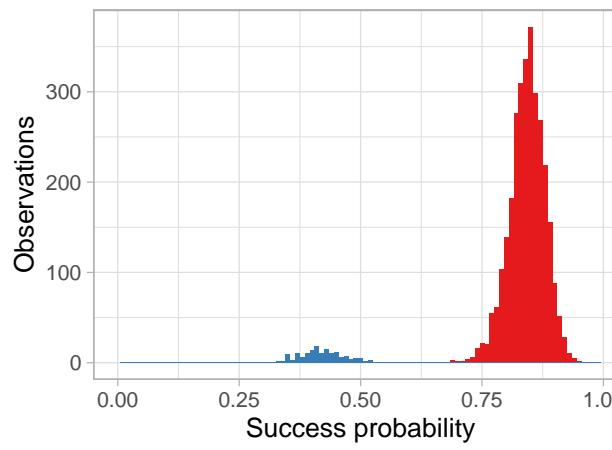
N = 3283; Tail 2.98%, C2 4.59%, C1 92.43%



MM ($\omega = 38$; $\epsilon = 1e-06$; SSE $8.434e-04$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

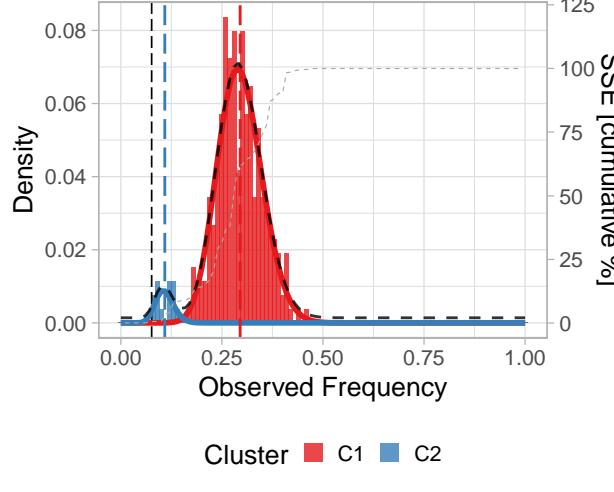
2:2

160830_HMFregCPCT_FR10302709_FR10304575_CPCT02020353

ONLY SNVs (min 150 – max 50000)

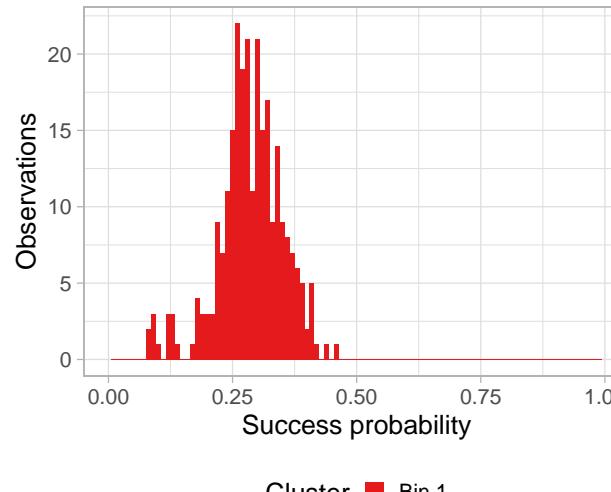
Karyotype: 1:0

N = 263; Tail 0%, C2 4.92%, C1 95.08%



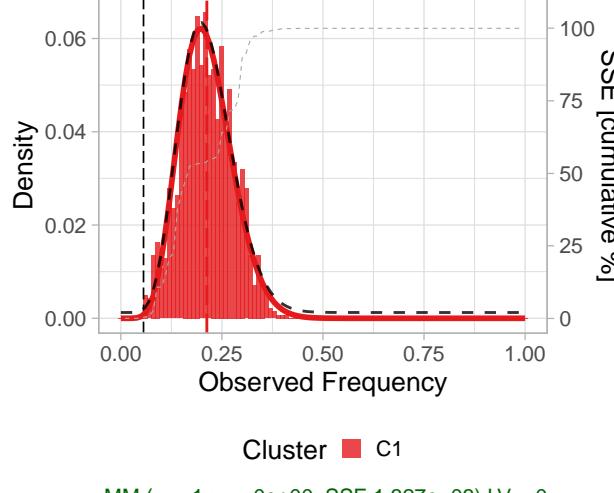
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



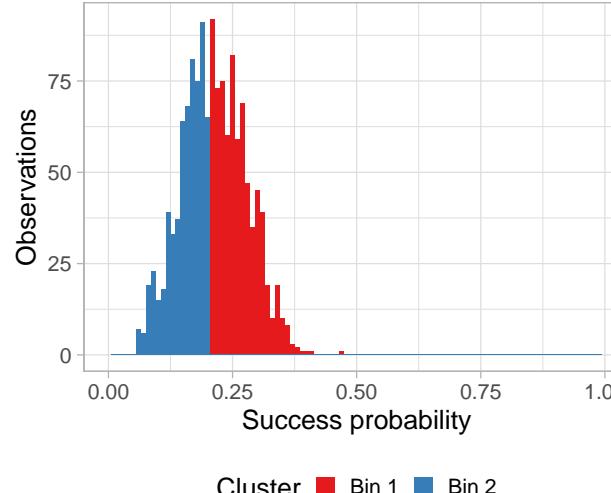
Karyotype: 1:1

N = 1403; Tail 0%, C1 100%



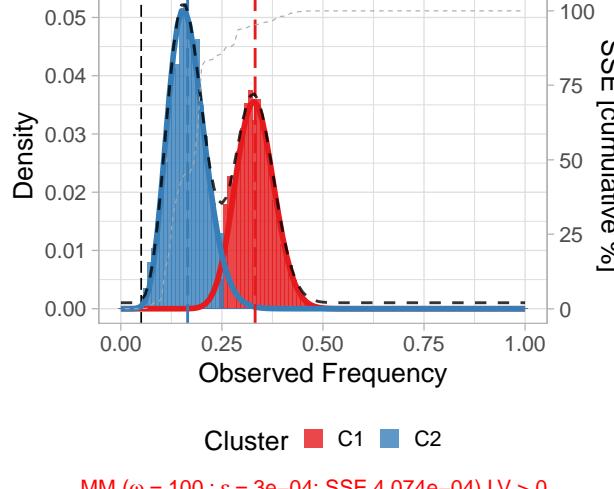
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



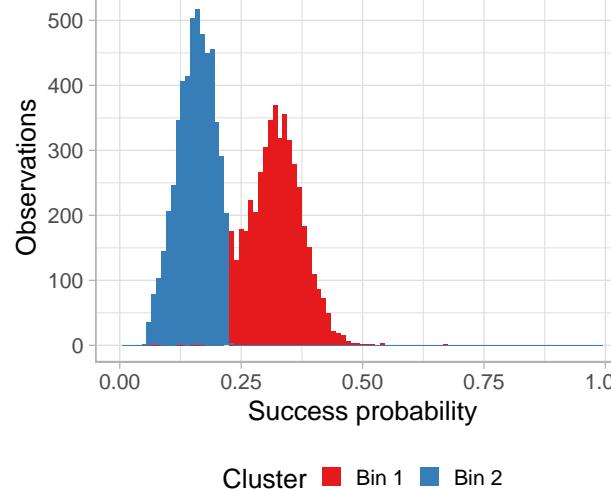
Karyotype: 2:1

N = 9848; Tail 0%, C1 42.12%, C2 57.88%



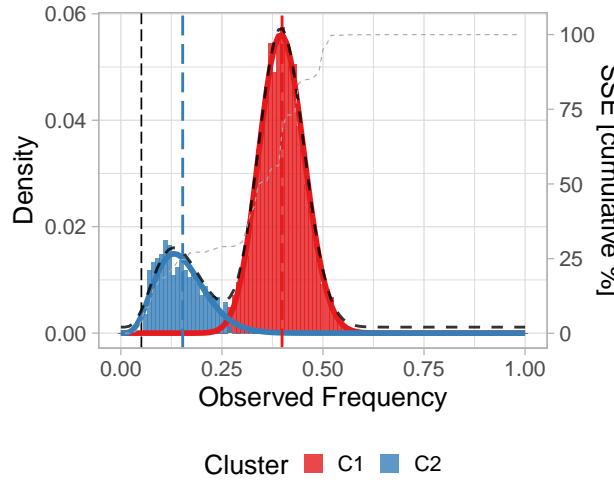
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



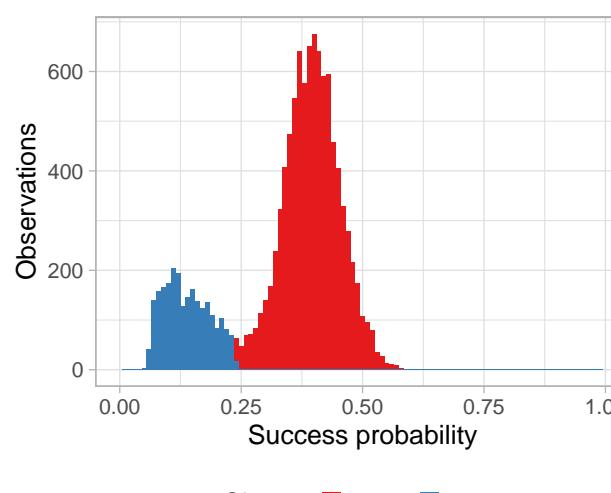
Karyotype: 2:0

N = 11765; Tail 0%, C2 22.06%, C1 77.94%



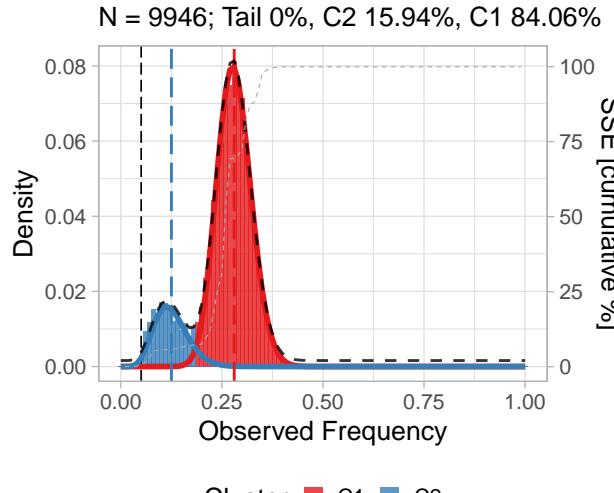
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



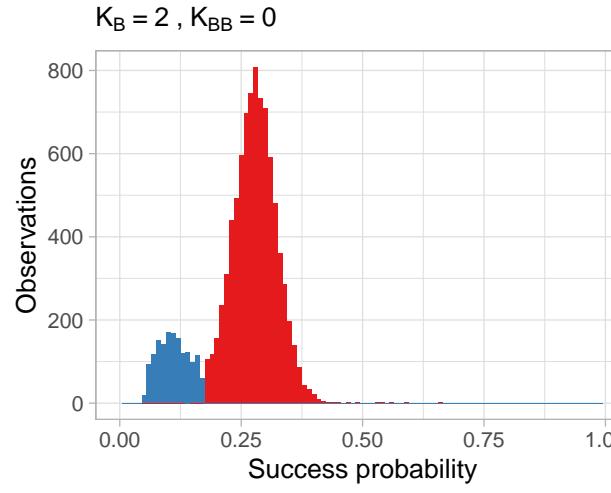
Karyotype: 2:2

N = 9946; Tail 0%, C2 15.94%, C1 84.06%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

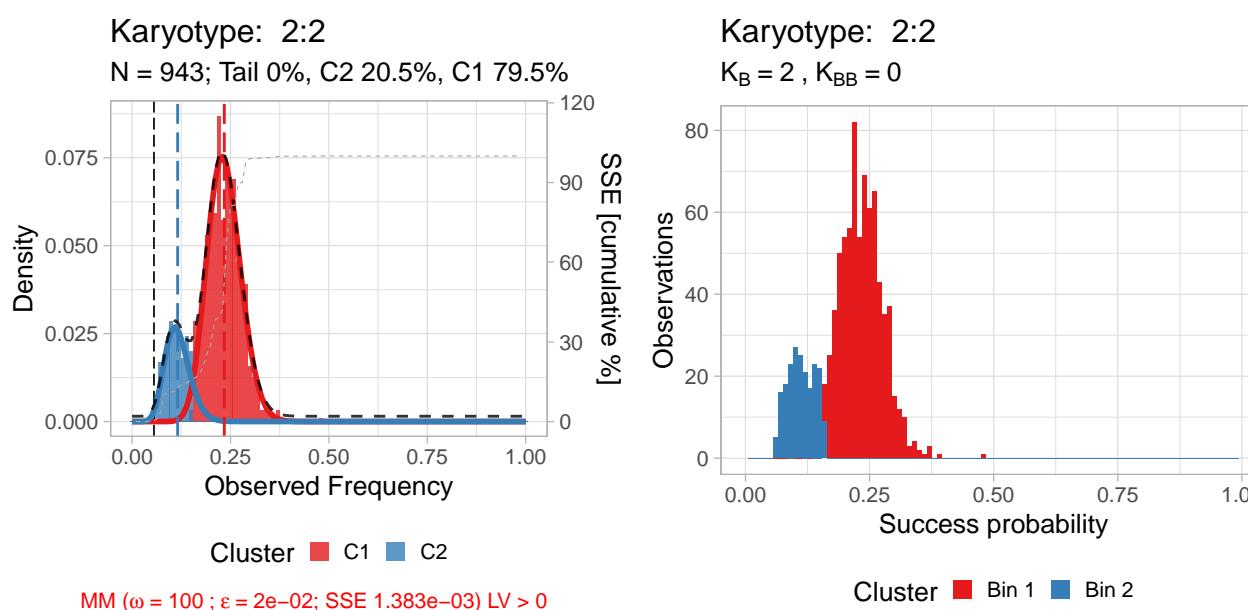
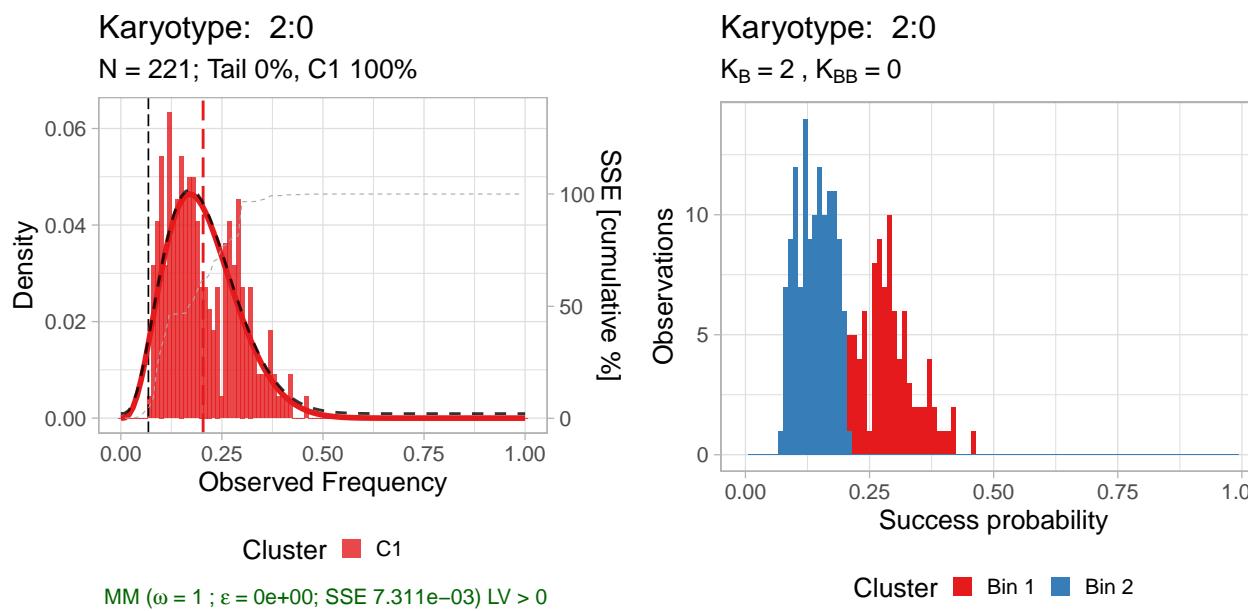
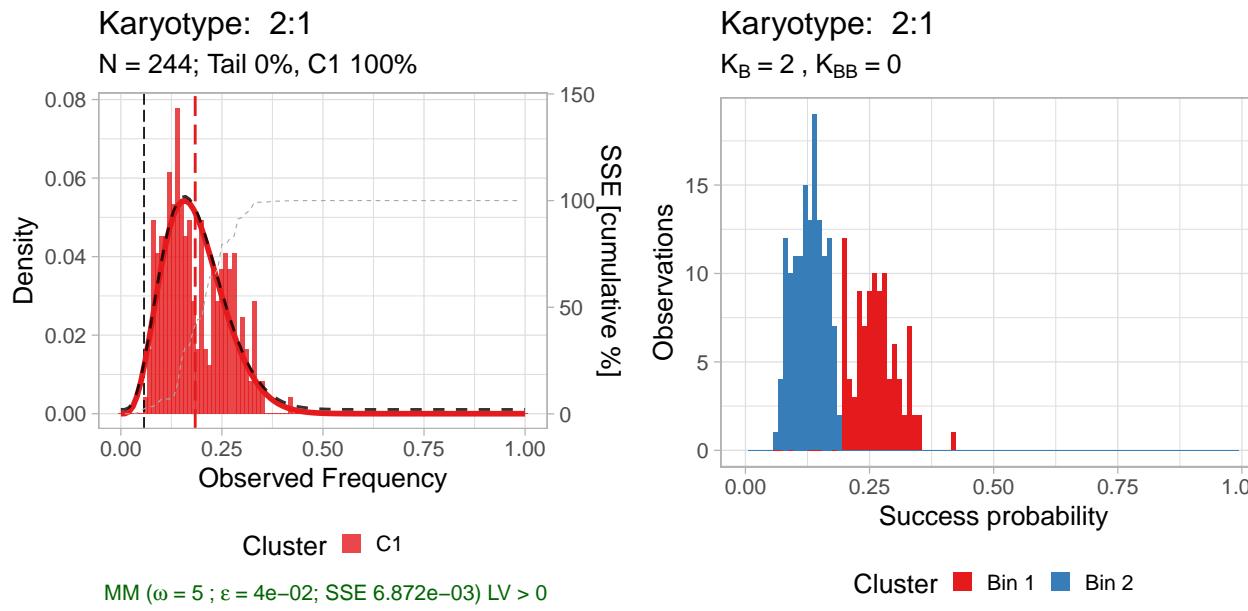
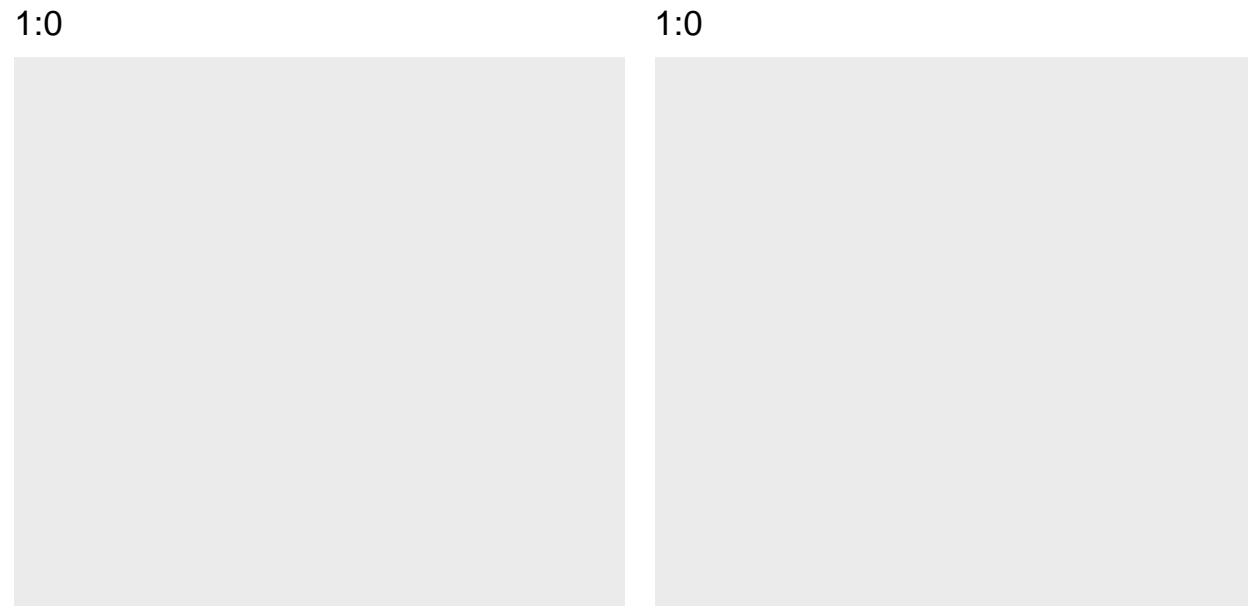


MM ($\omega = 100$; $\epsilon = 2e-02$; SSE 5.810e-04) LV > 0

Cluster Bin 1 Bin 2

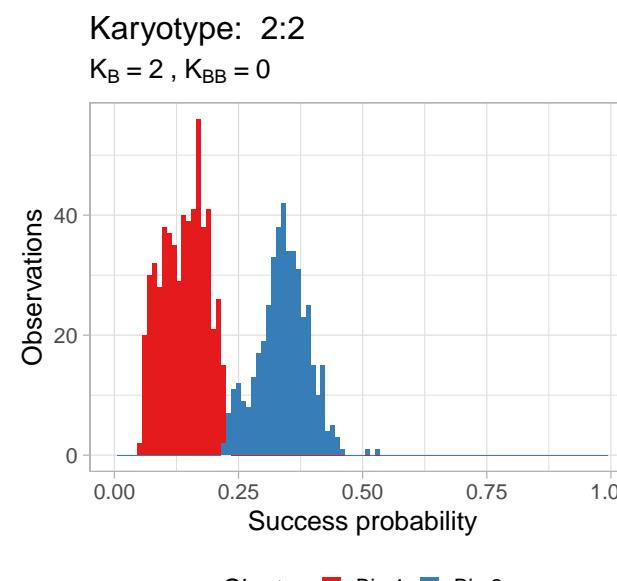
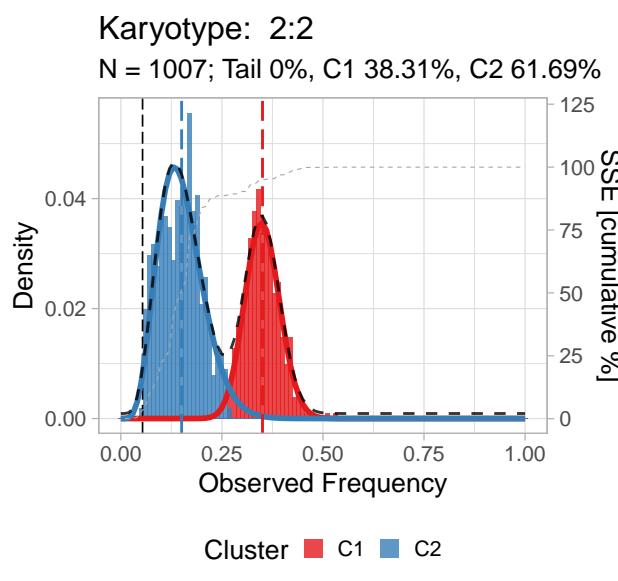
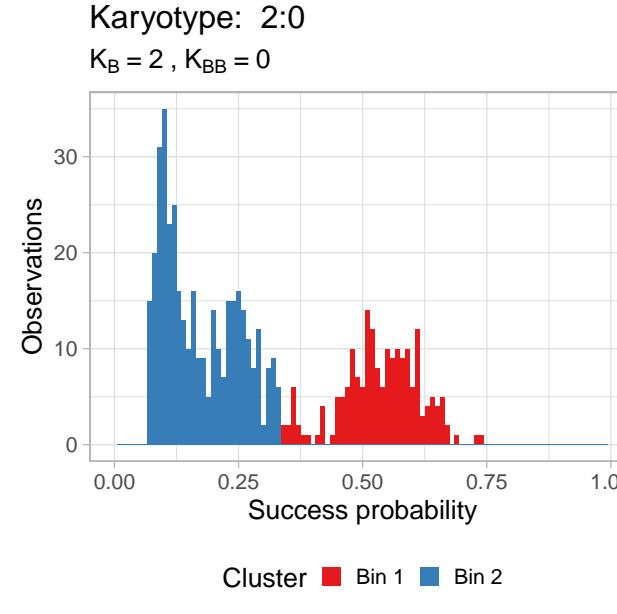
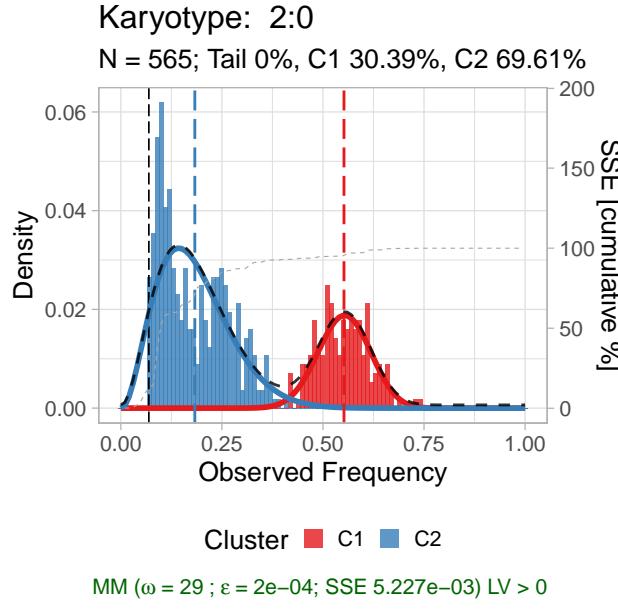
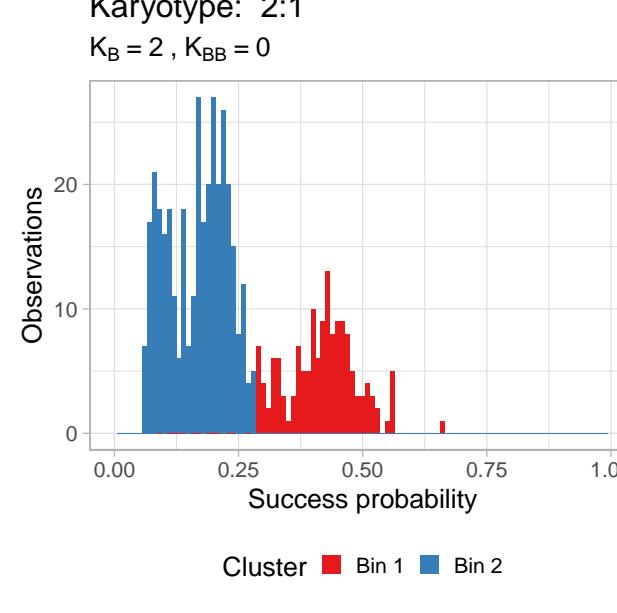
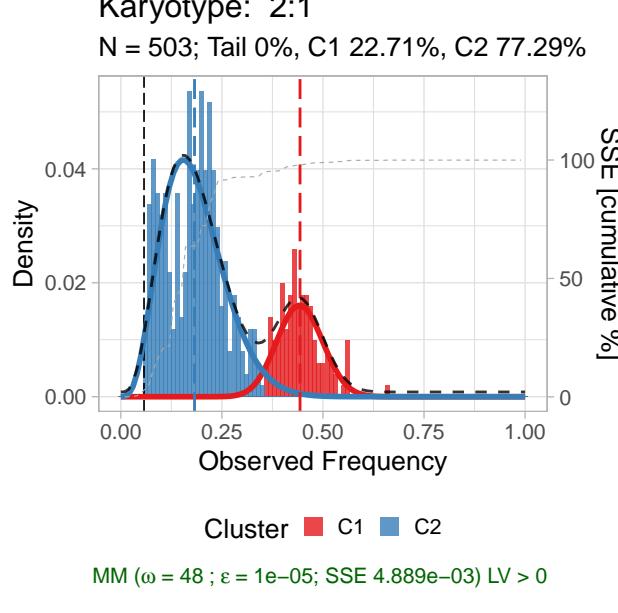
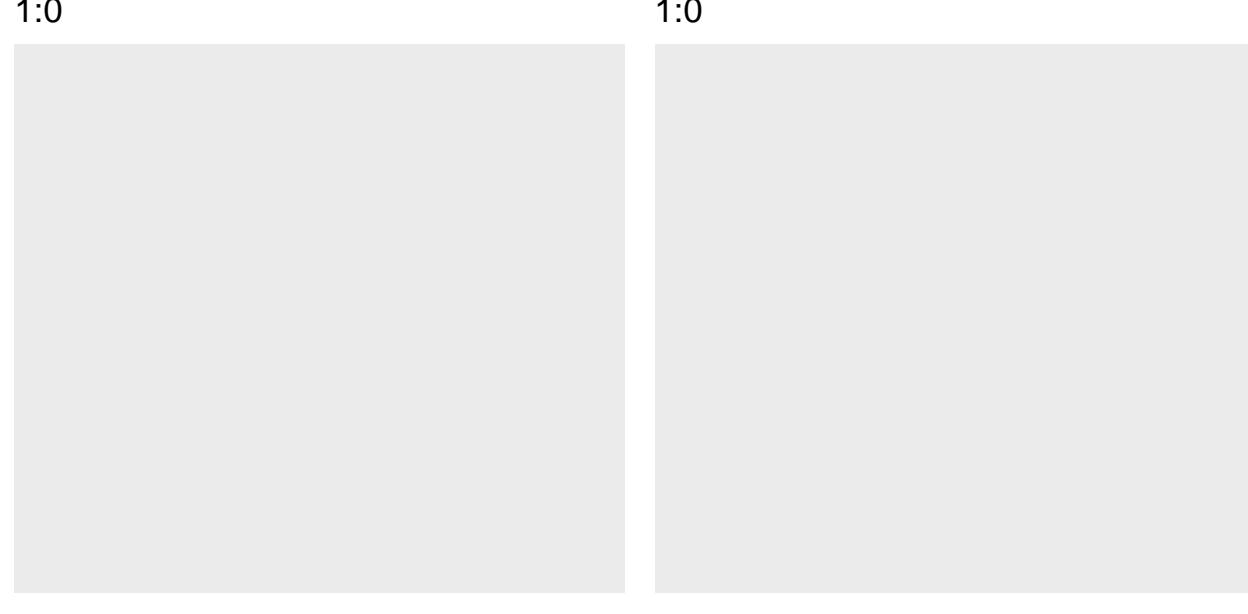
160830_HMFregCPCT_FR10302718_FR10304568_CPCT02050047

ONLY SNVs (min 150 – max 50000)



160830_HMFregCPCT_FR10302721_FR10304565_CPCT02070013

ONLY SNVs (min 150 – max 50000)

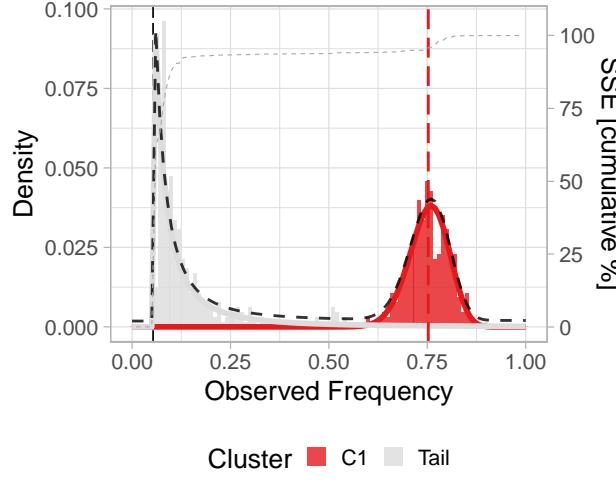


160830_HMFregCPCT_FR12254146_FR10304572_CPCT02020356

ONLY SNVs (min 150 – max 50000)

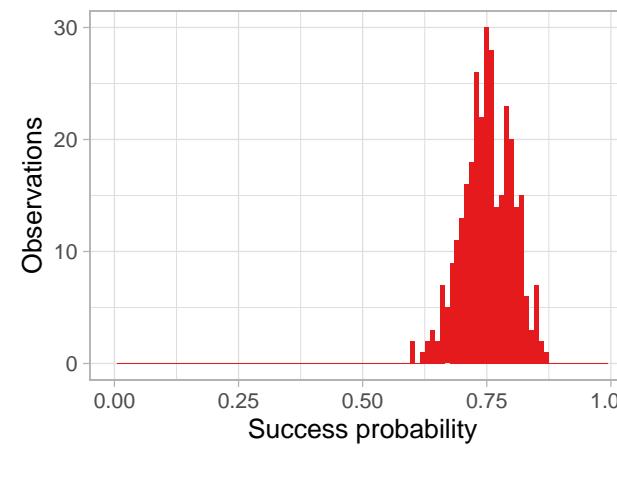
Karyotype: 1:0

N = 655; C1 47.88%, Tail 52.12%



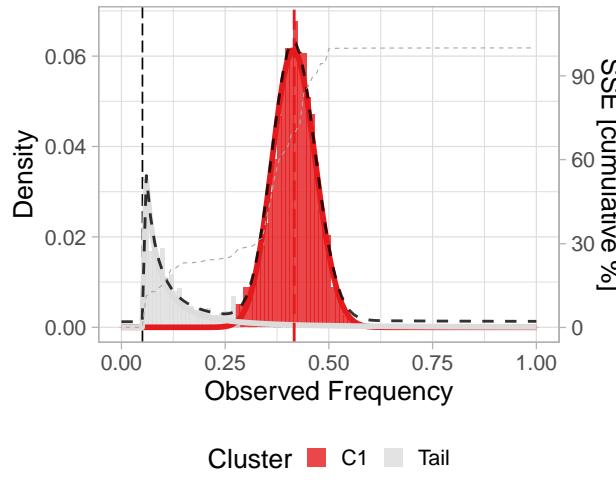
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



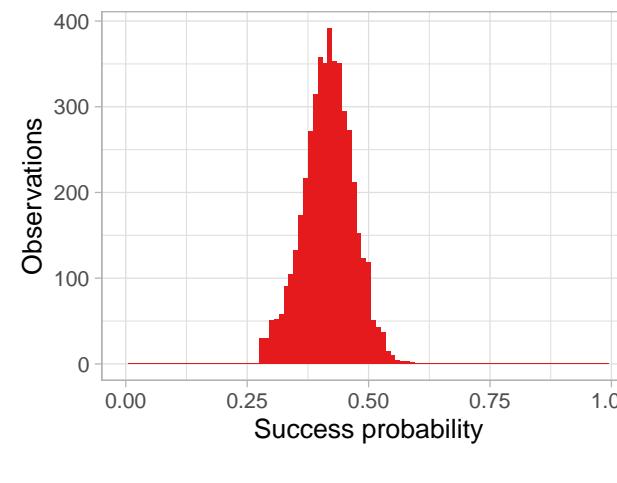
Karyotype: 1:1

N = 5794; Tail 20.84%, C1 79.16%



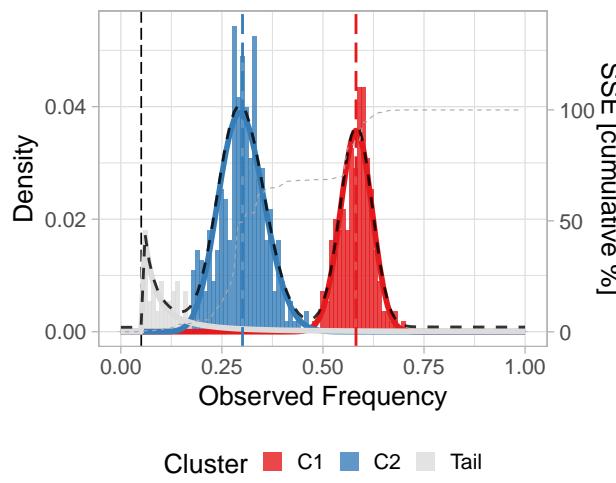
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



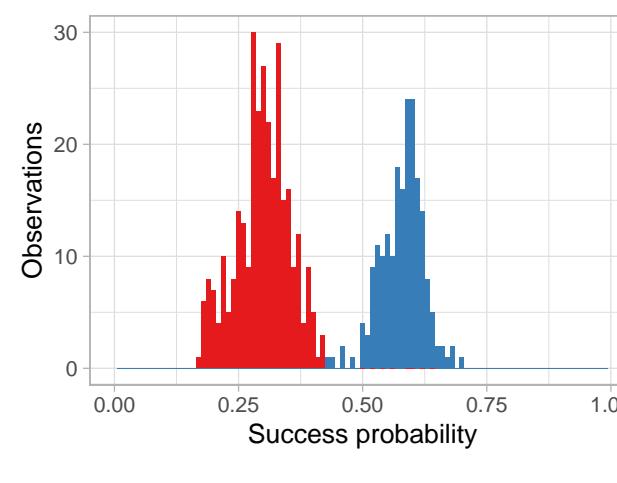
Karyotype: 2:1

N = 552; Tail 10.25%, C1 34.88%, C2 54.86%



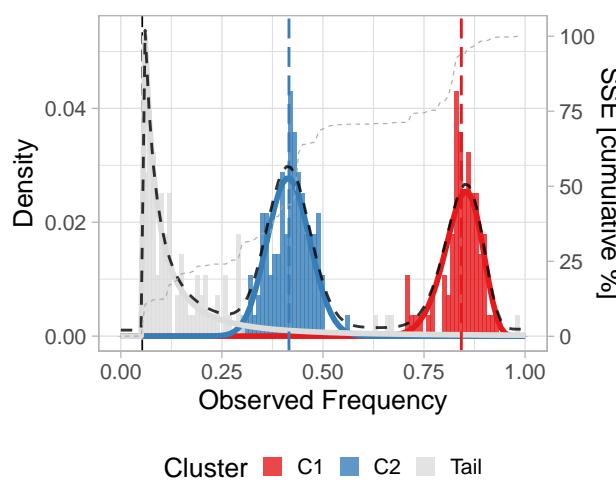
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



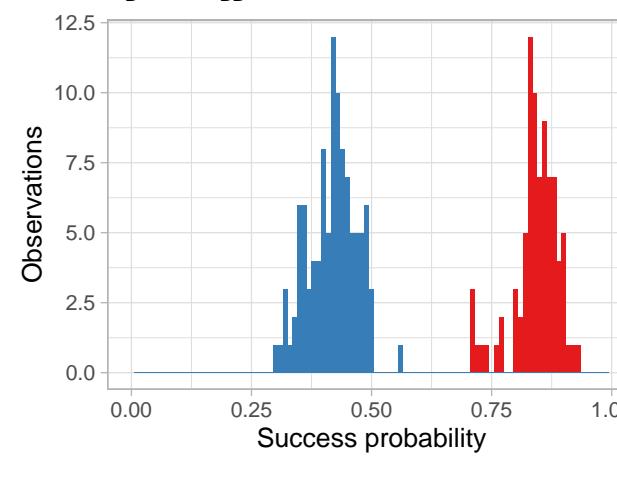
Karyotype: 2:0

N = 279; C1 29.16%, Tail 34.28%, C2 36.56%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

2:2

160903_HMFregCPCT_FR10302740_FR10304570_CPCT02050049

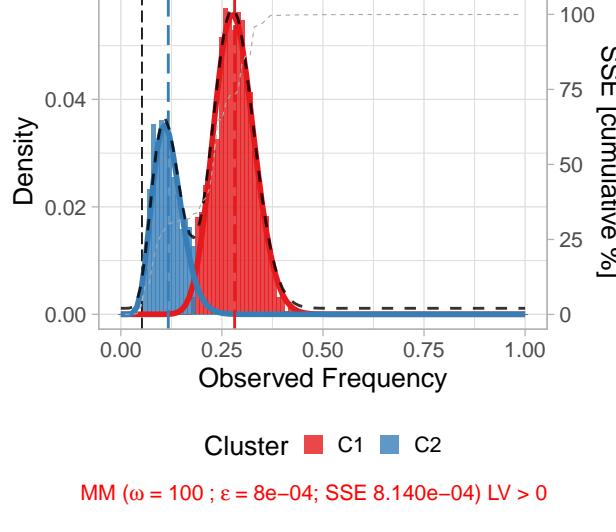
ONLY SNVs (min 150 – max 50000)

1:0

1:0

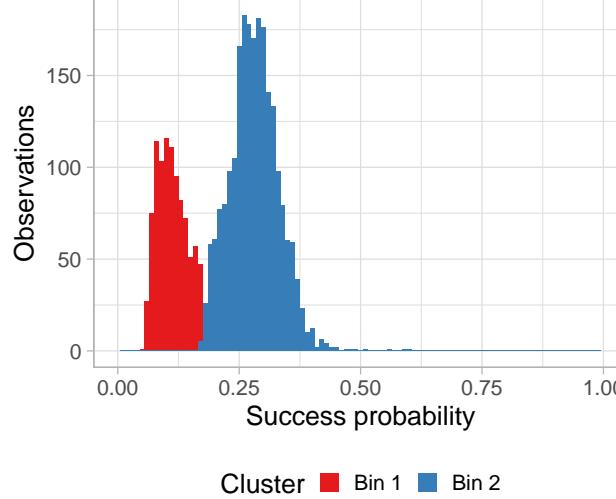
Karyotype: 1:1

N = 3217; Tail 0%, C2 30.88%, C1 69.12%



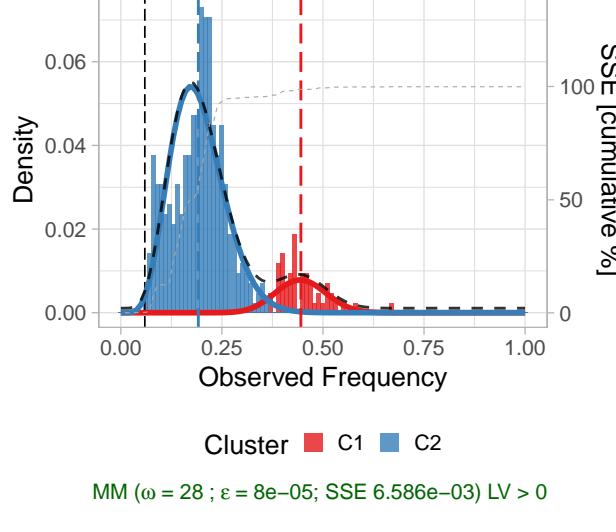
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



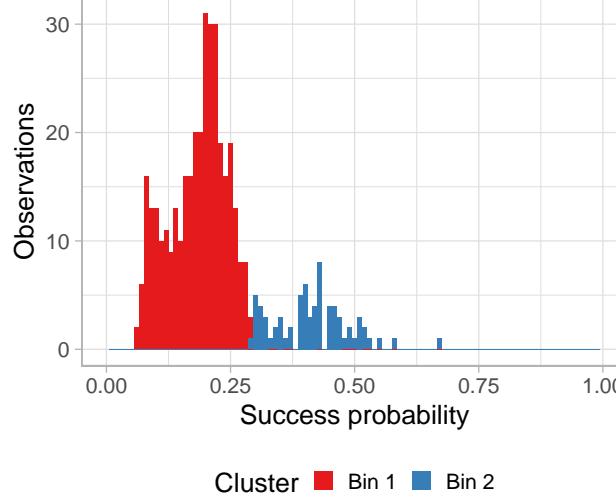
Karyotype: 2:1

N = 424; Tail 0%, C1 12.14%, C2 87.86%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

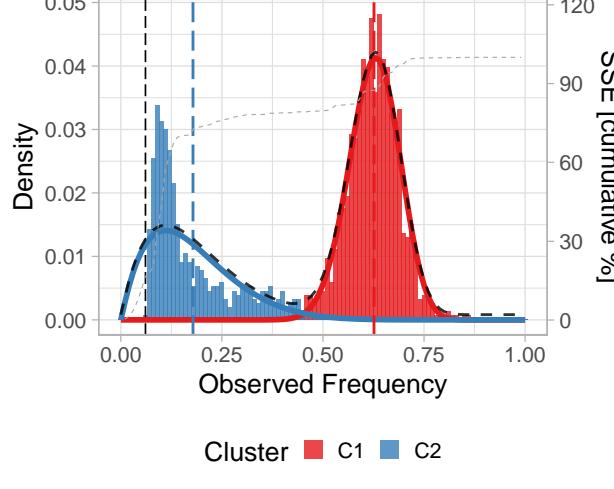
2:2

160905_HMFregCPCT_FR10301943_FR12251966_CPCT02160001

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

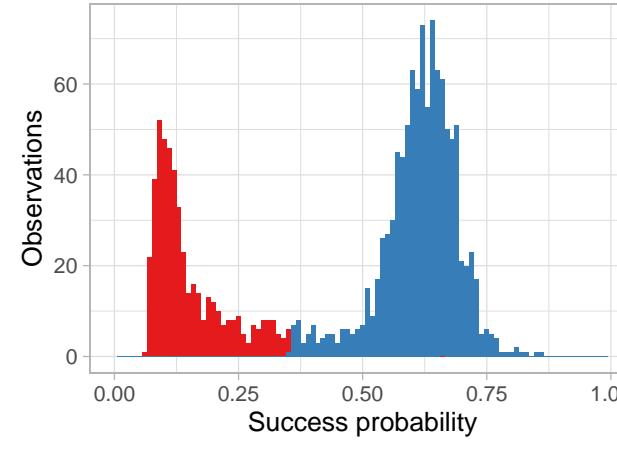
N = 1536; Tail 0%, C2 35.17%, C1 64.83%



MM ($\omega = 59$; $\epsilon = 2e-03$; SSE 2.599e-03) LV > 0

Karyotype: 1:0

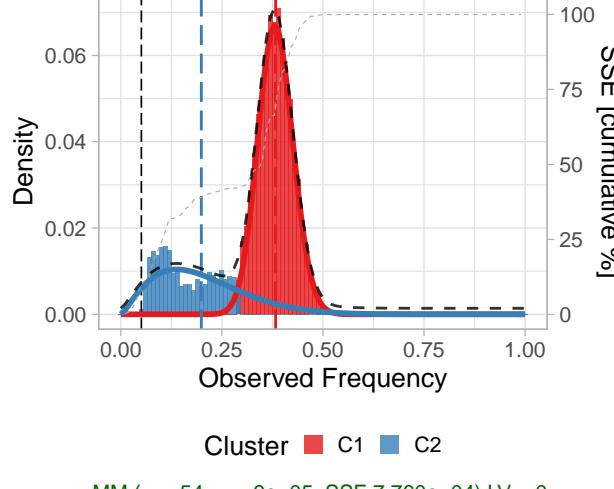
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 54$; $\epsilon = 9e-05$; SSE 7.760e-04) LV > 0

Karyotype: 1:1

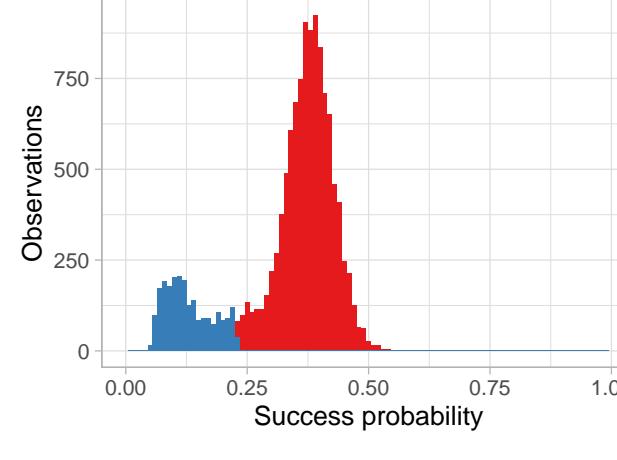
N = 13056; Tail 0%, C2 27.66%, C1 72.34%



MM ($\omega = 54$; $\epsilon = 9e-05$; SSE 7.760e-04) LV > 0

Karyotype: 1:1

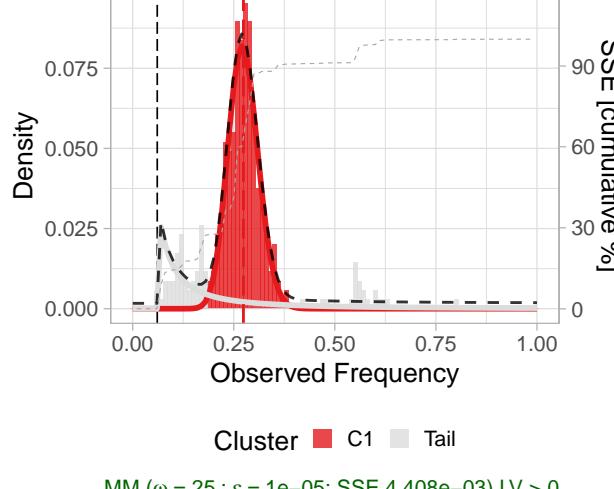
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 54$; $\epsilon = 9e-05$; SSE 7.760e-04) LV > 0

Karyotype: 2:1

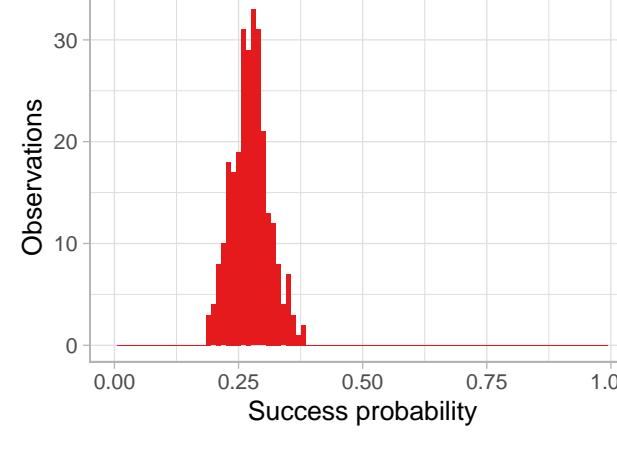
N = 346; Tail 24.46%, C1 75.54%



MM ($\omega = 25$; $\epsilon = 1e-05$; SSE 4.408e-03) LV > 0

Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$



MM ($\omega = 25$; $\epsilon = 1e-05$; SSE 4.408e-03) LV > 0

2:0

2:0

2:2

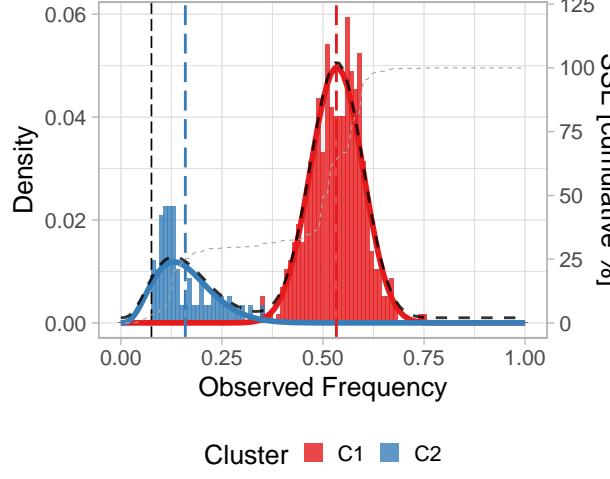
2:2

160905_HMFregCPCT_FR12244559_FR12251744_CPCT02160003

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

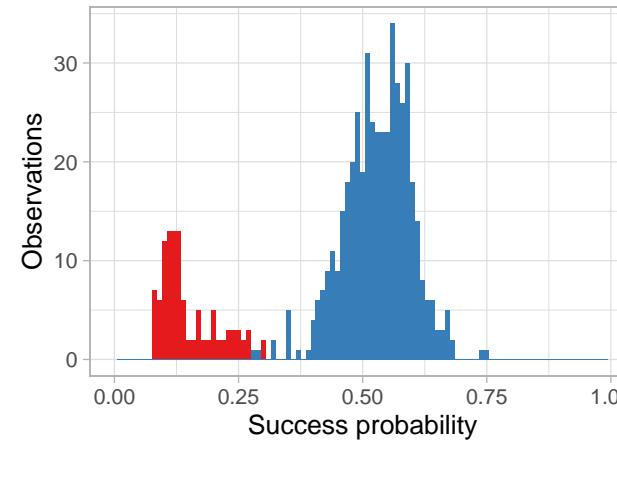
N = 572; Tail 0%, C2 20.23%, C1 79.77%



MM ($\omega = 38$; $\epsilon = 5e-04$; SSE 2.971e-03) LV > 0

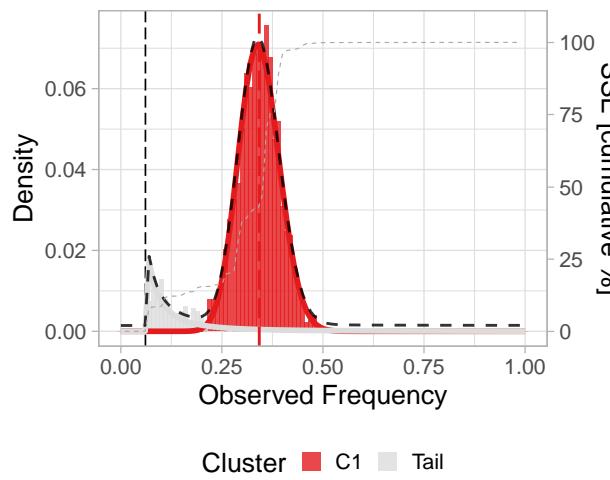
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

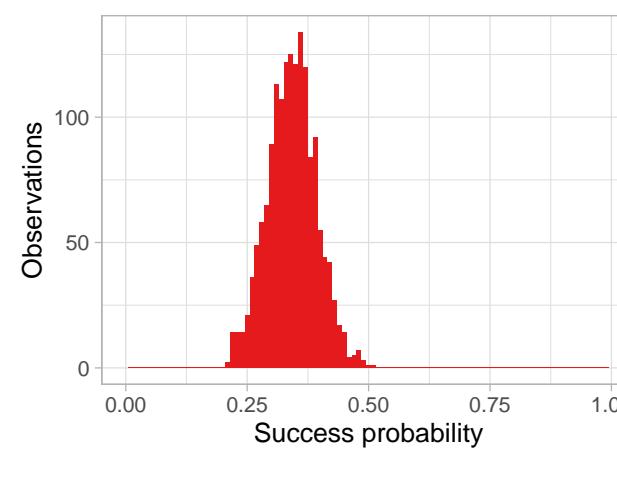
N = 1772; Tail 11.01%, C1 88.99%



MM ($\omega = 15$; $\epsilon = 5e-05$; SSE 1.310e-03) LV > 0

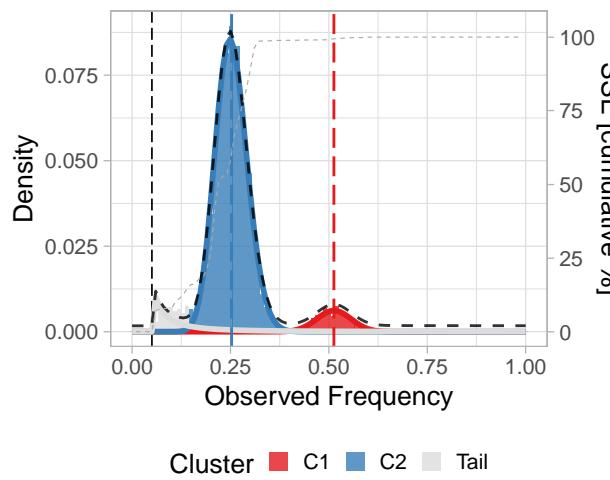
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

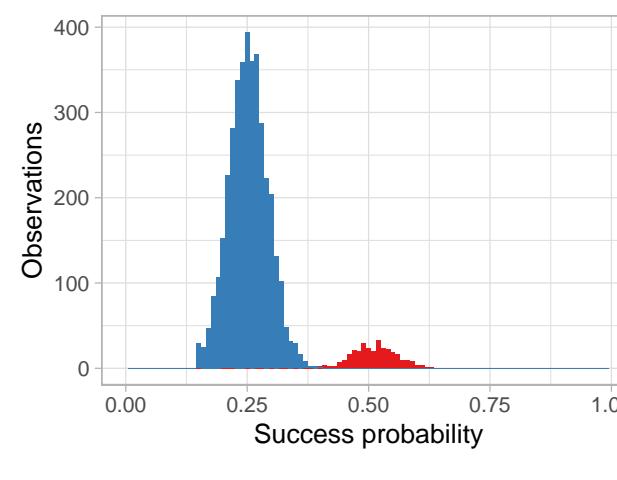
N = 4407; C1 6.71%, Tail 6.84%, C2 86.45%



MM ($\omega = 23$; $\epsilon = 1e-04$; SSE 1.087e-03) LV > 0

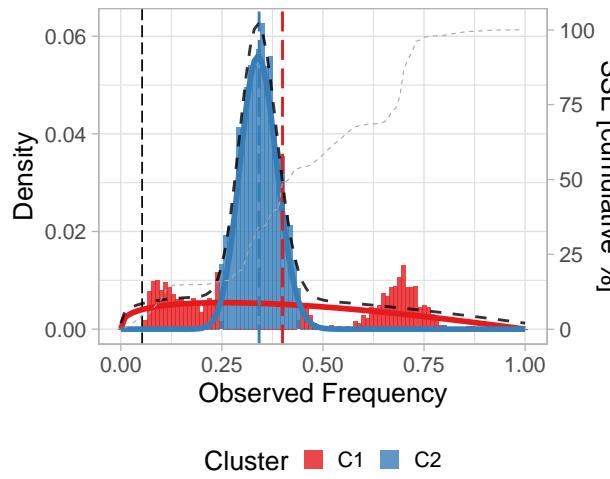
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

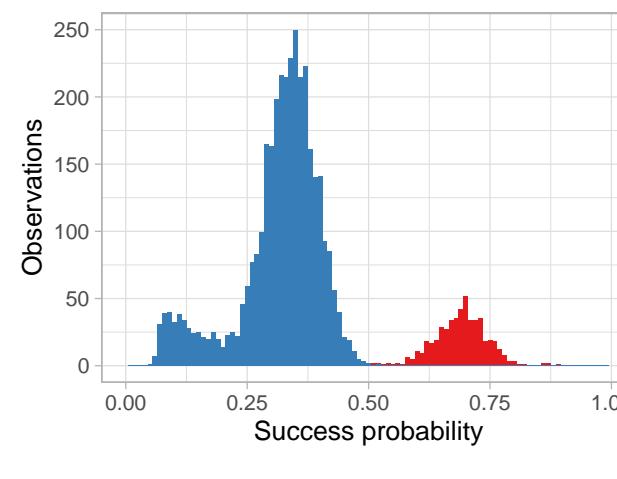
N = 3991; Tail 0%, C1 36.73%, C2 63.27%



MM ($\omega = 43$; $\epsilon = 4e-04$; SSE 1.277e-03) LV > 0

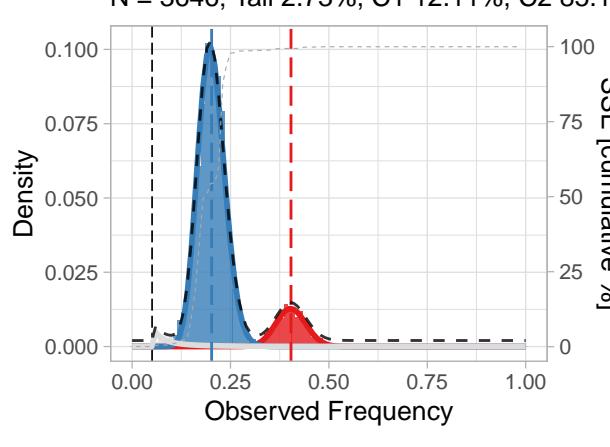
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

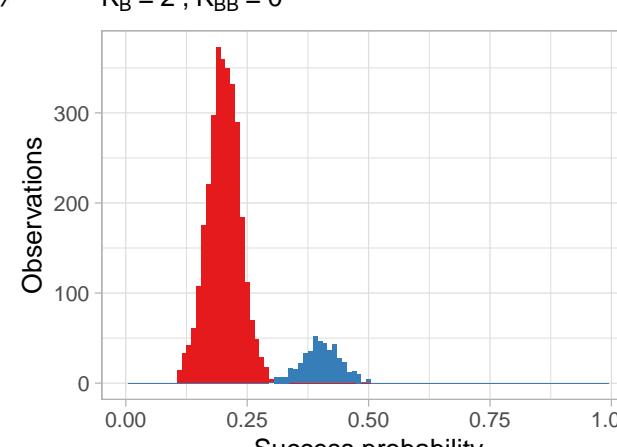
N = 3646; Tail 2.73%, C1 12.11%, C2 85.16%



MM ($\omega = 35$; $\epsilon = 2e-04$; SSE 1.884e-03) LV > 0

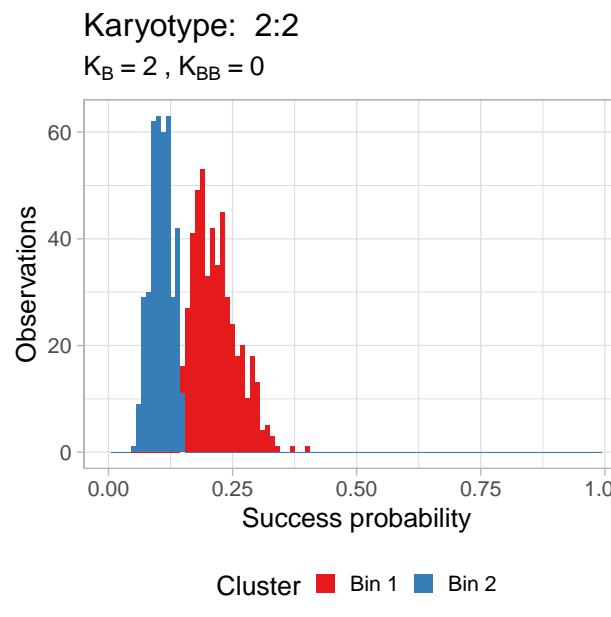
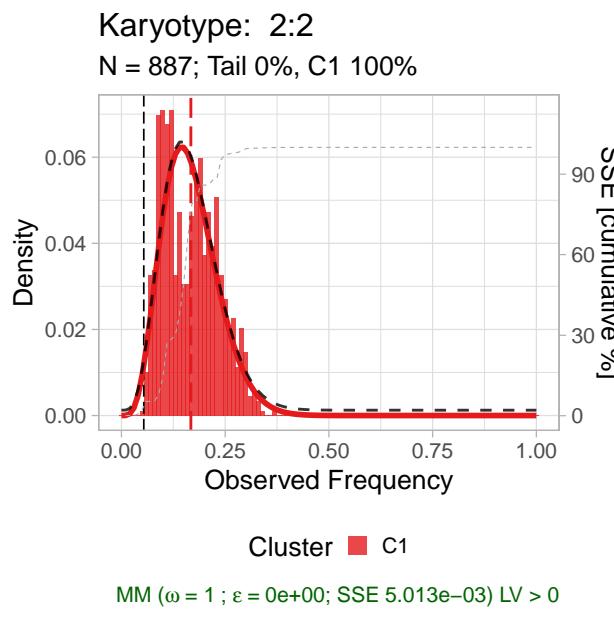
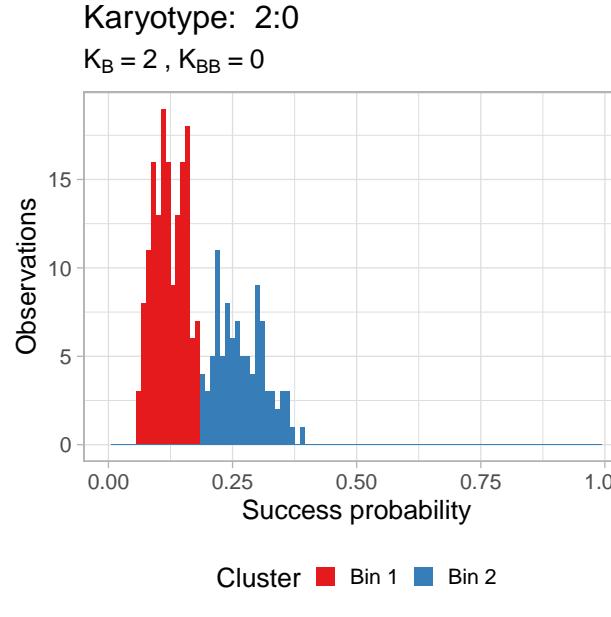
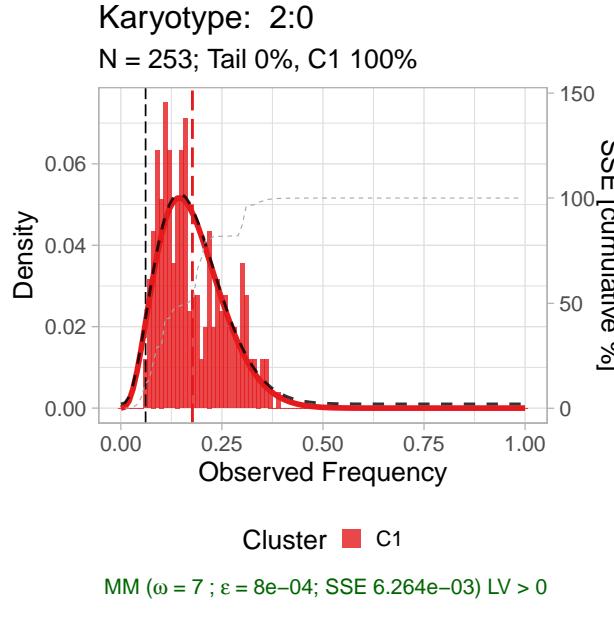
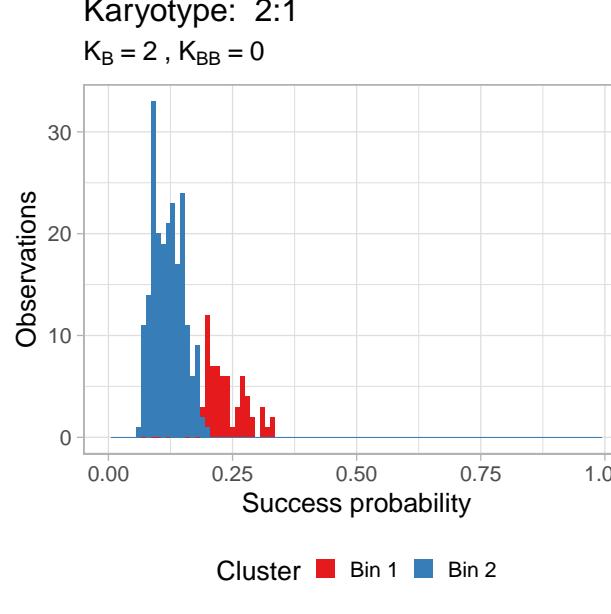
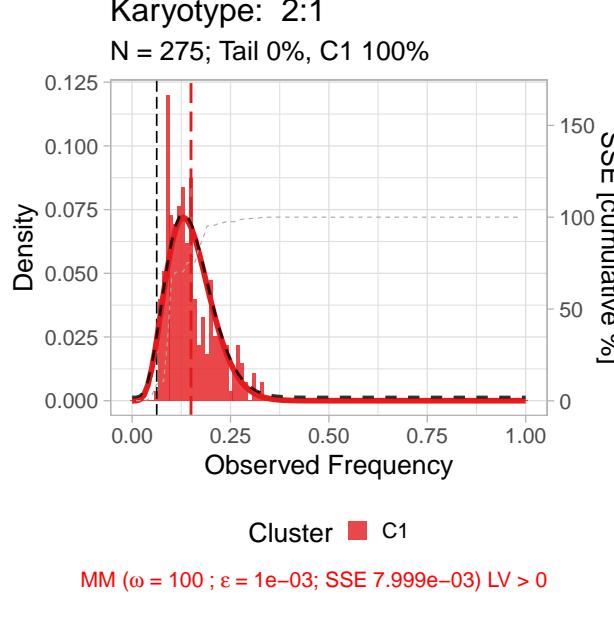
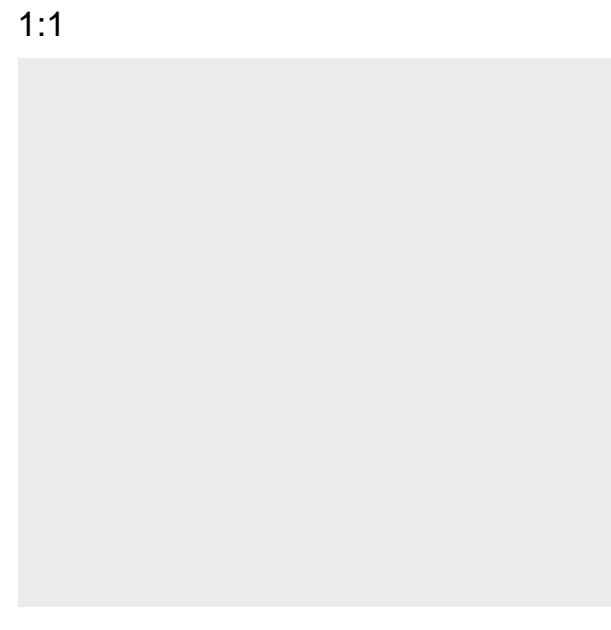
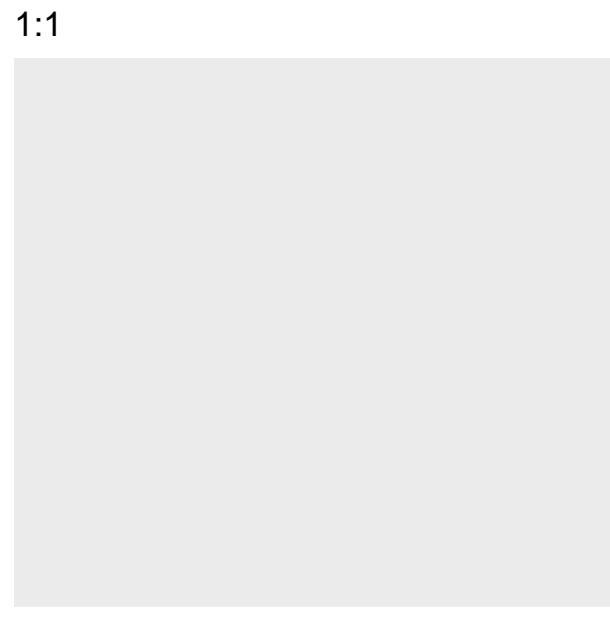
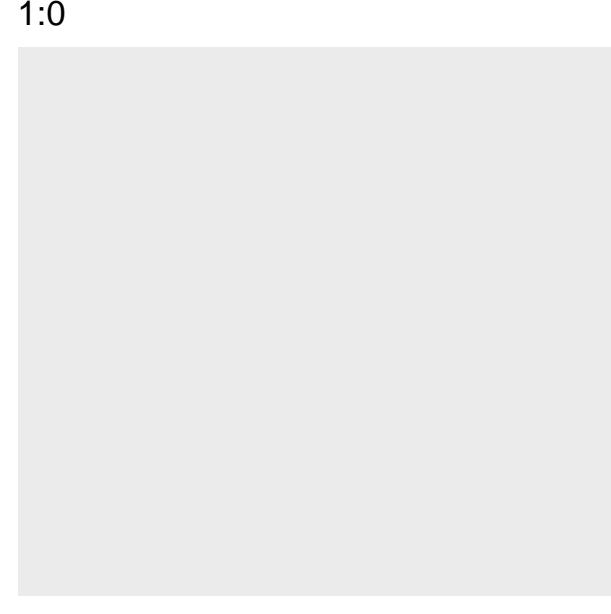
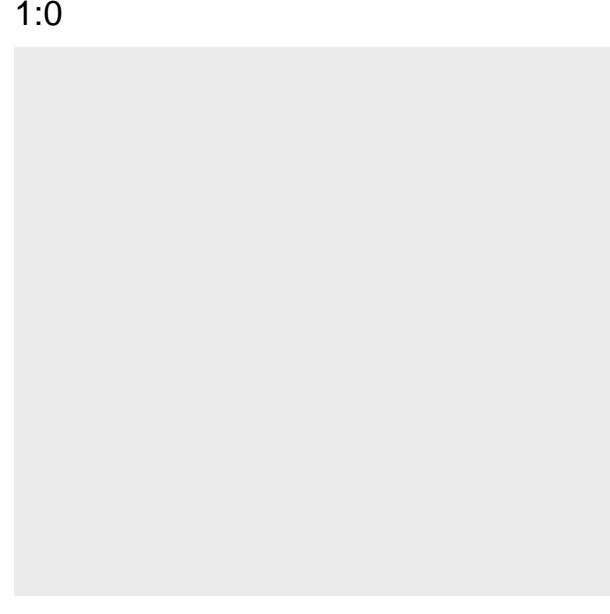
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



160905_HMFregCPCT_FR12251688_FR10304573_CPCT02020348

ONLY SNVs (min 150 – max 50000)

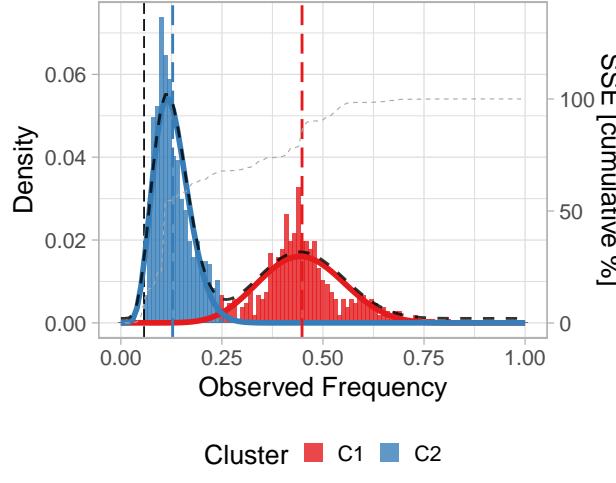


160905_HMFregCPCT_FR12254135_FR10304574_CPCT02020350

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

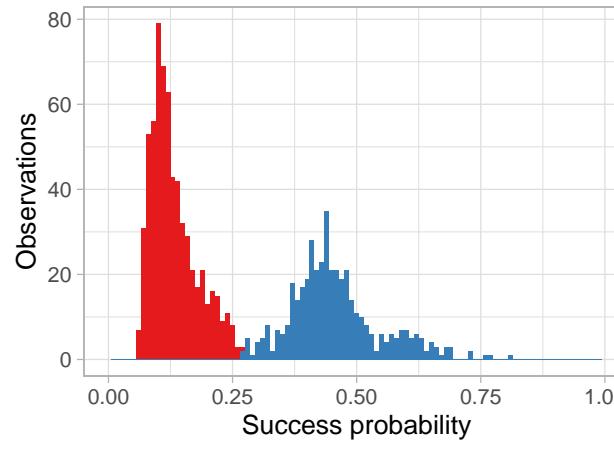
N = 1070; Tail 0%, C1 41.81%, C2 58.19%



MM ($\omega = 52$; $\epsilon = 2e-04$; SSE $2.984e-03$) LV > 0

Karyotype: 1:0

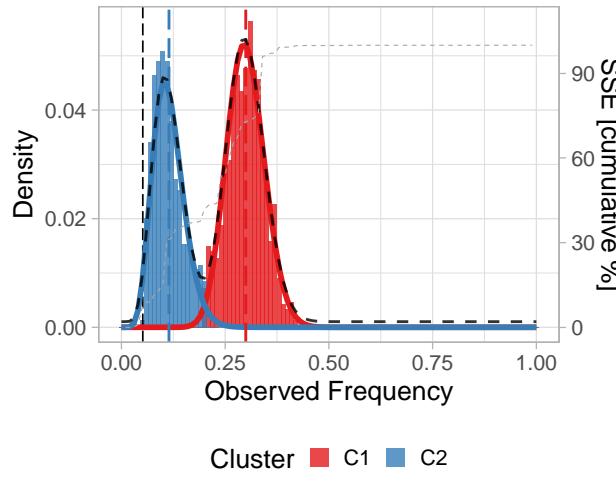
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

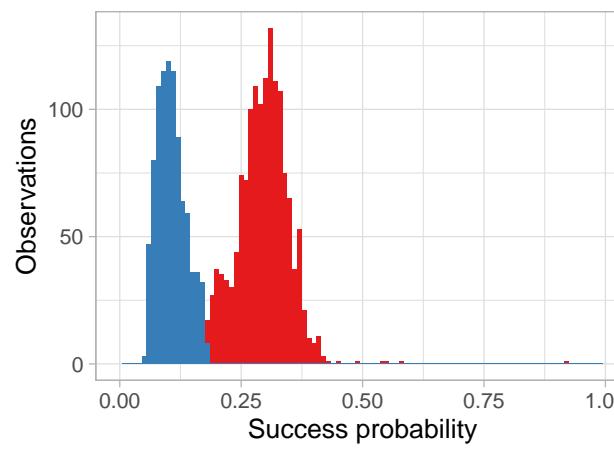
N = 2344; Tail 0%, C2 40.76%, C1 59.24%



MM ($\omega = 100$; $\epsilon = 3e-03$; SSE $1.168e-03$) LV > 0

Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



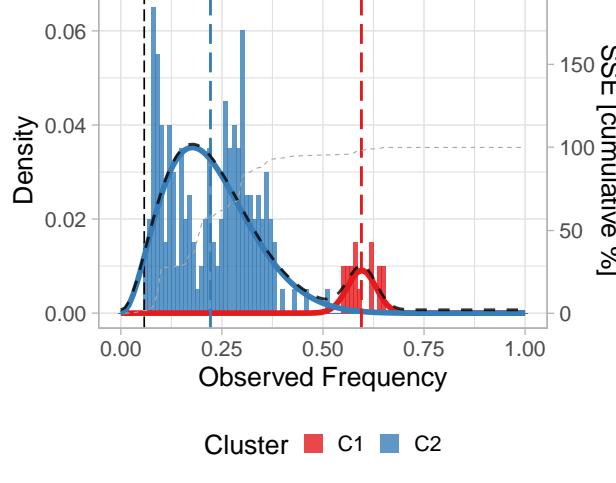
Cluster ■ Bin 1 ■ Bin 2

2:1

2:1

Karyotype: 2:0

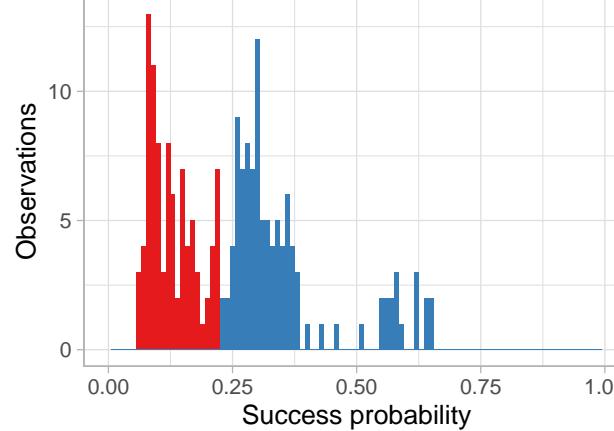
N = 200; Tail 0%, C1 8%, C2 92%



MM ($\omega = 15$; $\epsilon = 4e-05$; SSE $1.005e-02$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

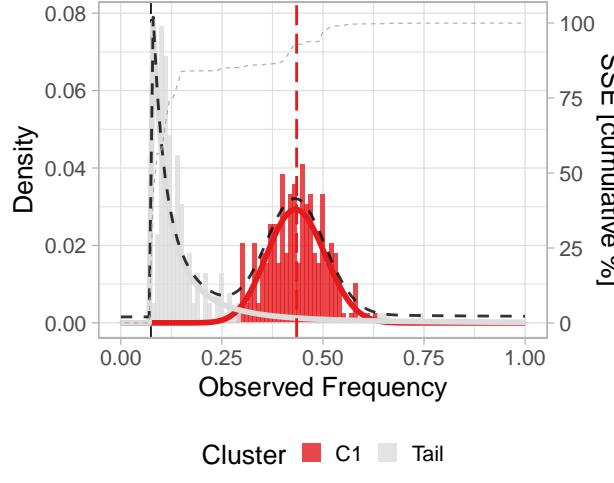
2:2

160905_HMFregCPCT_FR12254668_FR12251934_CPCT02160004

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

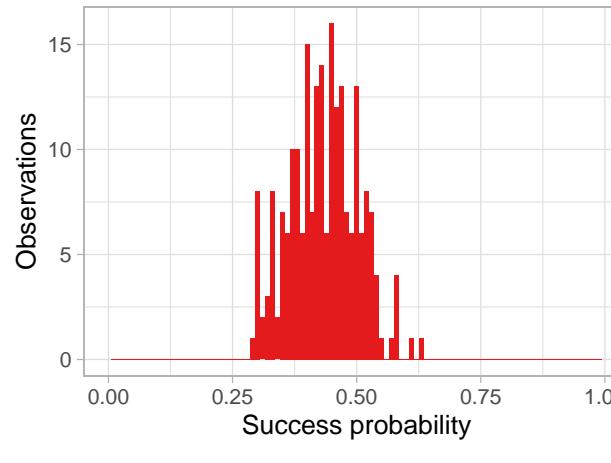
N = 392; Tail 47.98%, C1 52.02%



MM ($\omega = 25$; $\epsilon = 3e-06$; SSE 1.317e-02) LV > 0

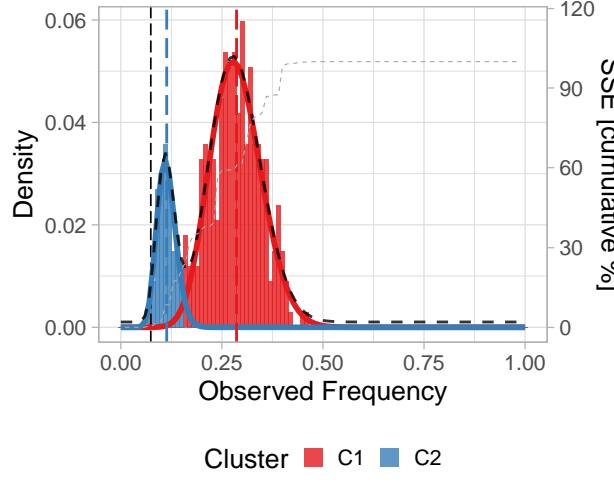
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

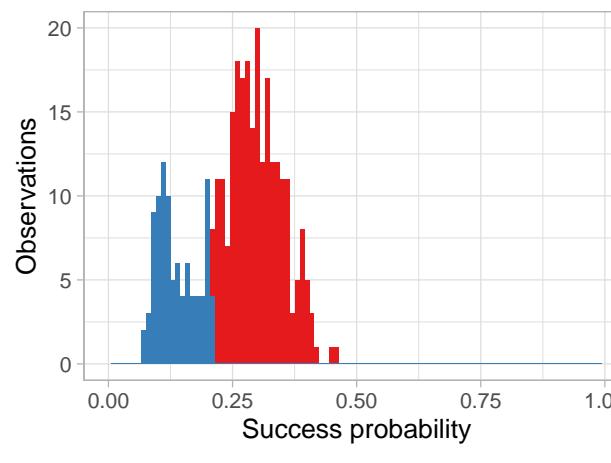
N = 335; Tail 0%, C2 18.59%, C1 81.41%



MM ($\omega = 100$; $\epsilon = 3e-02$; SSE 3.546e-03) LV > 0

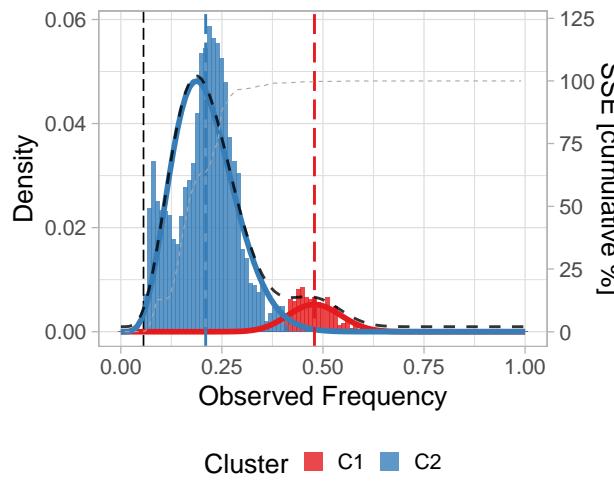
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

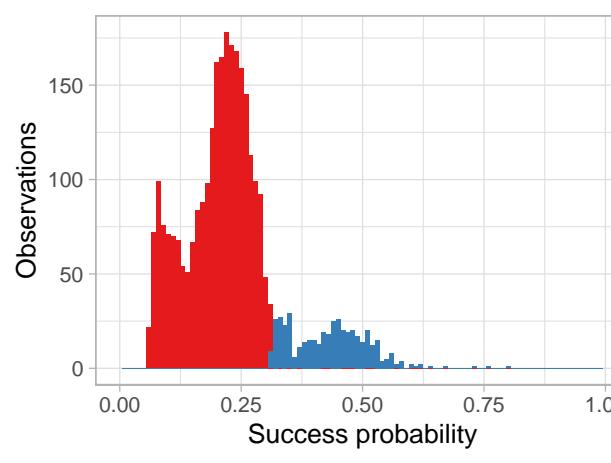
N = 3029; Tail 0%, C1 8.46%, C2 91.54%



MM ($\omega = 35$; $\epsilon = 8e-04$; SSE 5.215e-03) LV > 0

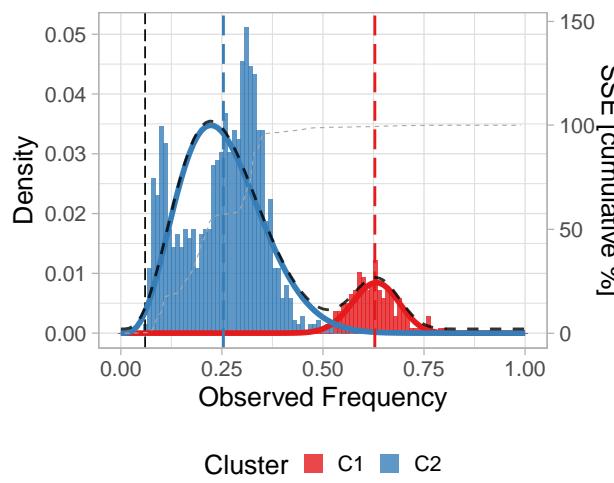
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

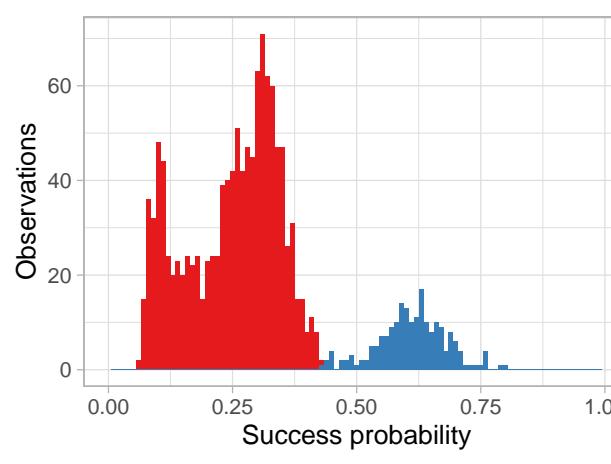
N = 1388; Tail 0%, C1 12.1%, C2 87.9%



MM ($\omega = 24$; $\epsilon = 6e-04$; SSE 6.216e-03) LV > 0

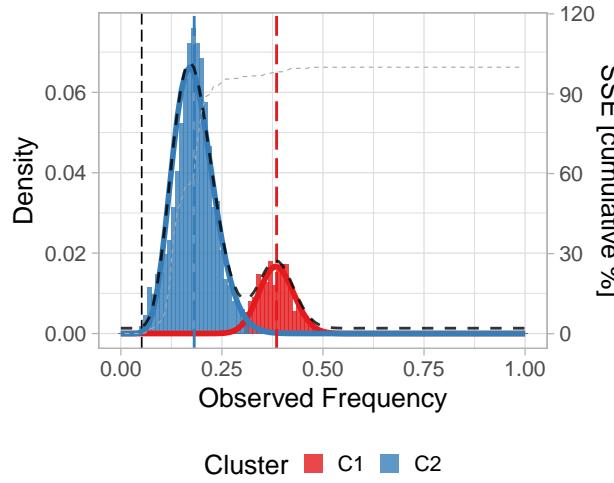
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

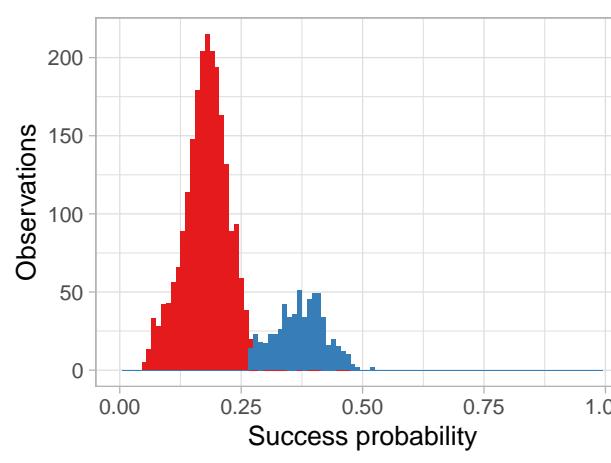
N = 2826; Tail 0%, C1 17.9%, C2 82.1%



MM ($\omega = 35$; $\epsilon = 6e-04$; SSE 2.249e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

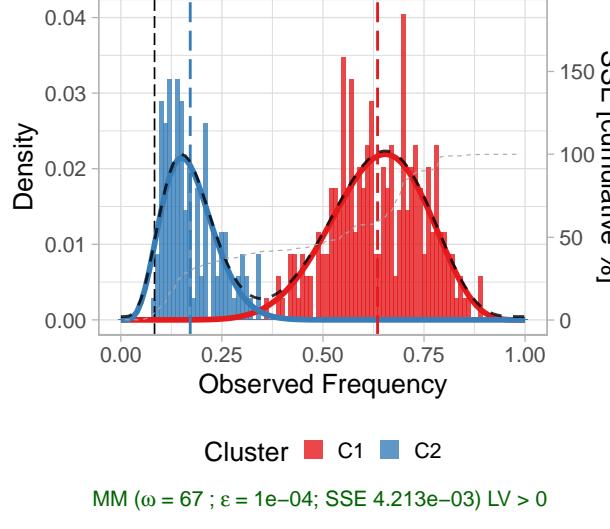


160906_HMFregCPCT_FR10302726_FR10304569_CPCT02050048

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

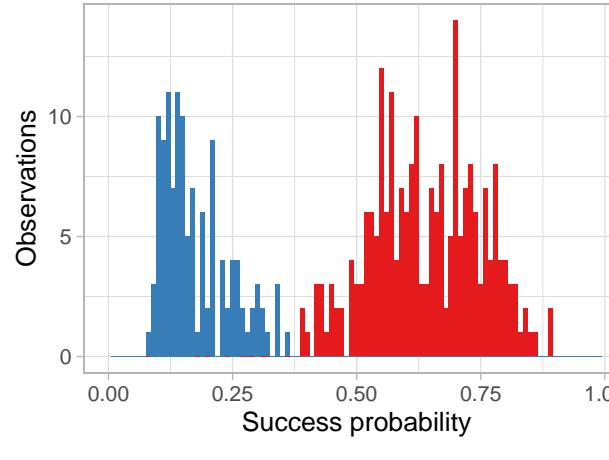
N = 346; Tail 0%, C2 33.97%, C1 66.03%



MM ($\omega = 67$; $\epsilon = 1e-04$; SSE 4.213e-03) LV > 0

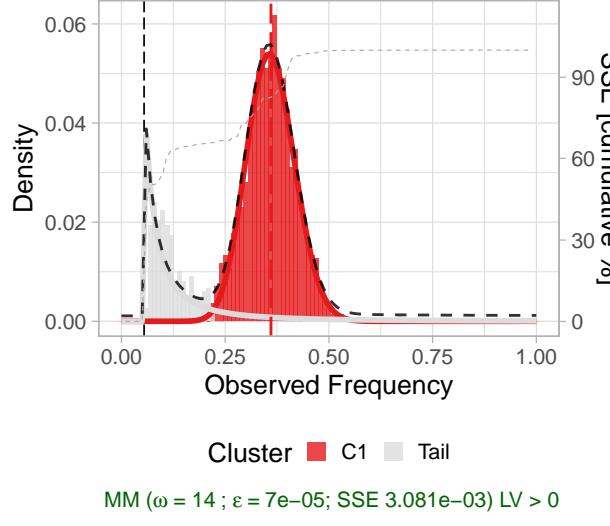
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

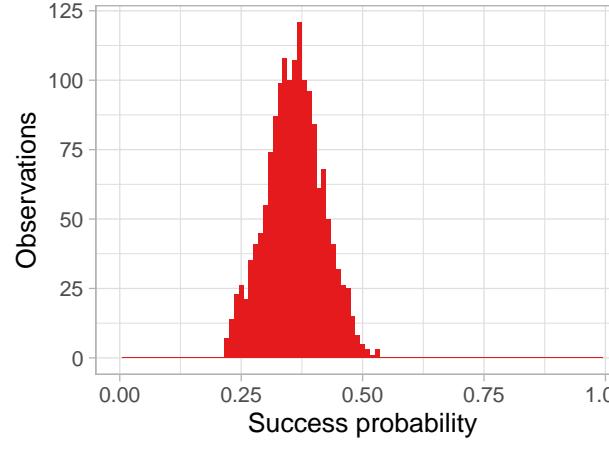
N = 1961; Tail 21.88%, C1 78.12%



MM ($\omega = 14$; $\epsilon = 7e-05$; SSE 3.081e-03) LV > 0

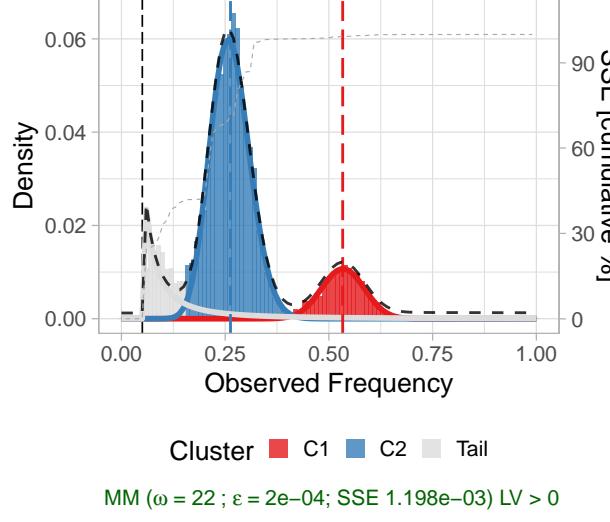
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

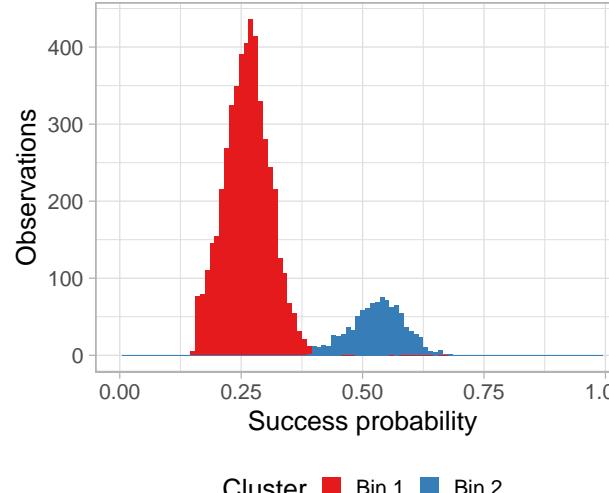
N = 6650; C1 13.76%, Tail 15.16%, C2 71.08%



MM ($\omega = 22$; $\epsilon = 2e-04$; SSE 1.198e-03) LV > 0

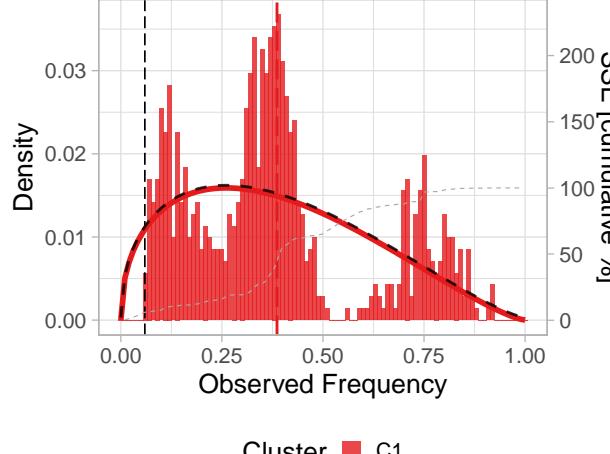
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

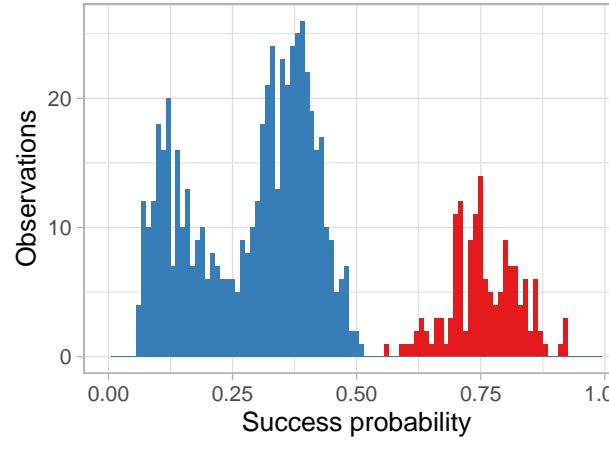
N = 707; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 7.017e-03) LV > 0

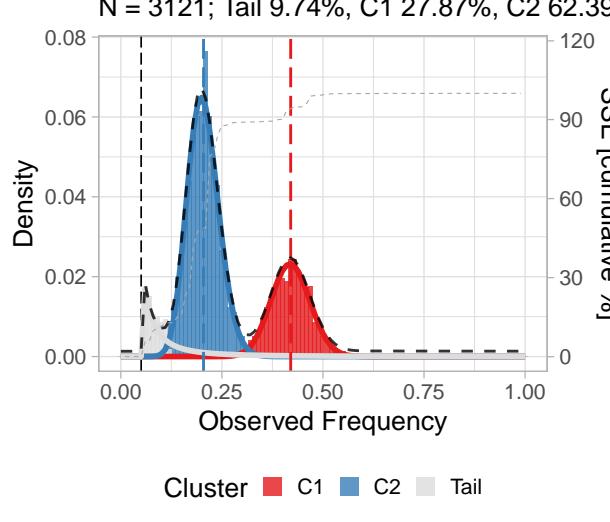
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

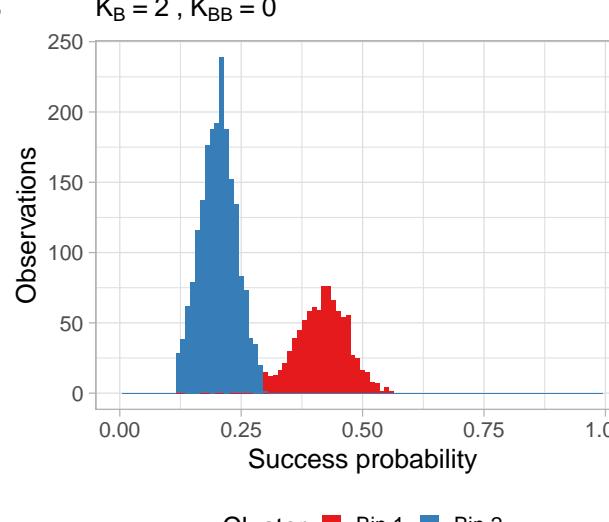
N = 3121; Tail 9.74%, C1 27.87%, C2 62.39%



MM ($\omega = 38$; $\epsilon = 7e-05$; SSE 9.701e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

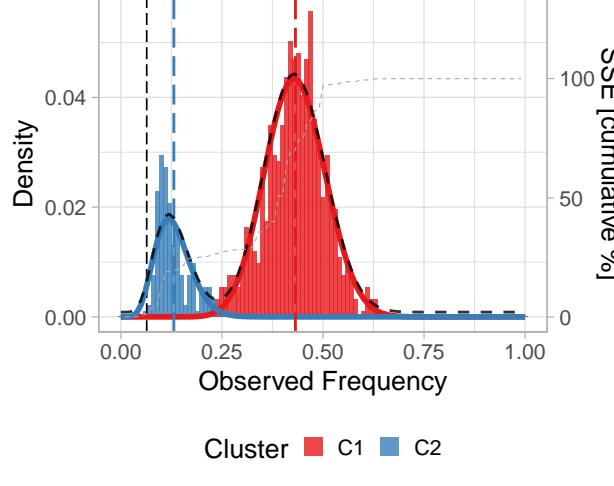


160912_HMFregCPCT_FR03631934_FR12251918_CPCT02060015

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

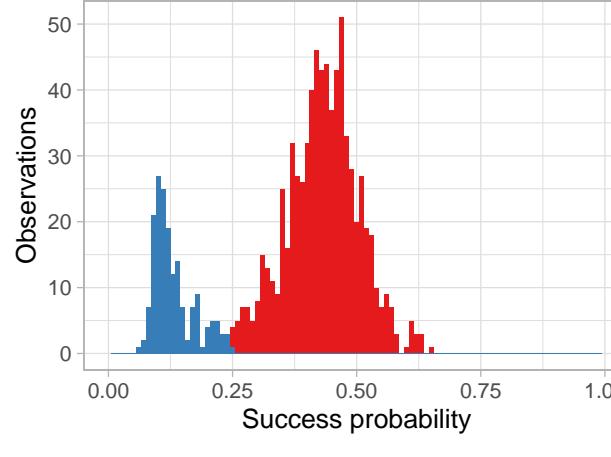
N = 915; Tail 0%, C2 18.99%, C1 81.01%



MM ($\omega = 92$; $\epsilon = 4e-04$; SSE 2.452e-03) LV > 0

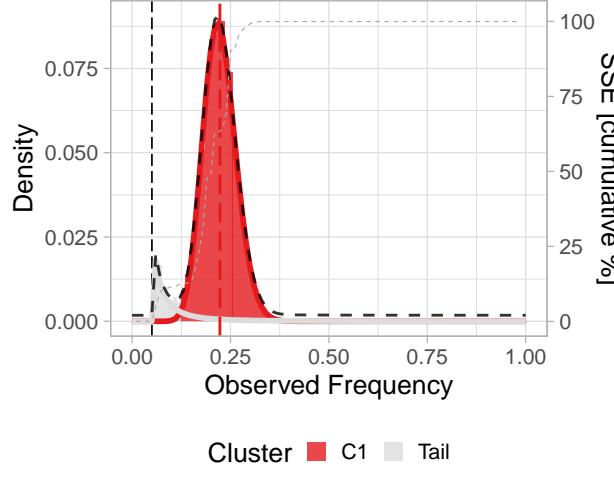
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

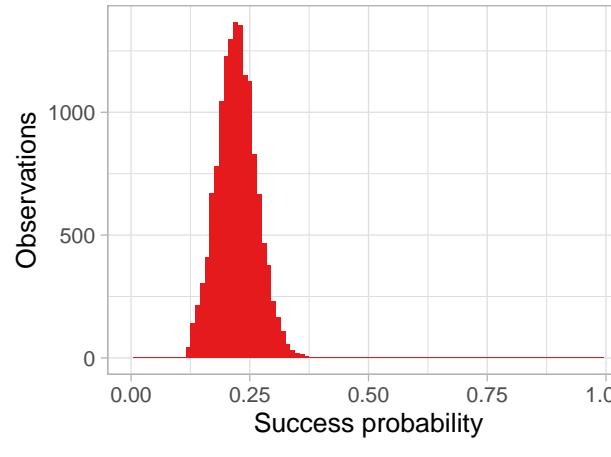
N = 15215; Tail 8.89%, C1 91.11%



MM ($\omega = 25$; $\epsilon = 3e-04$; SSE 1.179e-03) LV > 0

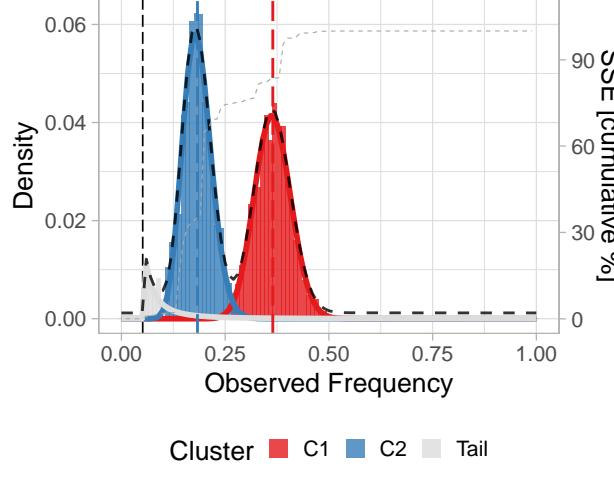
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

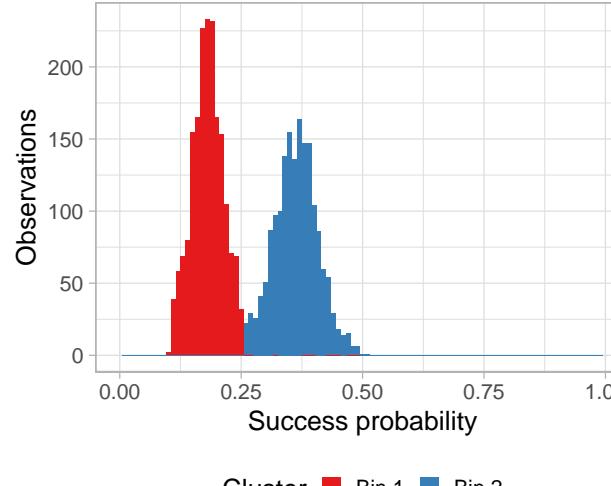
N = 3737; Tail 5.27%, C1 45.26%, C2 49.47%



MM ($\omega = 82$; $\epsilon = 6e-05$; SSE 8.255e-04) LV > 0

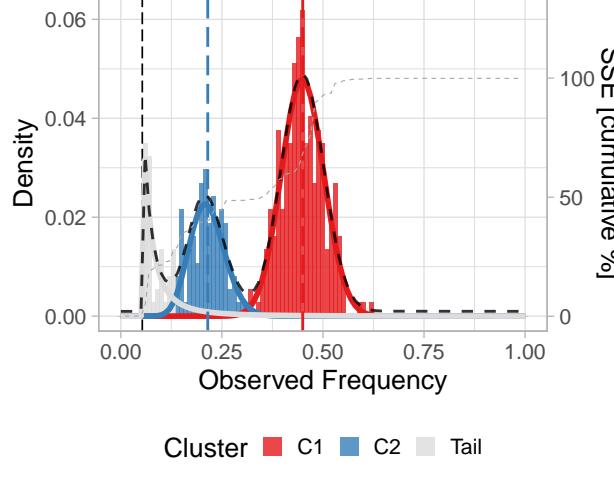
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

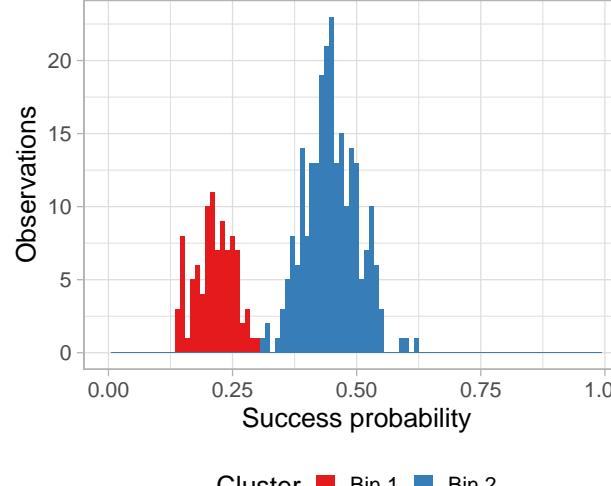
N = 372; Tail 12.96%, C2 24.4%, C1 62.64%



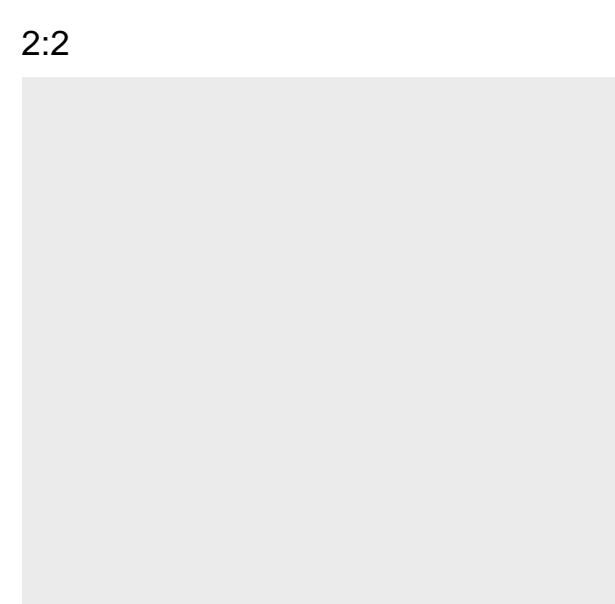
MM ($\omega = 85$; $\epsilon = 1e-05$; SSE 3.571e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

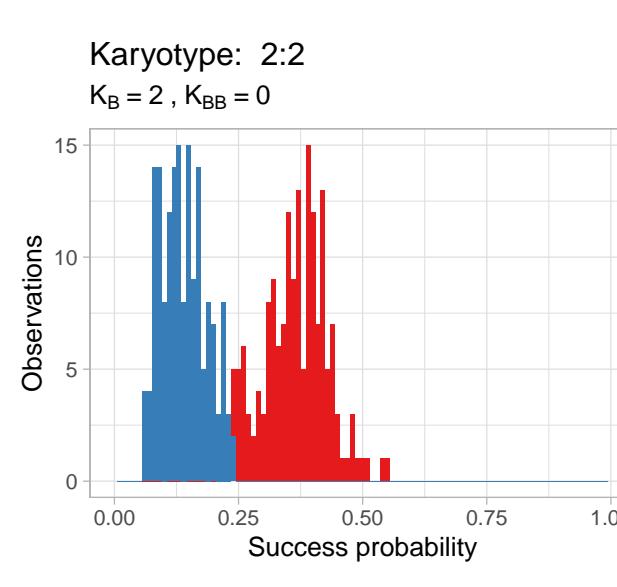
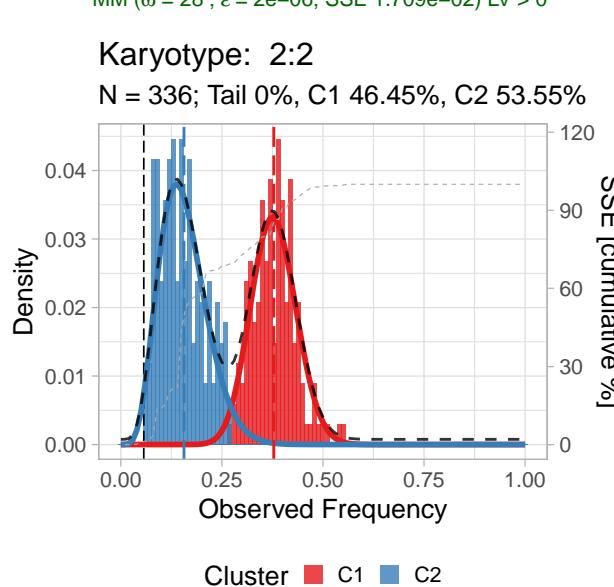
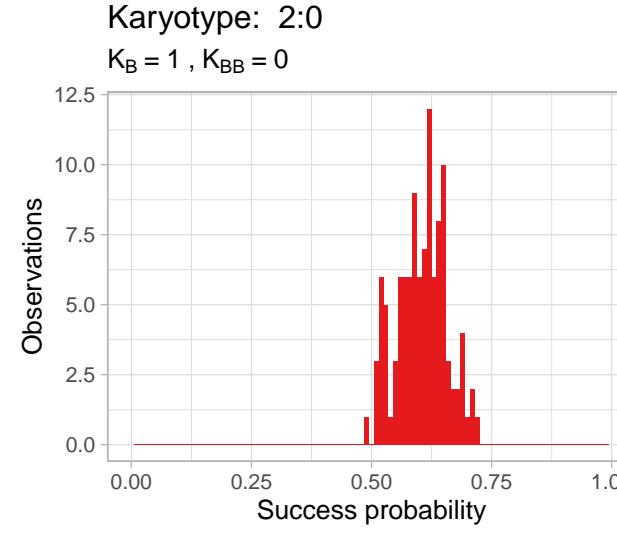
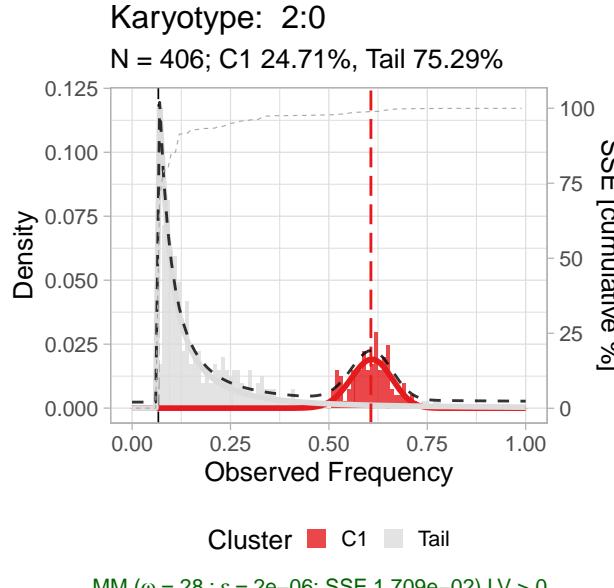
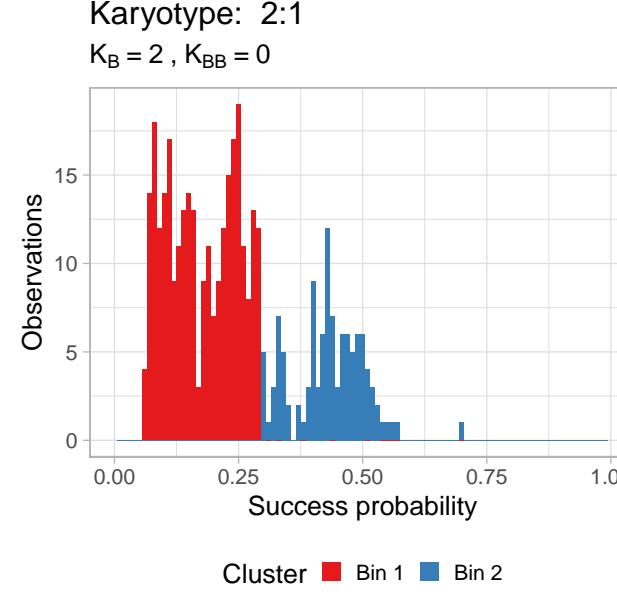
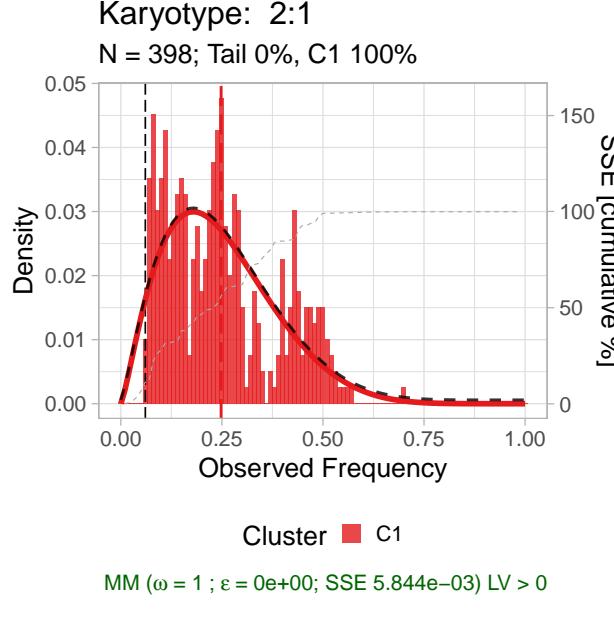
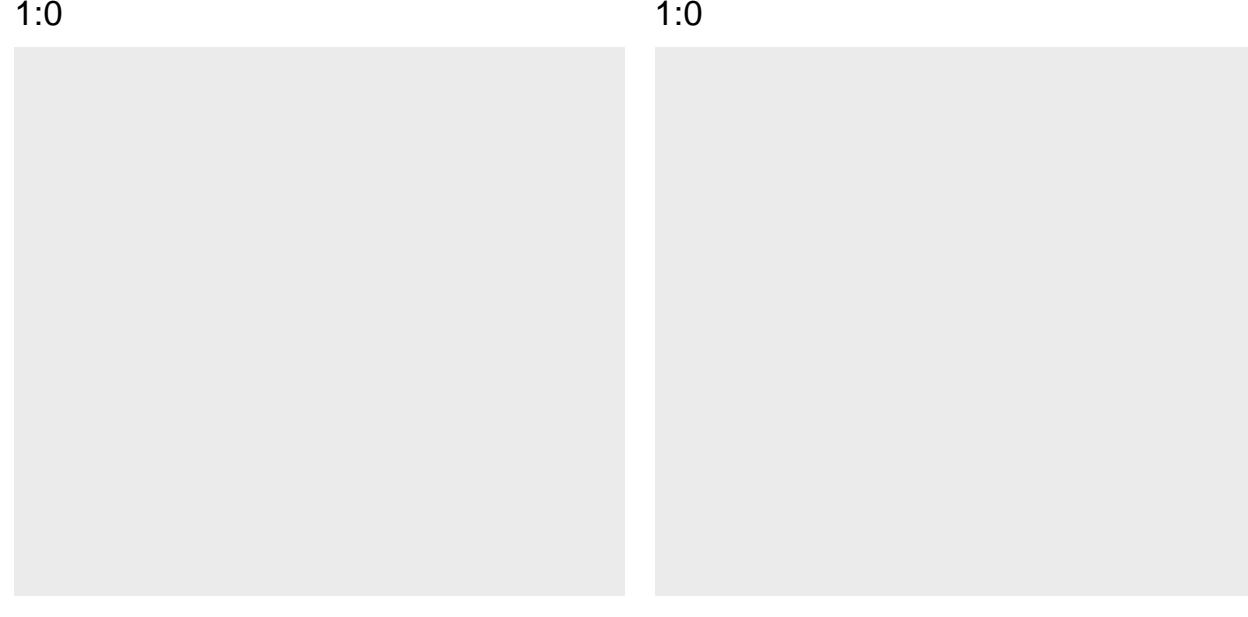


2:2



160912_HMFregCPCT_FR10302565_FR12251890_CPCT02060018

ONLY SNVs (min 150 – max 50000)



160912_HMFregCPCT_FR10302729_FR12251900_CPCT02010393

ONLY SNVs (min 150 – max 50000)

1:0

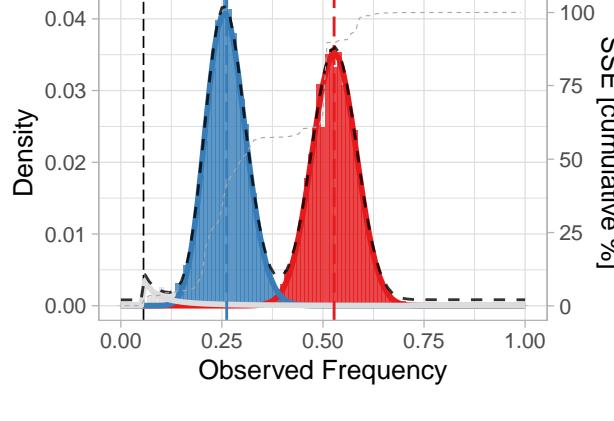
1:0

1:1

1:1

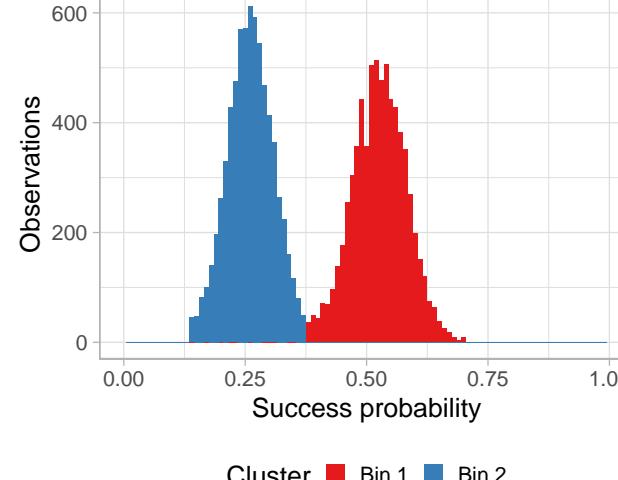
Karyotype: 2:1

N = 14354; Tail 2.16%, C1 48.05%, C2 49.79%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$

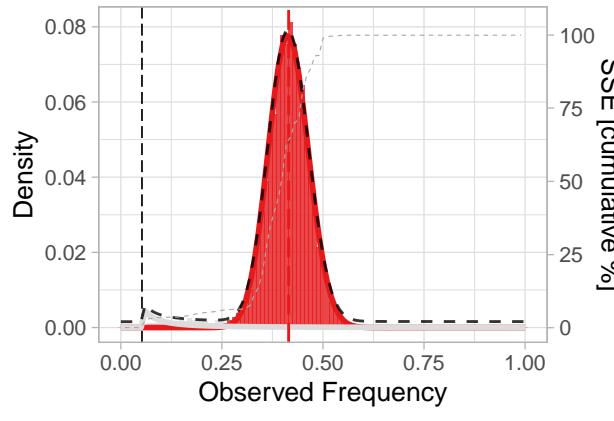


2:0

2:0

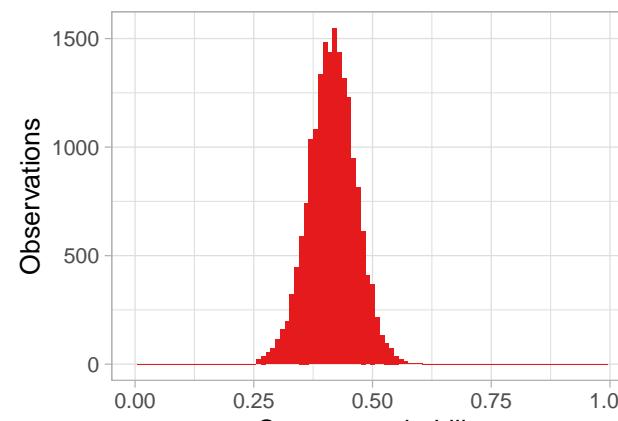
Karyotype: 2:2

N = 19031; Tail 3.73%, C1 96.27%



Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$

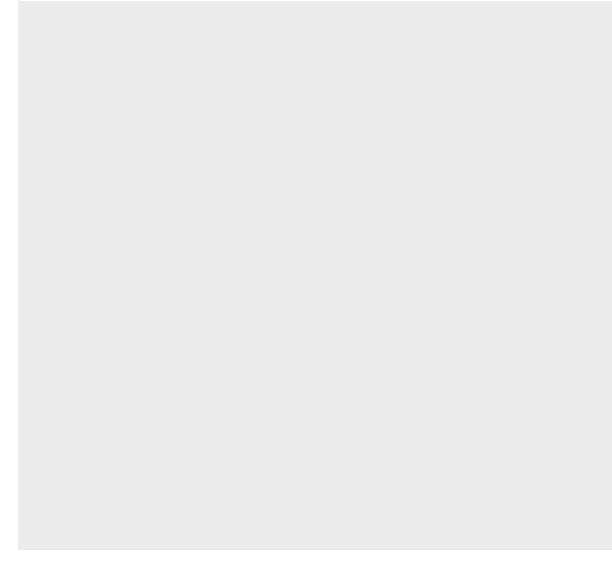
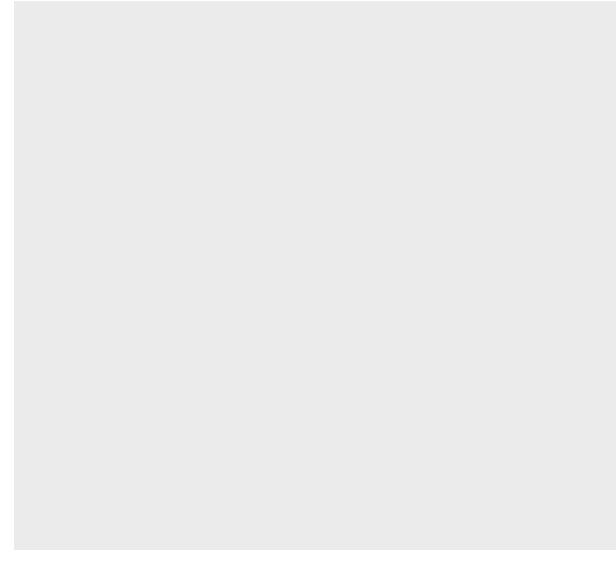


160912_HMFregCPCT_FR12244669_FR12251782_CPCT02060013

ONLY SNVs (min 150 – max 50000)

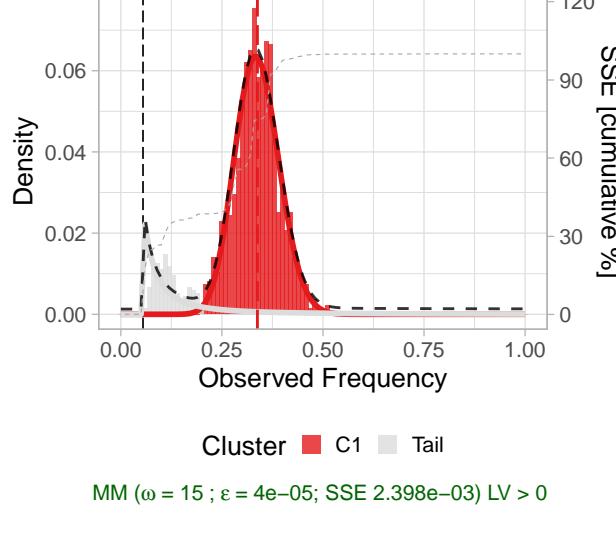
1:0

1:0



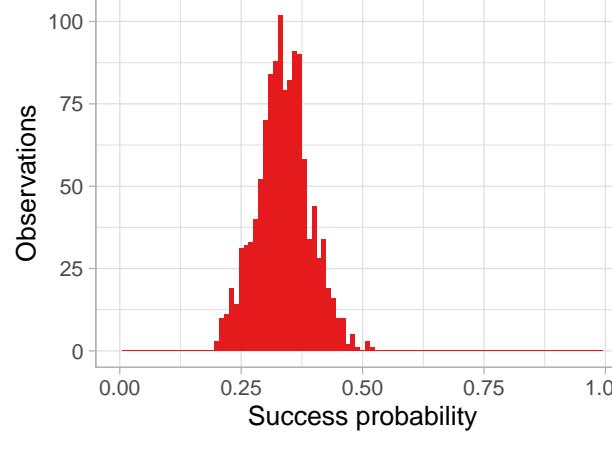
Karyotype: 1:1

N = 1354; Tail 13.54%, C1 86.46%



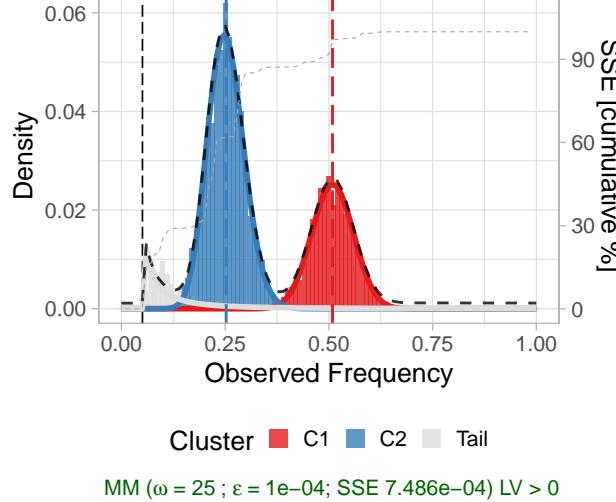
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



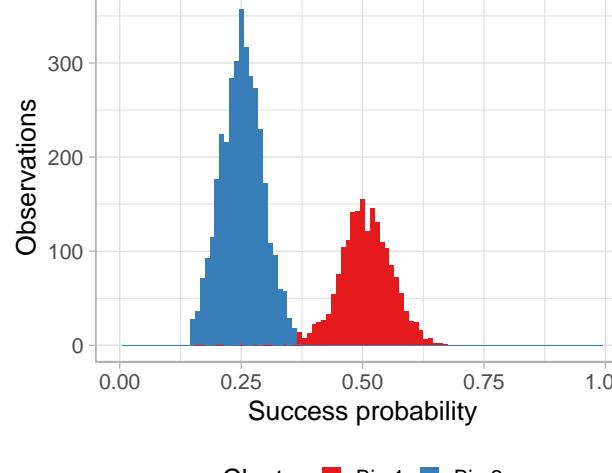
Karyotype: 2:1

N = 5757; Tail 7.46%, C1 31.78%, C2 60.77%



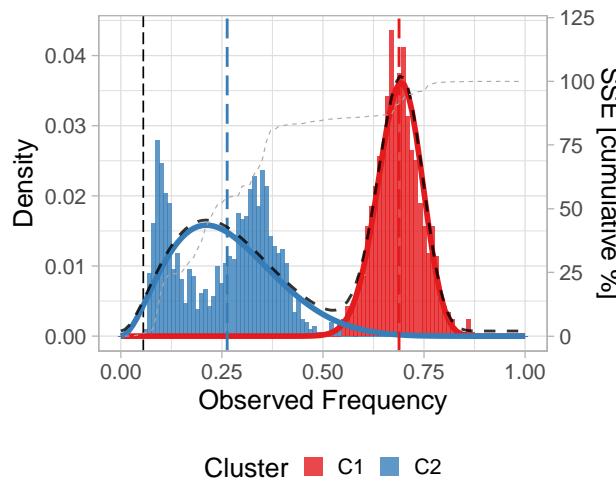
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



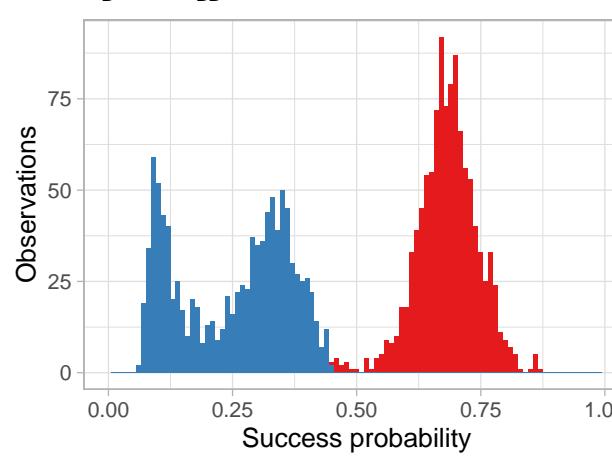
Karyotype: 2:0

N = 2110; Tail 0%, C1 49.57%, C2 50.43%



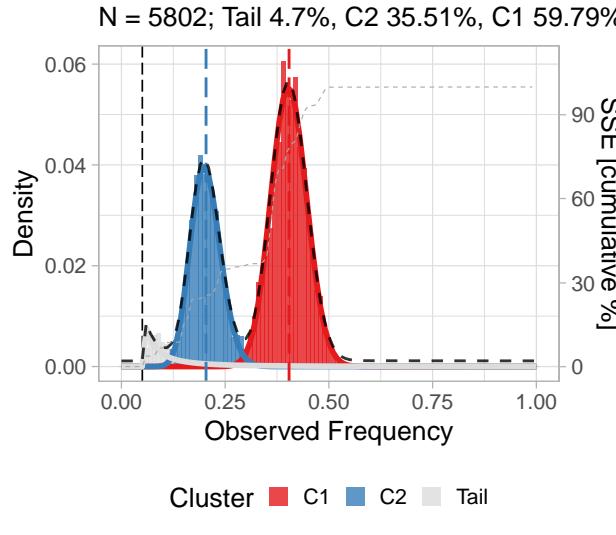
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



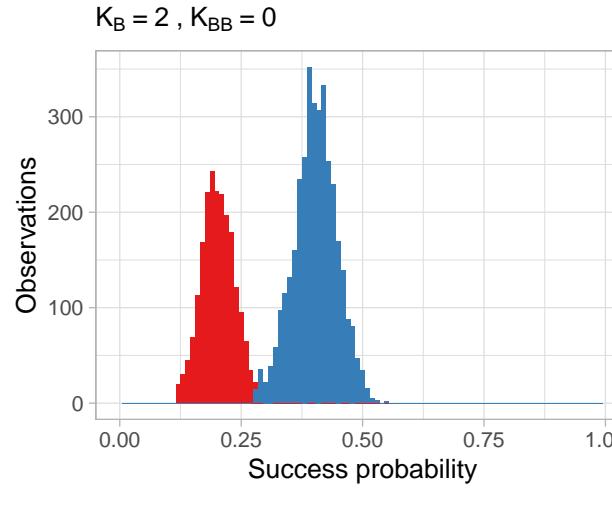
Karyotype: 2:2

N = 5802; Tail 4.7%, C2 35.51%, C1 59.79%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

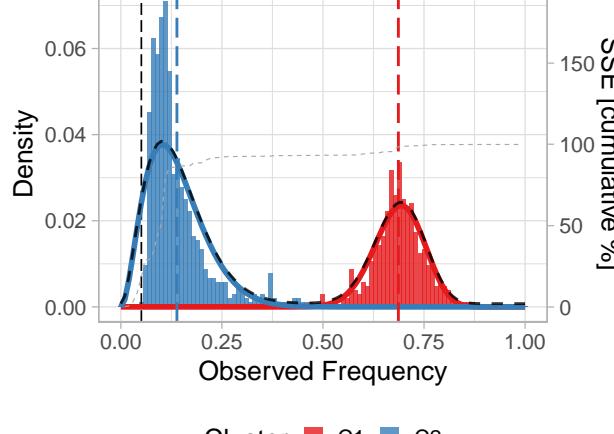


160913_HMFregCPCT_FR10302733_FR12251521_CPCT02060022

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

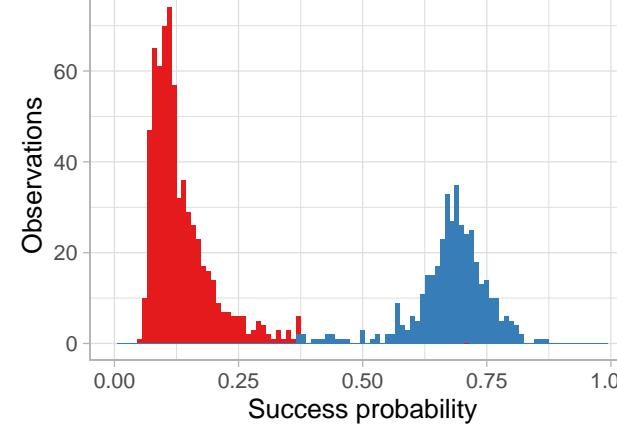
N = 1042; Tail 0%, C1 36.4%, C2 63.6%



MM ($\omega = 27$; $\epsilon = 3e-03$; SSE $6.248e-03$) LV > 0

Karyotype: 1:0

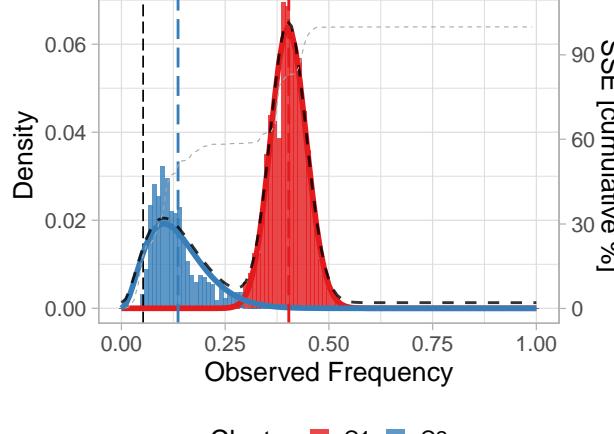
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

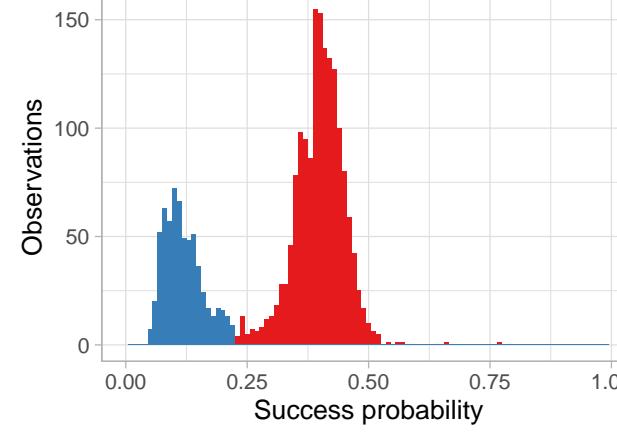
N = 2231; Tail 0%, C2 31.46%, C1 68.54%



MM ($\omega = 55$; $\epsilon = 2e-03$; SSE $1.508e-03$) LV > 0

Karyotype: 1:1

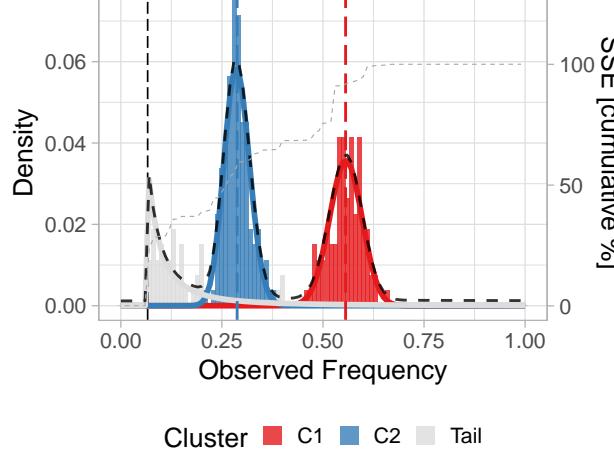
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

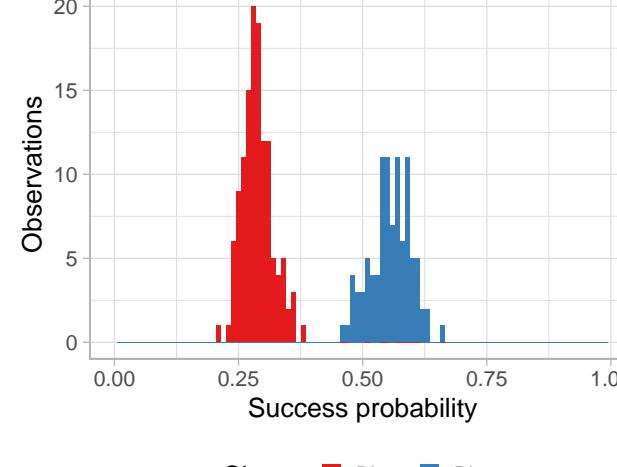
N = 266; Tail 18.1%, C1 35.82%, C2 46.08%



MM ($\omega = 42$; $\epsilon = 9e-06$; SSE $3.157e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:0

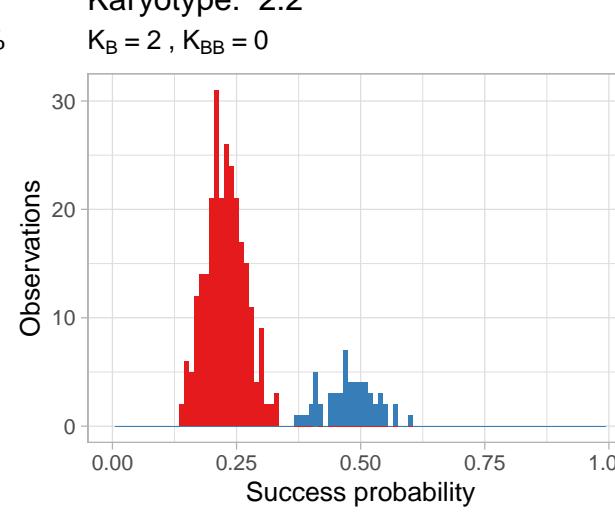
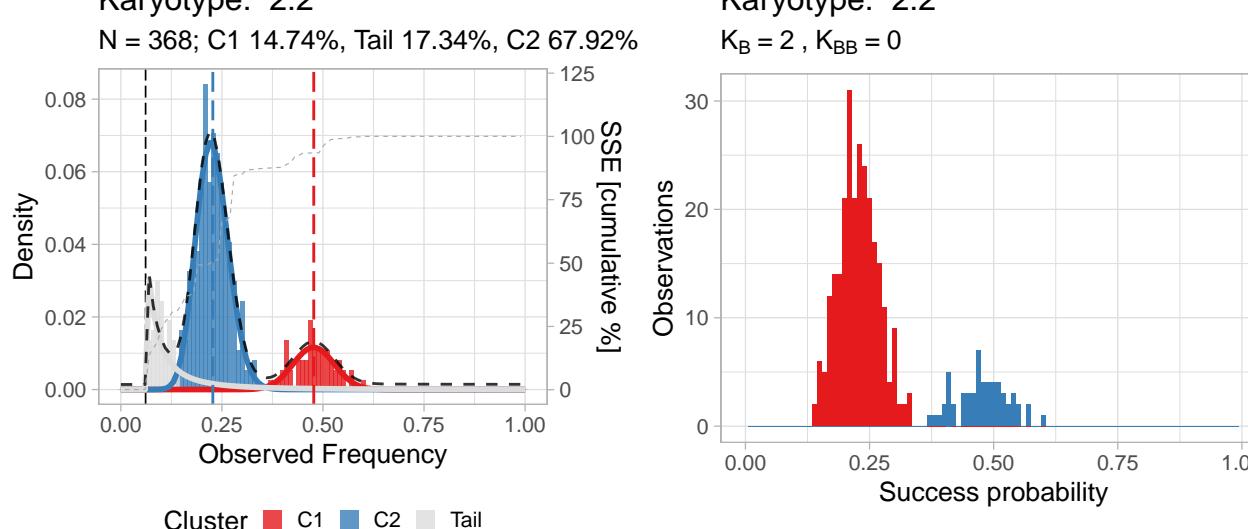
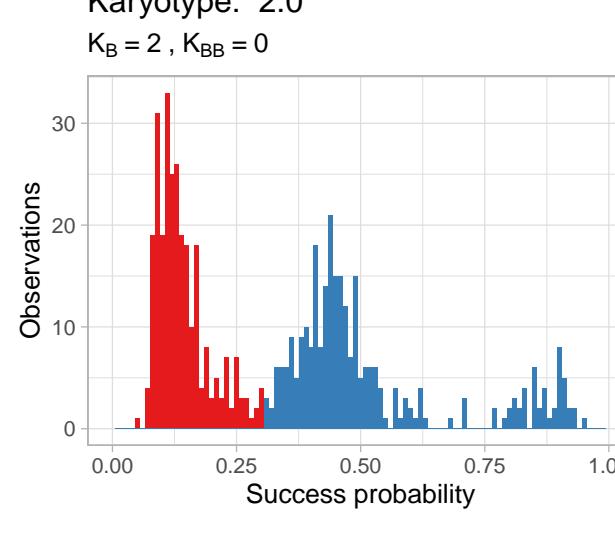
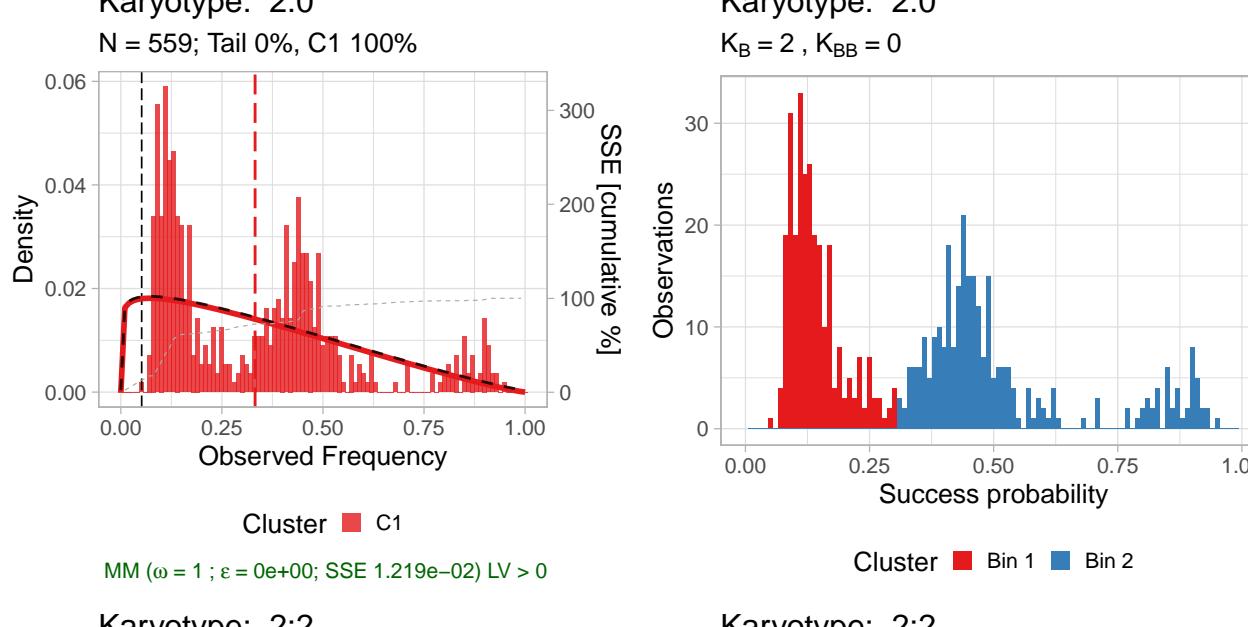
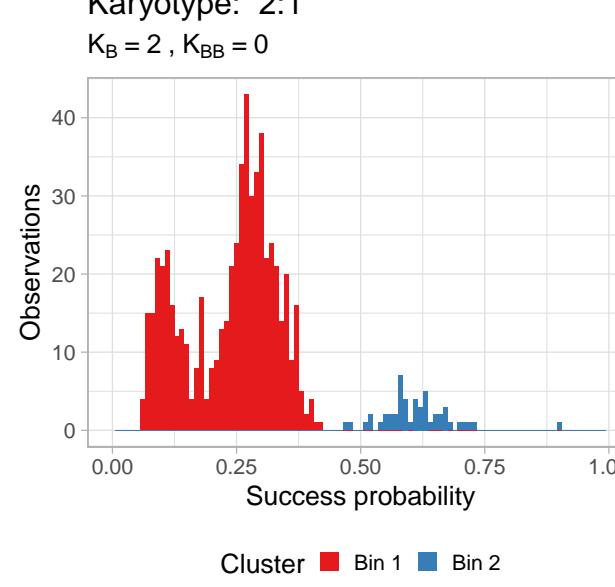
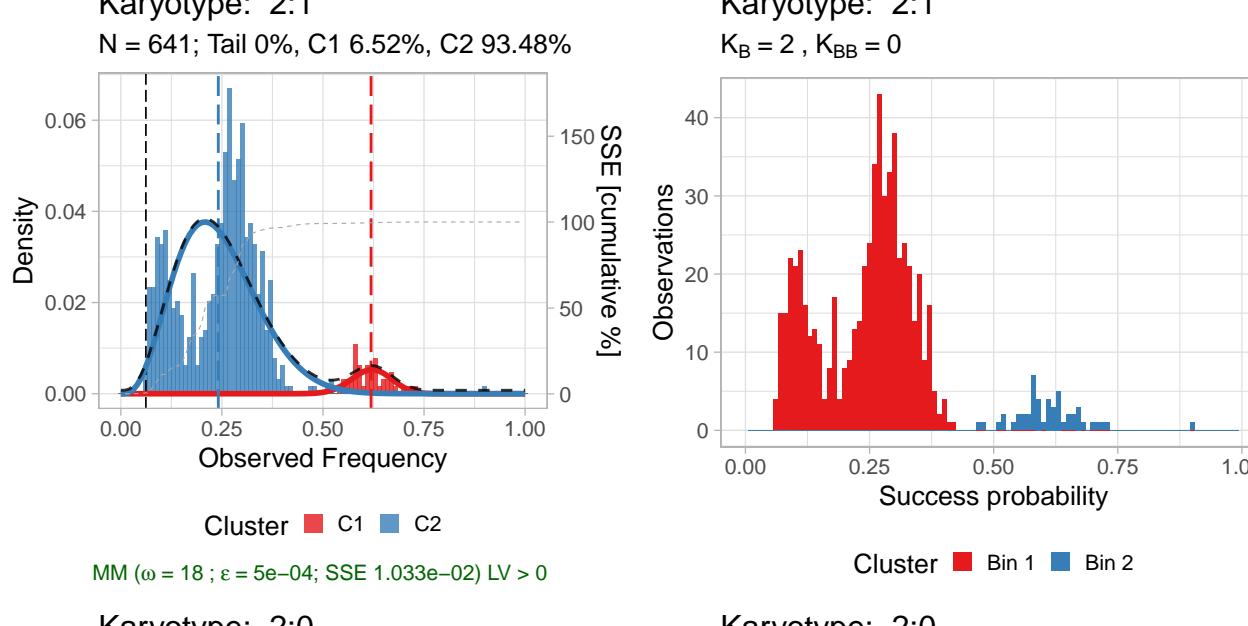
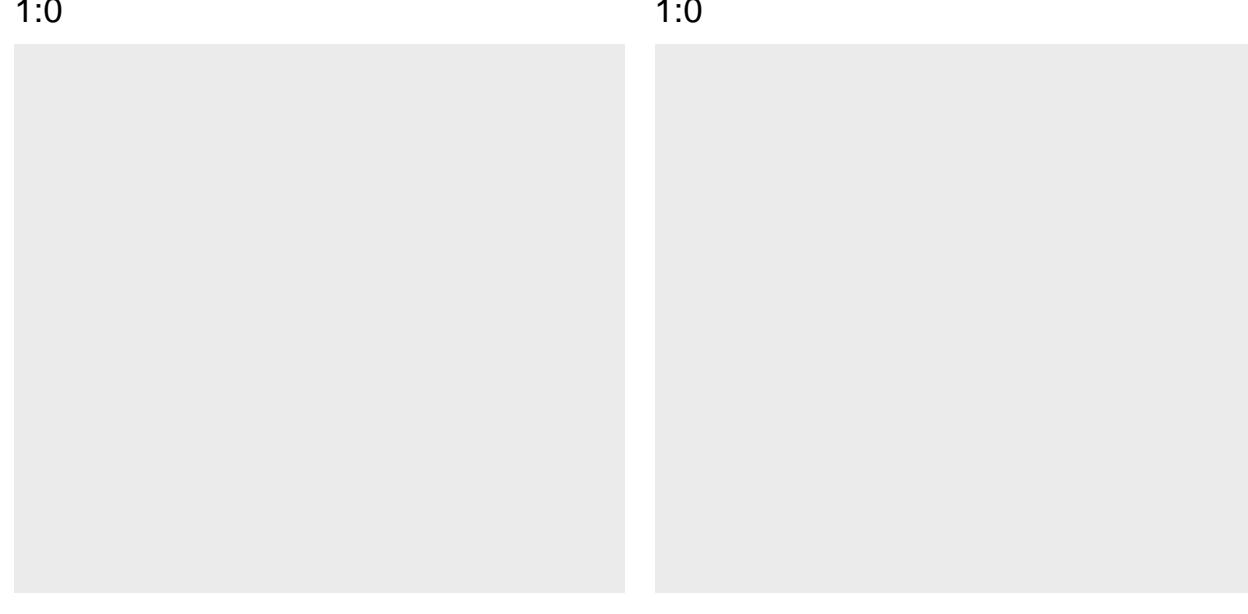
2:0

2:2

2:2

160913_HMFregCPCT_FR10304584_FR12251950_CPCT02070009

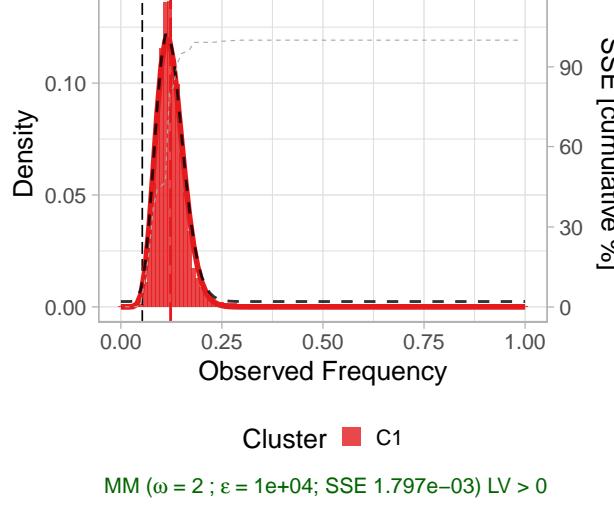
ONLY SNVs (min 150 – max 50000)



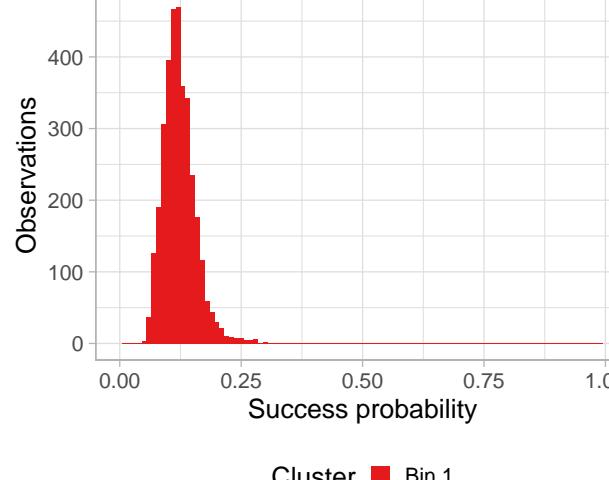
160913_HMFregCPCT_FR12244671_FR12251958_CPCT02020334

ONLY SNVs (min 150 – max 50000)

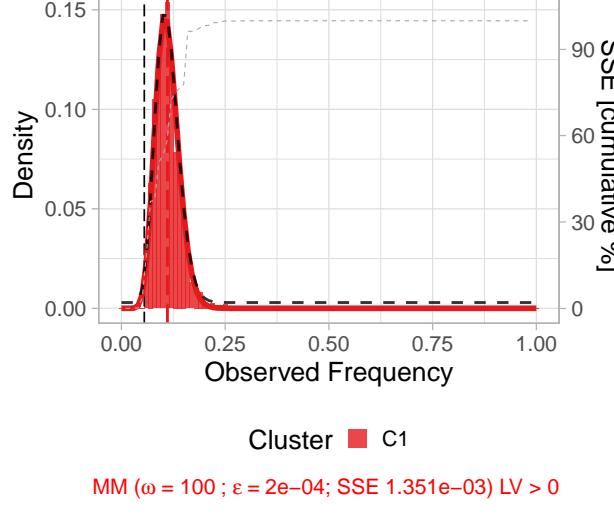
Karyotype: 1:0
N = 3432; Tail 0%, C1 100%



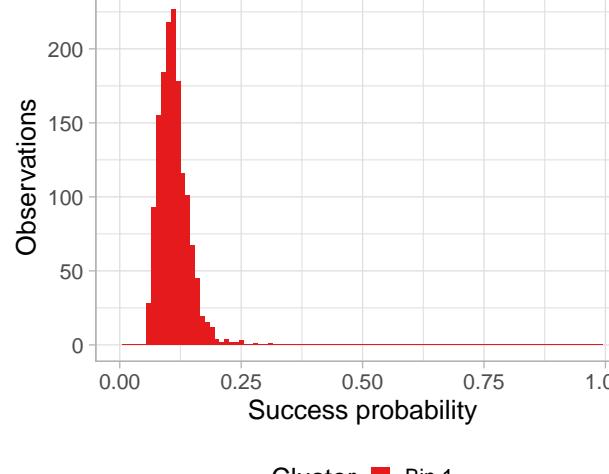
Karyotype: 1:0
 $K_B = 1$, $K_{BB} = 0$



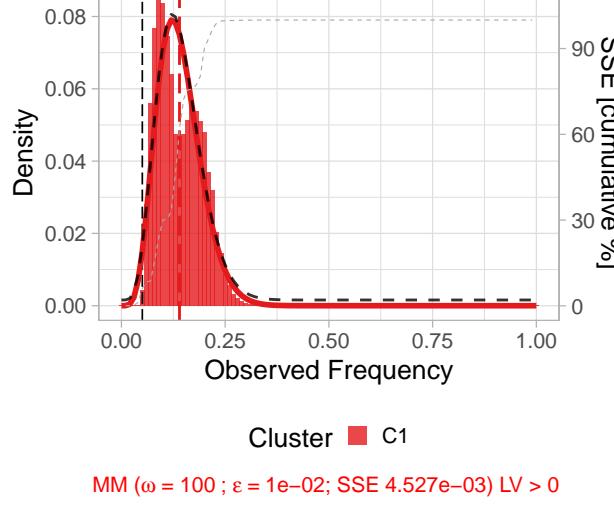
Karyotype: 1:1
N = 1477; Tail 0%, C1 100%



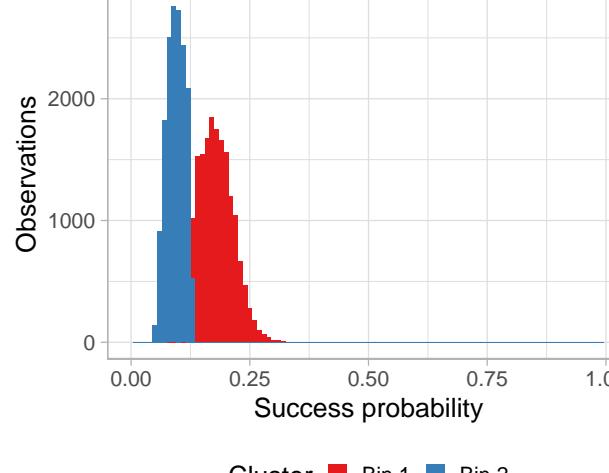
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



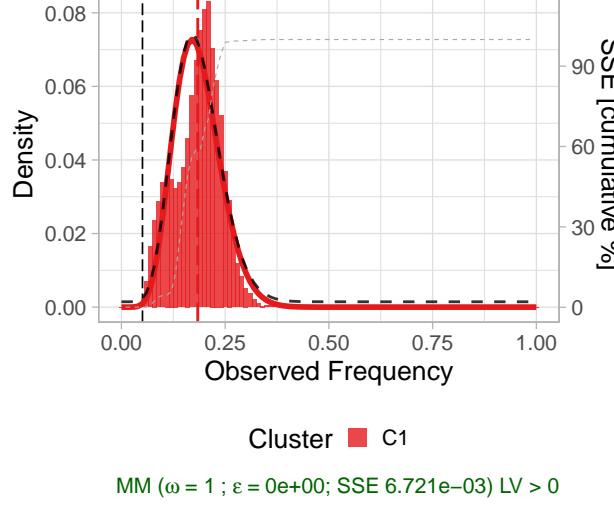
Karyotype: 2:1
N = 32617; Tail 0%, C1 100%



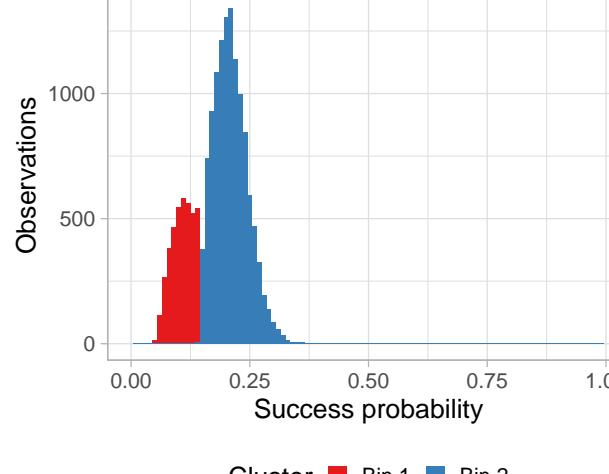
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



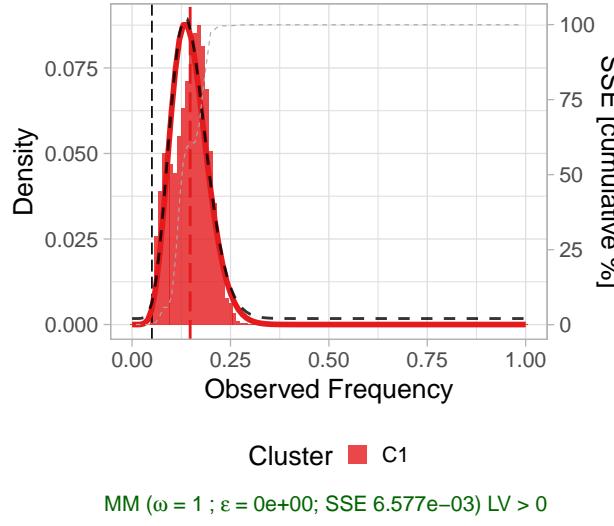
Karyotype: 2:0
N = 16156; Tail 0%, C1 100%



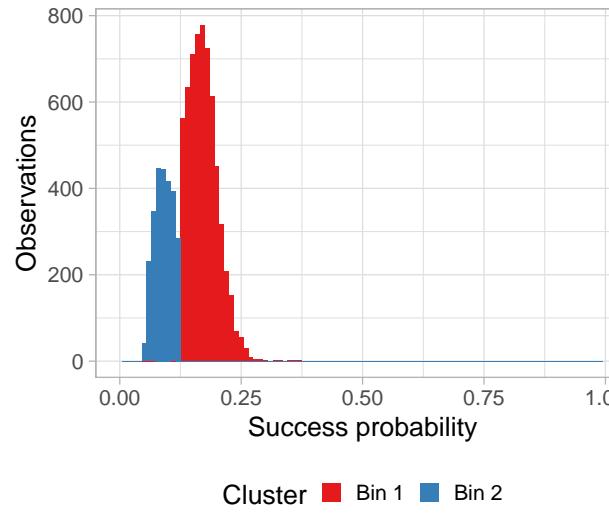
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 8897; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

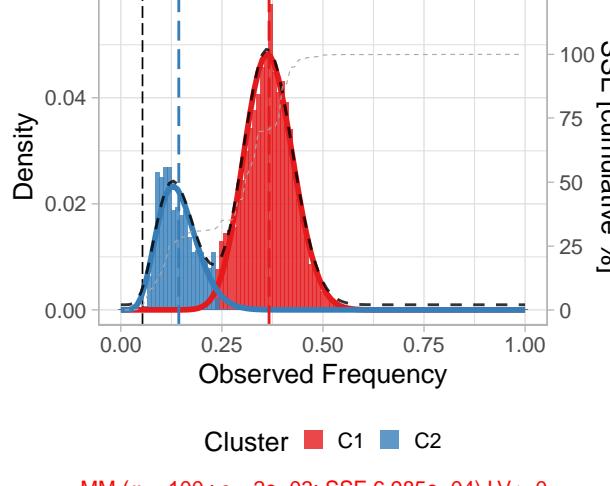


160916_HMFregCPCT_FR10302712_FR12254167_CPCT02030261

ONLY SNVs (min 150 – max 50000)

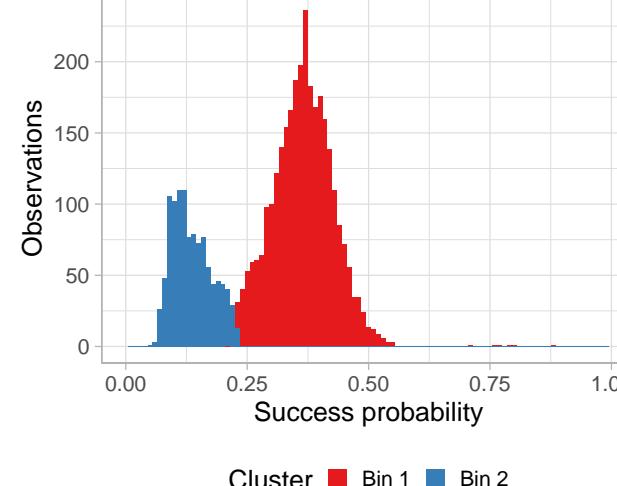
Karyotype: 1:0

N = 4092; Tail 0%, C2 27.78%, C1 72.22%



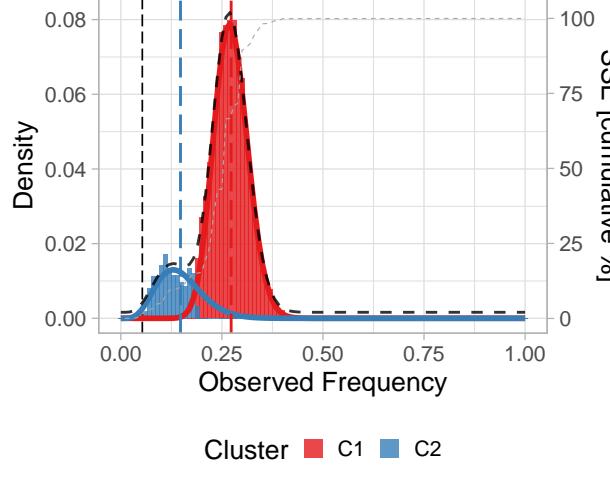
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



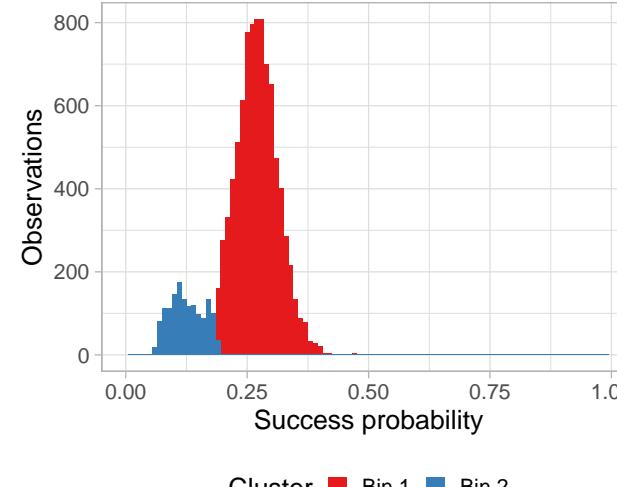
Karyotype: 1:1

N = 10125; Tail 0%, C2 17.43%, C1 82.57%



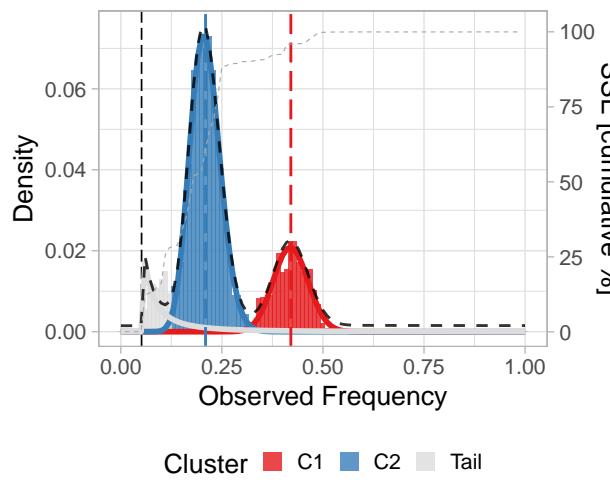
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



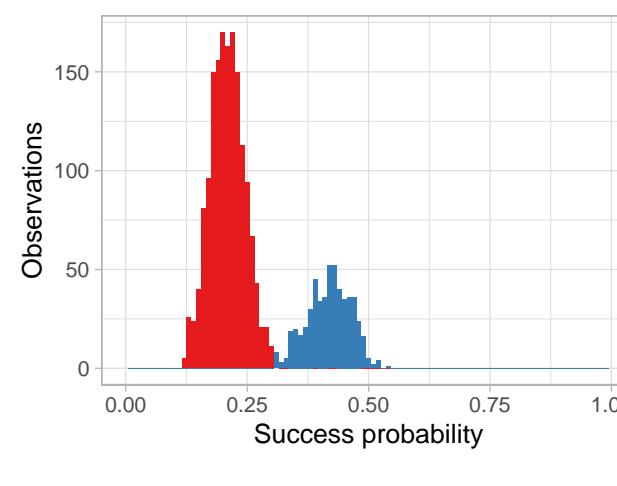
Karyotype: 2:1

N = 2325; Tail 9.8%, C1 22.35%, C2 67.85%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

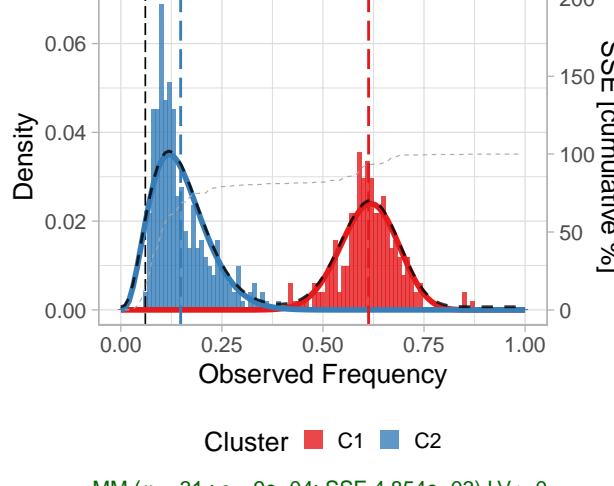
2:2

160916_HMFregCPCT_FR10302739_FR12251877_CPCT02040035

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

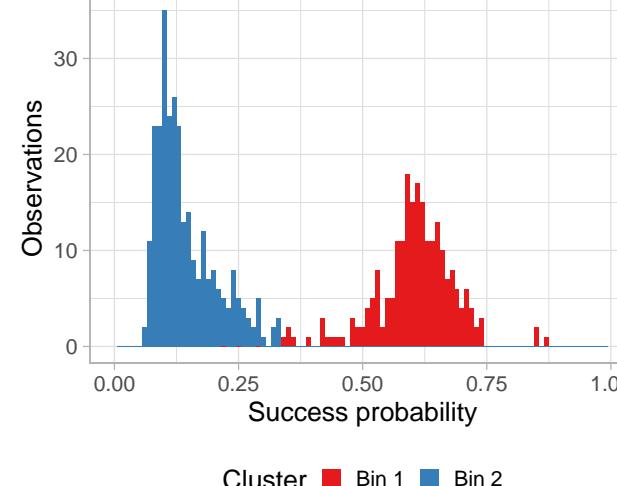
N = 508; Tail 0%, C1 42.81%, C2 57.19%



MM ($\omega = 31$; $\epsilon = 9e-04$; SSE 4.854e-03) LV > 0

Karyotype: 1:0

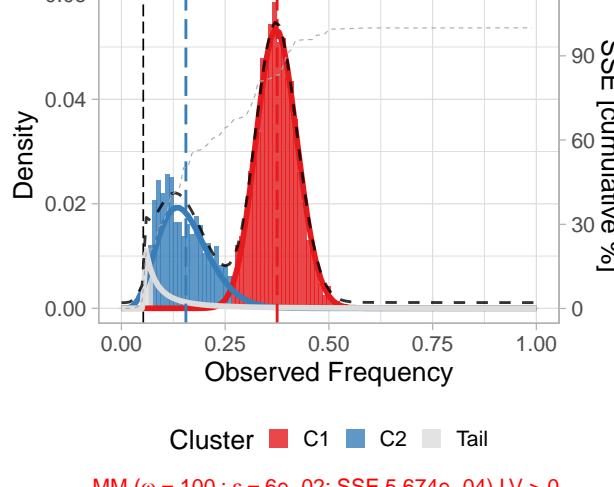
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 1:1

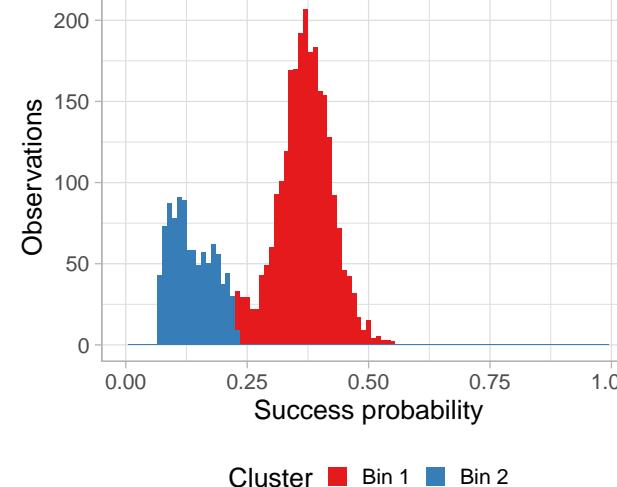
N = 3537; Tail 5.74%, C2 28.41%, C1 65.86%



MM ($\omega = 100$; $\epsilon = 6e-02$; SSE 5.674e-04) LV > 0

Karyotype: 1:1

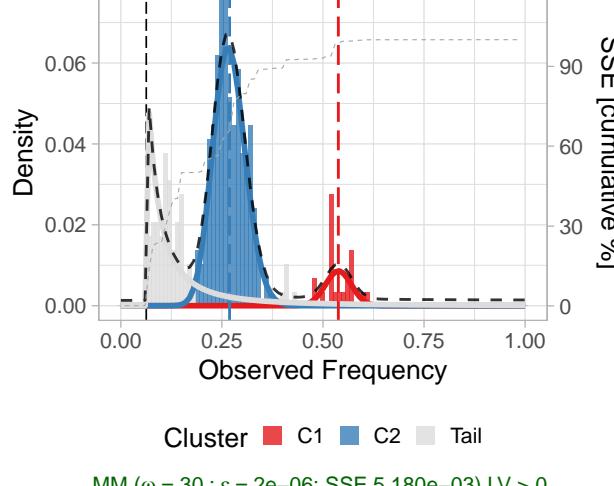
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:1

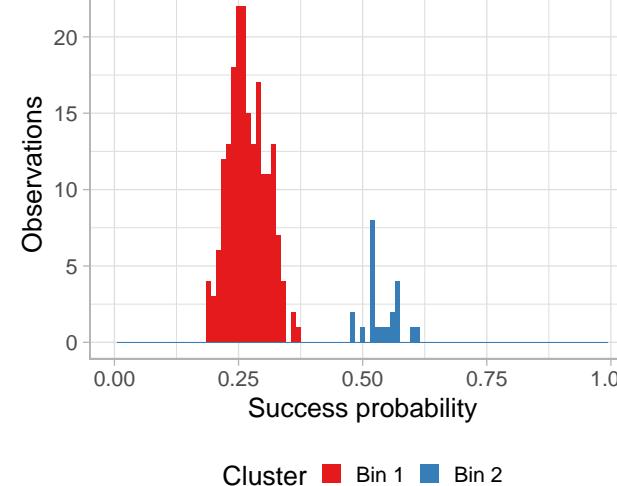
N = 291; C1 6.88%, Tail 29.55%, C2 63.57%



MM ($\omega = 30$; $\epsilon = 2e-06$; SSE 5.180e-03) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

2:0

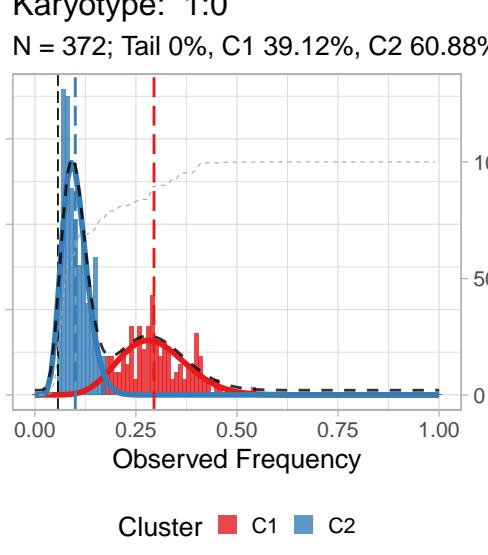
2:0

2:2

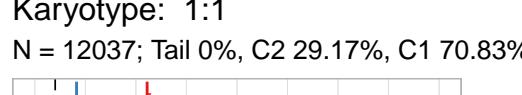
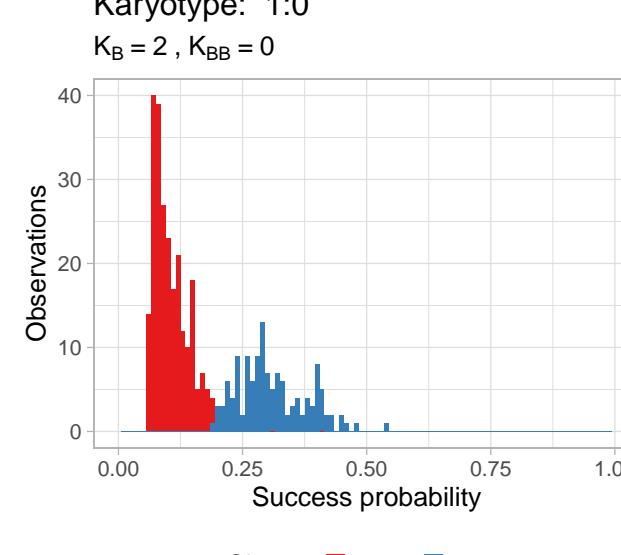
2:2

160916_HMFregCPCT_FR10302747_FR12251536_CPCT02010398

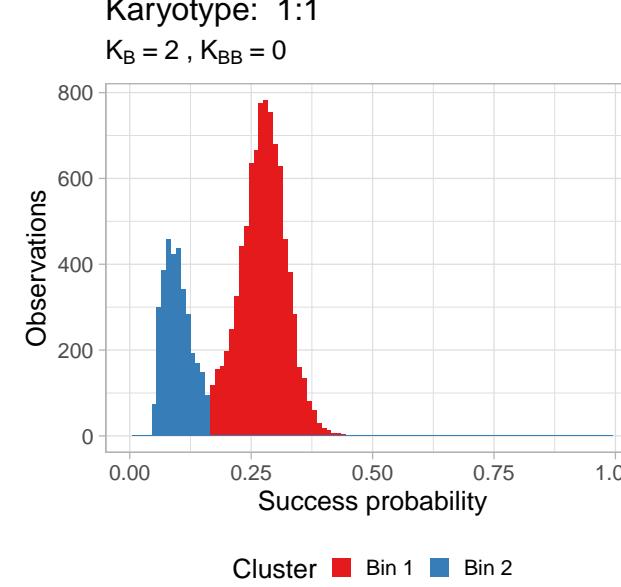
ONLY SNVs (min 150 – max 50000)



MM ($\omega = 83$; $\epsilon = 5e-05$; SSE 6.565e-03) LV > 0



MM ($\omega = 99$; $\epsilon = 2e-03$; SSE 8.663e-04) LV > 0

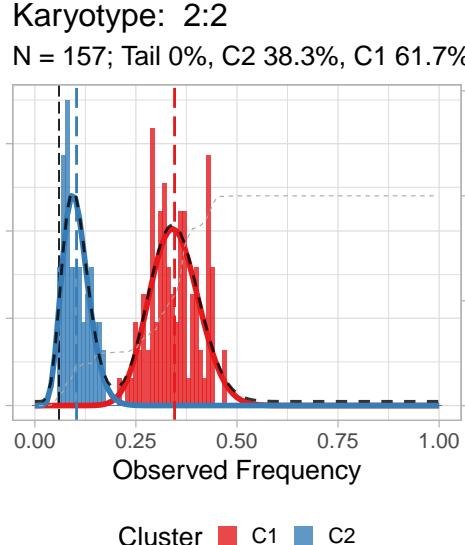


2:1

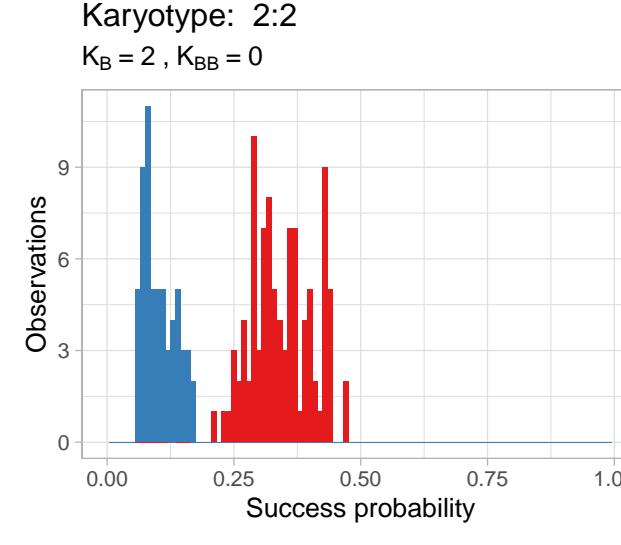
2:1

2:0

2:0

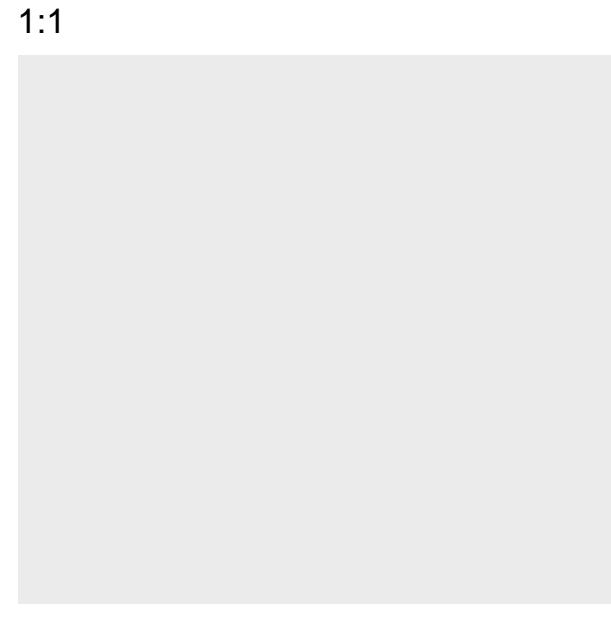
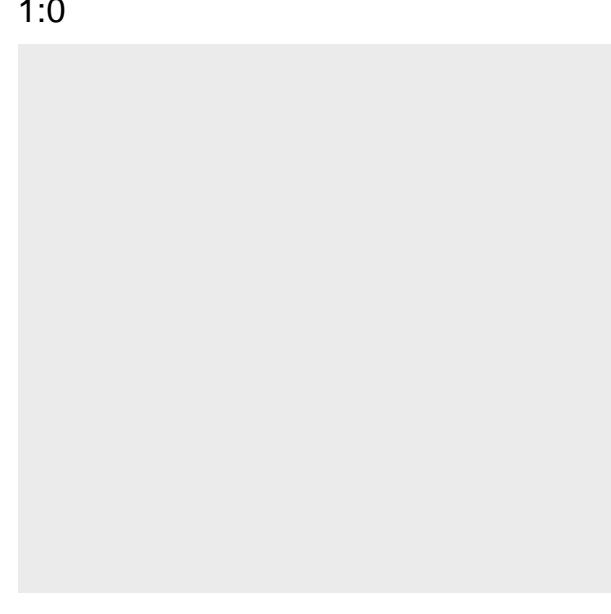
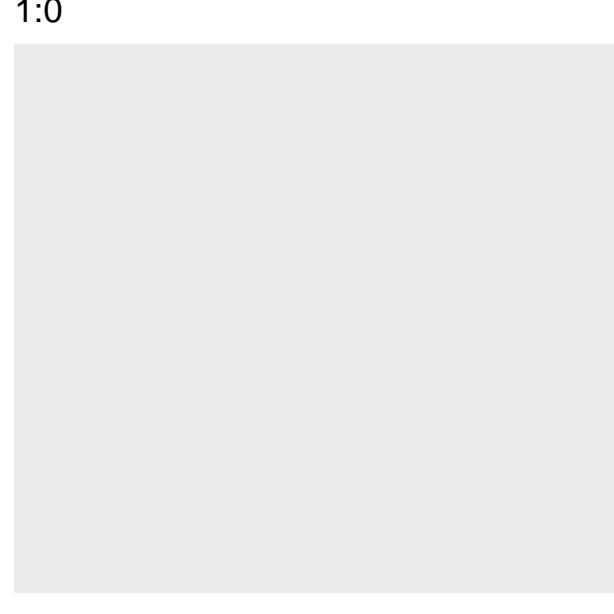


MM ($\omega = 25$; $\epsilon = 4e-05$; SSE 8.209e-03) LV > 0

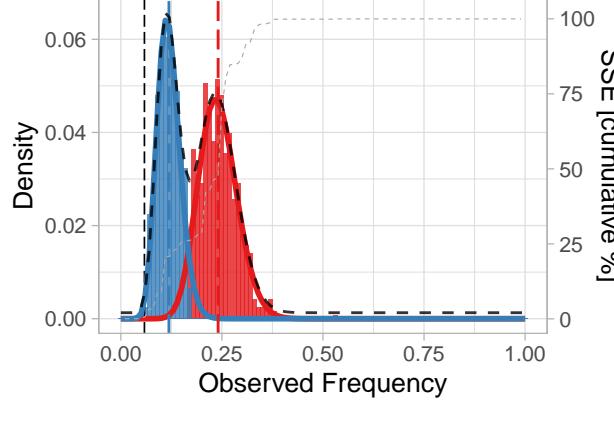


160916_HMFregCPCT_FR10302748_FR12251953_CPCT02020358

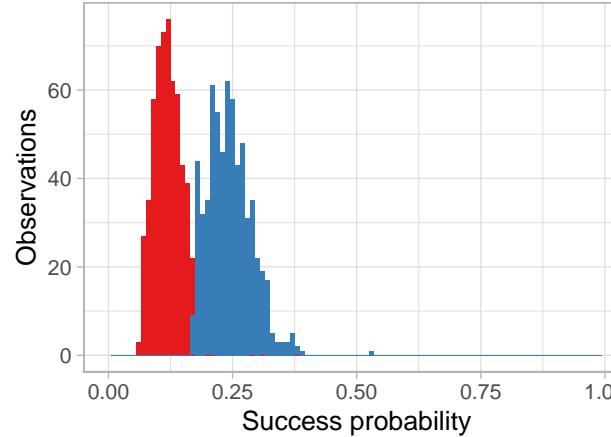
ONLY SNVs (min 150 – max 50000)



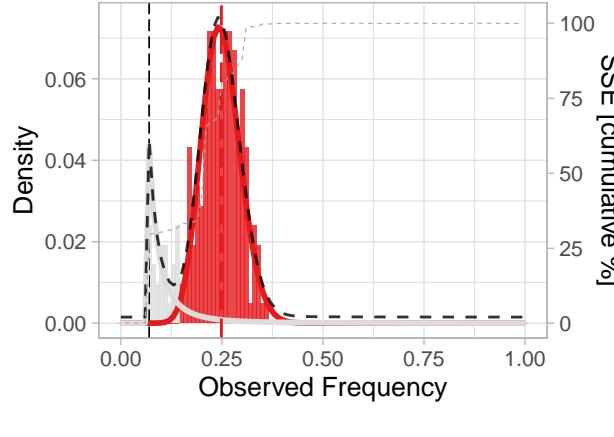
Karyotype: 2:1
N = 1207; Tail 0%, C2 44.79%, C1 55.21%



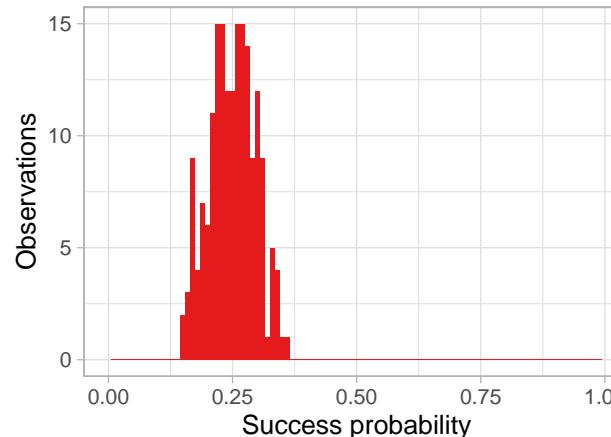
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



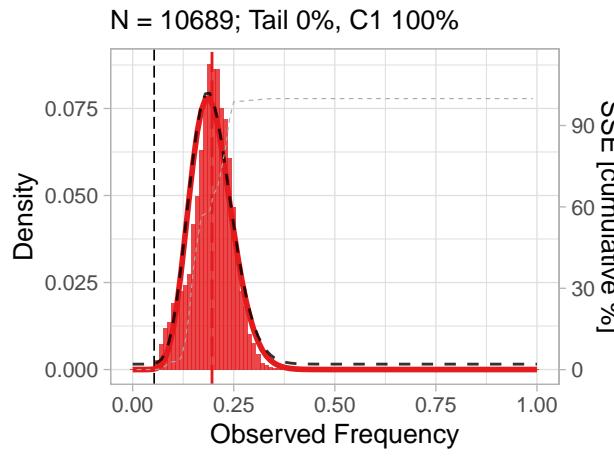
Karyotype: 2:0
N = 209; Tail 14.28%, C1 85.72%



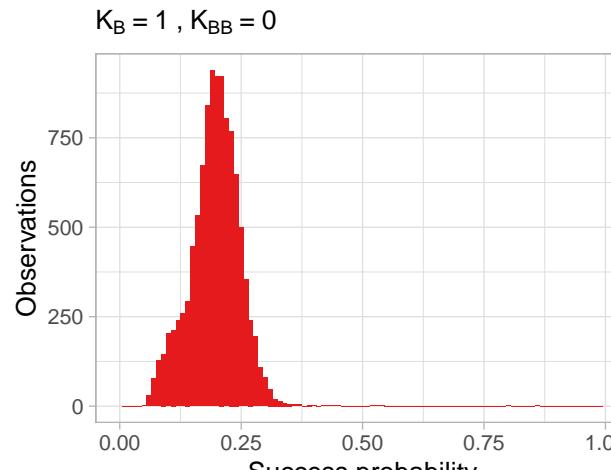
Karyotype: 2:0
 $K_B = 1$, $K_{BB} = 0$



Karyotype: 2:2
N = 10689; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

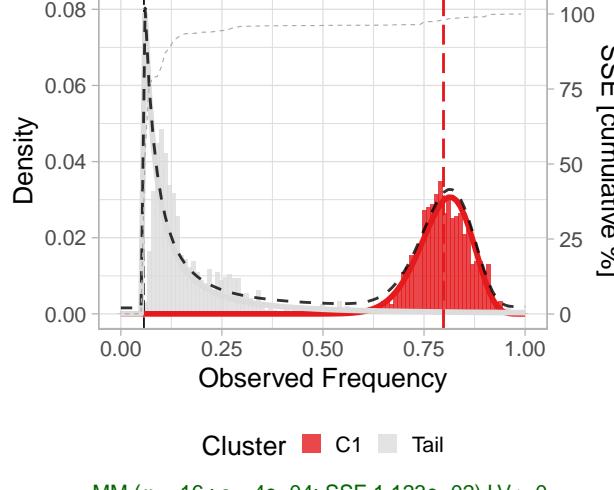


160916_HMFregCPCT_FR10302749_FR12251983_CPCT02020357

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 2392; C1 48.76%, Tail 51.24%



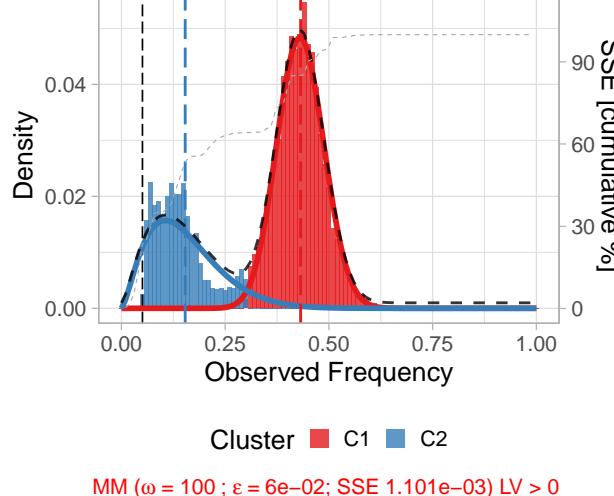
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



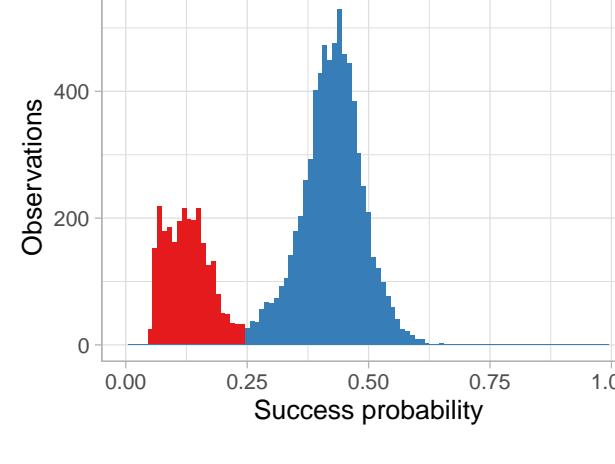
Karyotype: 1:1

N = 9701; Tail 0%, C2 31.42%, C1 68.58%



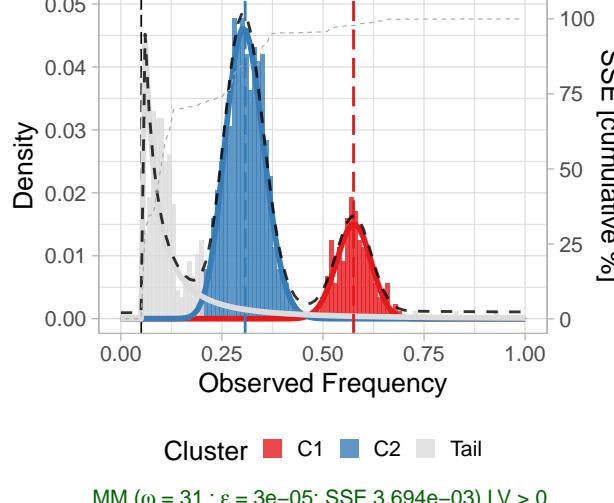
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



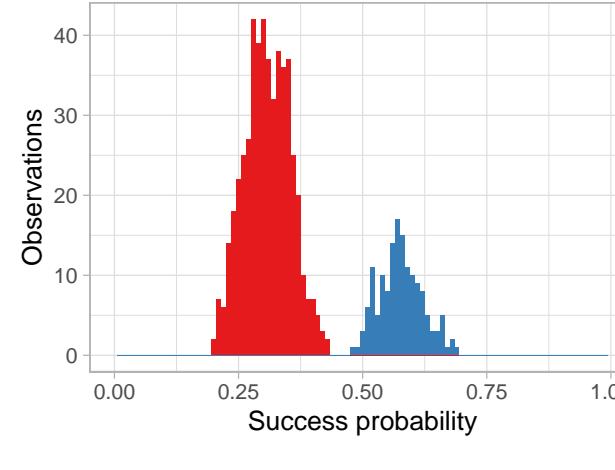
Karyotype: 2:1

N = 881; C1 16.01%, Tail 29.42%, C2 54.57%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster C1 C2 Tail

MM ($\omega = 31$; $\epsilon = 3e-05$; SSE 3.694e-03) LV > 0

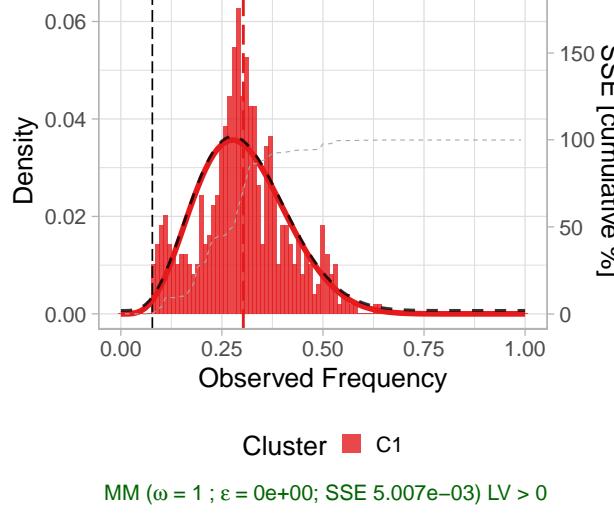
2:0

2:2

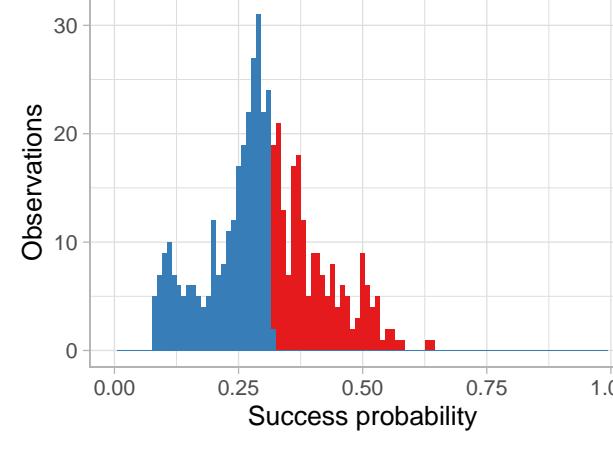
160916_HMFregCPCT_FR10302780_FR12254138_CPCT02010397

ONLY SNVs (min 150 – max 50000)

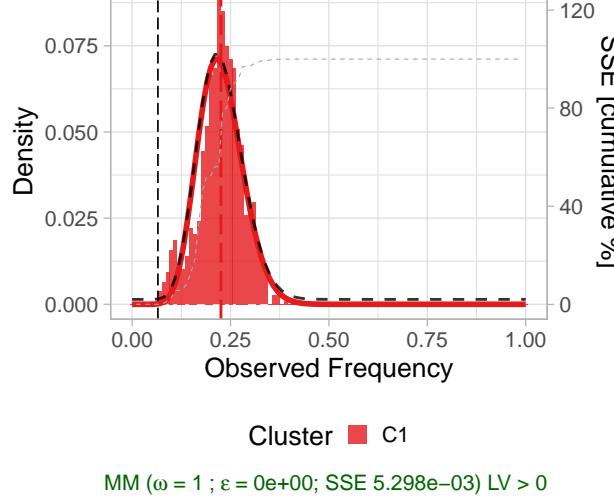
Karyotype: 1:0
N = 494; Tail 0%, C1 100%



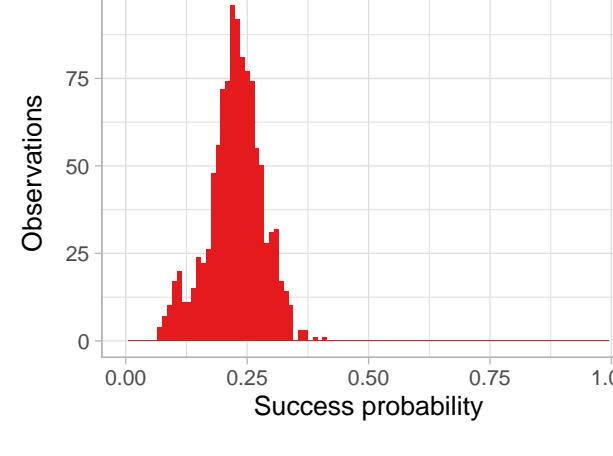
Karyotype: 1:0
 $K_B = 2$, $K_{BB} = 0$



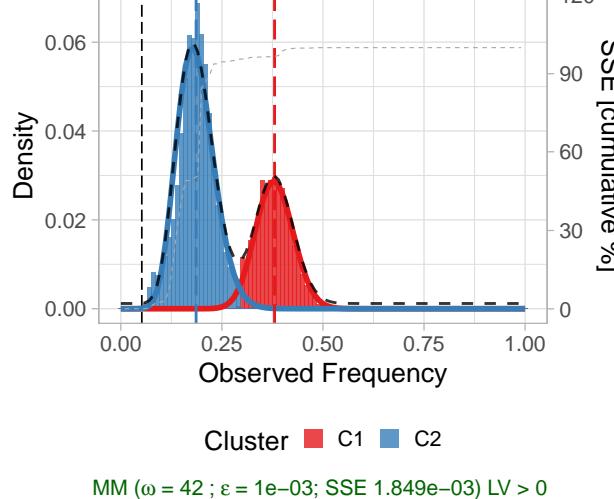
Karyotype: 1:1
N = 1082; Tail 0%, C1 100%



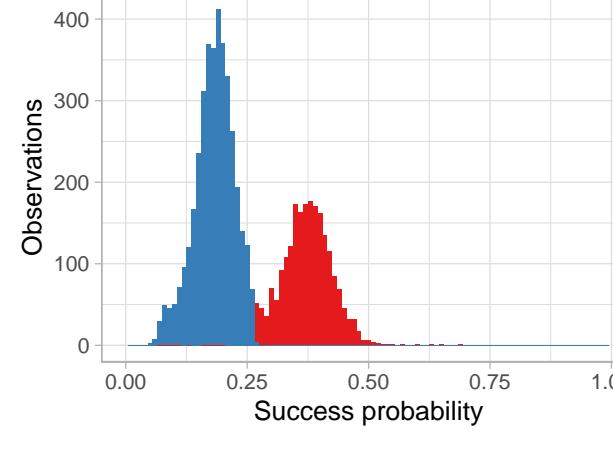
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



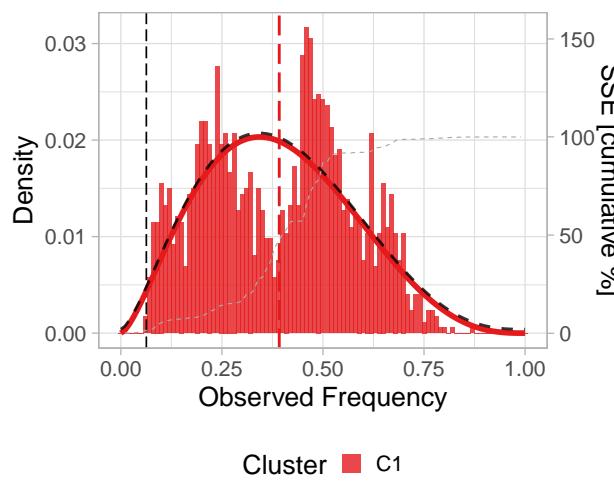
Karyotype: 2:1
N = 5985; Tail 0%, C1 33.5%, C2 66.5%



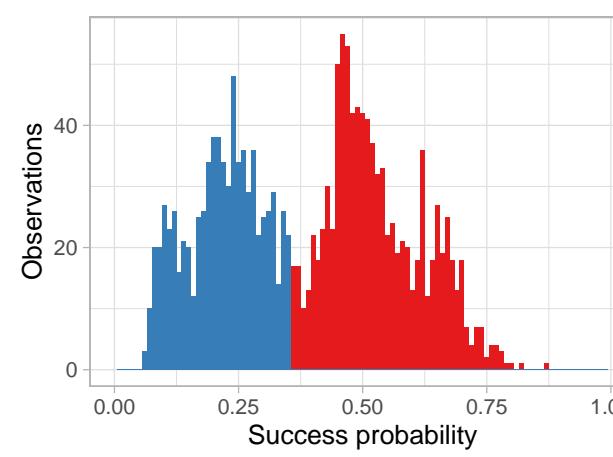
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



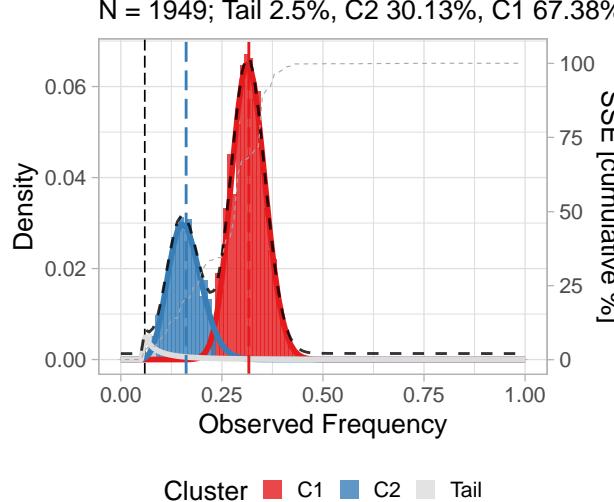
Karyotype: 2:0
N = 1736; Tail 0%, C1 100%



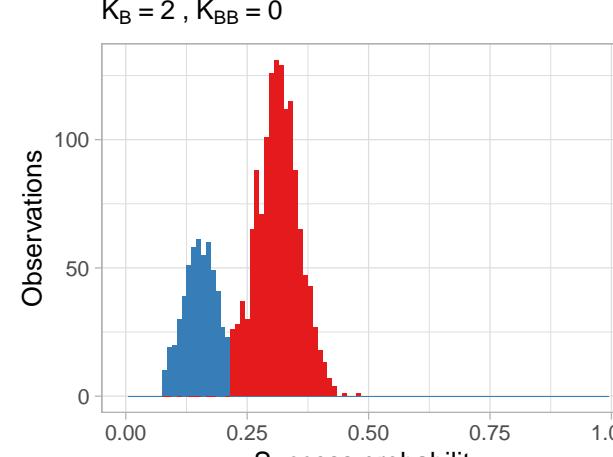
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 1949; Tail 2.5%, C2 30.13%, C1 67.38%

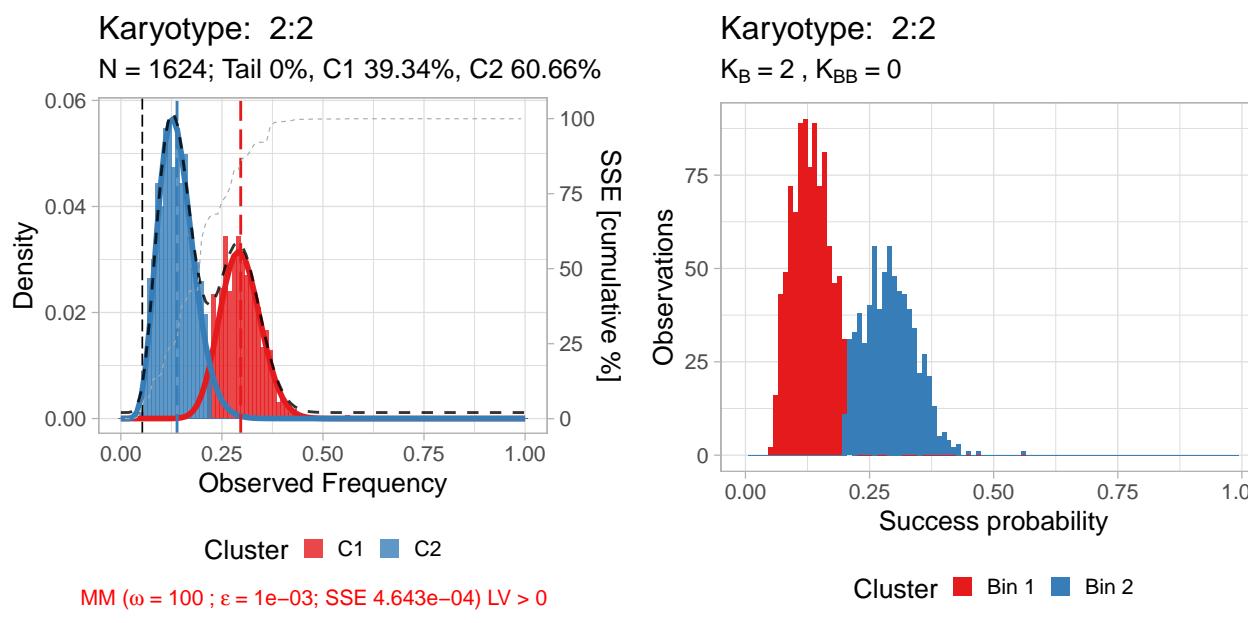
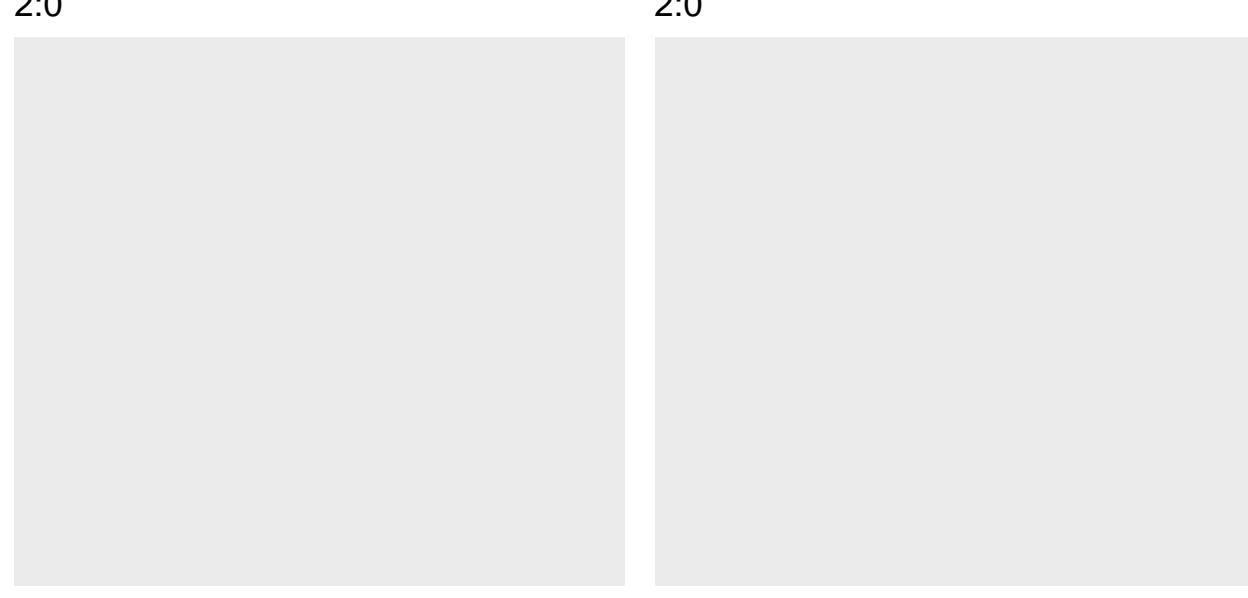
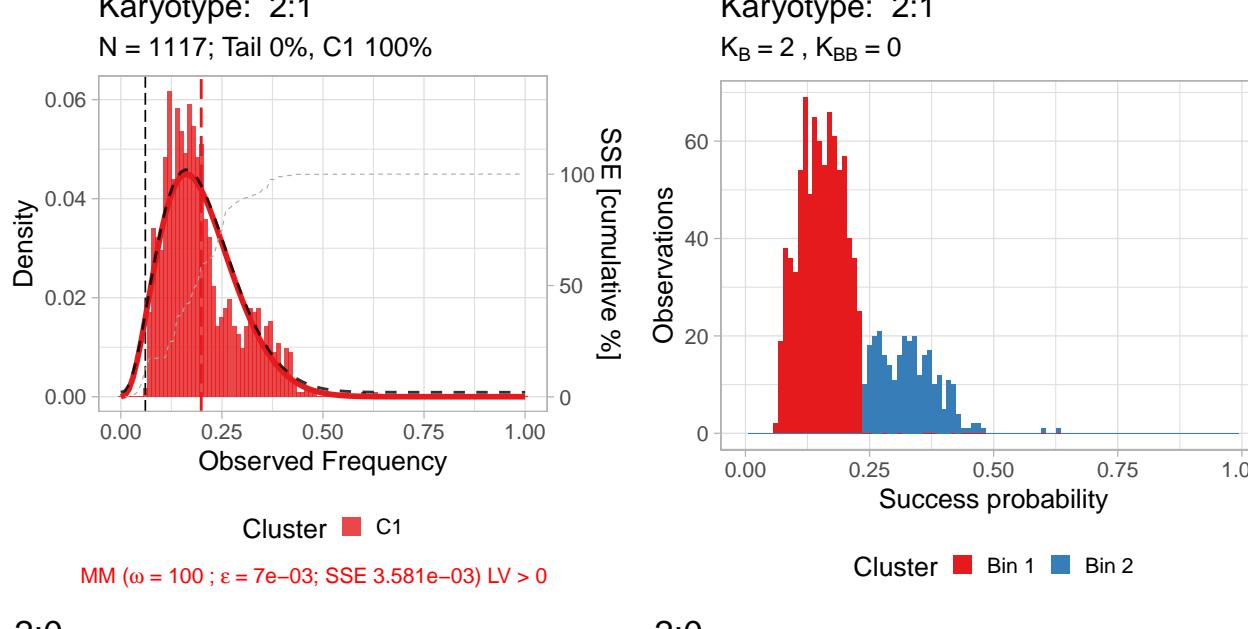
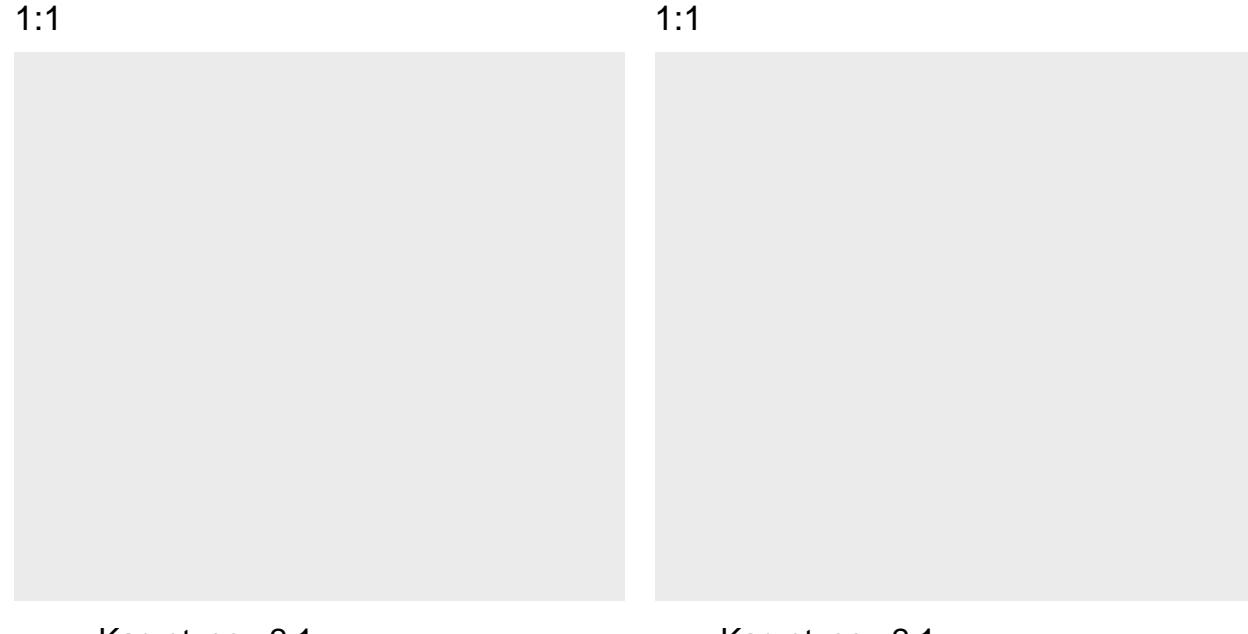
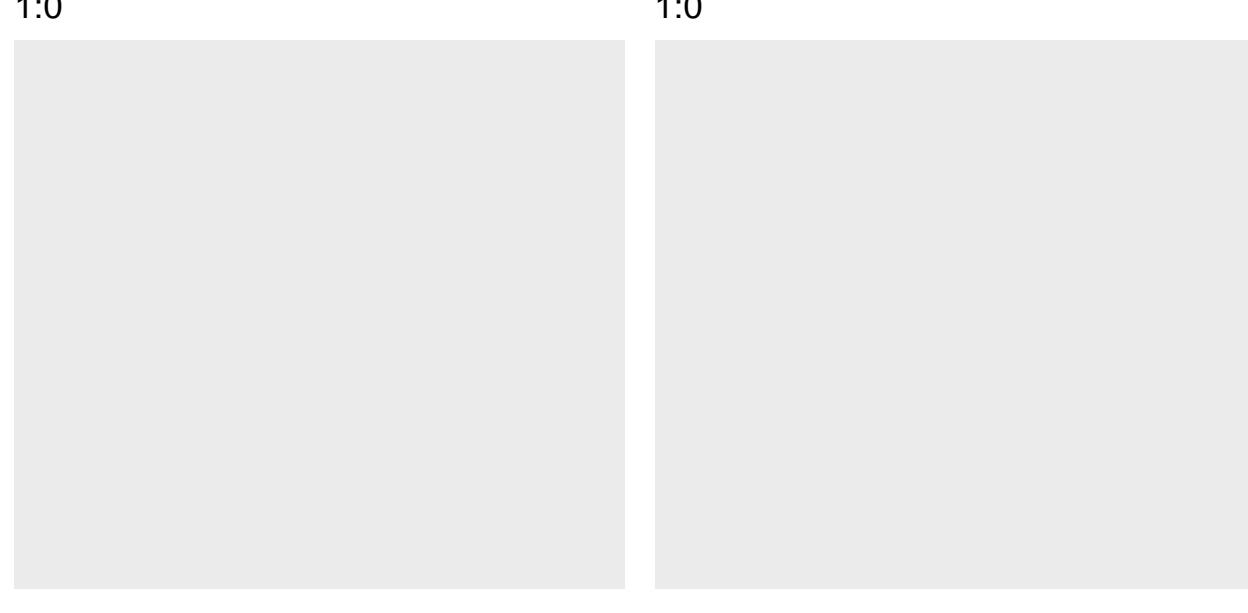


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



160916_HMFregCPCT_FR12251560_FR12251906_CPCT02020351

ONLY SNVs (min 150 – max 50000)

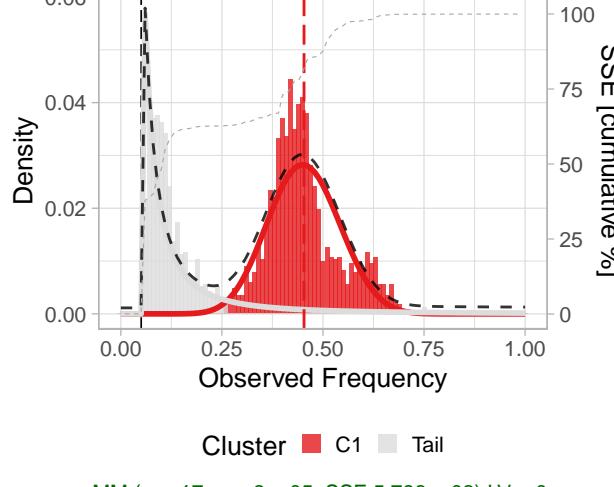


160916_HMFregCPCT_FR12251705_FR12251527_CPCT02110007

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

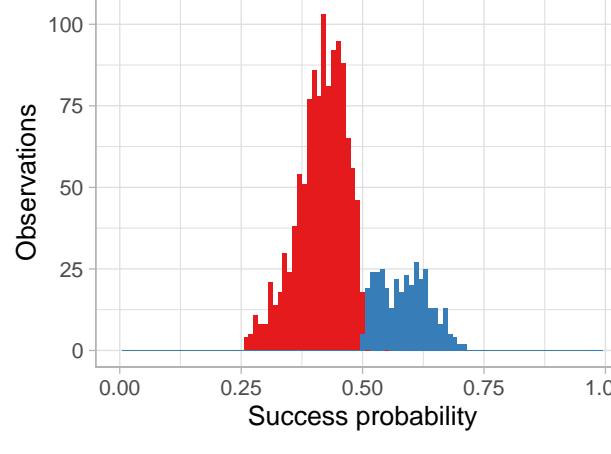
N = 2318; Tail 37.24%, C1 62.76%



MM ($\omega = 17$; $\epsilon = 3e-05$; SSE 5.796e-03) LV > 0

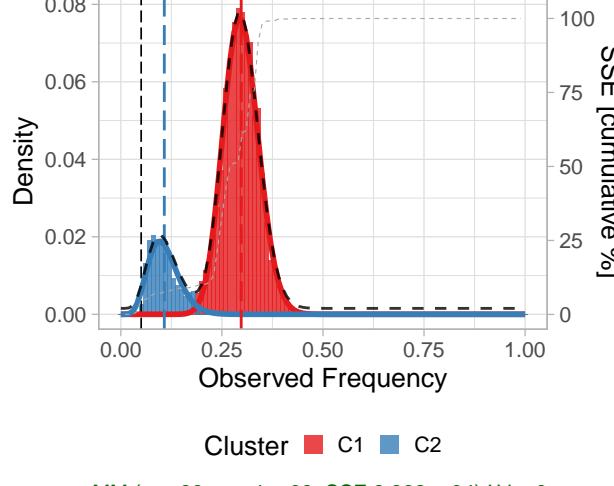
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

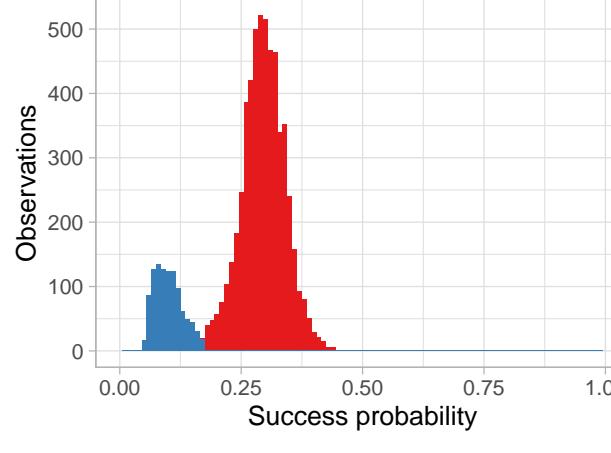
N = 6614; Tail 0%, C2 17.1%, C1 82.9%



MM ($\omega = 89$; $\epsilon = 1e-03$; SSE 8.892e-04) LV > 0

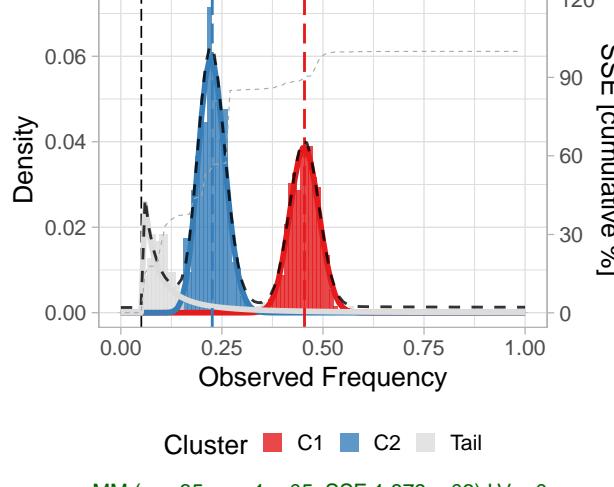
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

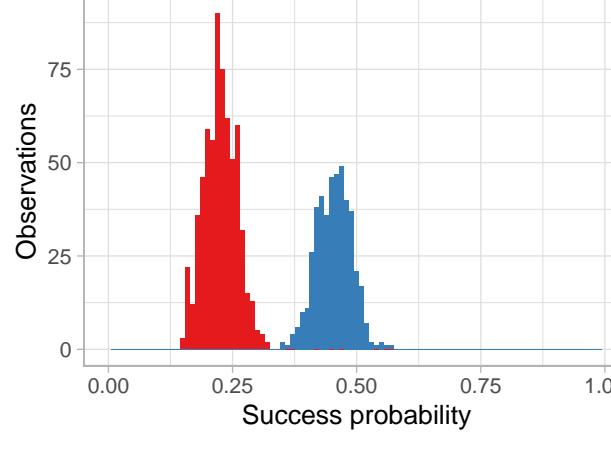
N = 1258; Tail 16.32%, C1 34.88%, C2 48.8%



MM ($\omega = 35$; $\epsilon = 1e-05$; SSE 1.879e-03) LV > 0

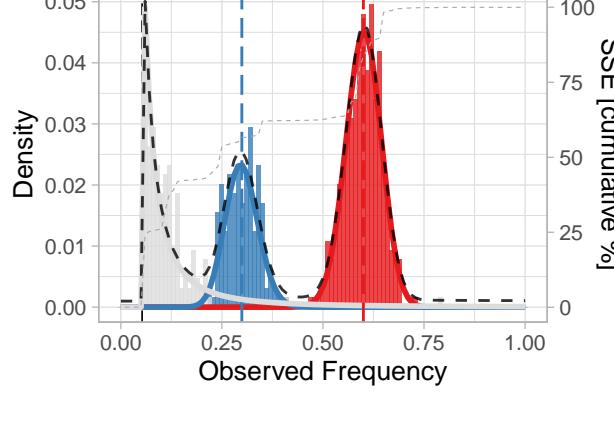
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

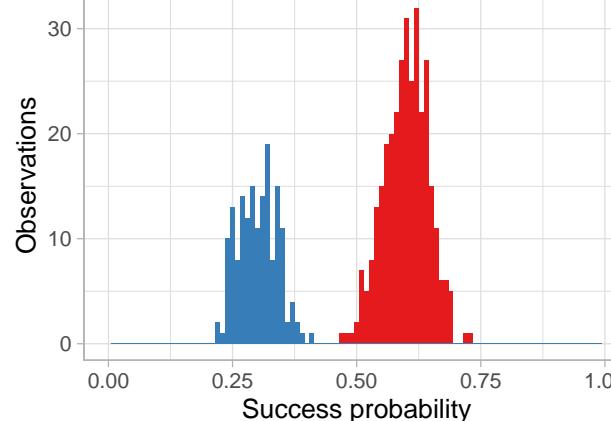
N = 646; C2 23.55%, Tail 27.23%, C1 49.22%



MM ($\omega = 35$; $\epsilon = 8e-06$; SSE 2.447e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

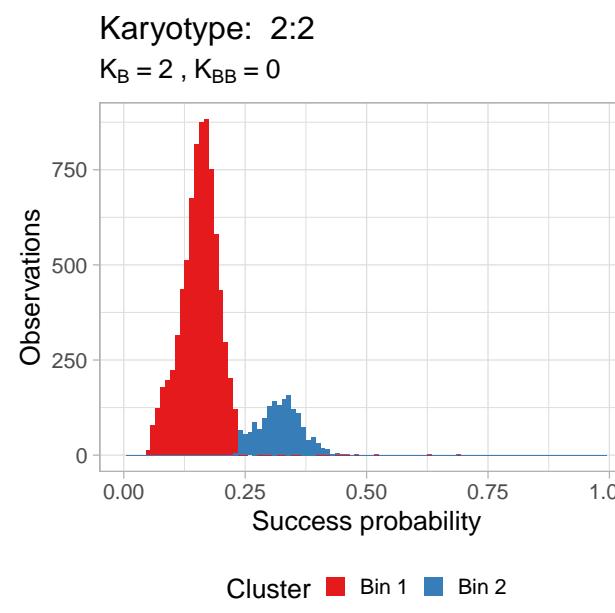
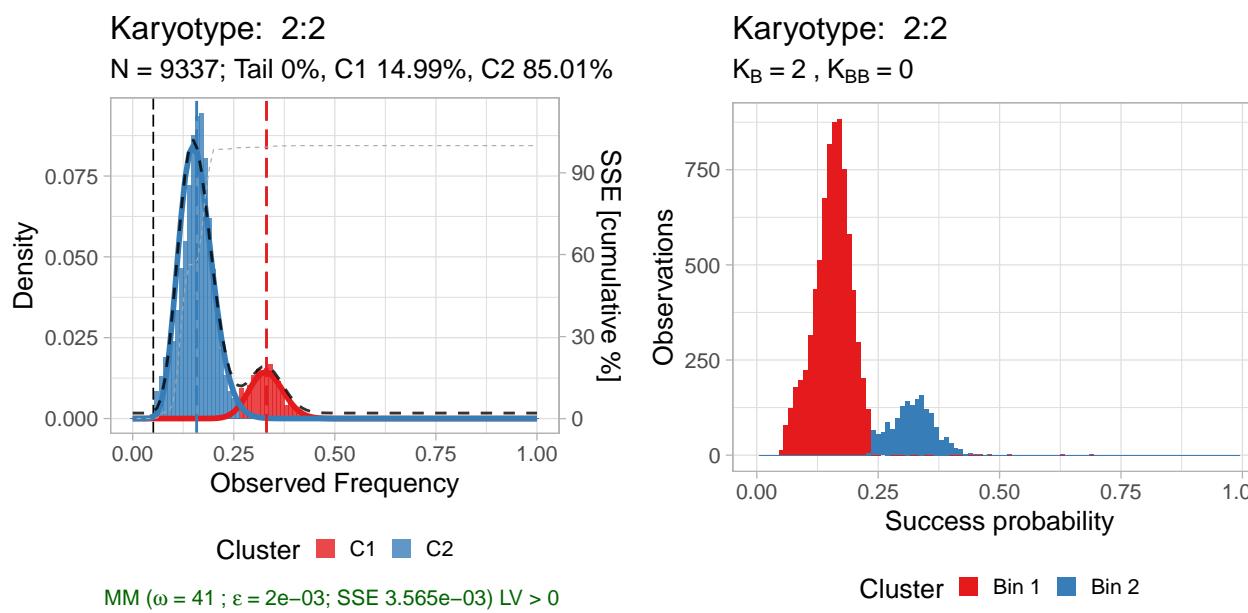
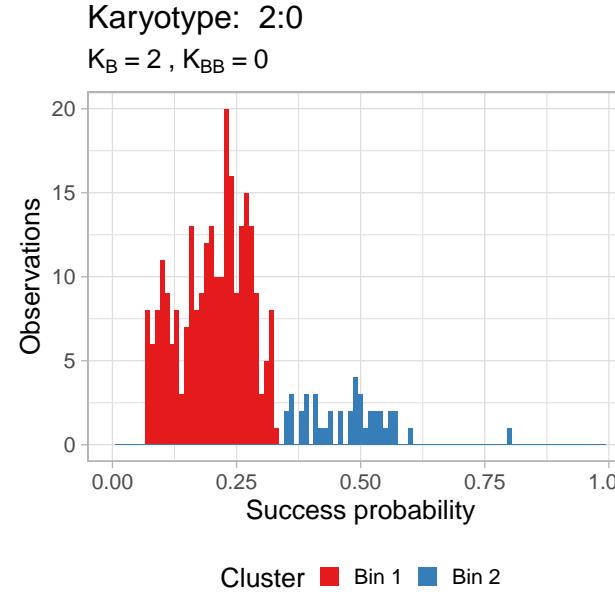
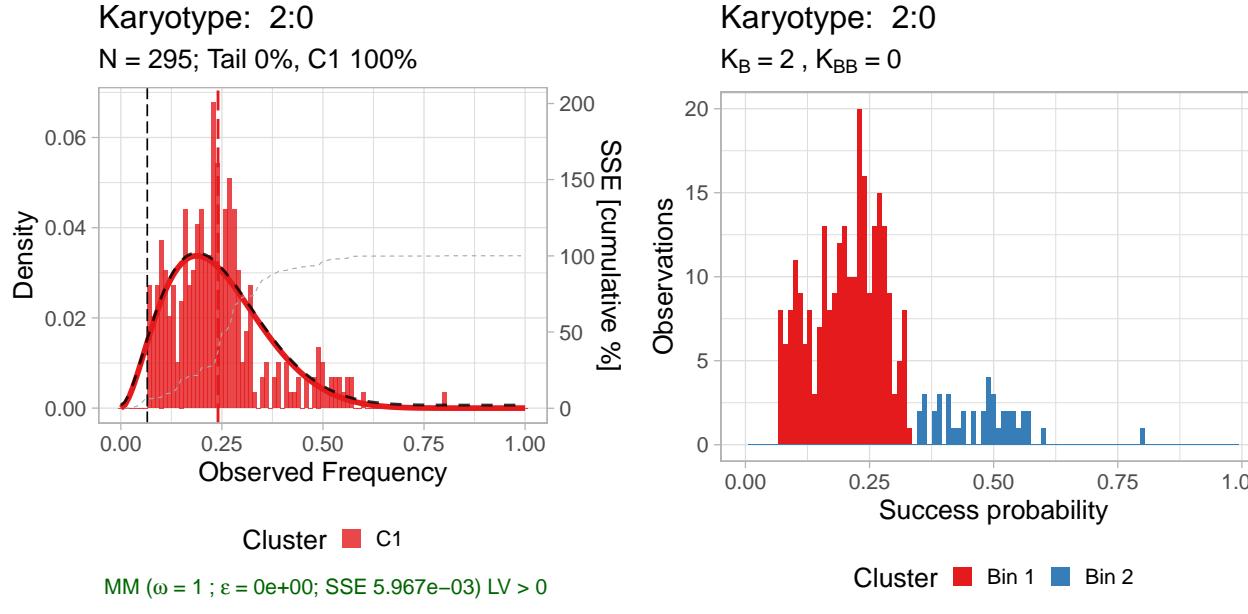
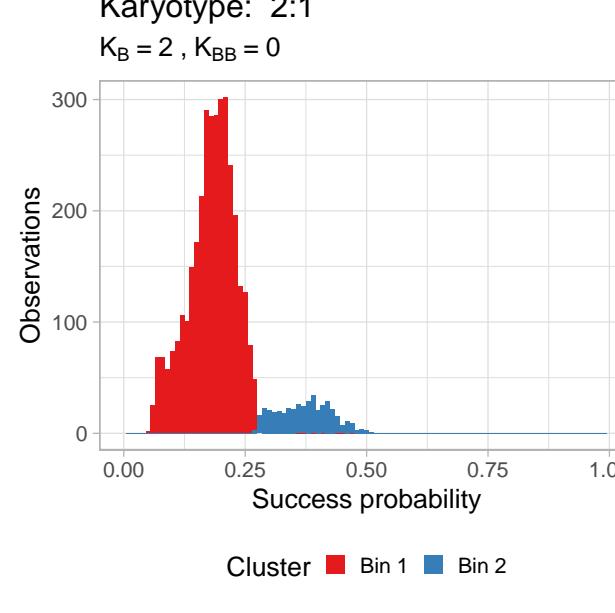
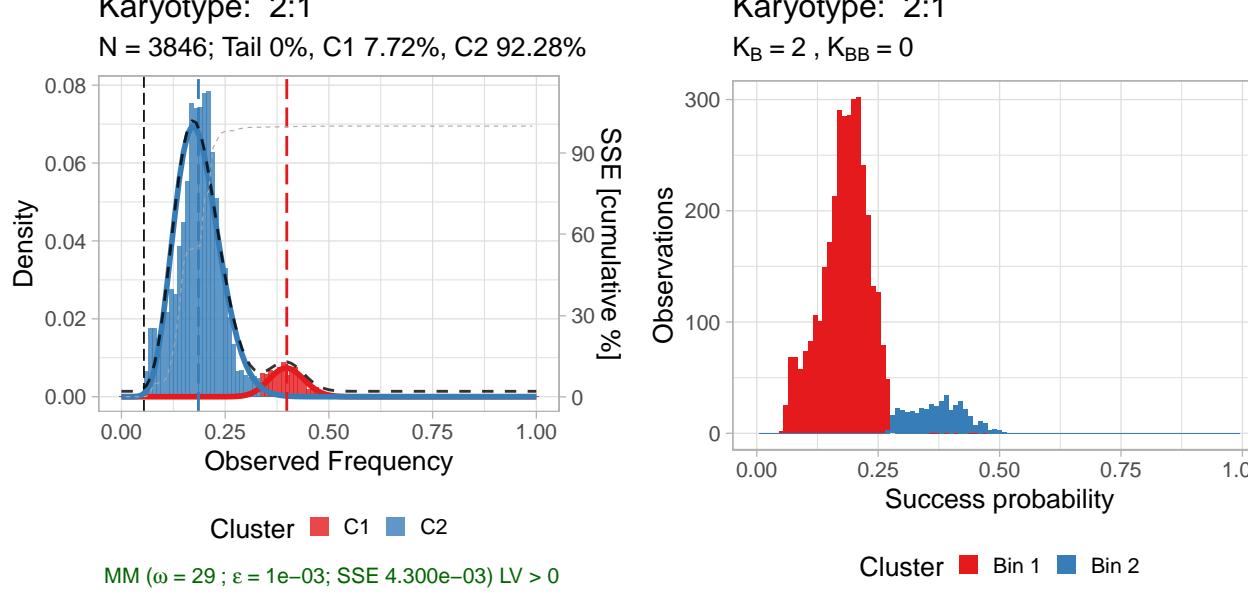
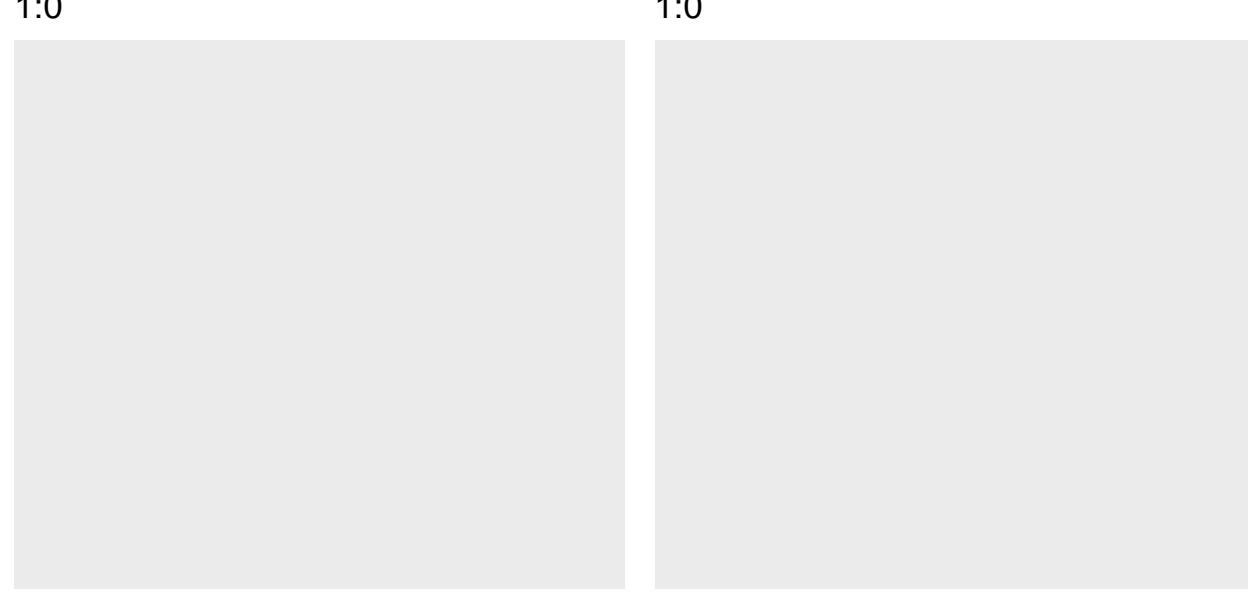


2:2

2:2

160916_HMFregCPCT_FR12254273_FR12251547_CPCT02160005

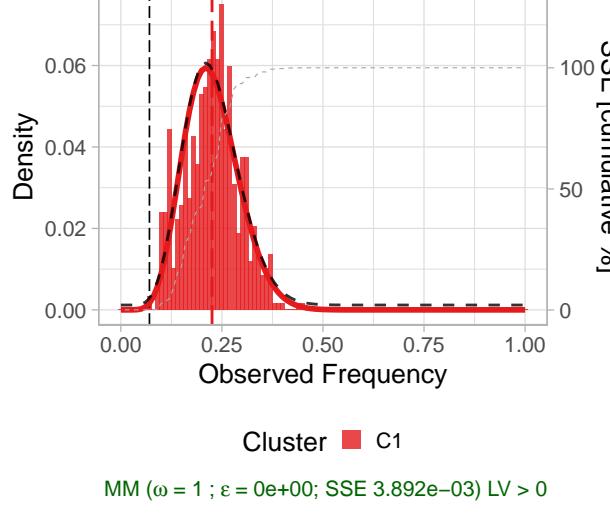
ONLY SNVs (min 150 – max 50000)



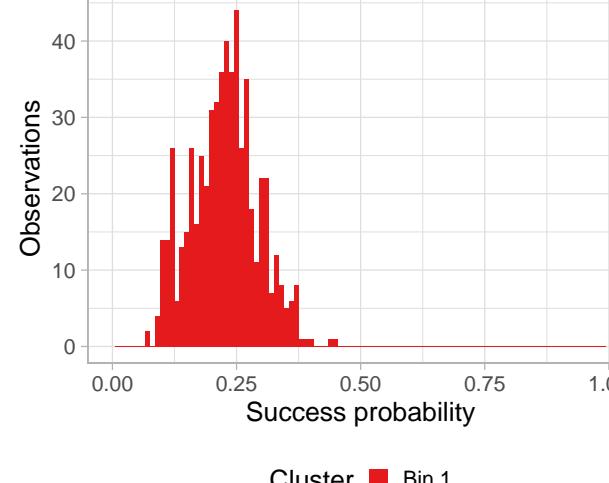
160922_HMFregCPCT_FR10302720_FR03631828_CPCT02100026

ONLY SNVs (min 150 – max 50000)

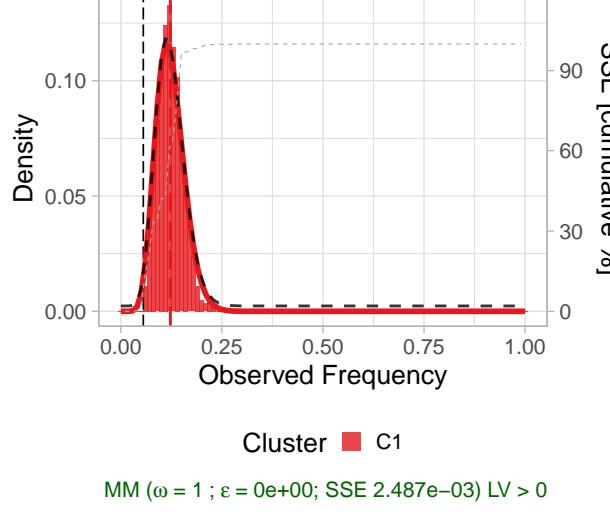
Karyotype: 1:0
N = 586; Tail 0%, C1 100%



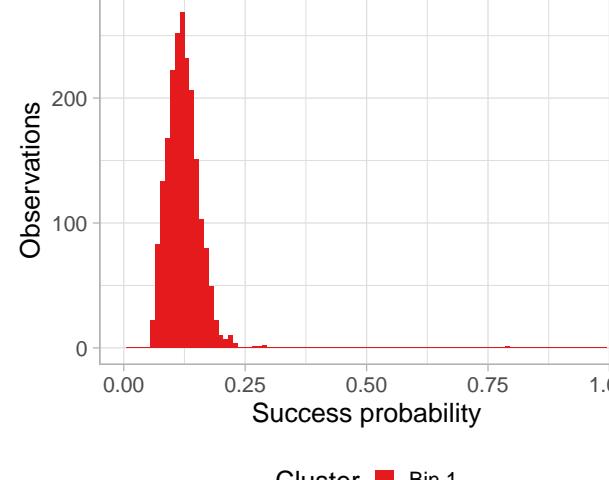
Karyotype: 1:0
 $K_B = 1$, $K_{BB} = 0$



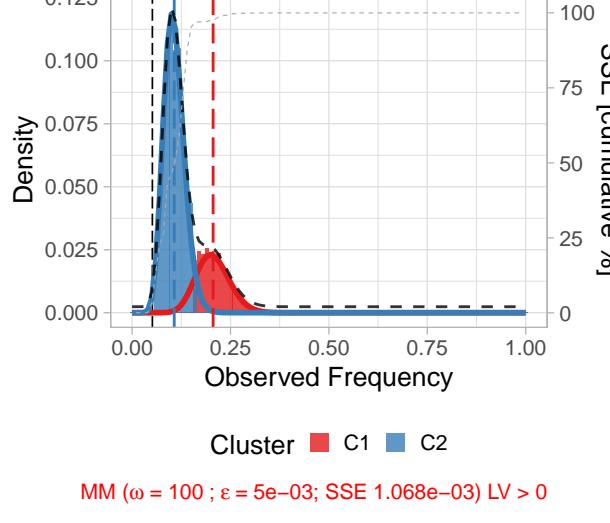
Karyotype: 1:1
N = 2028; Tail 0%, C1 100%



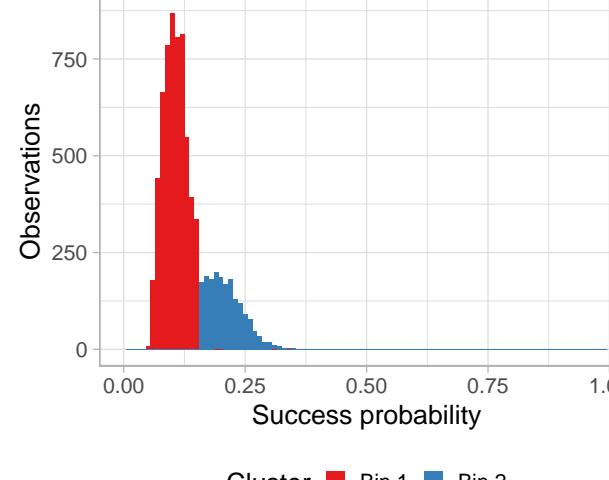
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



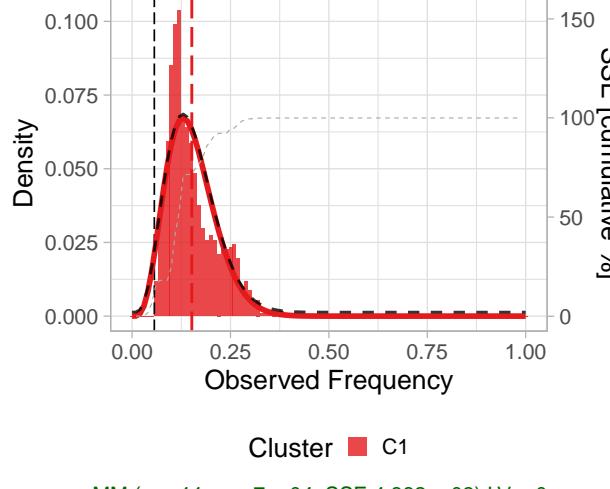
Karyotype: 2:1
N = 7750; Tail 0%, C1 24%, C2 76%



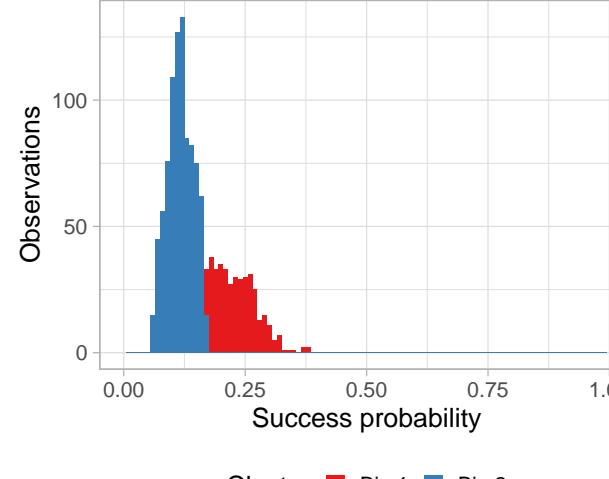
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



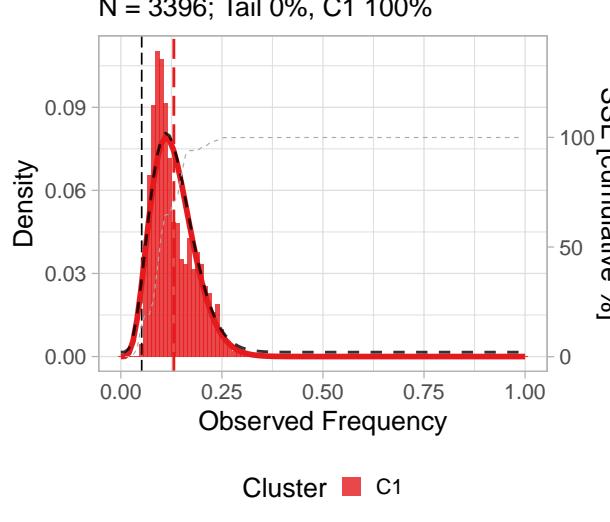
Karyotype: 2:0
N = 1282; Tail 0%, C1 100%



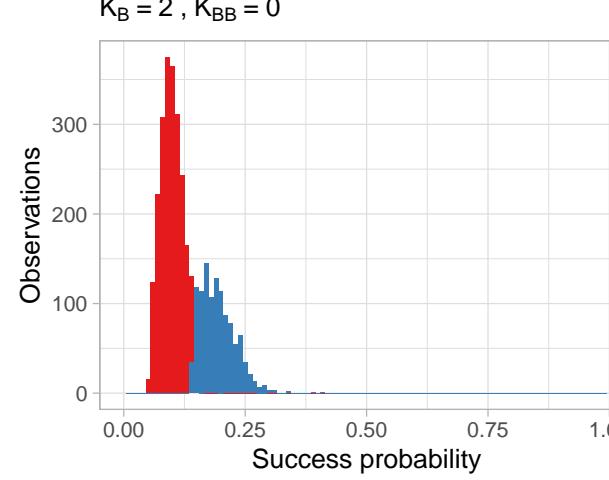
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 3396; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



160922_HMFregCPCT_FR10302744_FR03631829_CPCT02100027

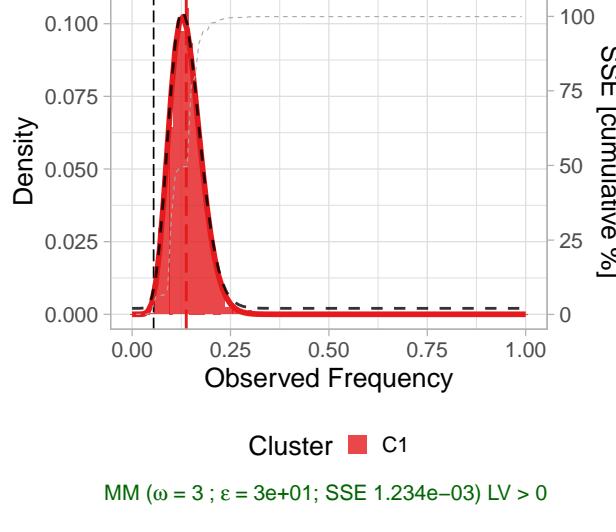
ONLY SNVs (min 150 – max 50000)

1:0

1:0

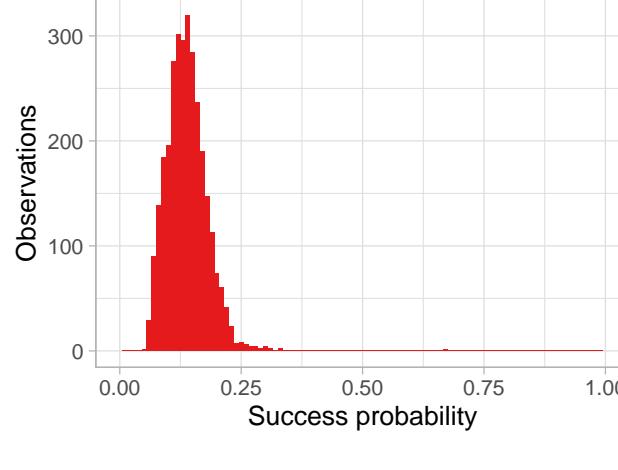
Karyotype: 1:1

N = 3041; Tail 0%, C1 100%



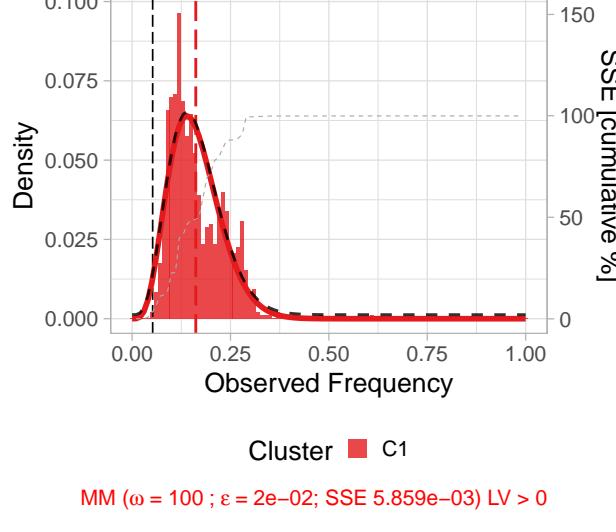
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



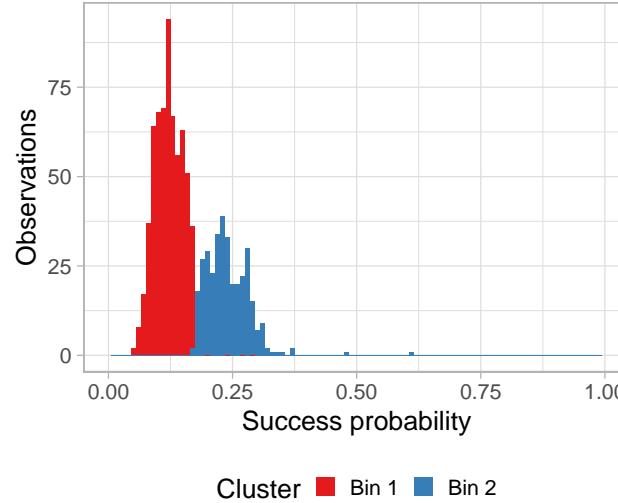
Karyotype: 2:1

N = 975; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

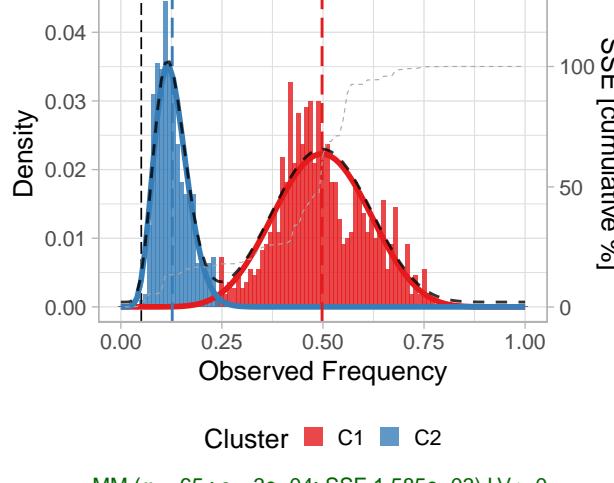
2:2

160922_HMFregCPCT_FR10302751_FR12251992_CPCT02140015

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

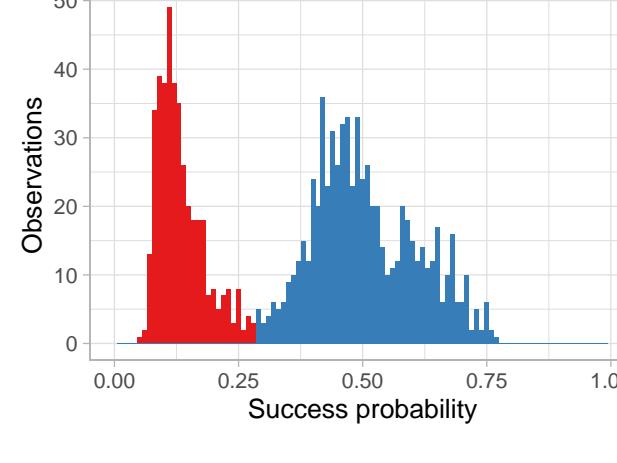
N = 1100; Tail 0%, C2 34.7%, C1 65.3%



MM ($\omega = 65$; $\epsilon = 3e-04$; SSE 1.585e-03) LV > 0

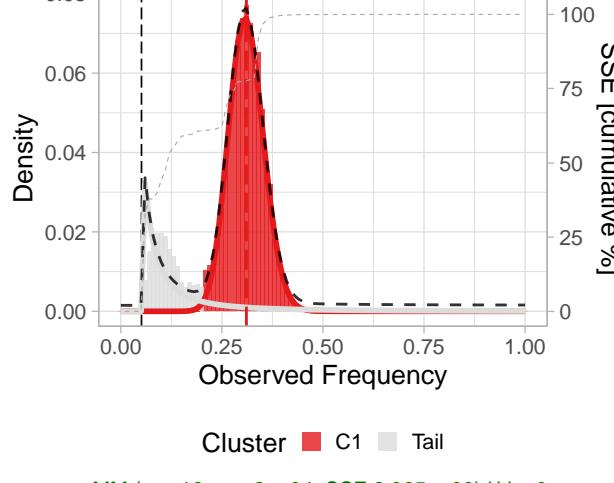
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

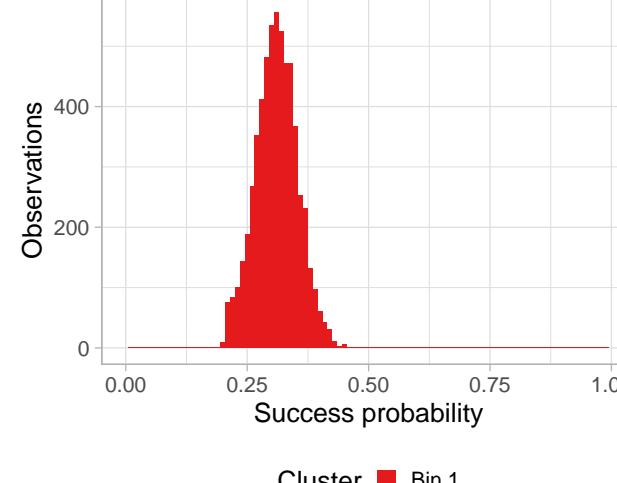
N = 7231; Tail 20.54%, C1 79.46%



MM ($\omega = 16$; $\epsilon = 2e-04$; SSE 2.365e-03) LV > 0

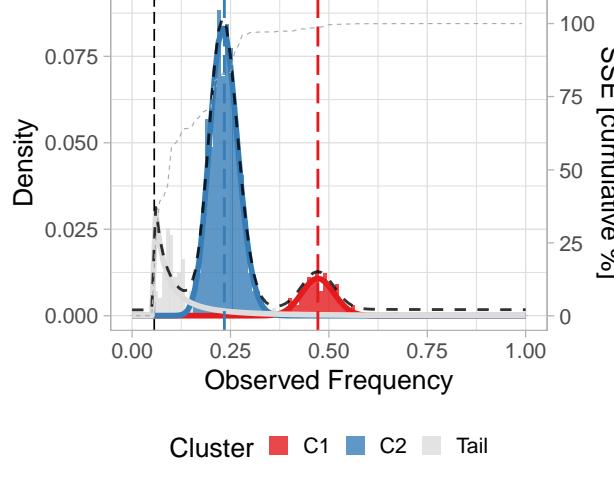
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

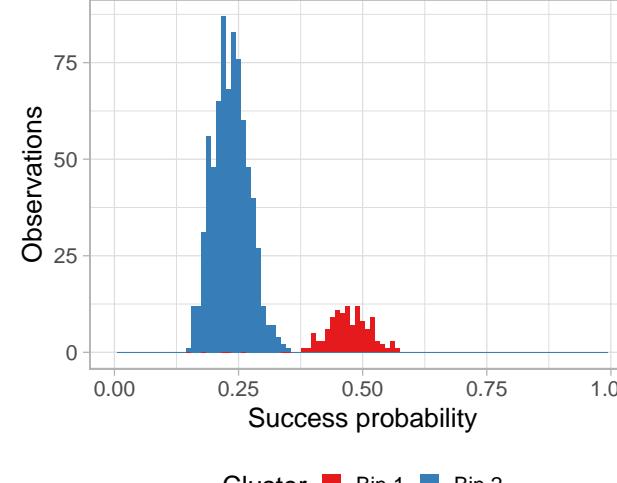
N = 984; C1 11.01%, Tail 15.18%, C2 73.81%



MM ($\omega = 44$; $\epsilon = 2e-06$; SSE 2.481e-03) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

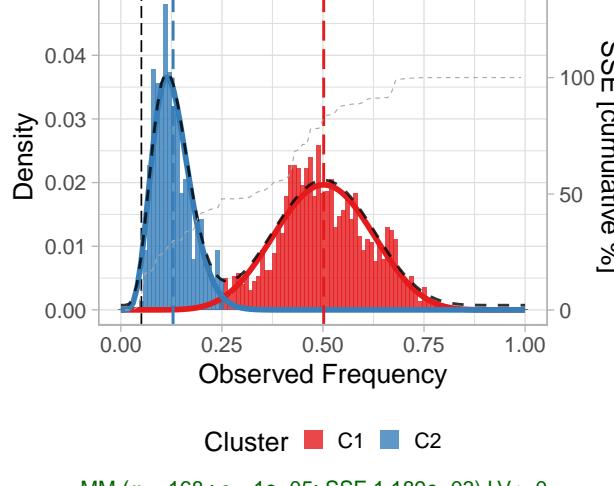
2:2

160922_HMFregCPCT_FR10302782_FR12251860_CPCT02060023

ONLY SNVs (min 150 – max 50000)

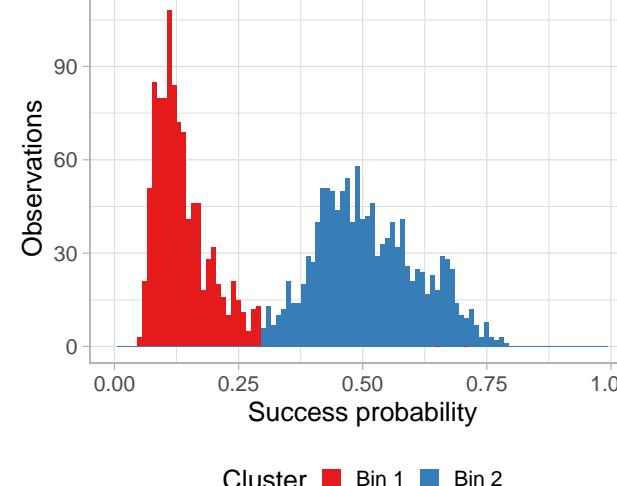
Karyotype: 1:0

N = 2248; Tail 0%, C2 41.49%, C1 58.51%



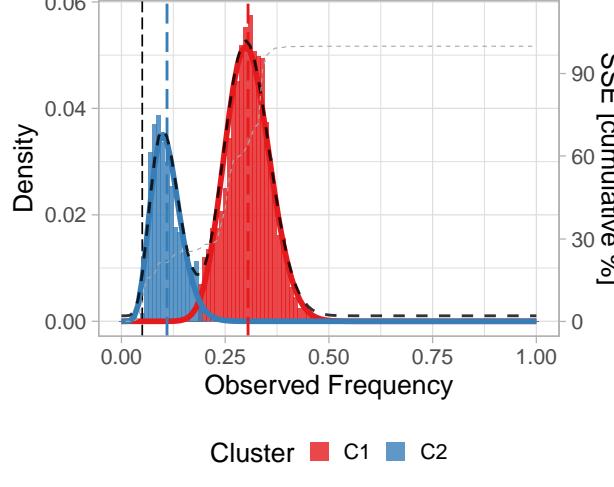
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



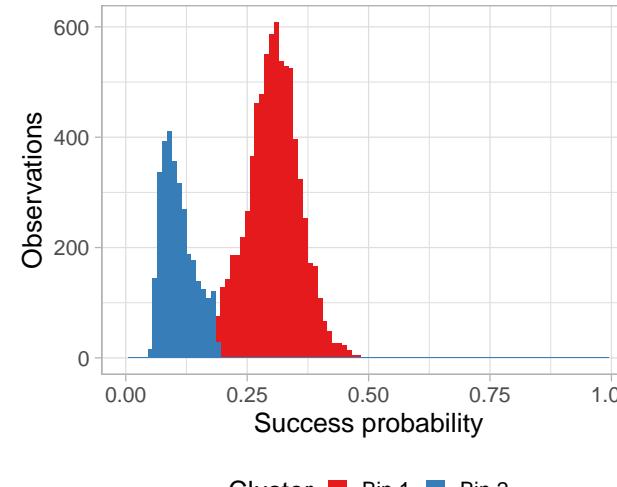
Karyotype: 1:1

N = 10600; Tail 0%, C2 30.38%, C1 69.62%



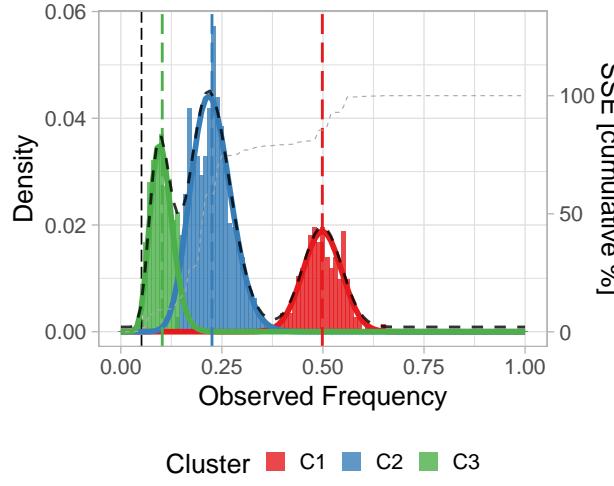
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



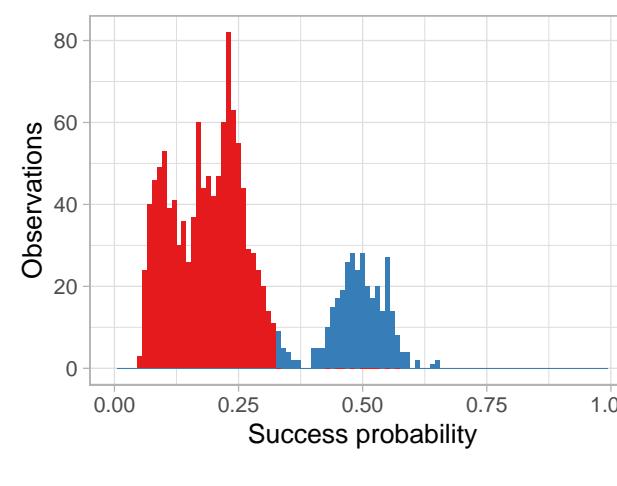
Karyotype: 2:1

N = 1431; Tail 0%, C1 22.41%, C3 23.52%, C:



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

2:2

160922_HMFregCPCT_FR10302784_FR12251635_CPCT02010401

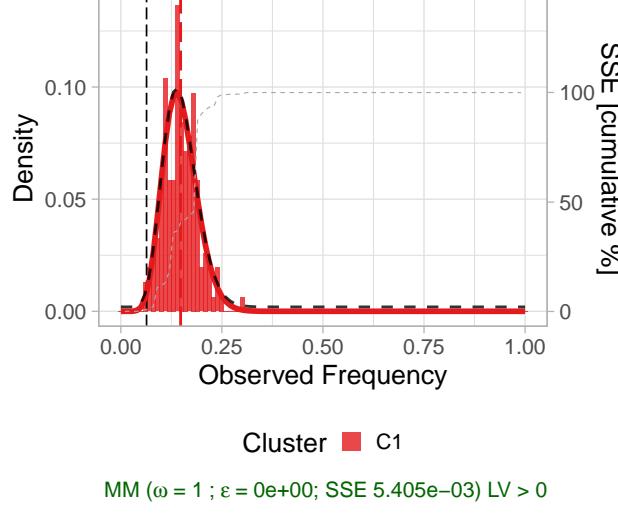
ONLY SNVs (min 150 – max 50000)

1:0

1:0

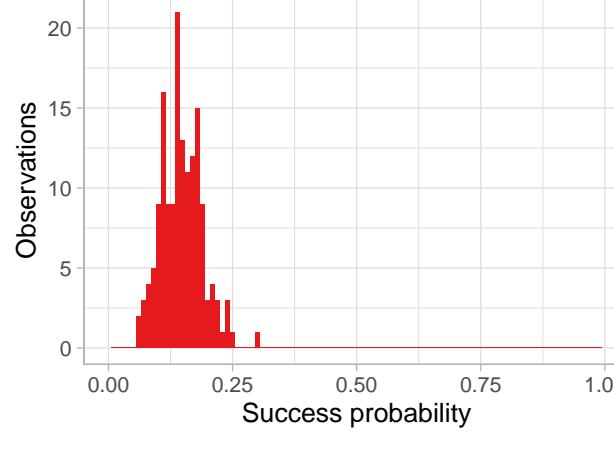
Karyotype: 1:1

N = 154; Tail 0%, C1 100%



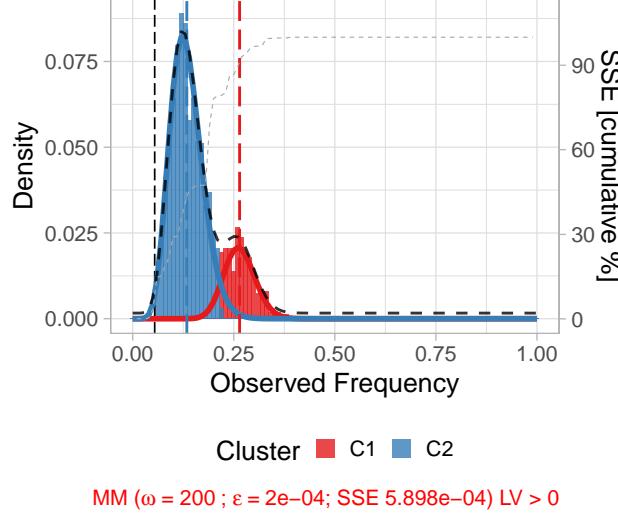
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



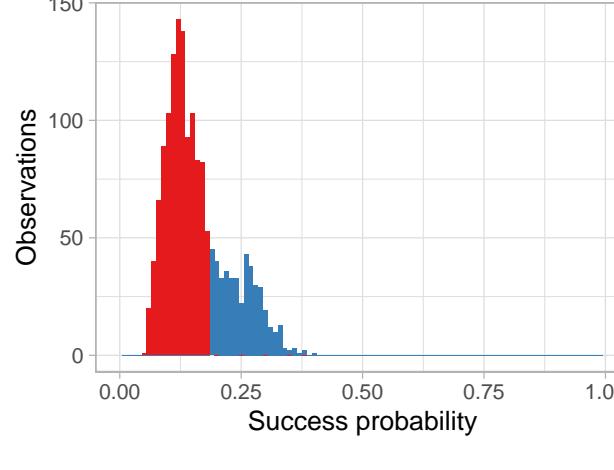
Karyotype: 2:1

N = 1604; Tail 0%, C1 19.8%, C2 80.2%



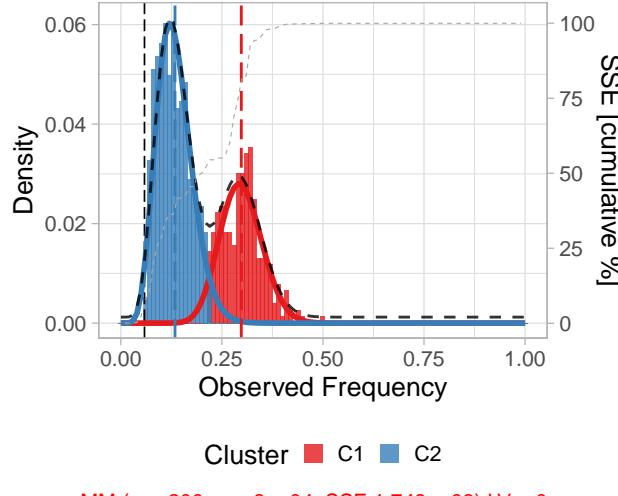
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



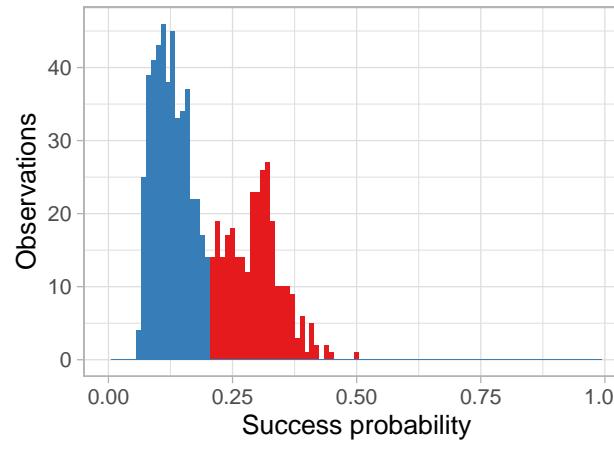
Karyotype: 2:0

N = 764; Tail 0%, C1 36.31%, C2 63.69%



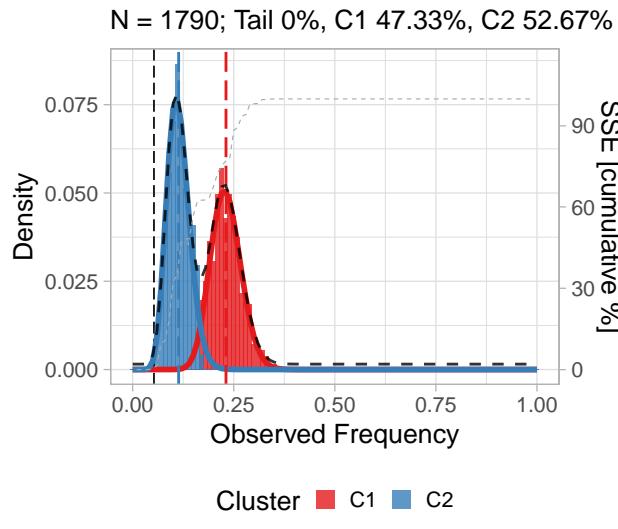
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



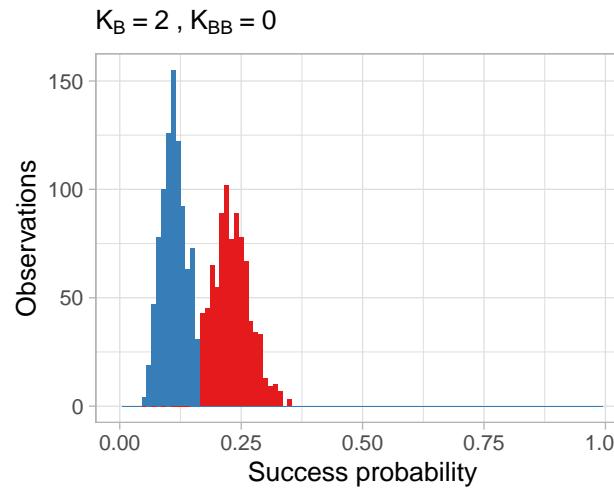
Karyotype: 2:2

N = 1790; Tail 0%, C1 47.33%, C2 52.67%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

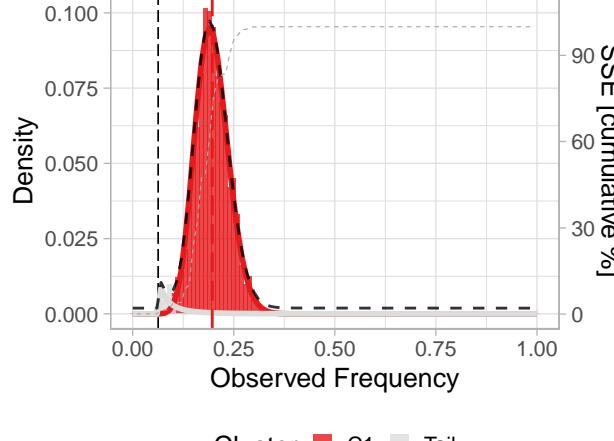


160922_HMFregCPCT_FR10304579_FR12254281_CPCT02030265

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

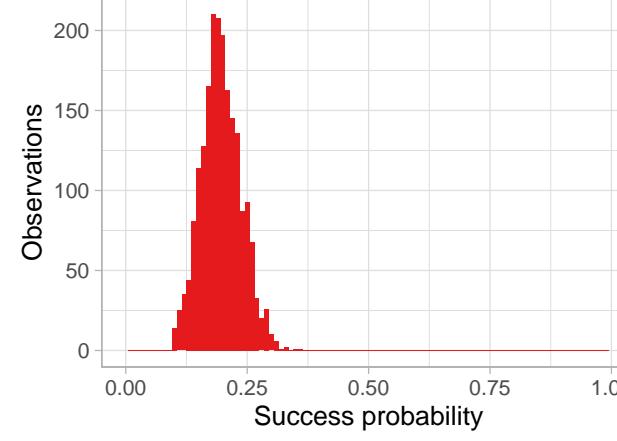
N = 2067; Tail 3.55%, C1 96.45%



MM ($\omega = 48$; $\varepsilon = 5e-06$; SSE $1.711e-03$) LV > 0

Karyotype: 1:0

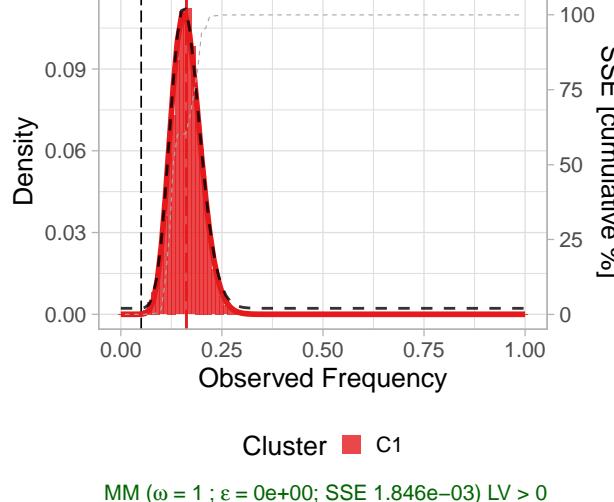
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 1:1

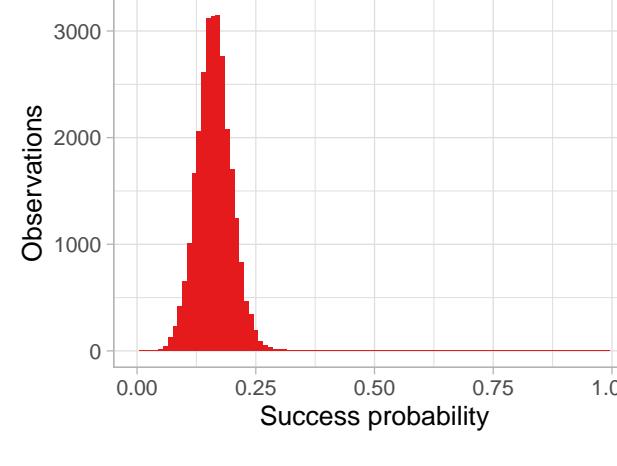
N = 28082; Tail 0%, C1 100%



MM ($\omega = 1$; $\varepsilon = 0e+00$; SSE $1.846e-03$) LV > 0

Karyotype: 1:1

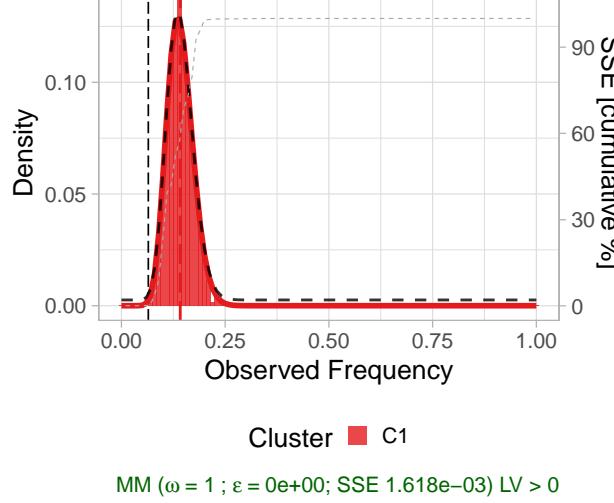
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 2:1

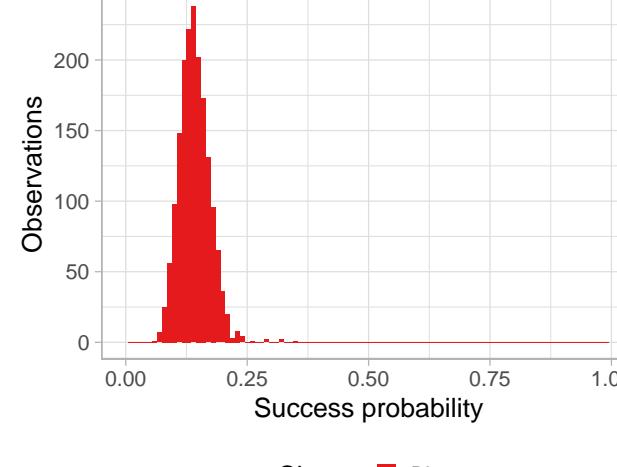
N = 1739; Tail 0%, C1 100%



MM ($\omega = 1$; $\varepsilon = 0e+00$; SSE $1.618e-03$) LV > 0

Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

2:0

2:0

2:2

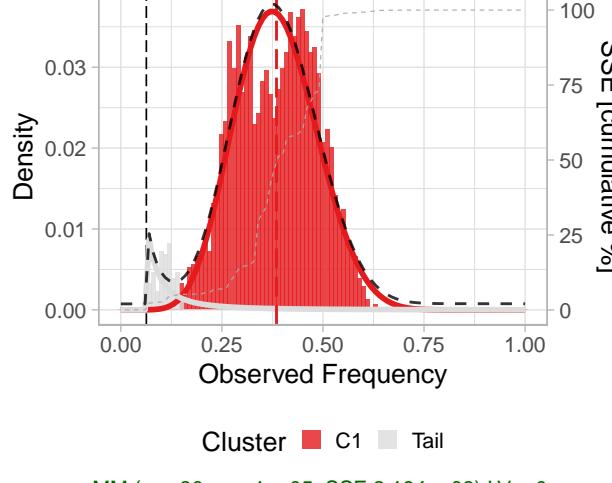
2:2

160922_HMFregCPCT_FR12251648_FR03631832_CPCT02070015

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

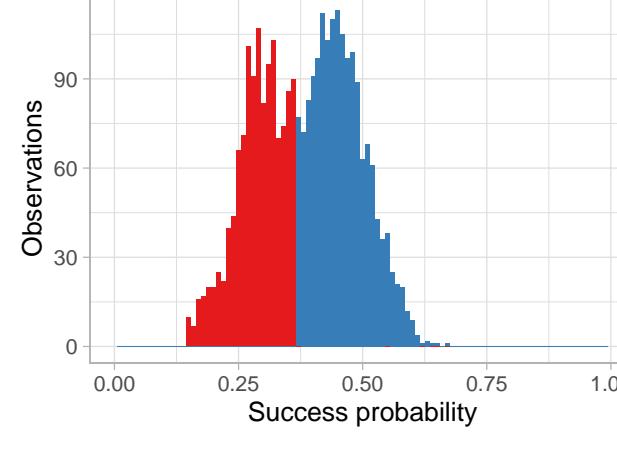
N = 3046; Tail 5.13%, C1 94.87%



MM ($\omega = 30$; $\epsilon = 1e-05$; SSE $2.194e-03$) LV > 0

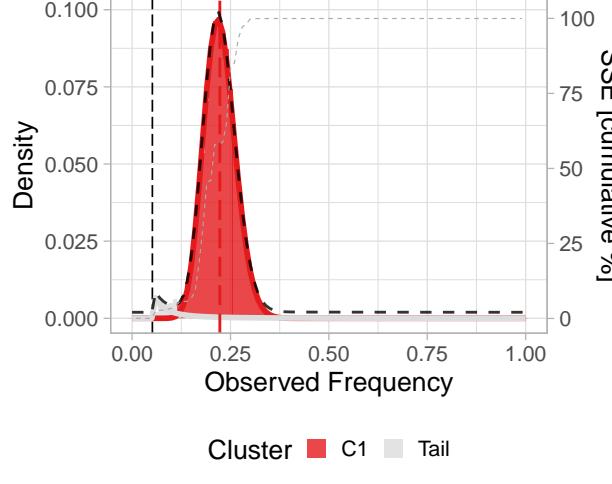
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

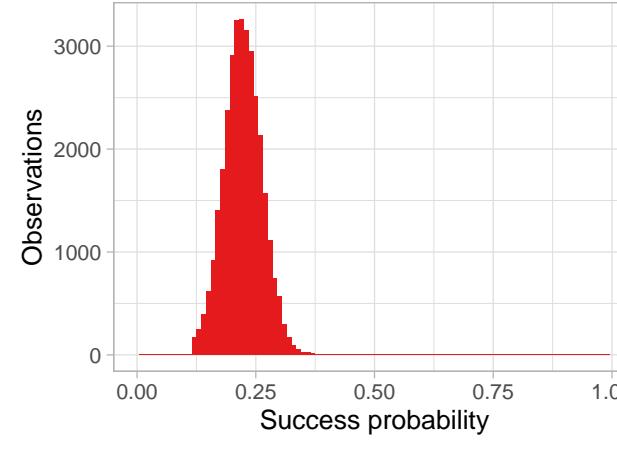
N = 33812; Tail 3.82%, C1 96.18%



MM ($\omega = 28$; $\epsilon = 2e-04$; SSE $1.211e-03$) LV > 0

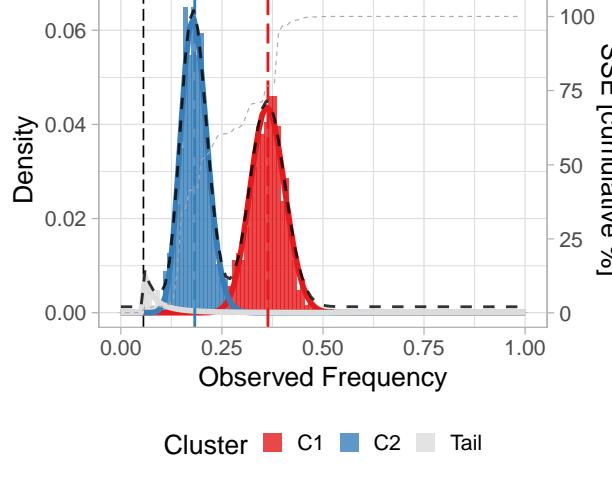
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

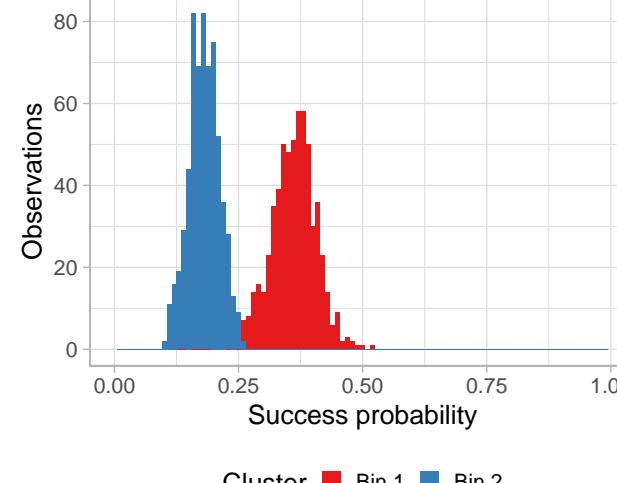
N = 1262; Tail 3.01%, C1 46.58%, C2 50.41%



MM ($\omega = 57$; $\epsilon = 2e-06$; SSE $1.256e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

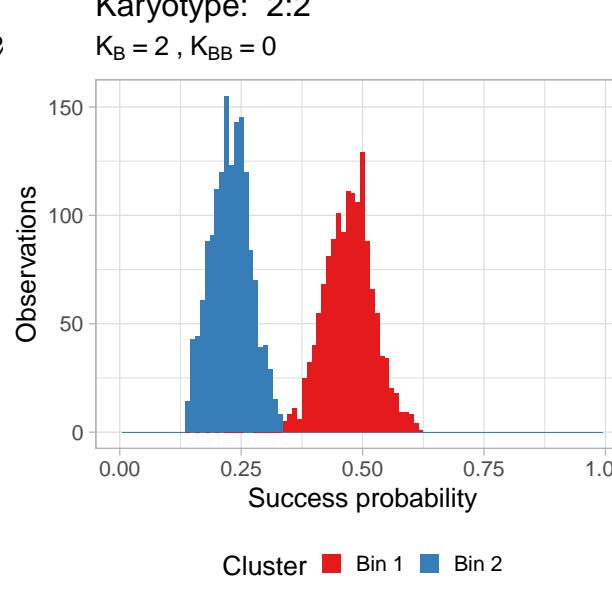
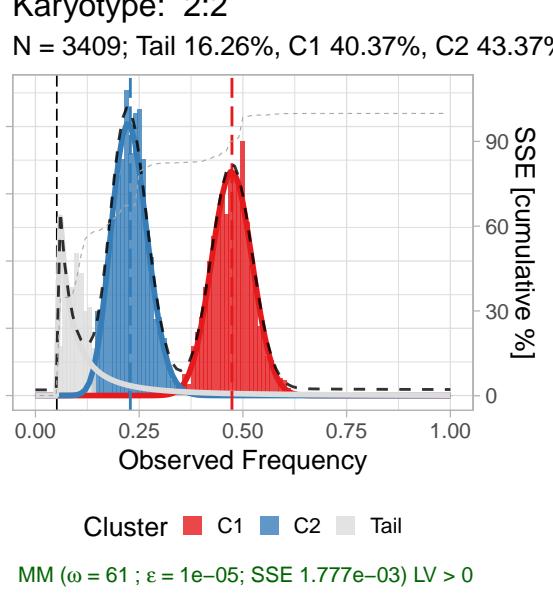
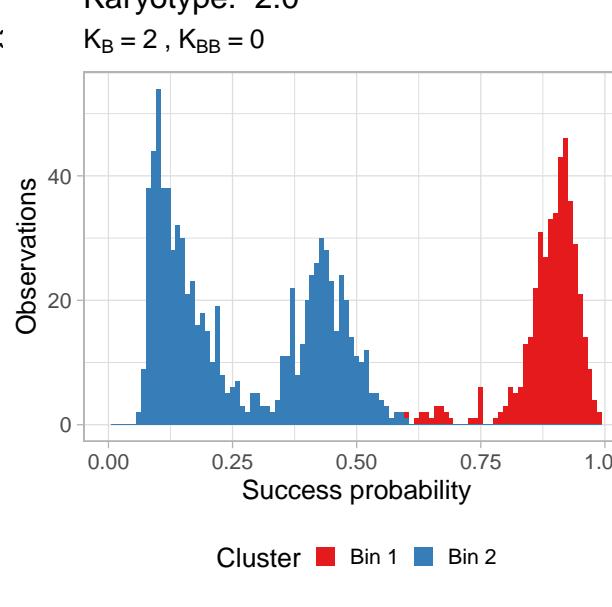
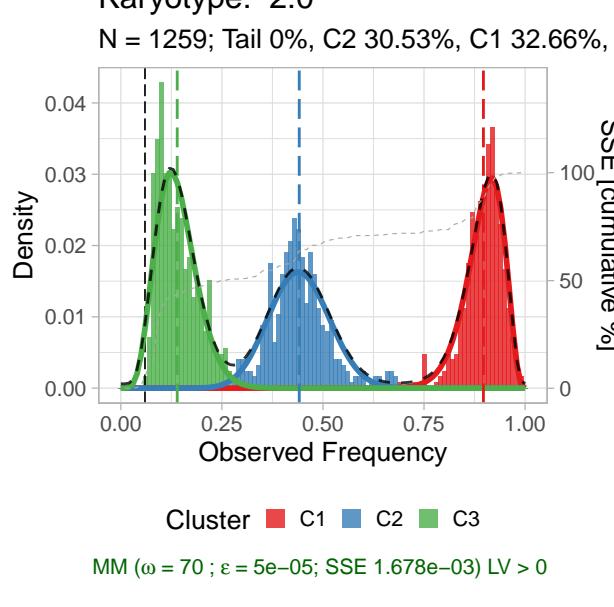
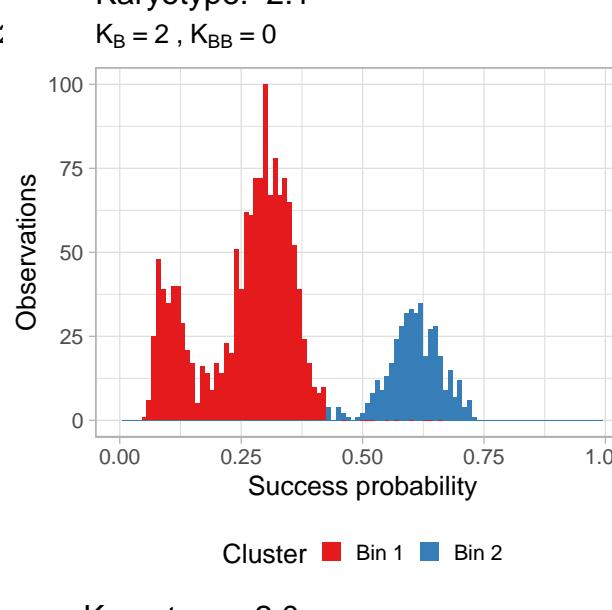
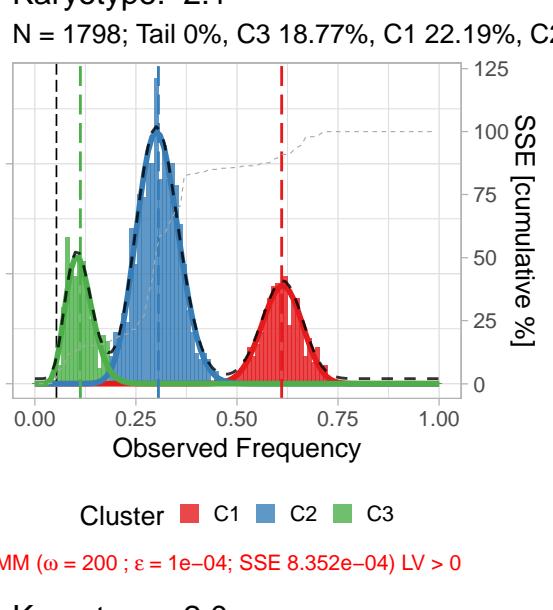
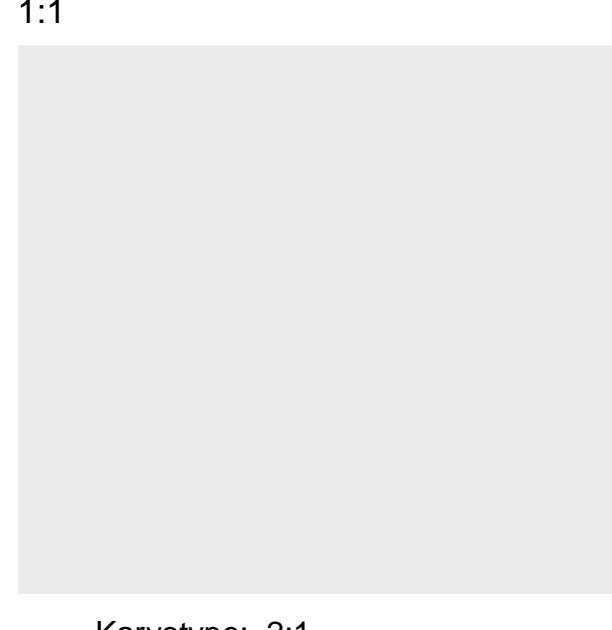
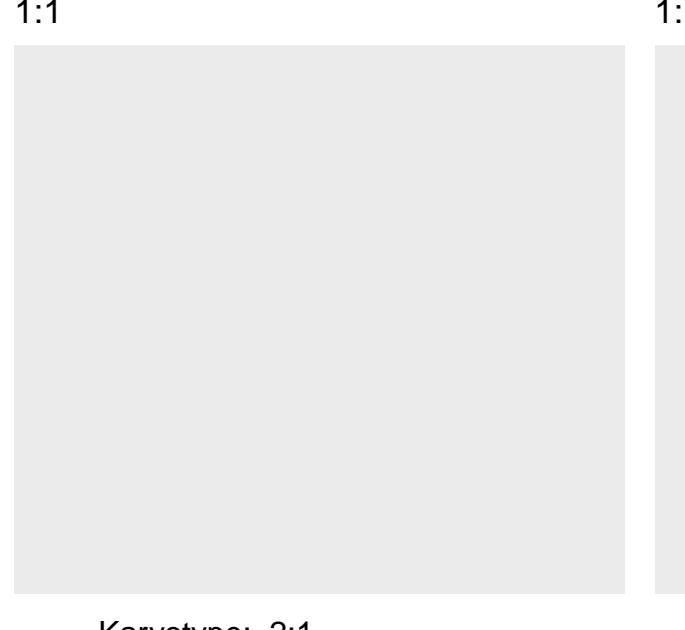
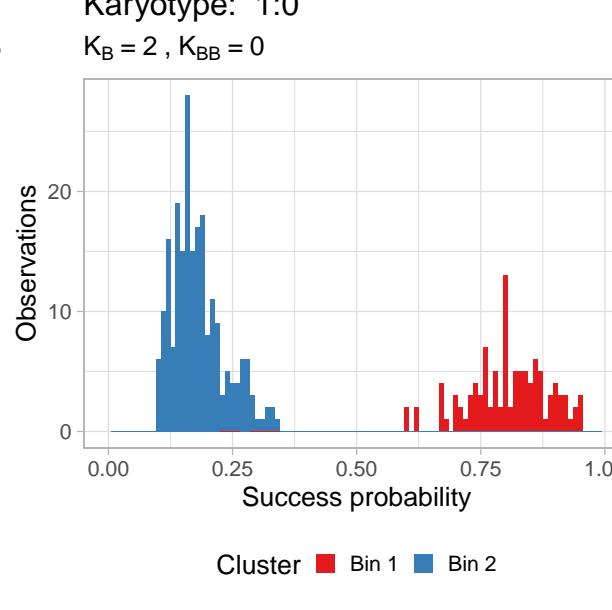
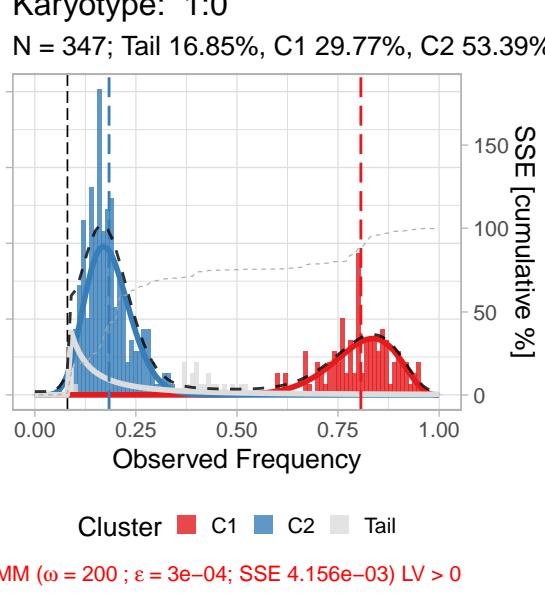
2:0

2:2

2:2

160922_HMFregCPCT_FR12251695_FR03631835_CPCT02140020

ONLY SNVs (min 150 – max 50000)

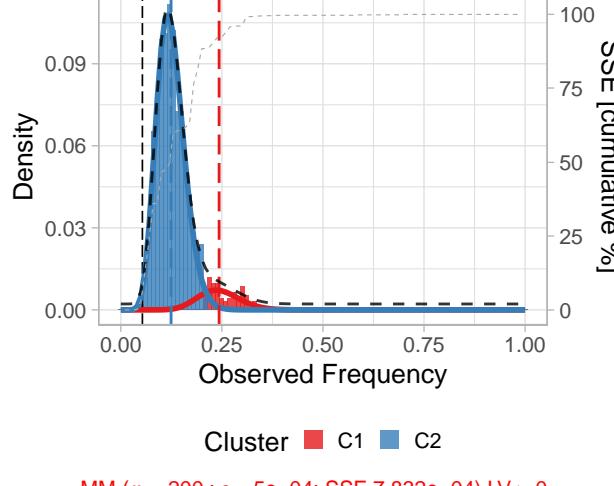


160922_HMFregCPCT_FR12254014_FR12254268_CPCT02080031

ONLY SNVs (min 150 – max 50000)

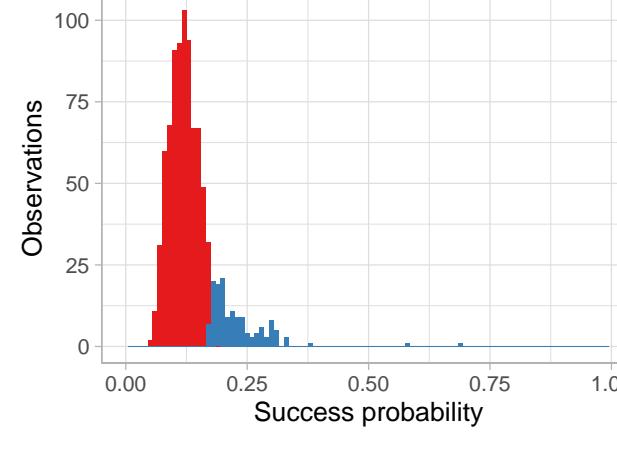
Karyotype: 1:0

N = 921; Tail 0%, C1 9.07%, C2 90.93%



Karyotype: 1:0

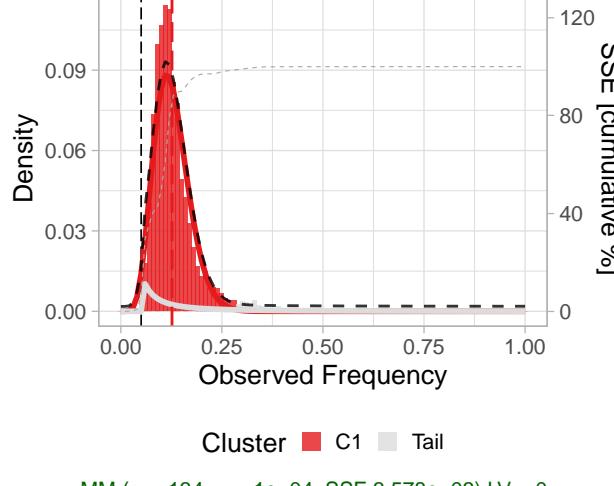
$K_B = 2, K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 5e-04$; SSE $7.832e-04$) LV > 0

Karyotype: 1:1

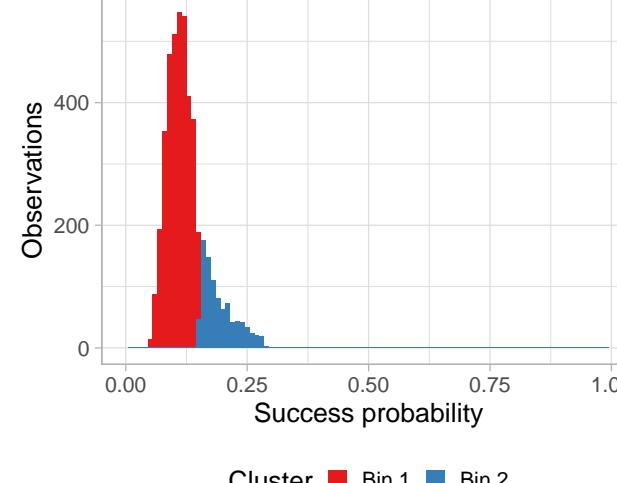
N = 4801; Tail 8.16%, C1 91.84%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

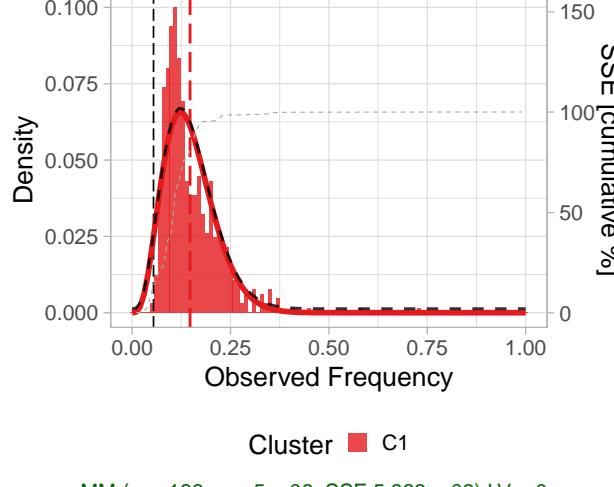
$K_B = 2, K_{BB} = 0$



MM ($\omega = 134$; $\epsilon = 1e-04$; SSE $3.578e-03$) LV > 0

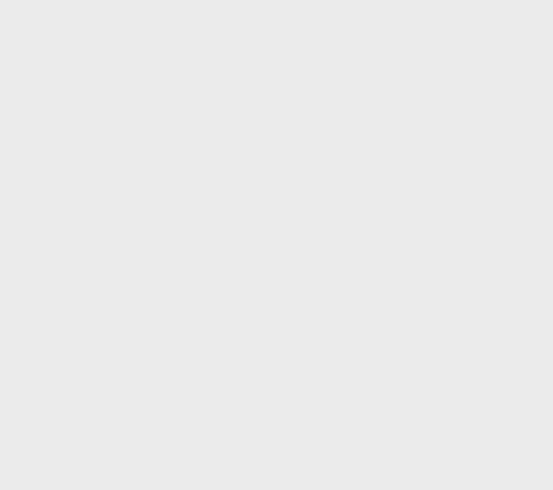
Karyotype: 2:1

N = 649; Tail 0%, C1 100%



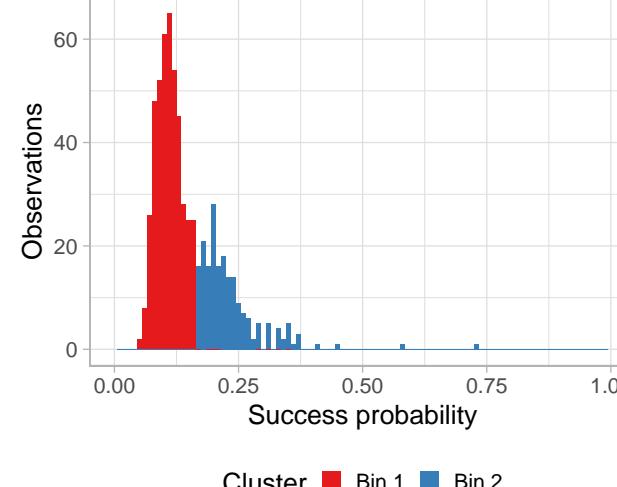
MM ($\omega = 166$; $\epsilon = 5e-06$; SSE $5.883e-03$) LV > 0

2:0



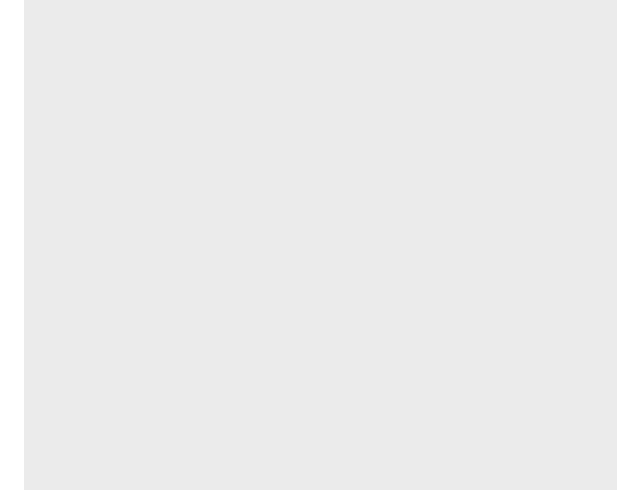
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$

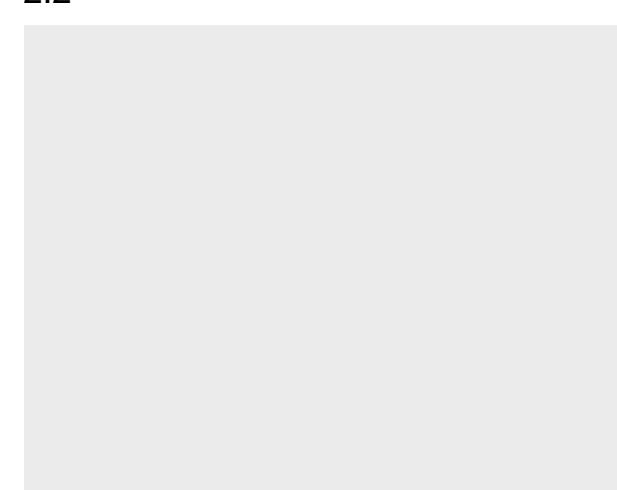


Cluster ■ Bin 1 ■ Bin 2

2:0



2:2

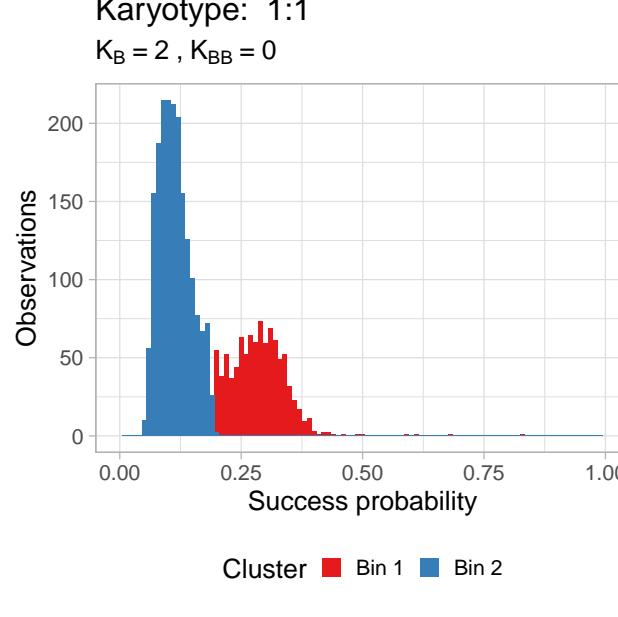
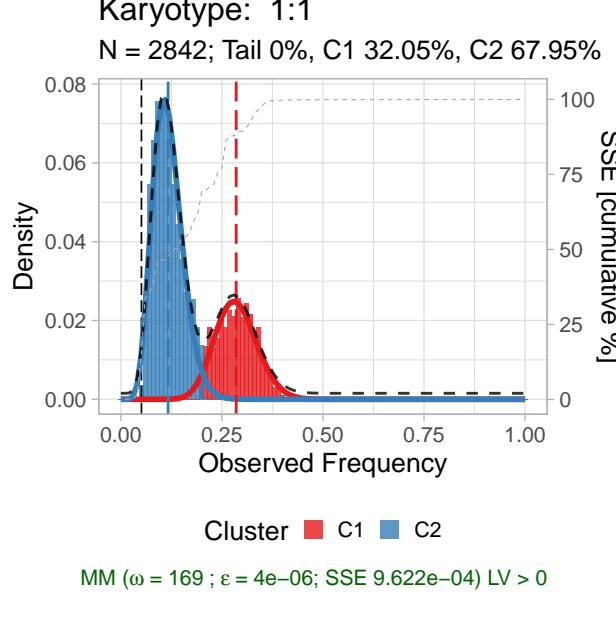


160922_HMFregCPCT_FR12254210_FR12254236_CPCT02010376

ONLY SNVs (min 150 – max 50000)

1:0

1:0



2:1

2:1

2:0

2:0

2:2

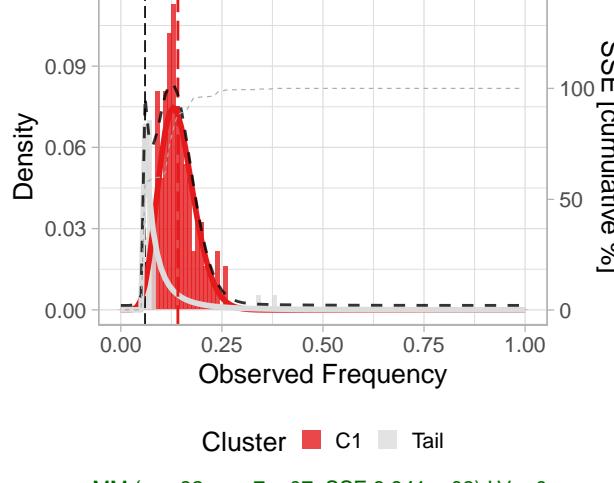
2:2

160925_HMFregCPCT_FR10304589_FR12254280_CPCT02030264

ONLY SNVs (min 150 – max 50000)

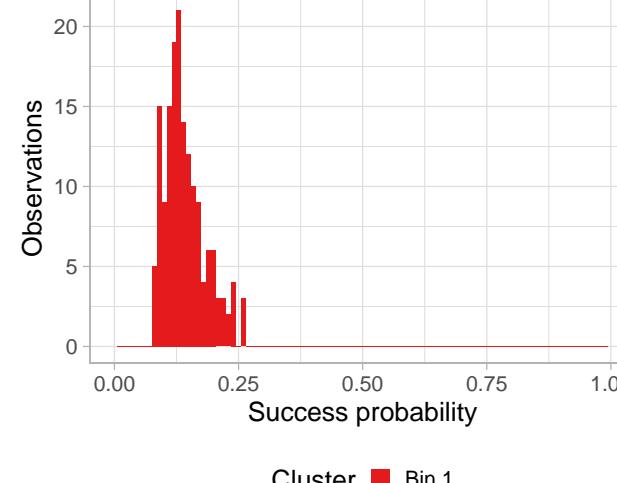
Karyotype: 1:0

N = 186; Tail 21.21%, C1 78.79%



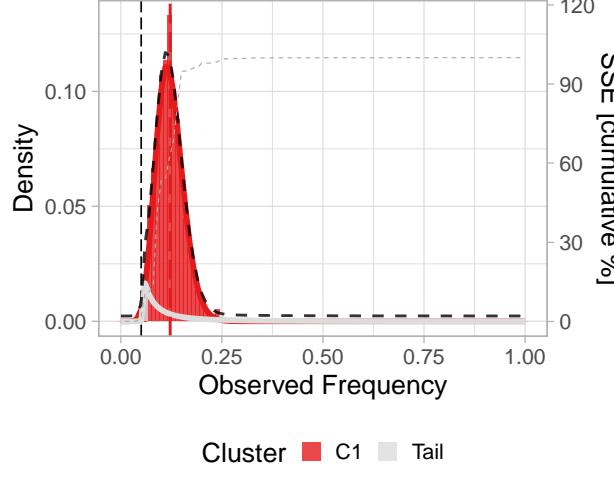
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



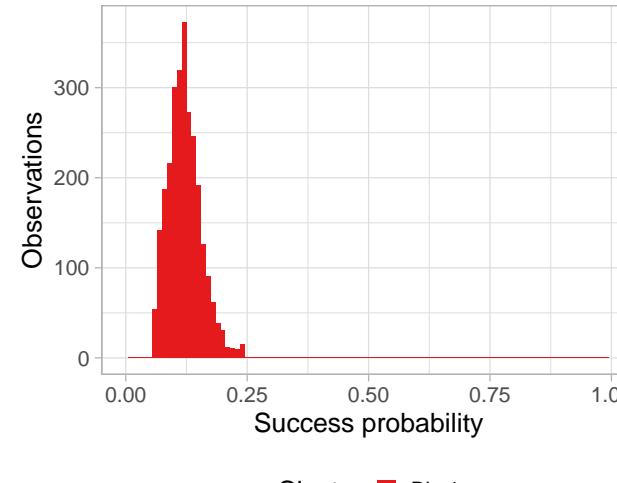
Karyotype: 1:1

N = 2804; Tail 9.36%, C1 90.64%



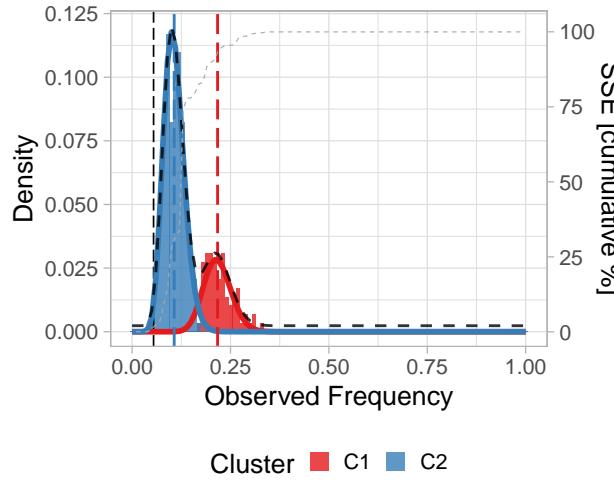
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



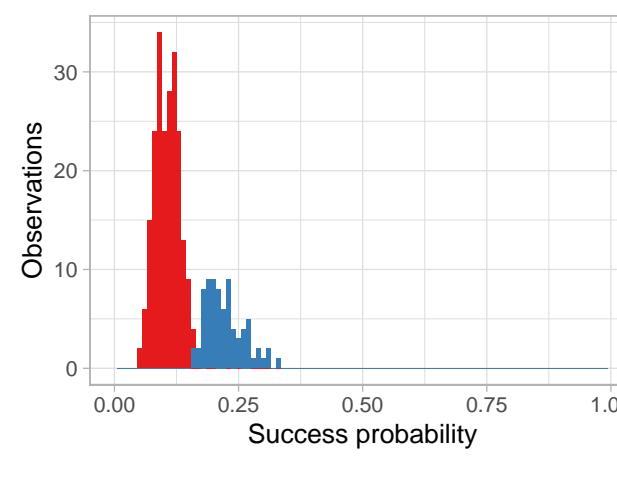
Karyotype: 2:1

N = 291; Tail 0%, C1 24.52%, C2 75.48%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

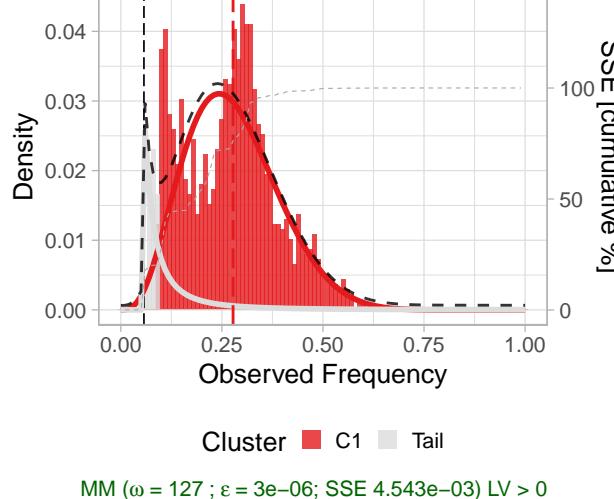
2:2

160925_HMFregCPCT_FR10304604_FR12251540_CPCT02010399

ONLY SNVs (min 150 – max 50000)

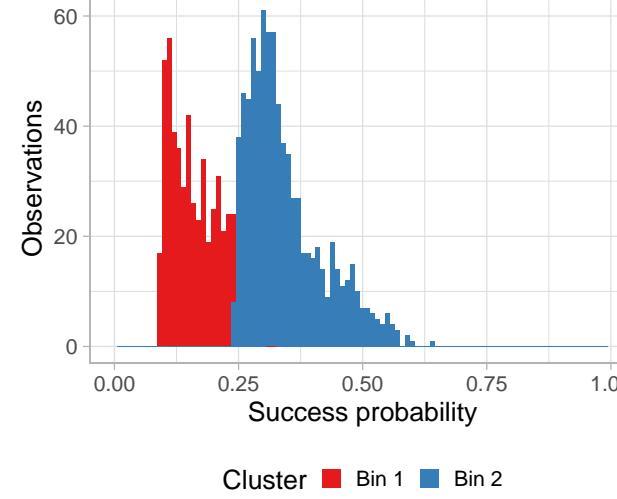
Karyotype: 1:0

N = 1389; Tail 11.21%, C1 88.79%



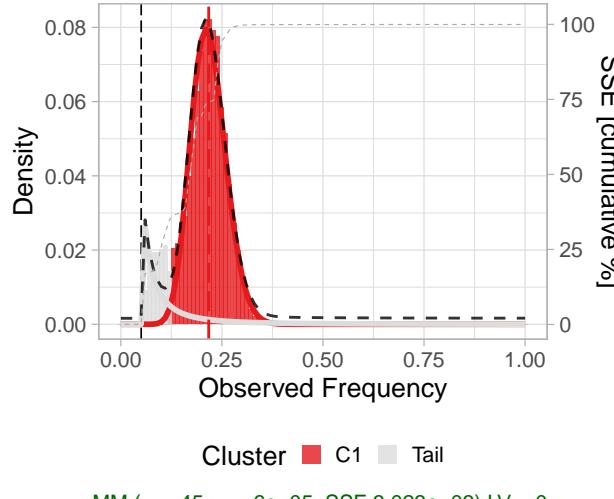
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



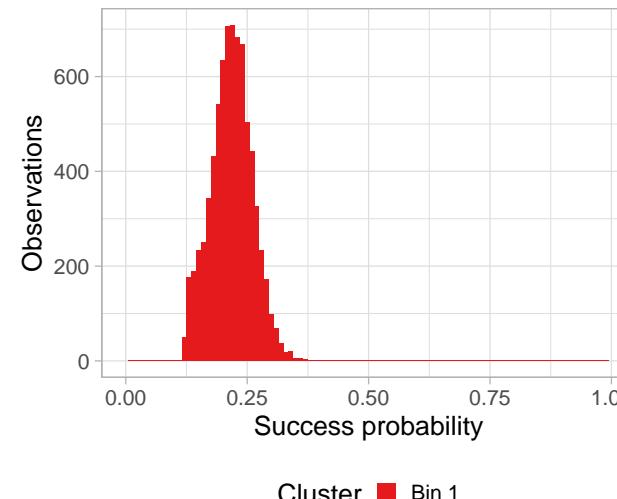
Karyotype: 1:1

N = 8617; Tail 14.8%, C1 85.2%



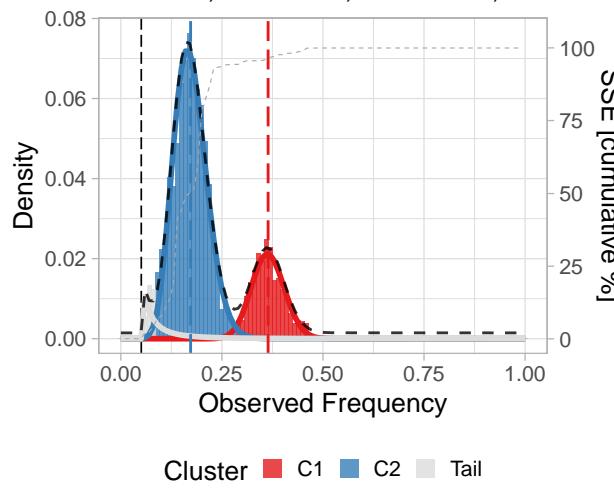
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



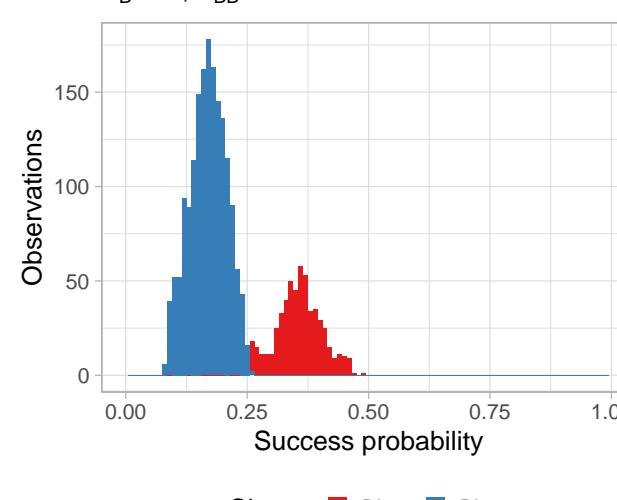
Karyotype: 2:1

N = 2330; Tail 5.08%, C1 21.46%, C2 73.45%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

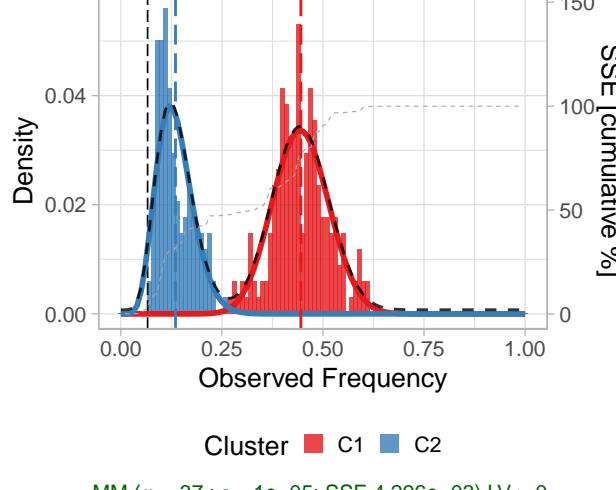
2:2

160925_HMFregCPCT_FR12254258_FR12254205_CPCT02030259

ONLY SNVs (min 150 – max 50000)

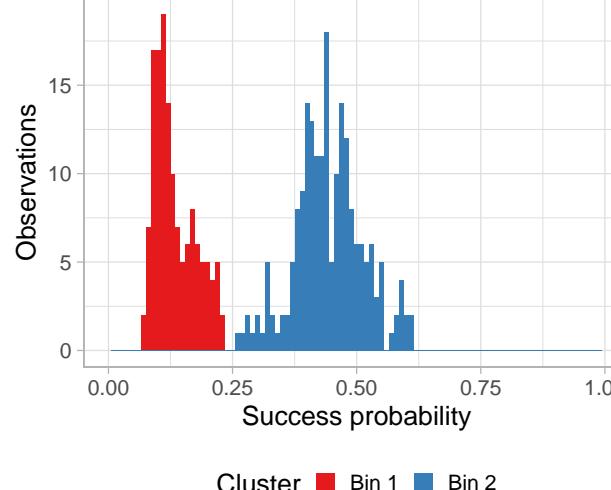
Karyotype: 1:0

N = 339; Tail 0%, C2 41.57%, C1 58.43%



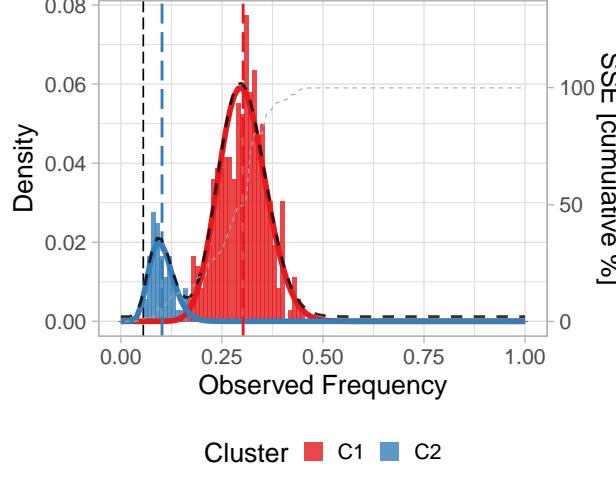
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



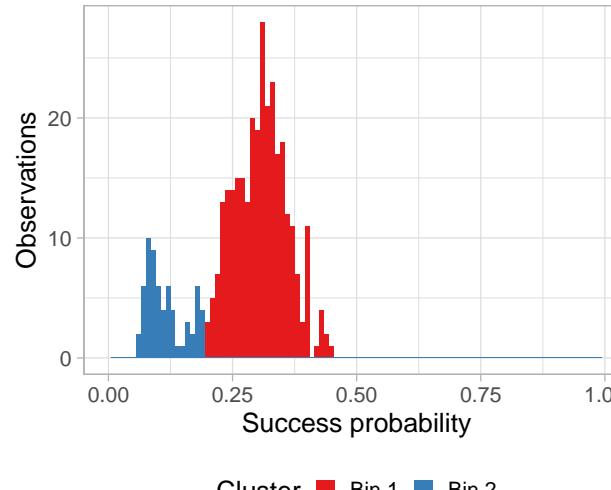
Karyotype: 1:1

N = 362; Tail 0%, C2 14.66%, C1 85.34%



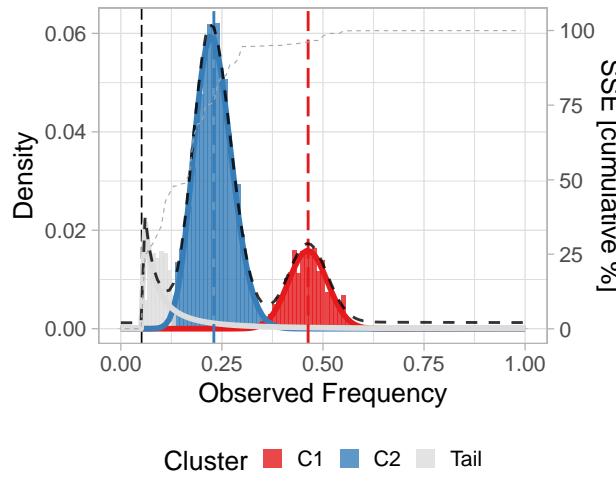
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



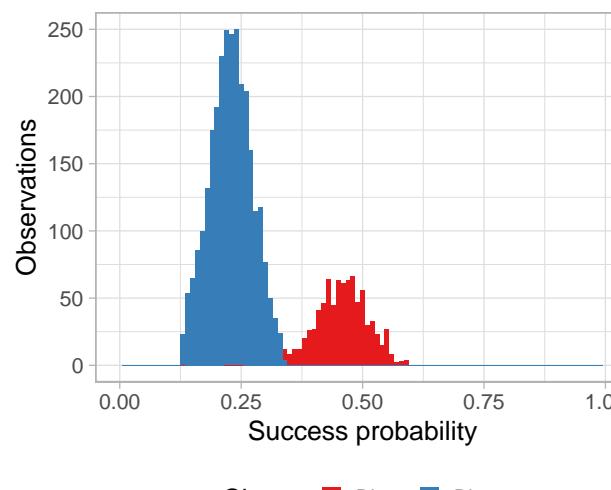
Karyotype: 2:1

N = 4024; Tail 12.84%, C1 18.93%, C2 68.23%



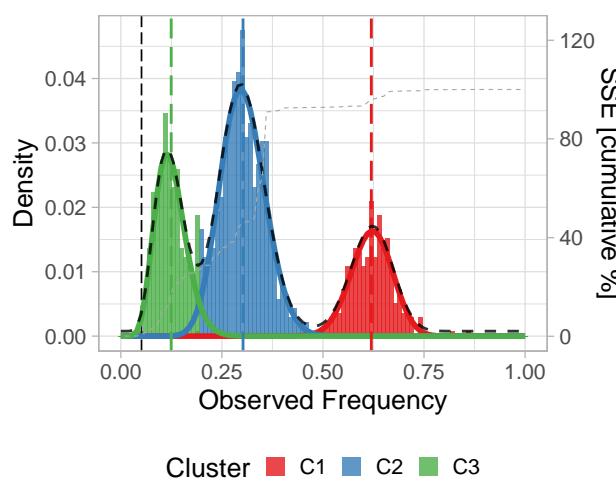
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



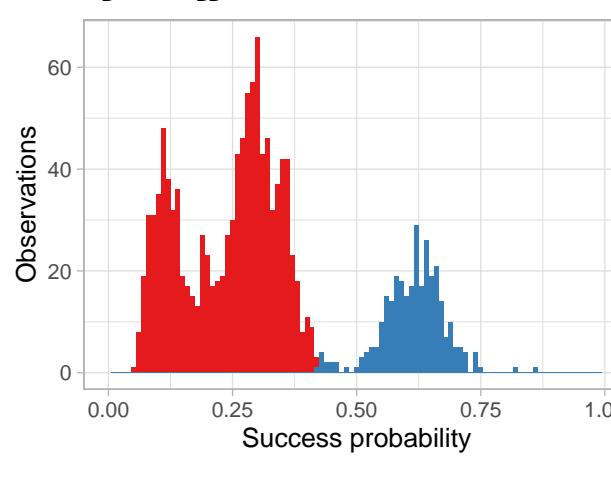
Karyotype: 2:0

N = 1390; Tail 0%, C1 20.94%, C3 26.33%, C2 52.73%



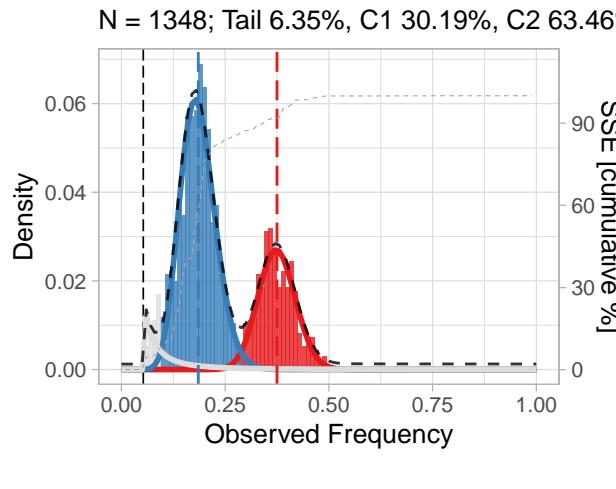
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



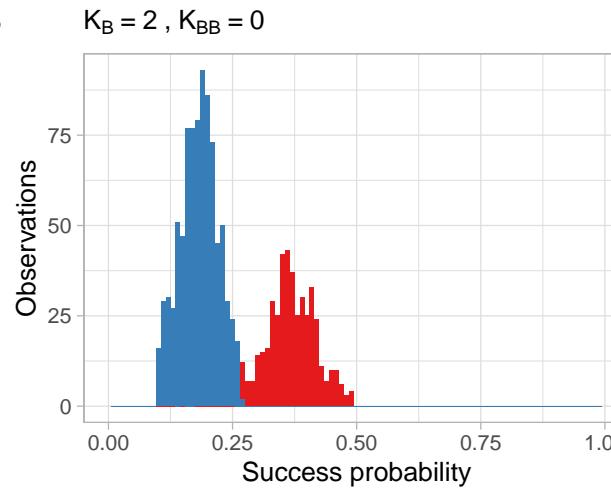
Karyotype: 2:2

N = 1348; Tail 6.35%, C1 30.19%, C2 63.46%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

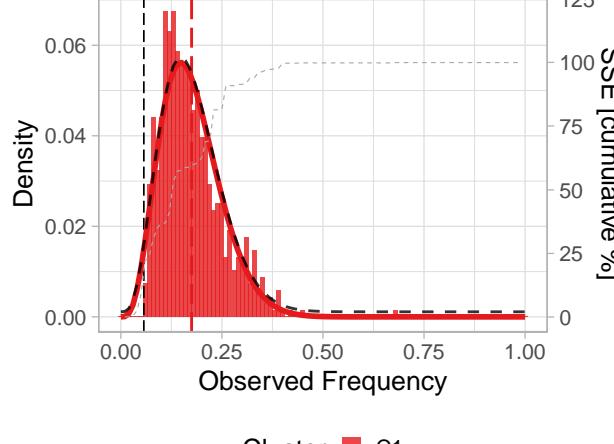


160925_HMFregCPCT_FR12254298_FR03631830_CPCT02100028

ONLY SNVs (min 150 – max 50000)

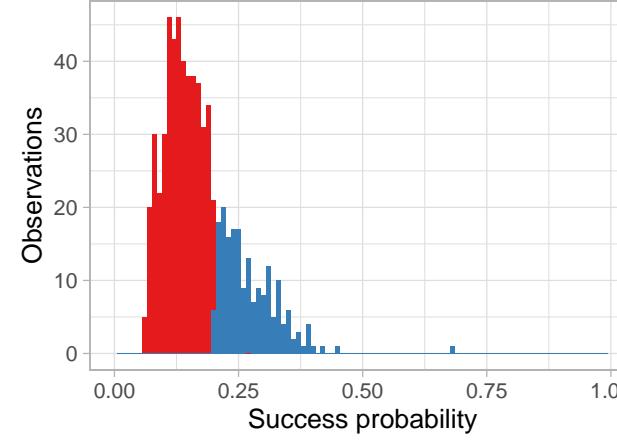
Karyotype: 1:0

N = 681; Tail 0%, C1 100%



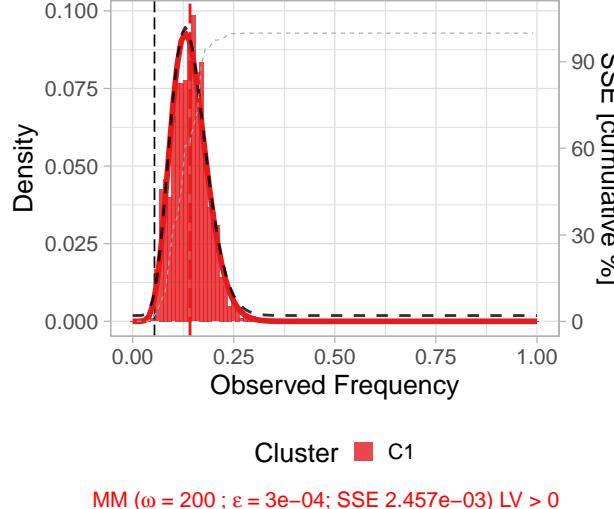
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



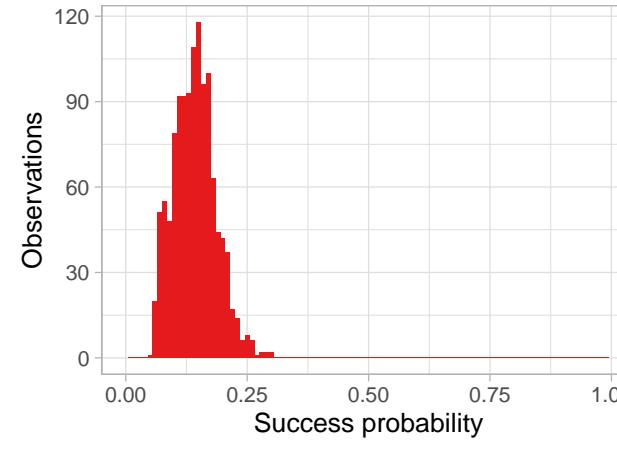
Karyotype: 1:1

N = 1198; Tail 0%, C1 100%



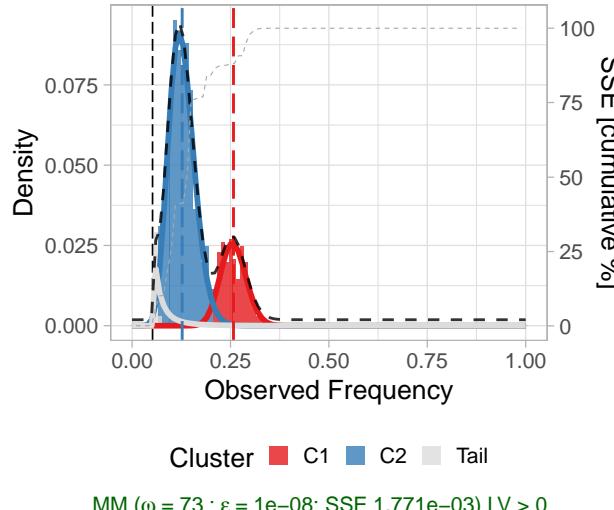
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



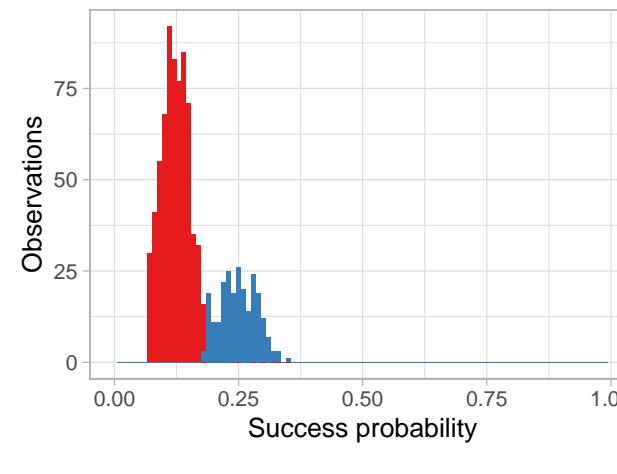
Karyotype: 2:1

N = 966; Tail 6.01%, C1 20.87%, C2 73.12%



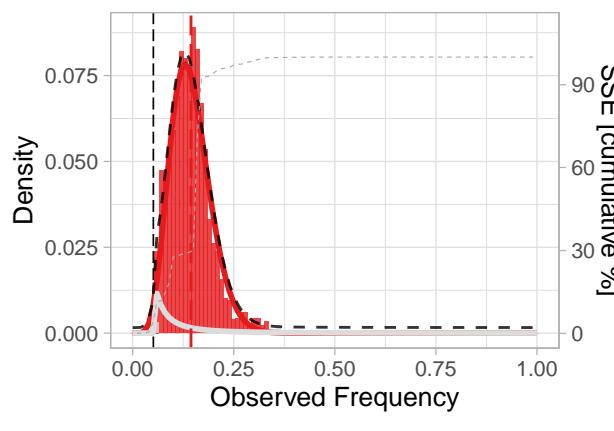
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



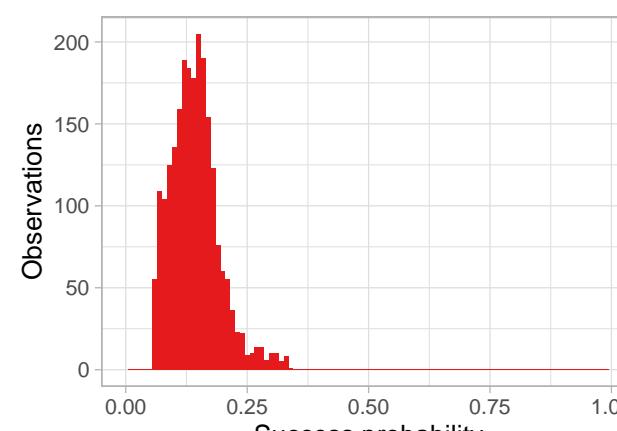
Karyotype: 2:0

N = 2302; Tail 6.62%, C1 93.38%

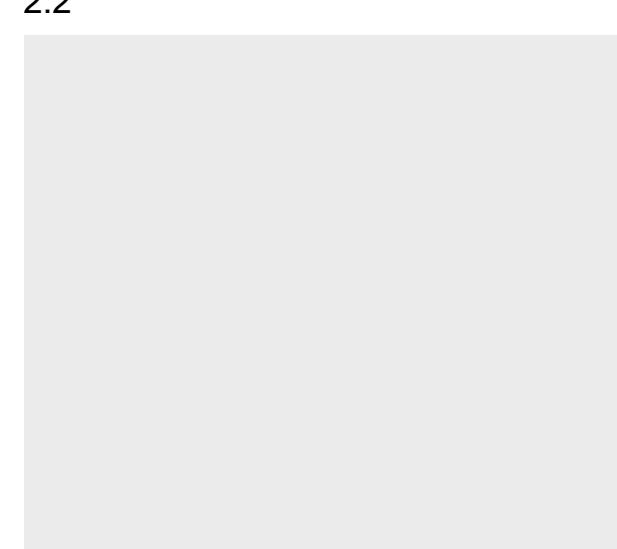


Karyotype: 2:0

$K_B = 1, K_{BB} = 0$



2:2

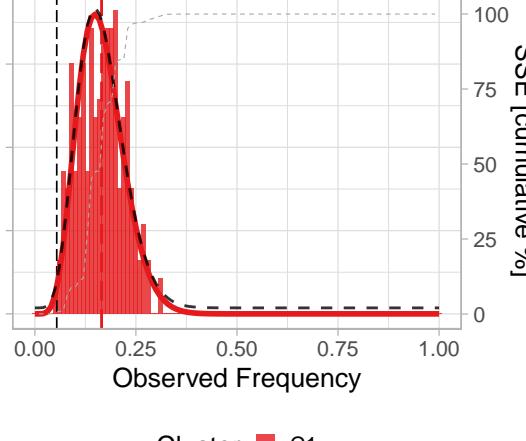


160926_HMFregCPCT_FR10304580_FR03631834_CPCT02140018

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

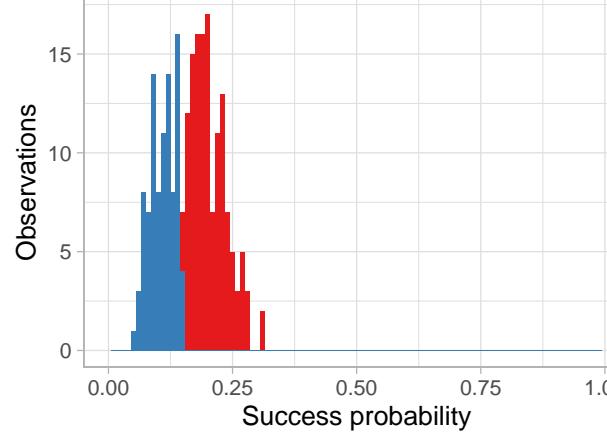
N = 233; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 5.784e-03) LV > 0

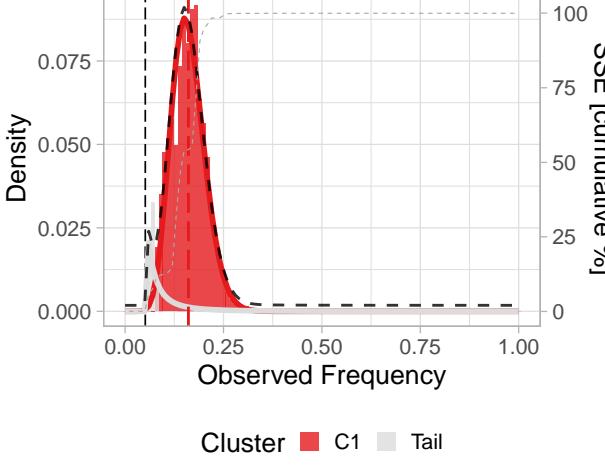
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

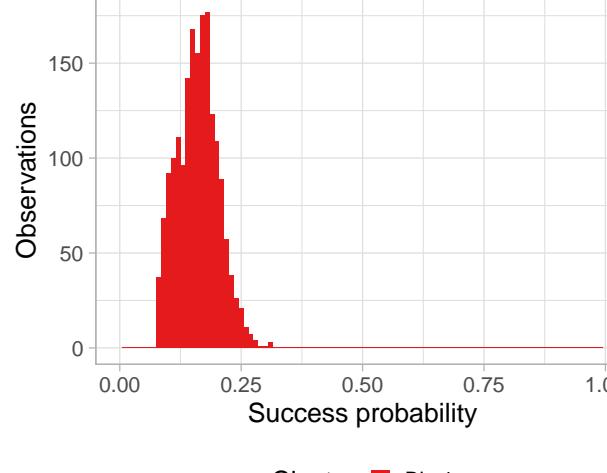
N = 1932; Tail 8.86%, C1 91.14%



MM ($\omega = 74$; $\epsilon = 1e-05$; SSE 3.314e-03) LV > 0

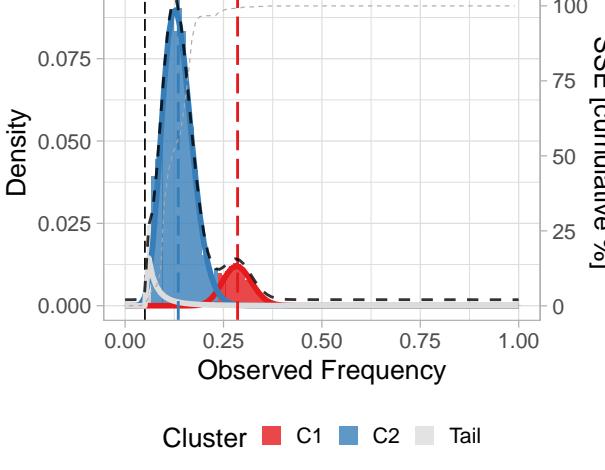
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

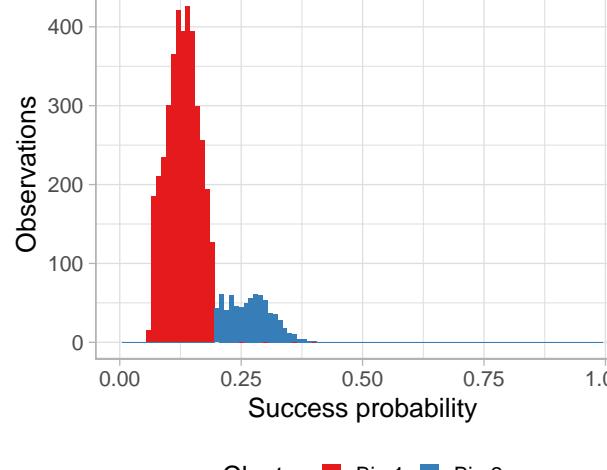
N = 4723; Tail 5.81%, C1 10.98%, C2 83.21%



MM ($\omega = 115$; $\epsilon = 3e-06$; SSE 1.134e-03) LV > 0

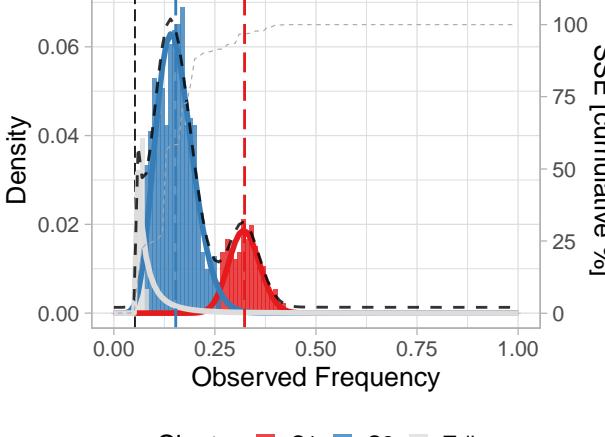
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

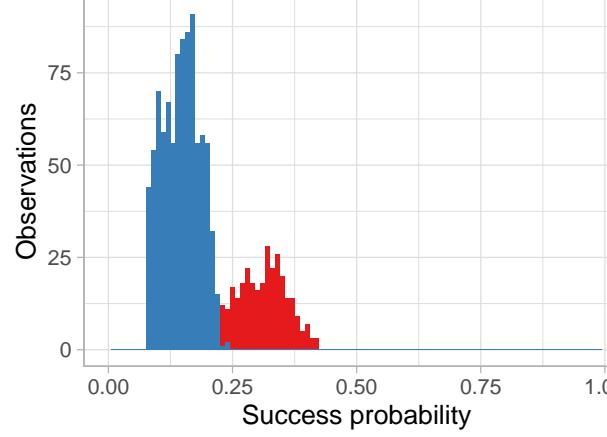
N = 1321; Tail 11.76%, C1 17.72%, C2 70.53%



MM ($\omega = 100$; $\epsilon = 1e-06$; SSE 2.018e-03) LV > 0

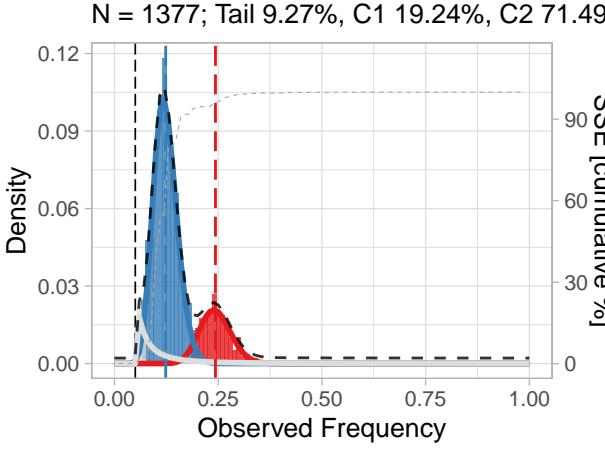
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

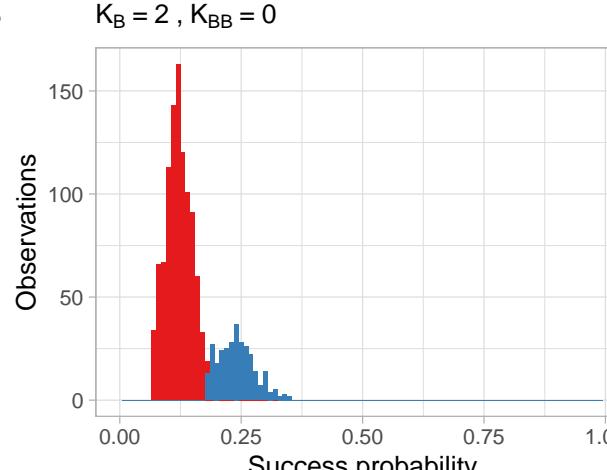
N = 1377; Tail 9.27%, C1 19.24%, C2 71.49%



MM ($\omega = 132$; $\epsilon = 2e-06$; SSE 1.913e-03) LV > 0

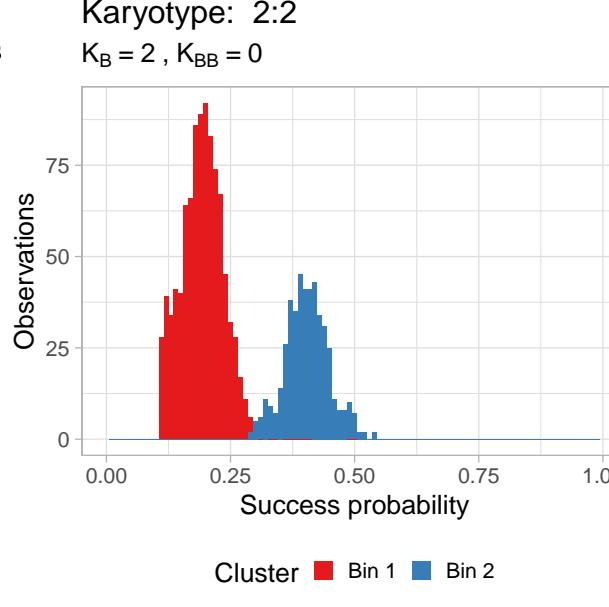
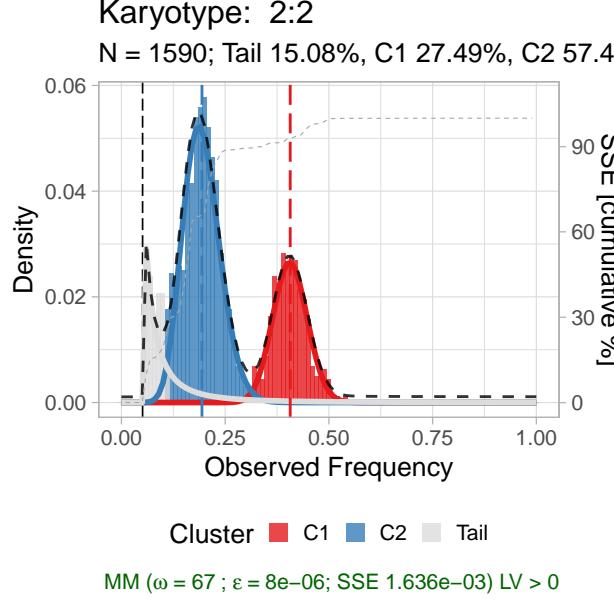
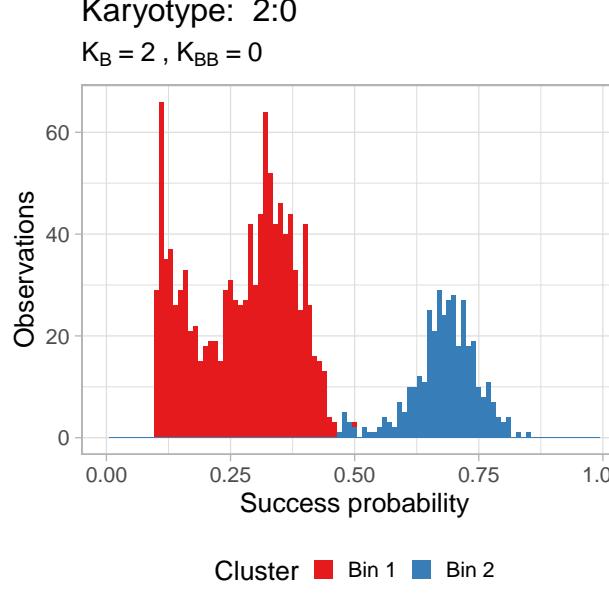
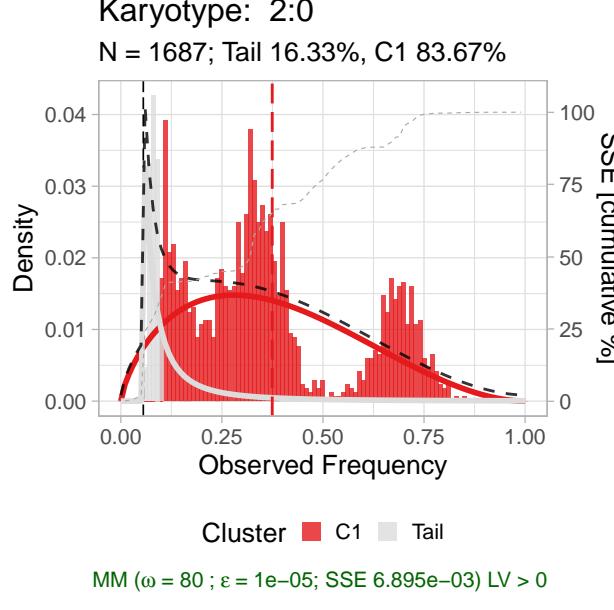
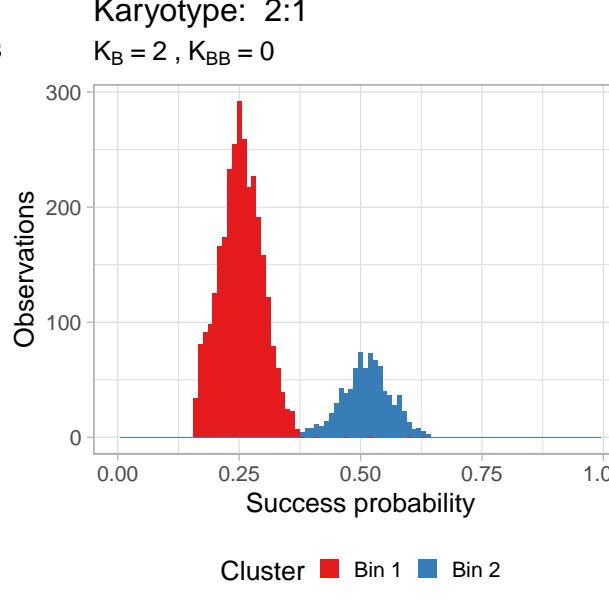
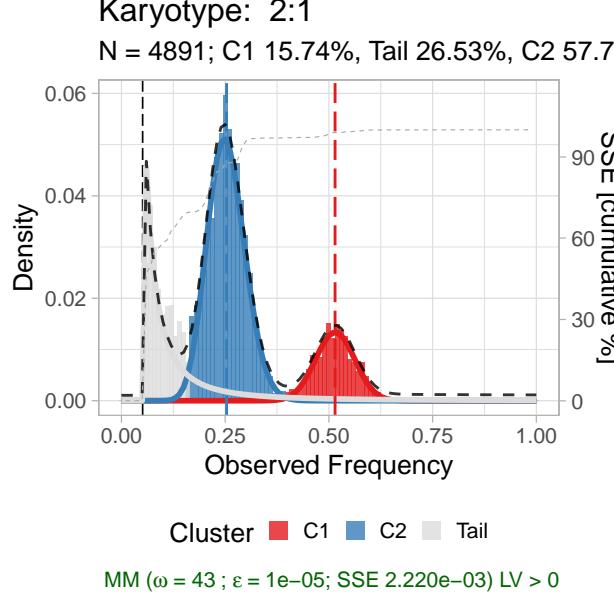
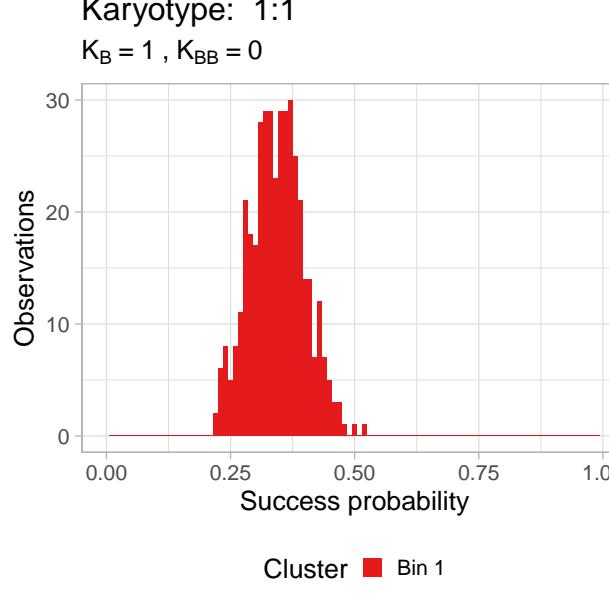
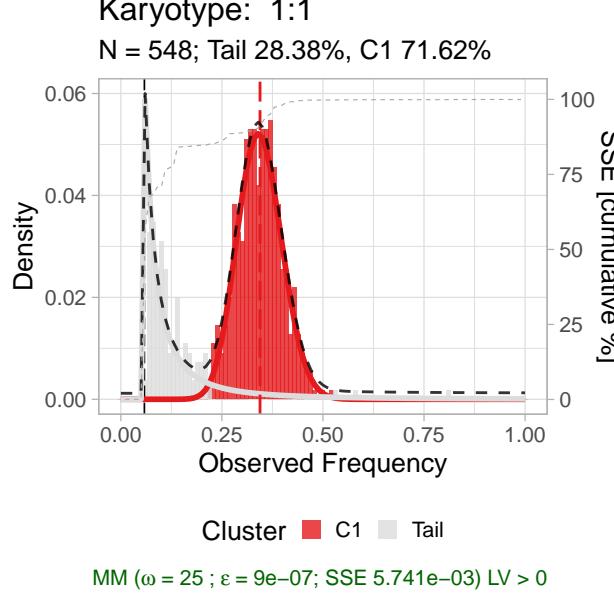
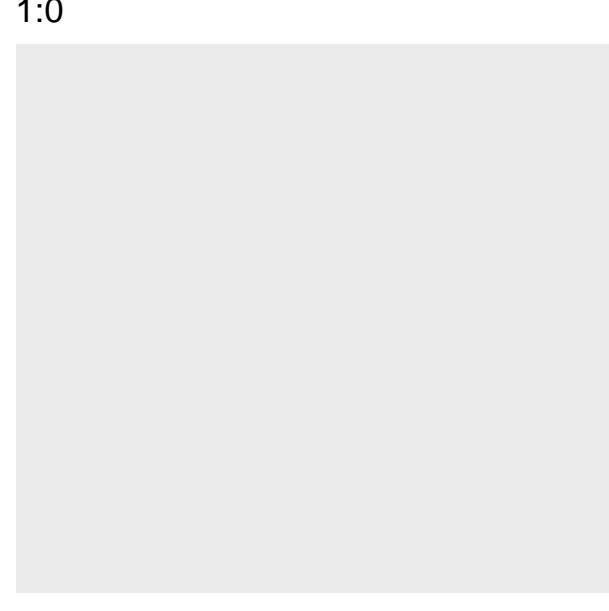
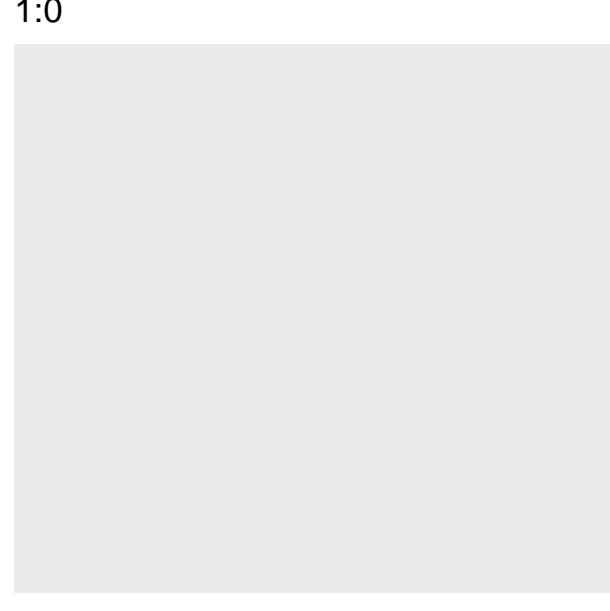
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



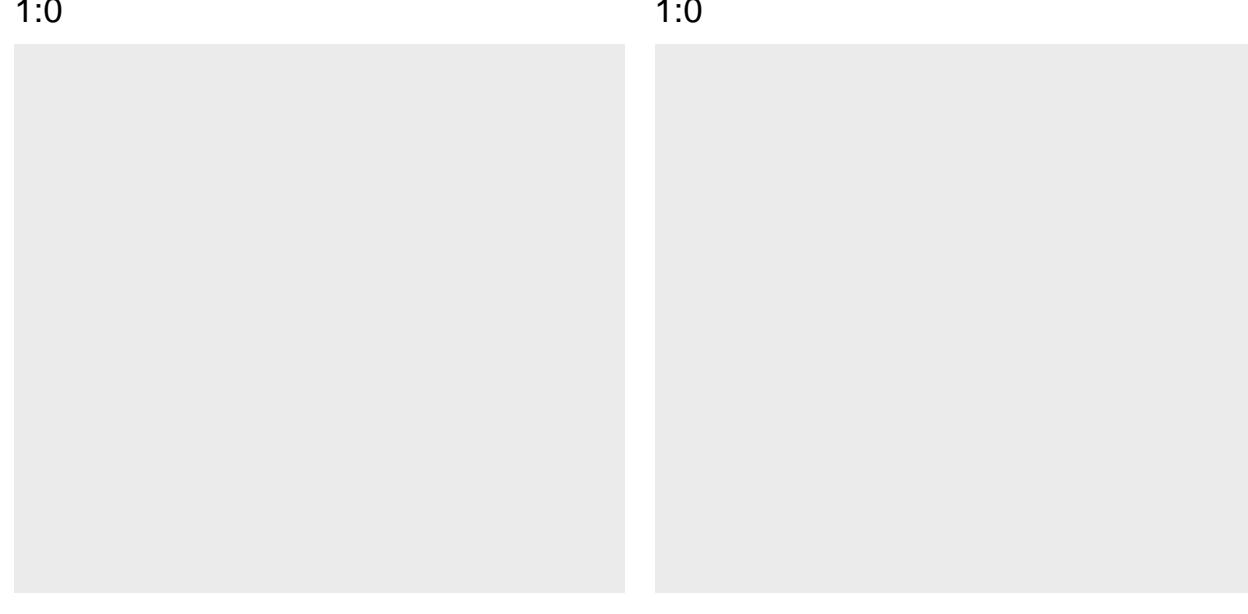
160926_HMFregCPCT_FR12251959_FR03631831_CPCT02100029

ONLY SNVs (min 150 – max 50000)

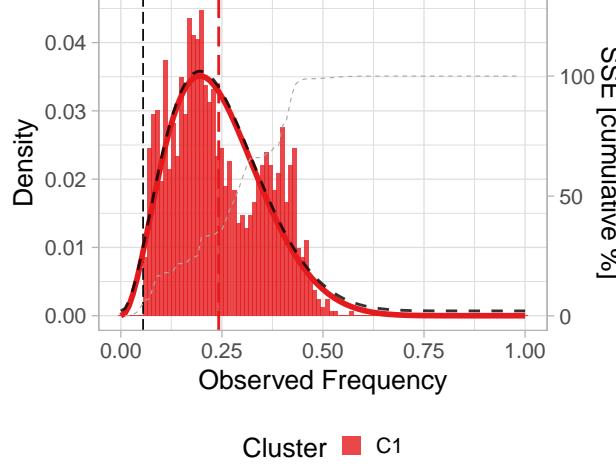


161001_HMFregCPCT_FR10304586_FR12251584_CPCT02020370

ONLY SNVs (min 150 – max 50000)

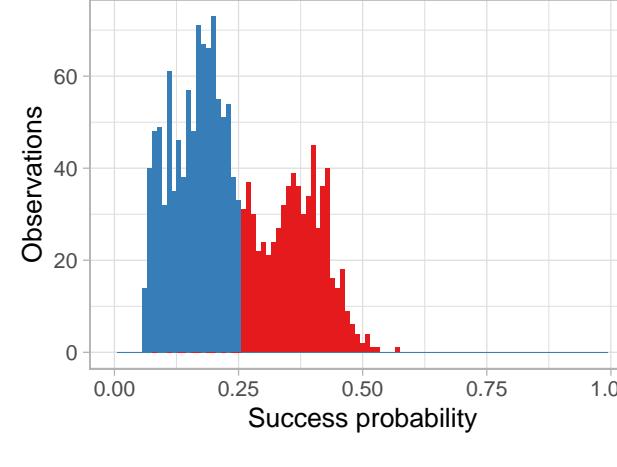


Karyotype: 2:1
N = 1630; Tail 0%, C1 100%

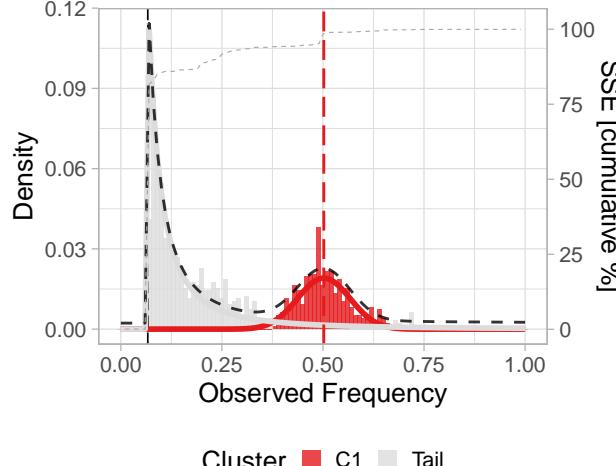


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 2.697e-03) LV > 0

Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$

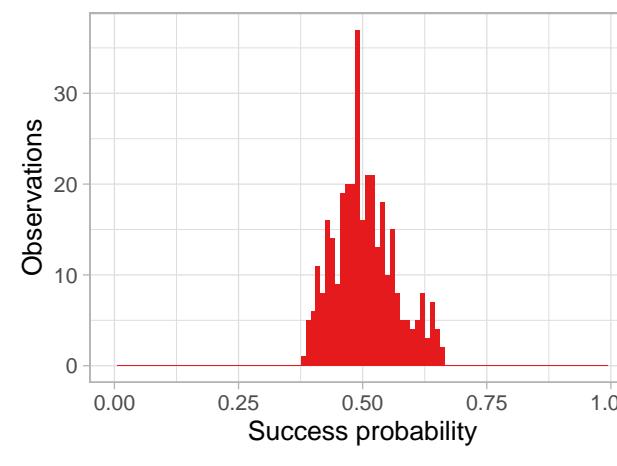


Karyotype: 2:0
N = 973; C1 30.55%, Tail 69.45%

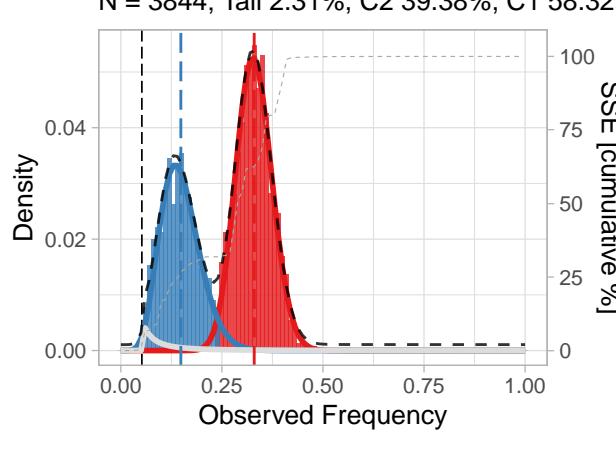


MM ($\omega = 43$; $\epsilon = 1e-06$; SSE 1.168e-02) LV > 0

Karyotype: 2:0
 $K_B = 1$, $K_{BB} = 0$

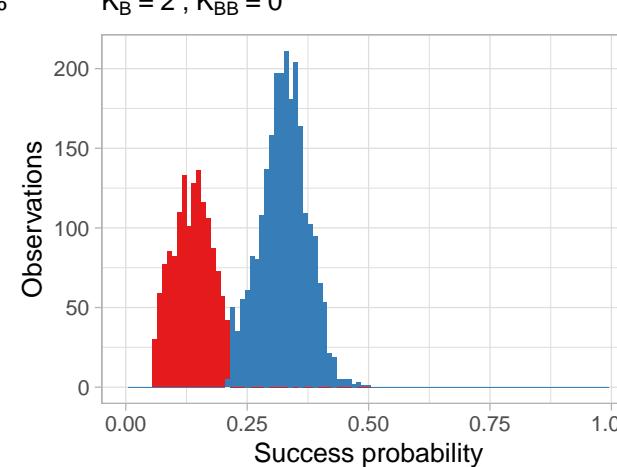


Karyotype: 2:2
N = 3844; Tail 2.31%, C2 39.38%, C1 58.32%



MM ($\omega = 200$; $\epsilon = 1e-05$; SSE 5.566e-04) LV > 0

Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

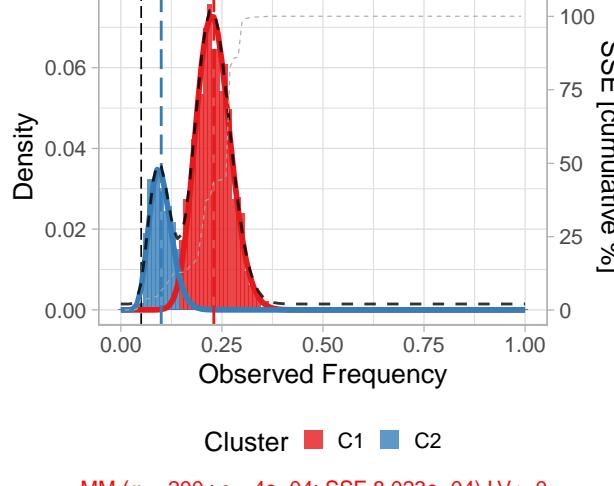


161001_HMFregCPCT_FR10304587_FR12251979_CPCT02020371

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

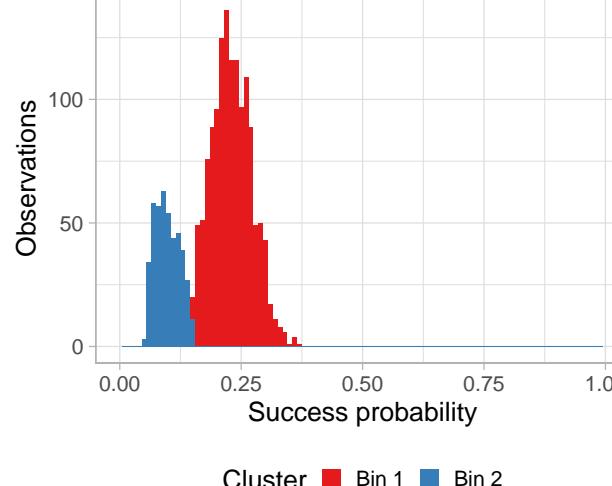
N = 1795; Tail 0%, C2 23.25%, C1 76.75%



MM ($\omega = 200$; $\varepsilon = 4e-04$; SSE 8.023e-04) LV > 0

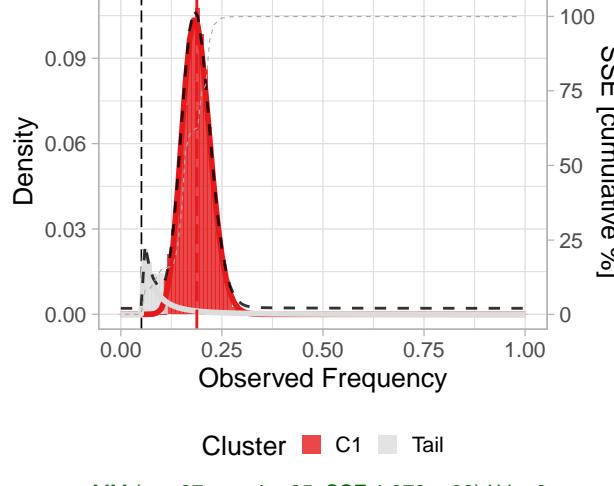
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

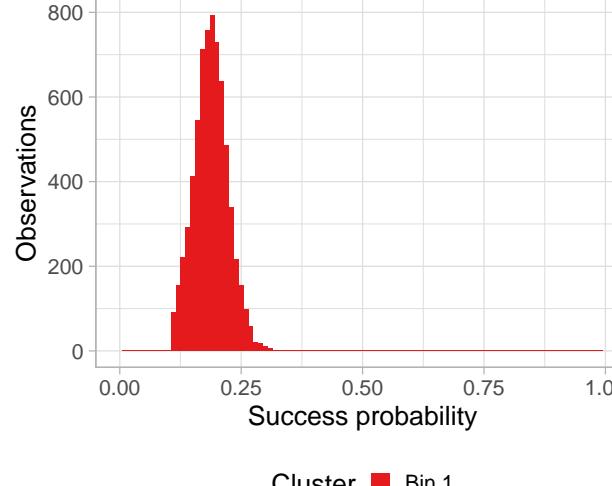
N = 7386; Tail 10.78%, C1 89.22%



MM ($\omega = 37$; $\varepsilon = 4e-05$; SSE 1.973e-03) LV > 0

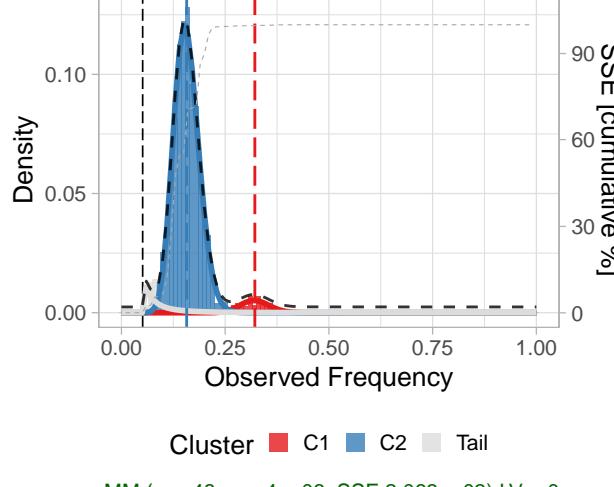
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

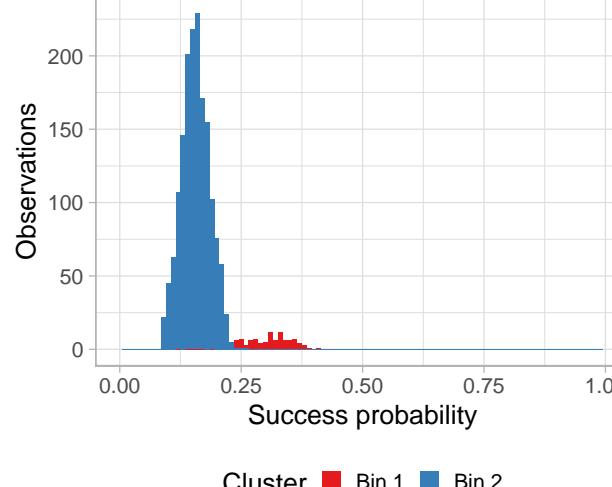
N = 1785; C1 4.46%, Tail 4.88%, C2 90.67%



MM ($\omega = 48$; $\varepsilon = 4e-06$; SSE 2.063e-03) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

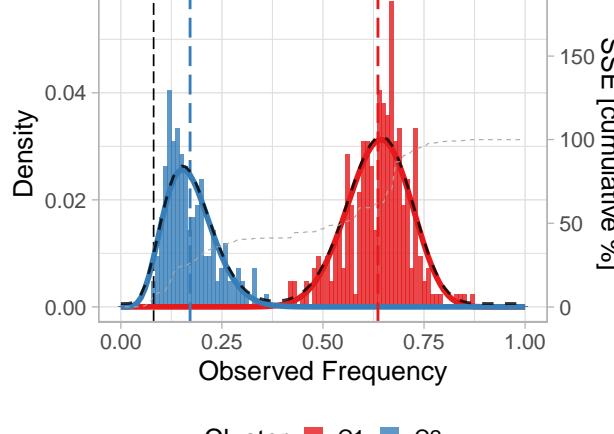
2:2

161001_HMFreqCPCT_FR12251871_FR12254115_CPCT02020369

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

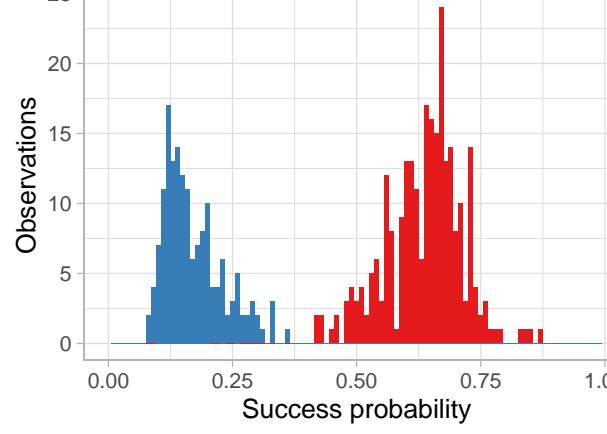
N = 420; Tail 0%, C2 38.1%, C1 61.9%



MM ($\omega = 39$; $\epsilon = 3e-05$; SSE 2.242e-03) LV > 0

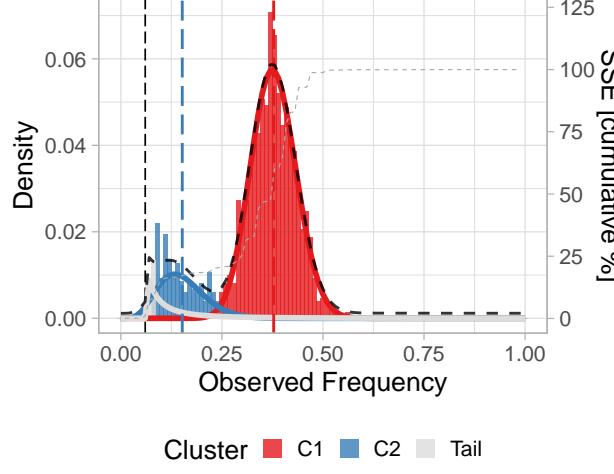
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

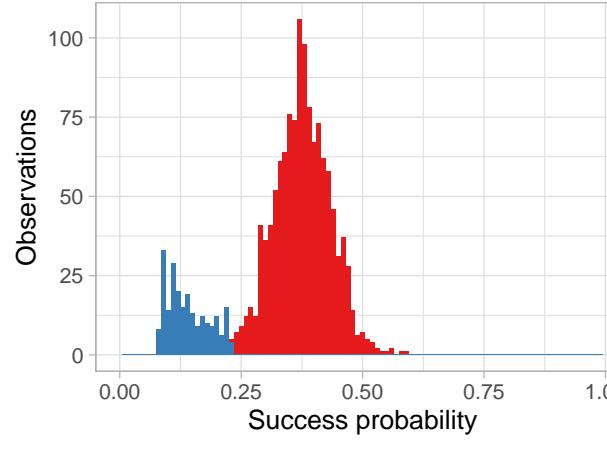
N = 1499; Tail 5.4%, C2 14.12%, C1 80.48%



MM ($\omega = 200$; $\epsilon = 2e-02$; SSE 1.239e-03) LV > 0

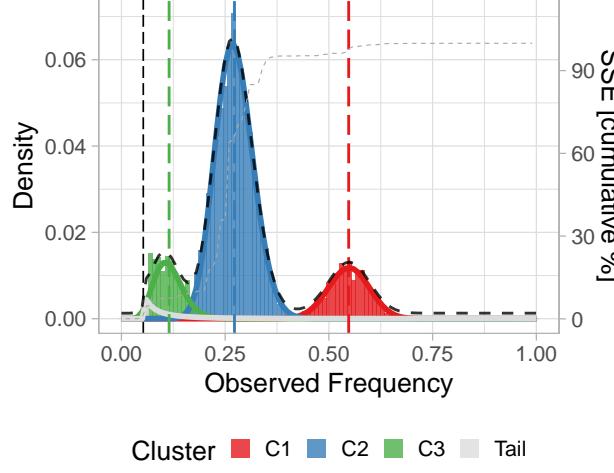
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

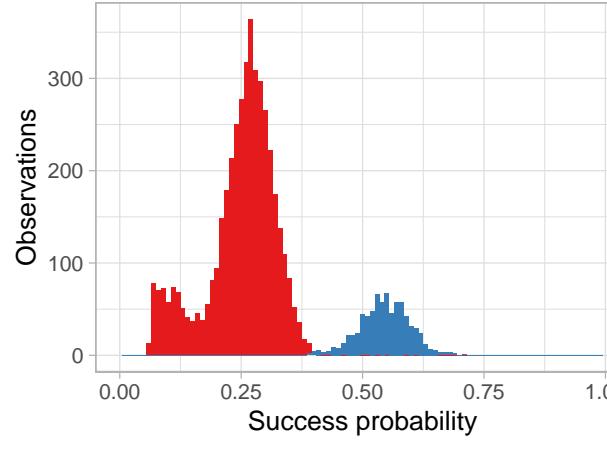
N = 5138; Tail 2.37%, C3 11.03%, C1 14.59%



MM ($\omega = 193$; $\epsilon = 7e-06$; SSE 5.960e-04) LV > 0

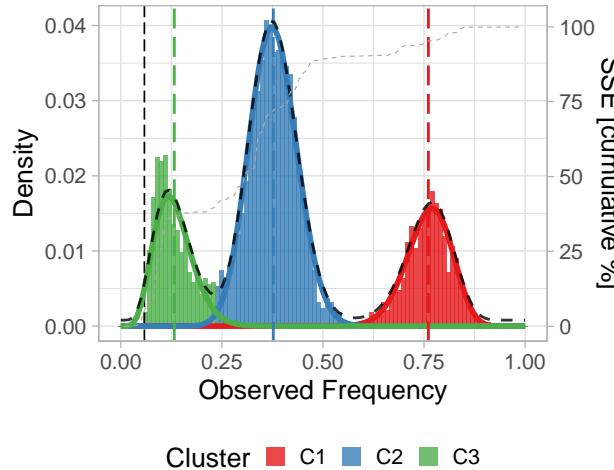
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

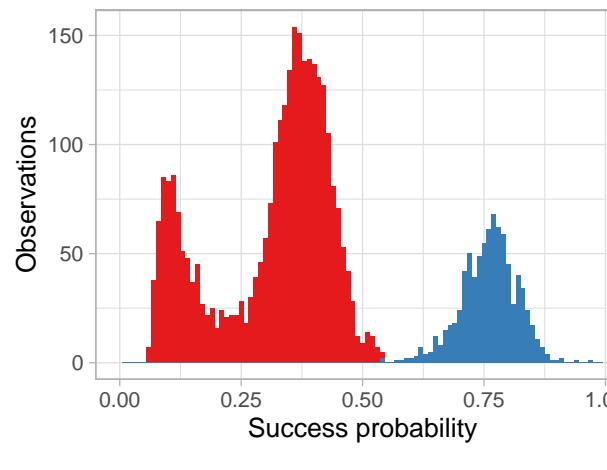
N = 3785; Tail 0%, C3 19.66%, C1 21.84%, C2



MM ($\omega = 200$; $\epsilon = 1e-04$; SSE 5.364e-04) LV > 0

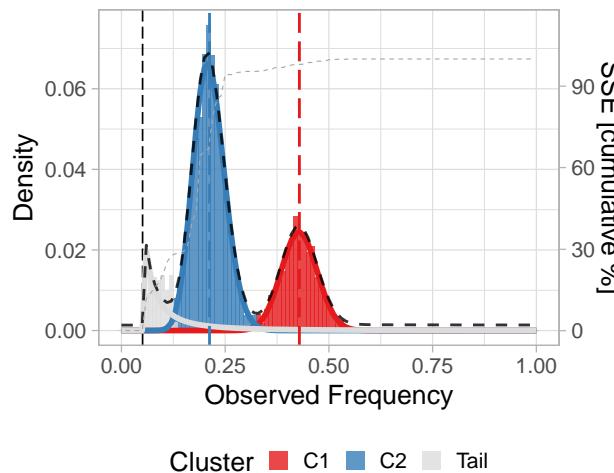
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

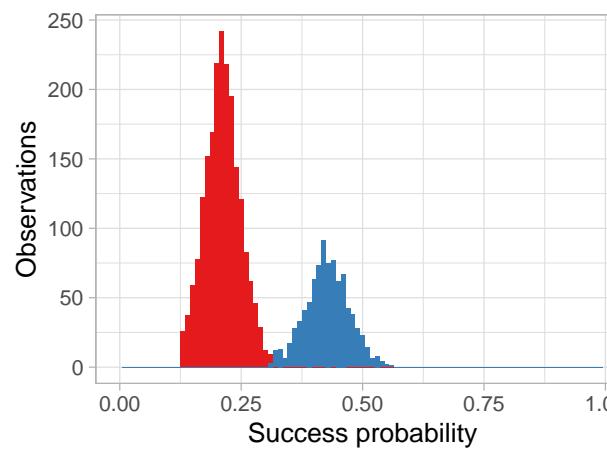
N = 3189; Tail 11.35%, C1 26.38%, C2 62.27%



MM ($\omega = 38$; $\epsilon = 9e-06$; SSE 1.357e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

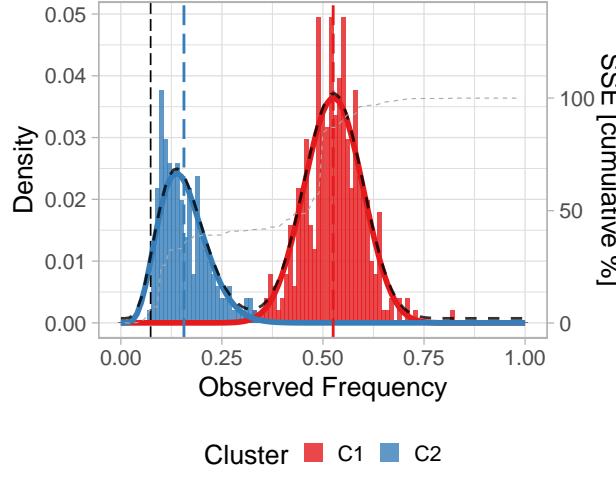


161003_HMFregCPCT_FR10304582_FR12244718_CPCT02040036

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

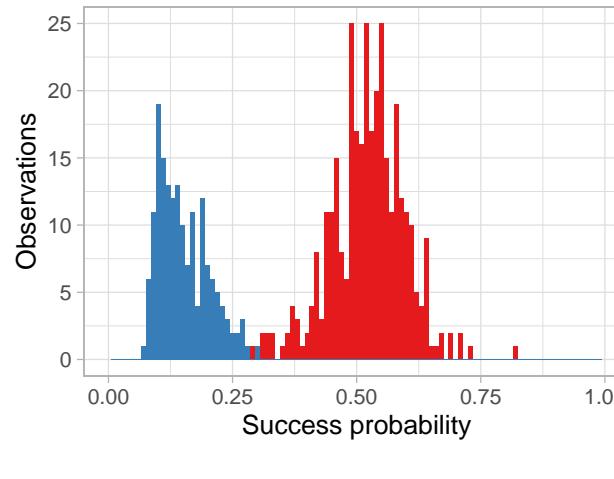
N = 505; Tail 0%, C2 34.29%, C1 65.71%



MM ($\omega = 48$; $\epsilon = 2e-05$; SSE $2.354e-03$) LV > 0

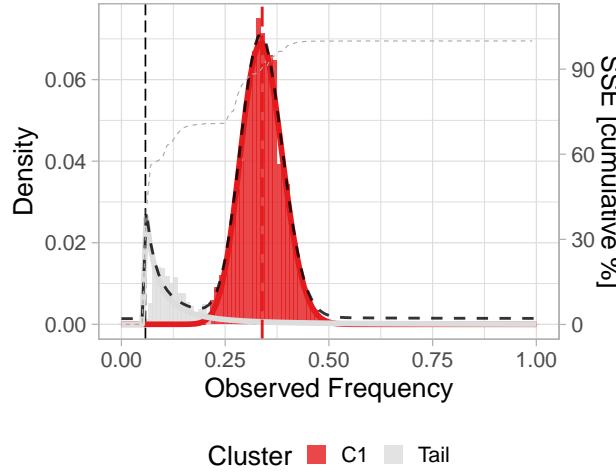
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

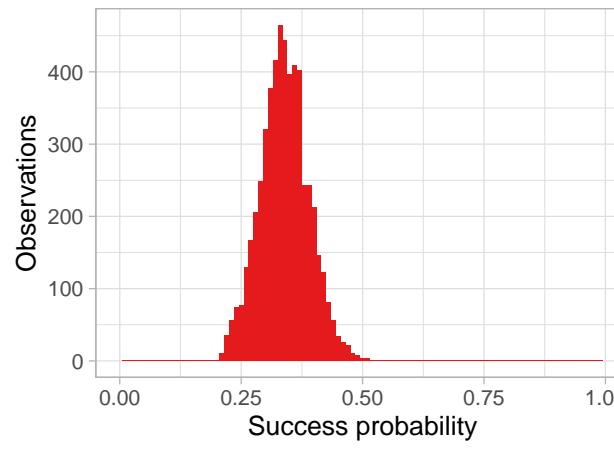
N = 6201; Tail 13.87%, C1 86.13%



MM ($\omega = 20$; $\epsilon = 7e-06$; SSE $1.641e-03$) LV > 0

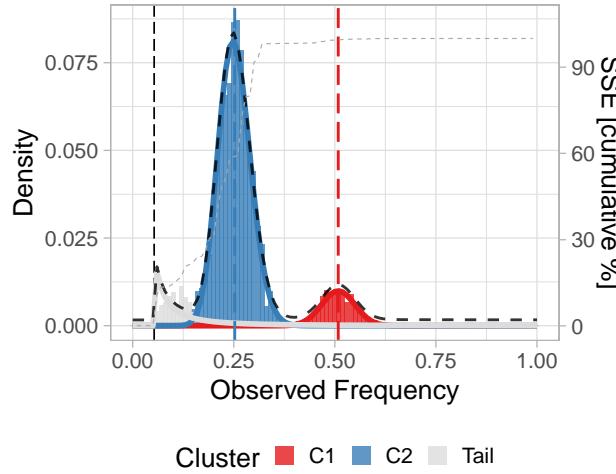
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

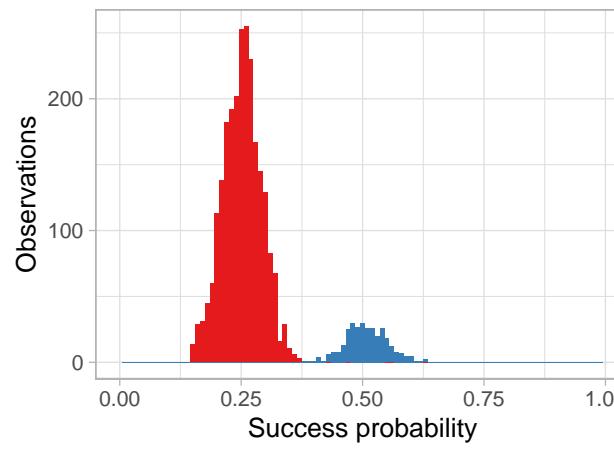
N = 2924; Tail 9.22%, C1 10.19%, C2 80.58%



MM ($\omega = 23$; $\epsilon = 2e-05$; SSE $1.580e-03$) LV > 0

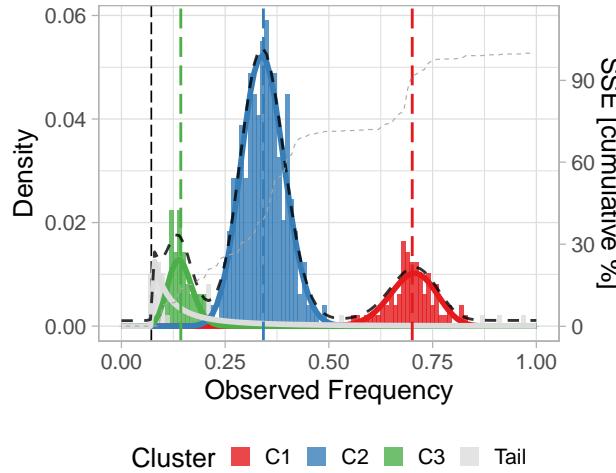
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

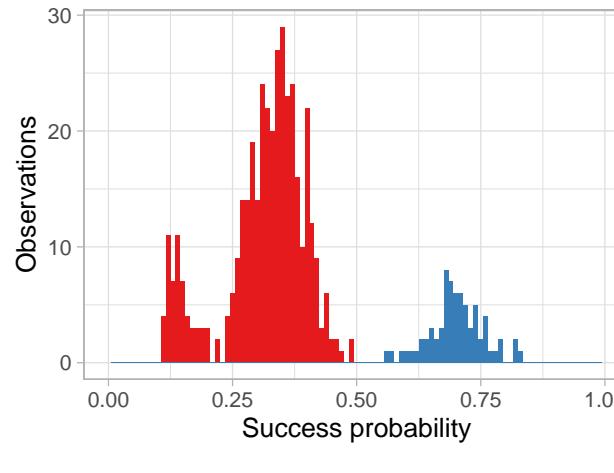
N = 491; Tail 9.19%, C3 9.27%, C1 14.25%, C2 65.39%



MM ($\omega = 103$; $\epsilon = 6e-07$; SSE $1.317e-03$) LV > 0

Karyotype: 2:0

$K_B = 2, K_{BB} = 0$

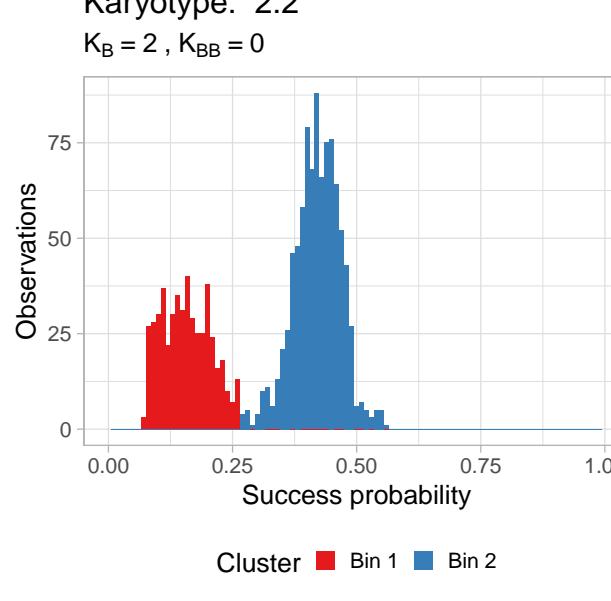
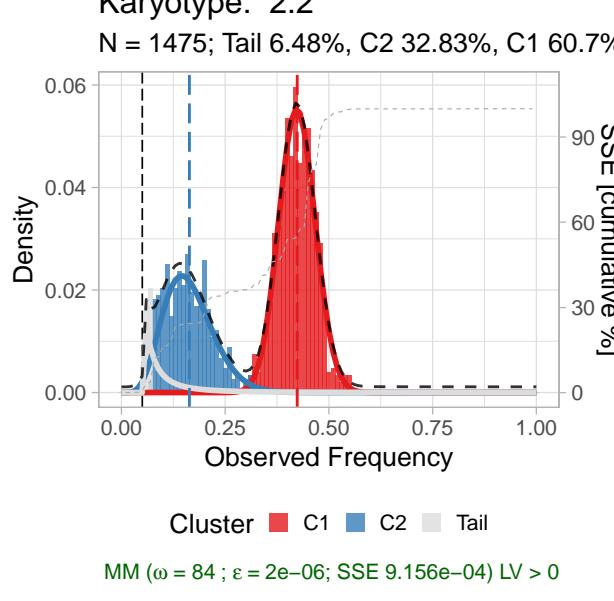
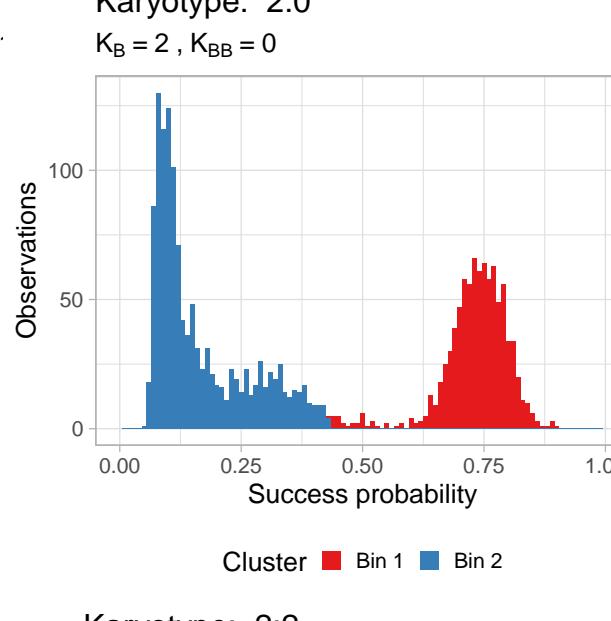
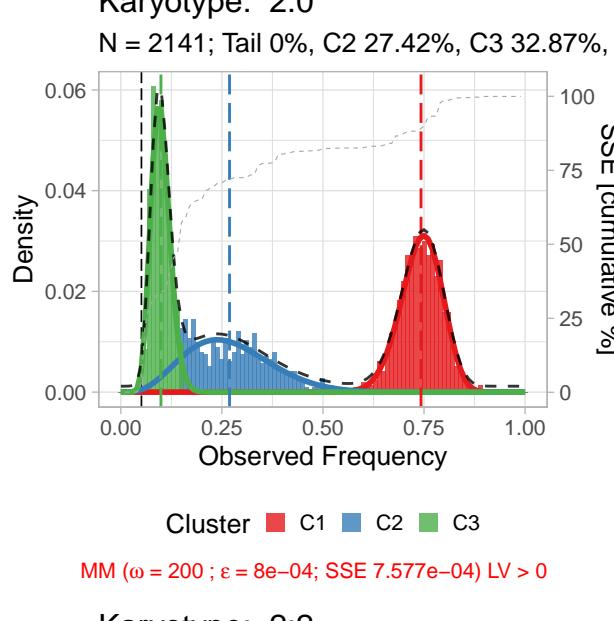
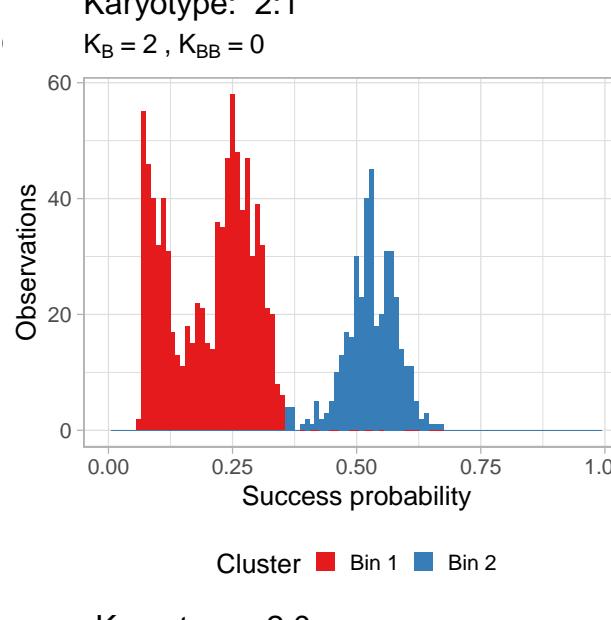
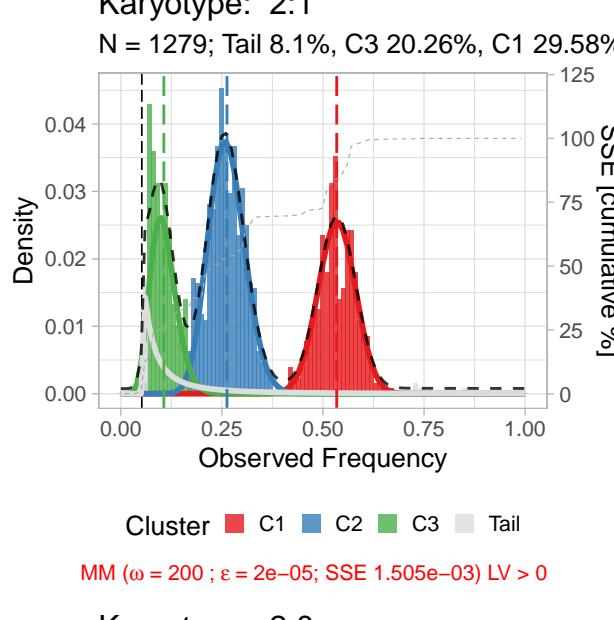
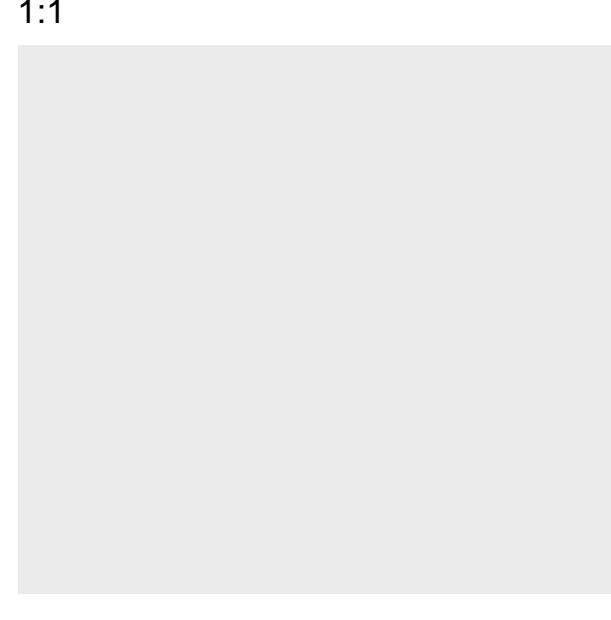
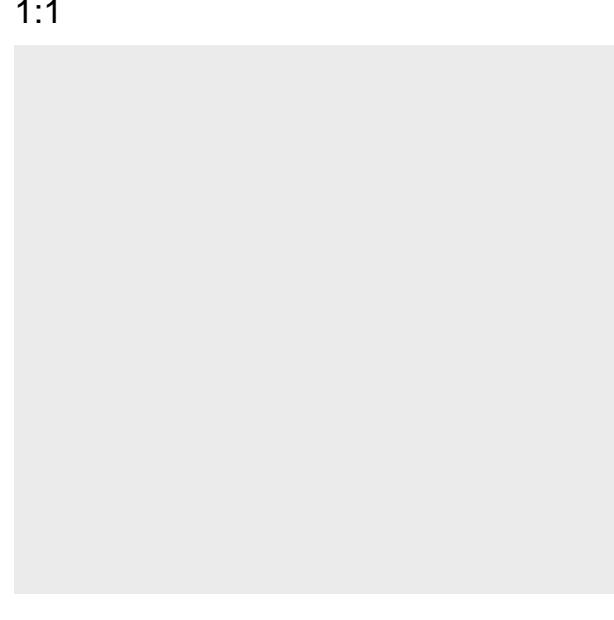
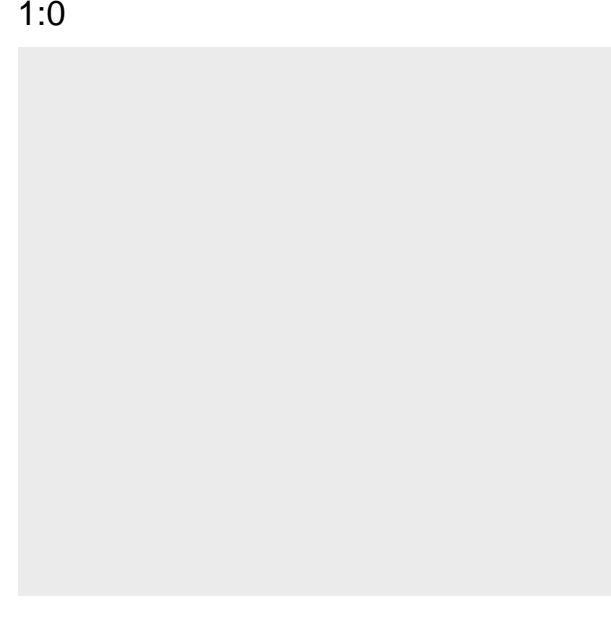
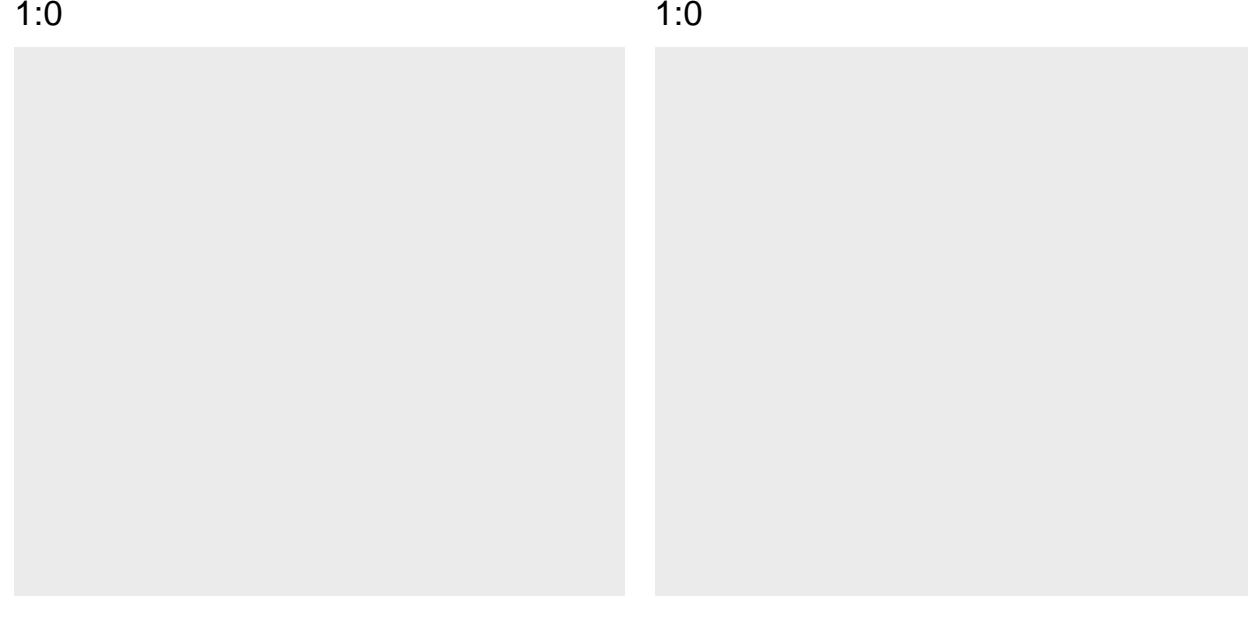


2:2

2:2

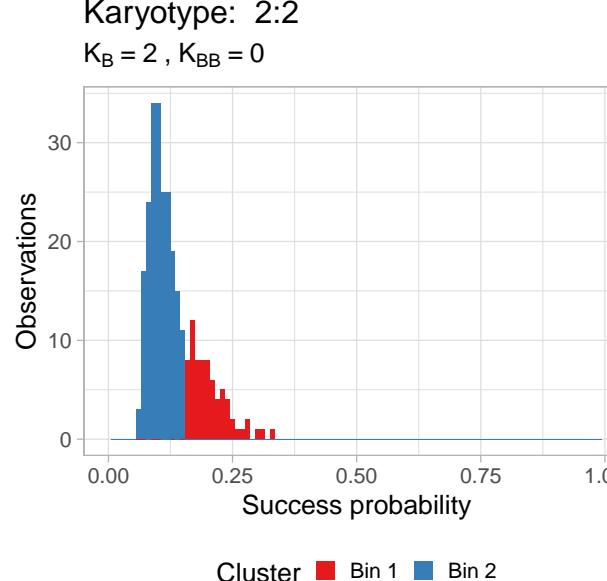
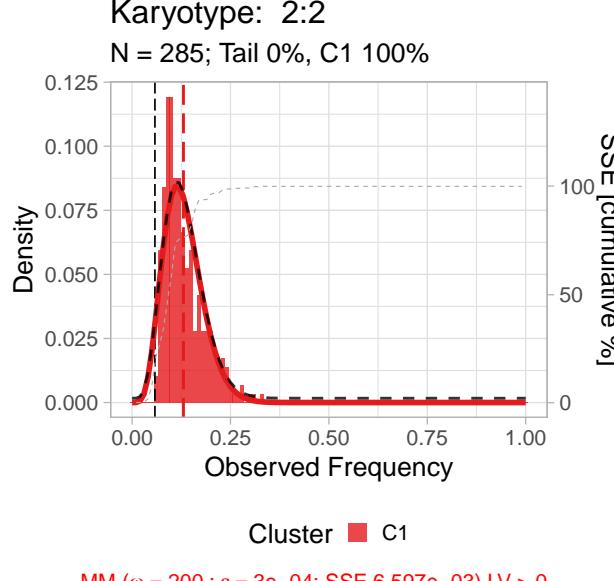
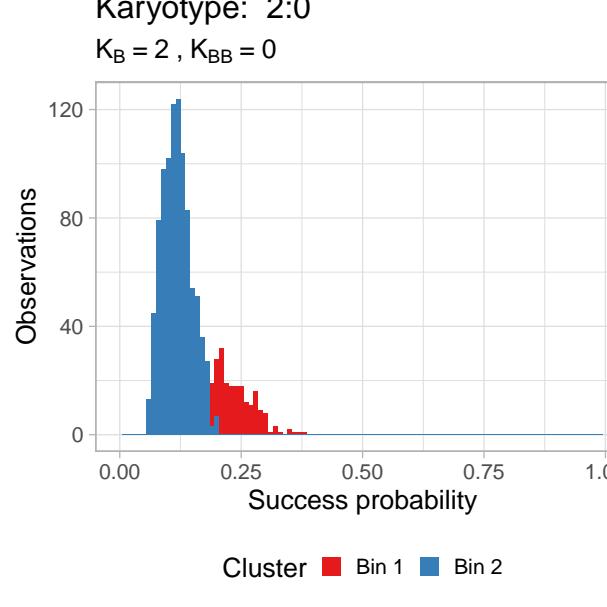
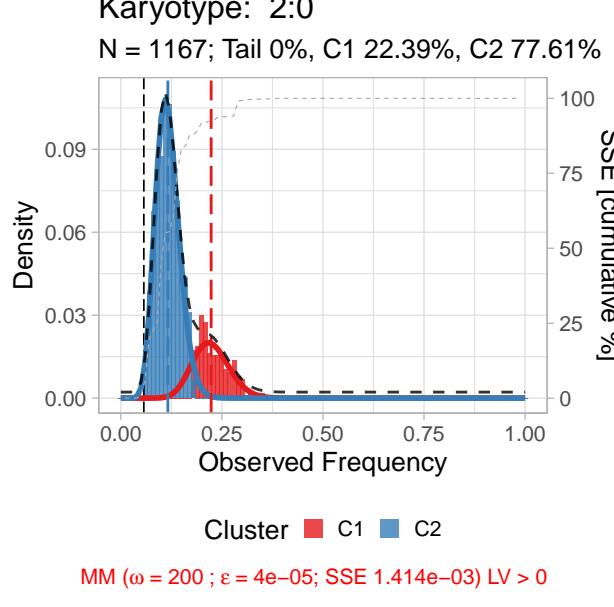
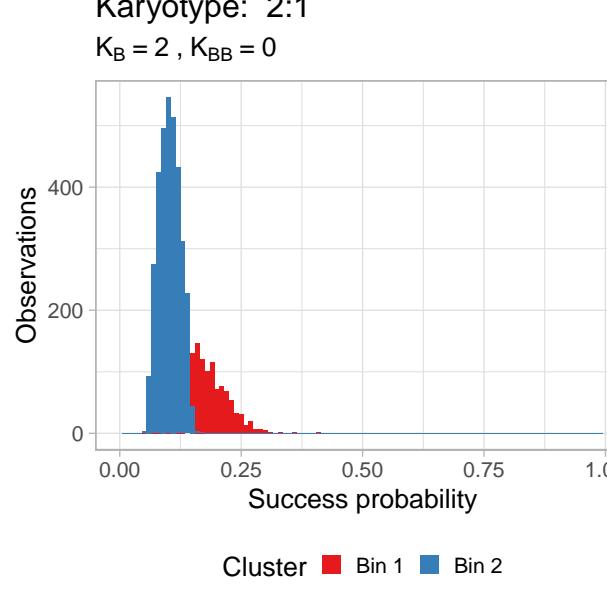
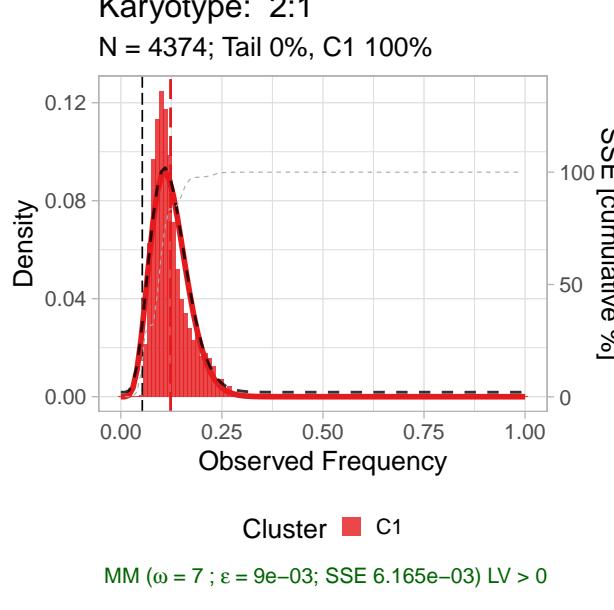
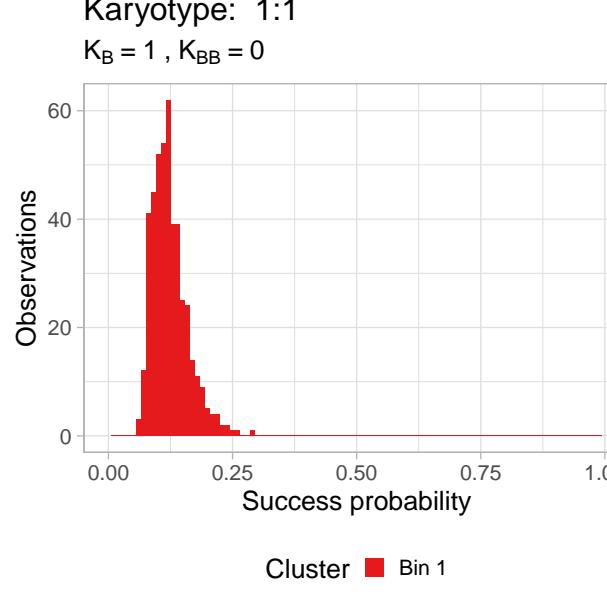
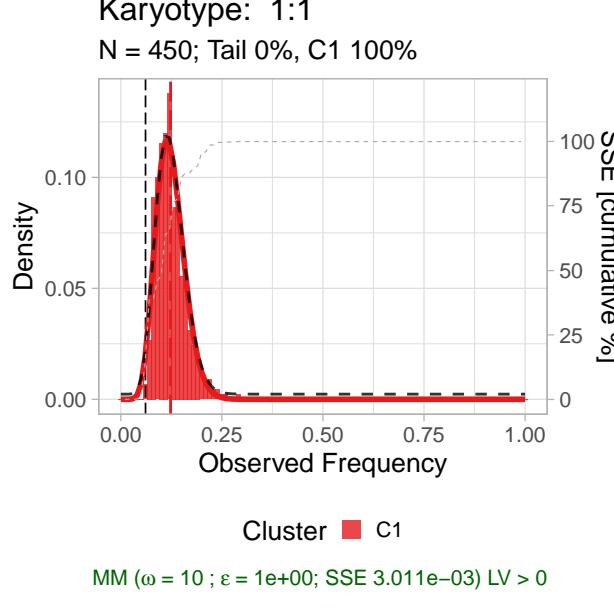
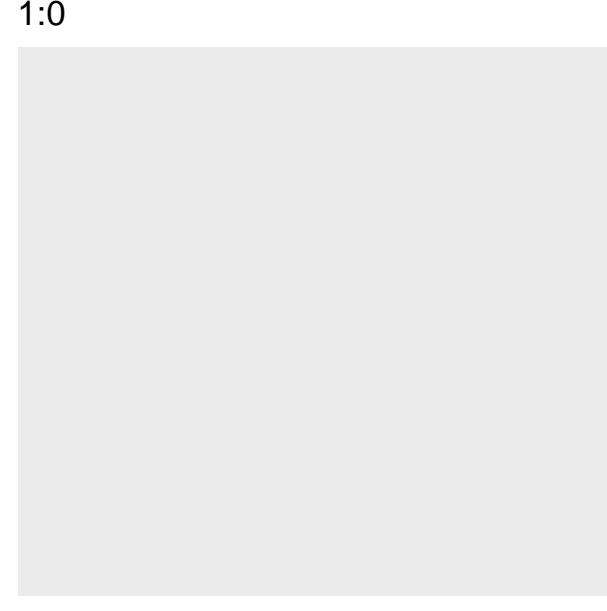
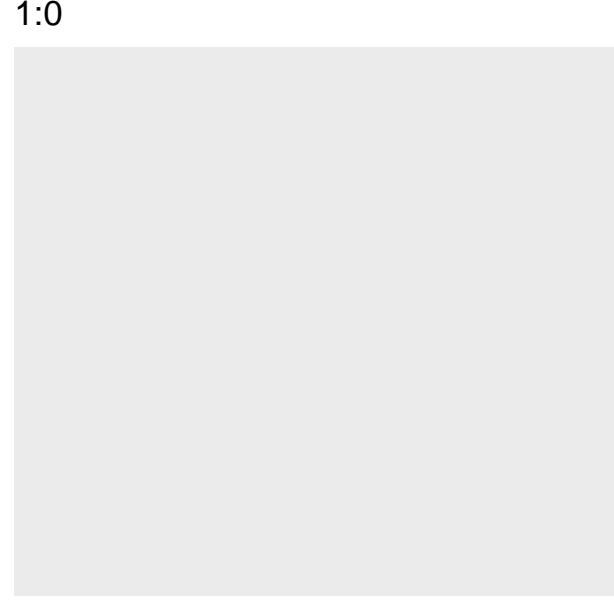
161003_HMFregCPCT_FR10304594_FR12254235_CPCT02010408

ONLY SNVs (min 150 – max 50000)



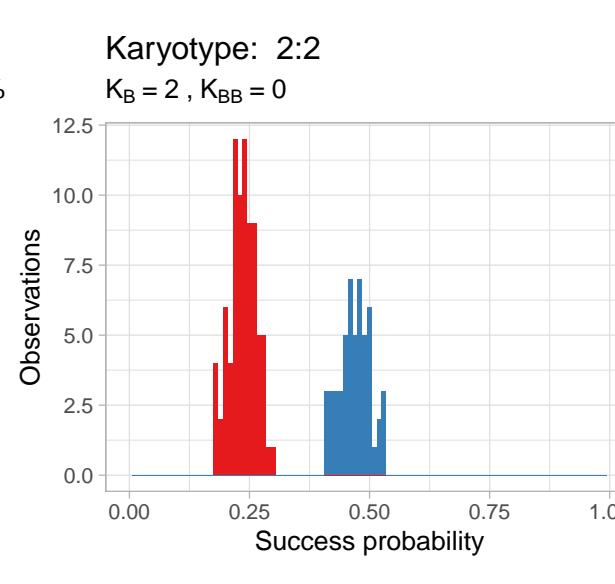
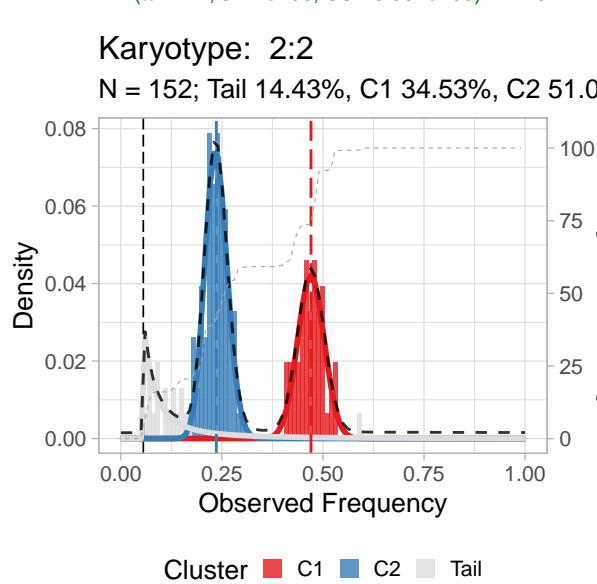
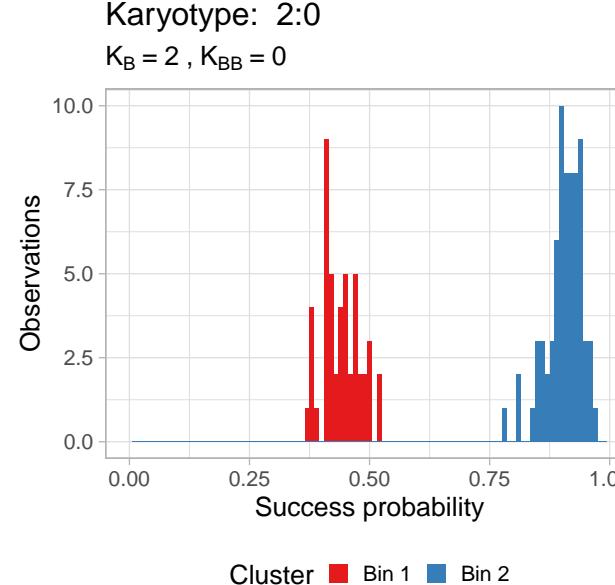
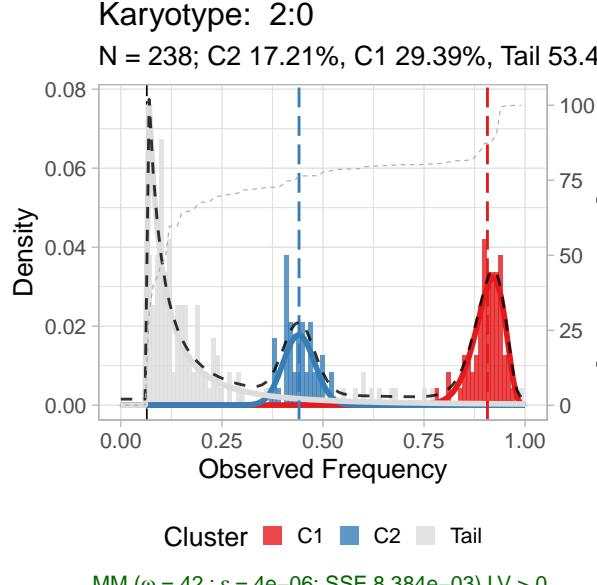
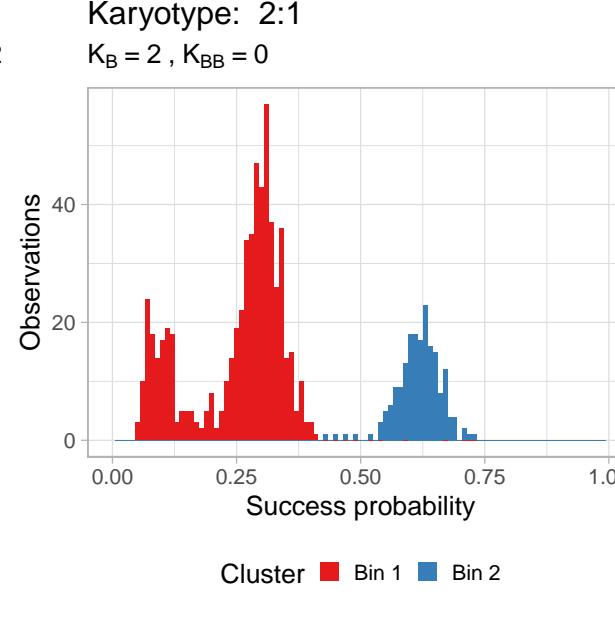
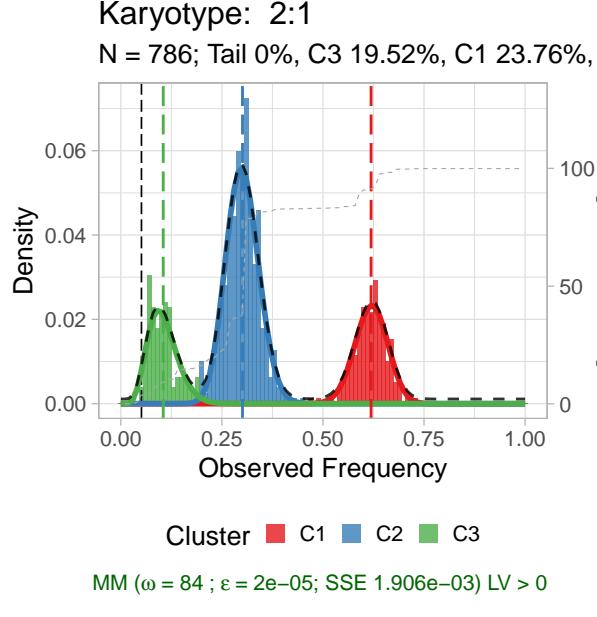
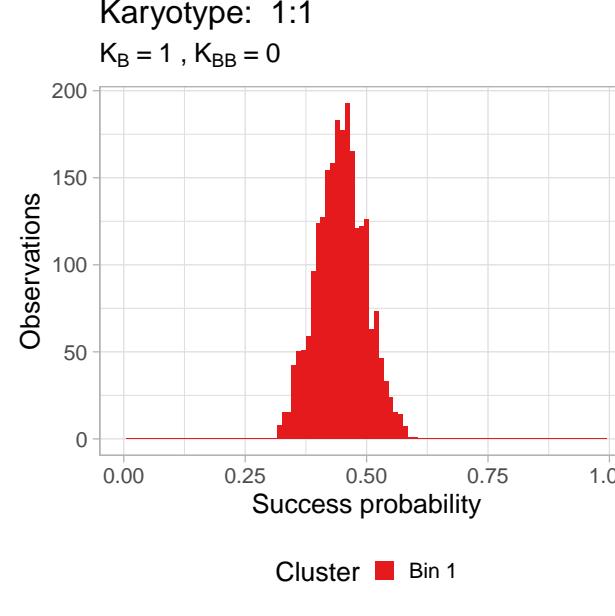
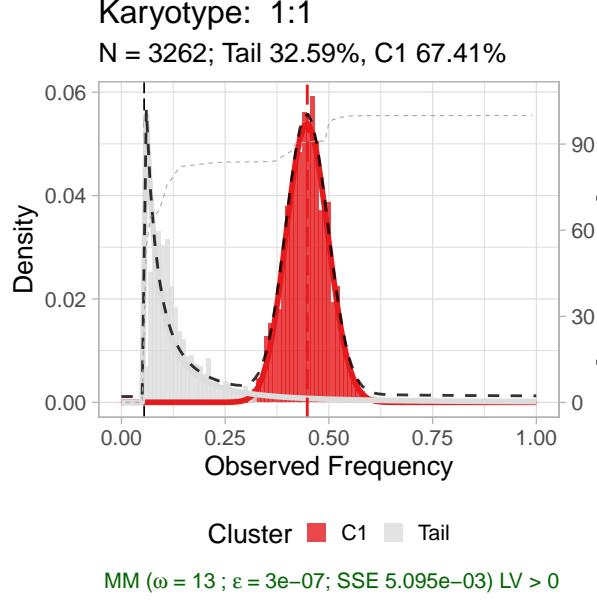
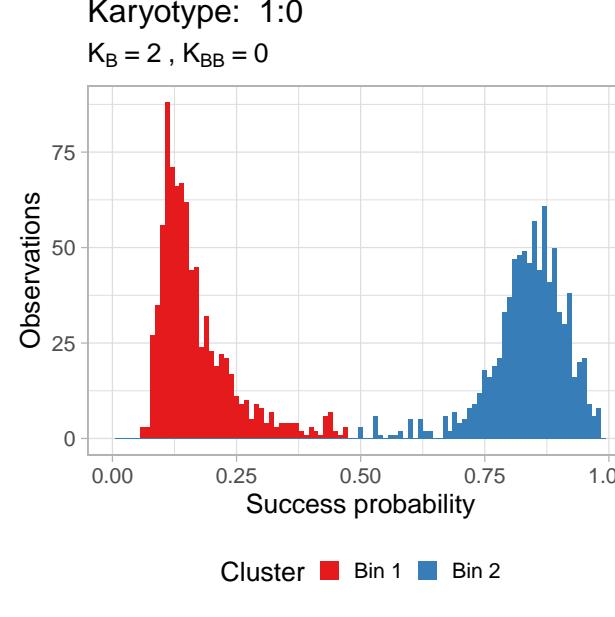
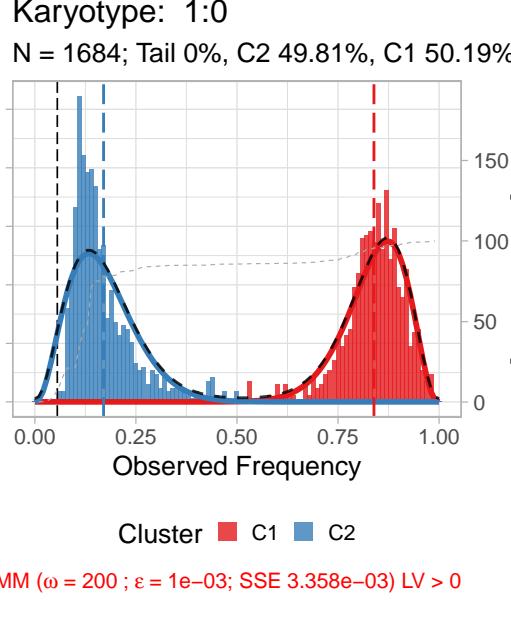
161003_HMFregCPCT_FR10304597_FR12245854_CPCT02140021

ONLY SNVs (min 150 – max 50000)



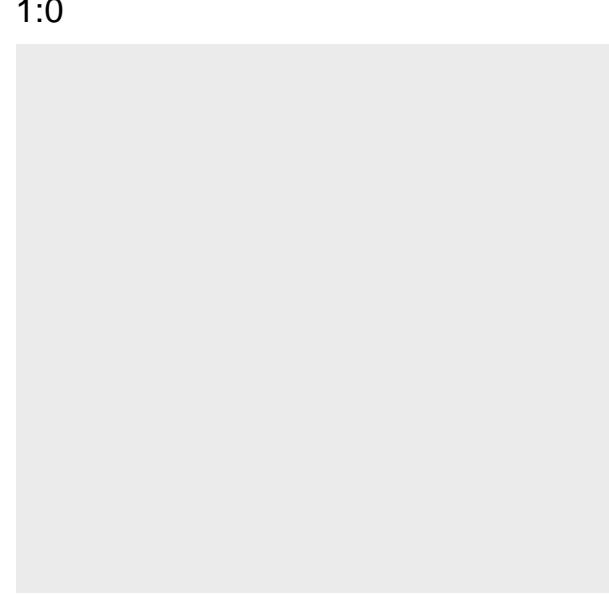
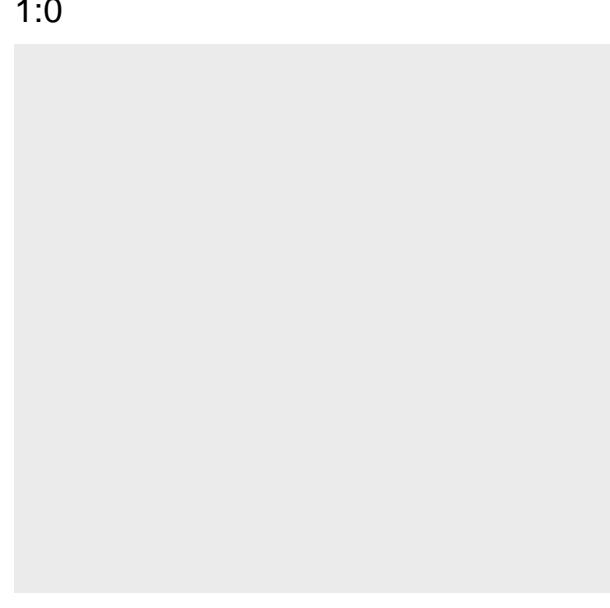
161003_HMFregCPCT_FR10304605_FR12244716_CPCT02140023

ONLY SNVs (min 150 – max 50000)



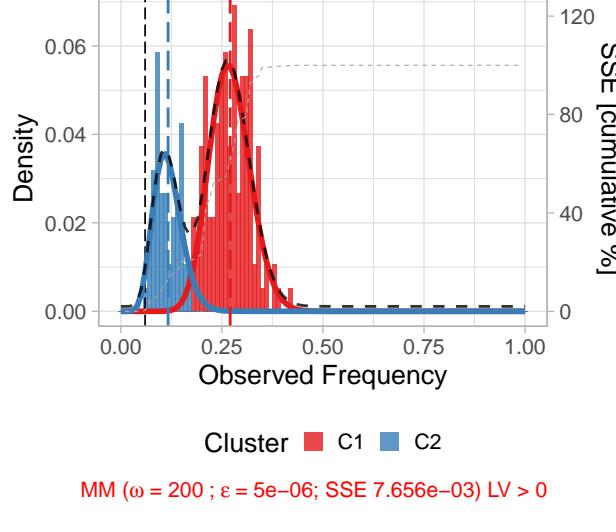
161003_HMFregCPCT_FR12244562_FR12251647_CPCT02030246

ONLY SNVs (min 150 – max 50000)



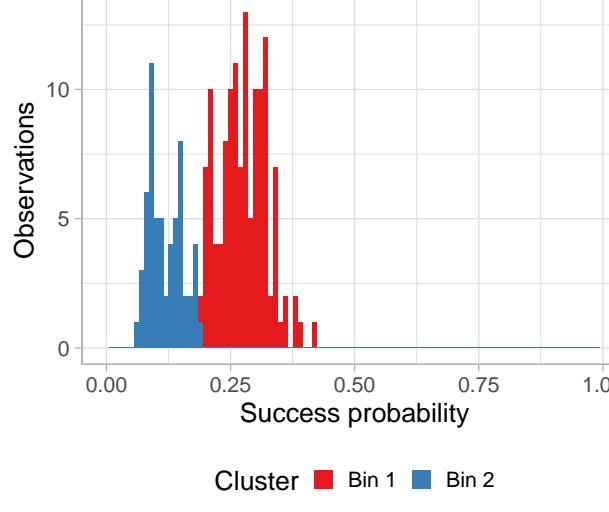
Karyotype: 1:1

N = 188; Tail 0%, C2 30.15%, C1 69.85%



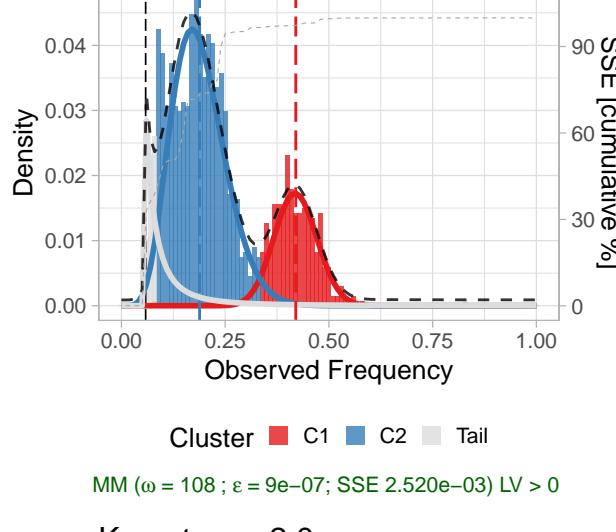
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



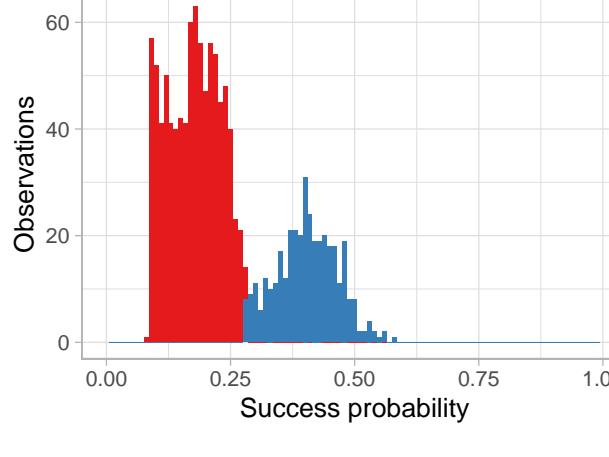
Karyotype: 2:1

N = 1341; Tail 10.58%, C1 22.26%, C2 67.16%



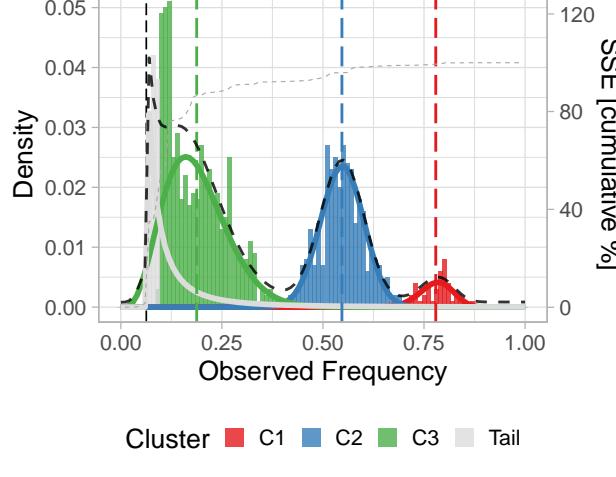
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



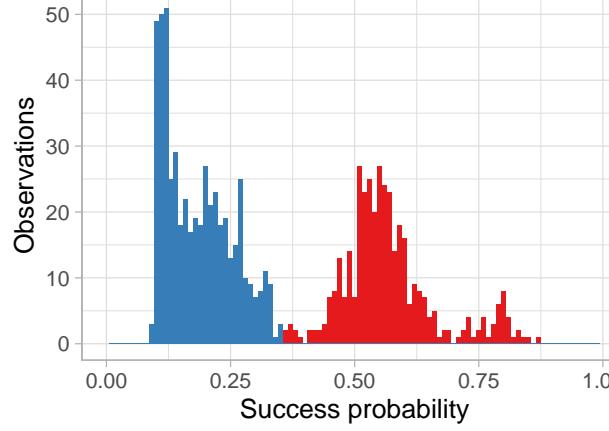
Karyotype: 2:0

N = 999; C1 4.22%, Tail 16.85%, C2 31.71%, C3 48.93%



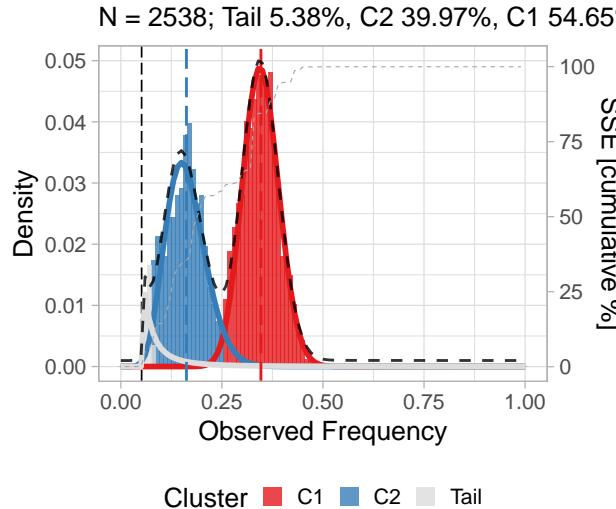
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



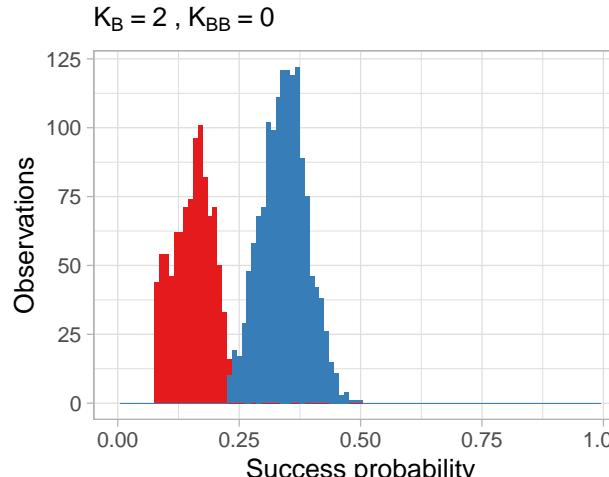
Karyotype: 2:2

N = 2538; Tail 5.38%, C2 39.97%, C1 54.65%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

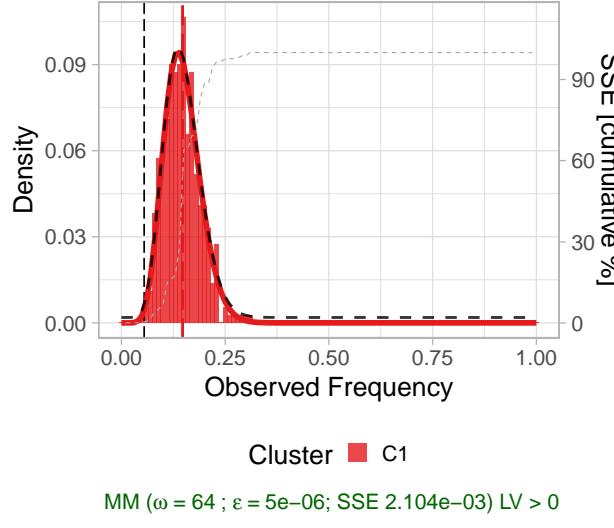


161003_HMFregCPCT_FR12251954_FR12244720_CPCT02040038

ONLY SNVs (min 150 – max 50000)

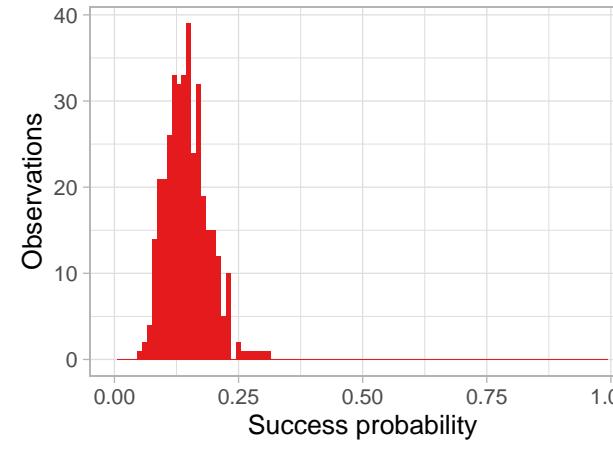
Karyotype: 1:0

N = 366; Tail 0%, C1 100%



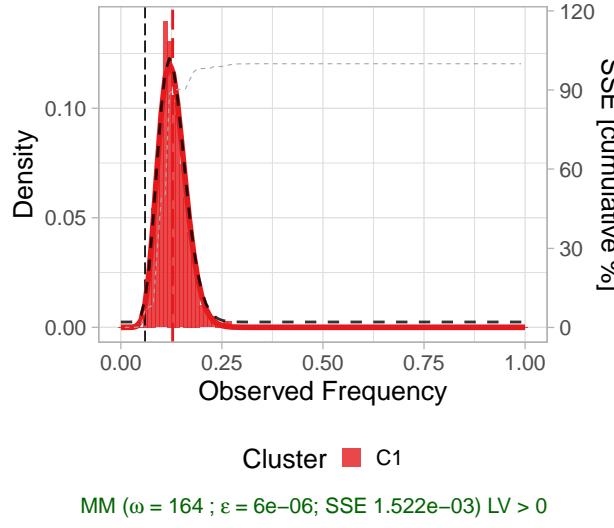
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



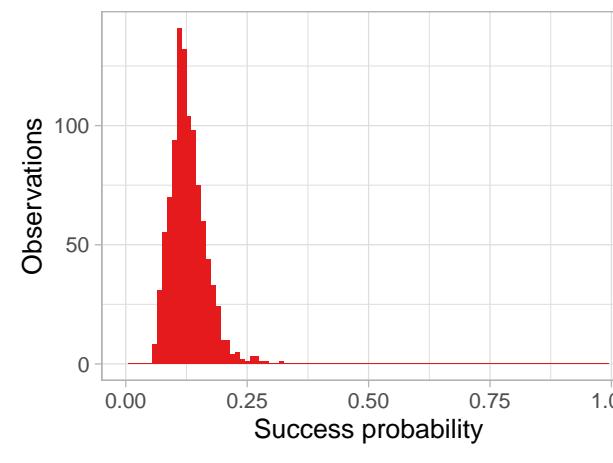
Karyotype: 1:1

N = 1010; Tail 0%, C1 100%



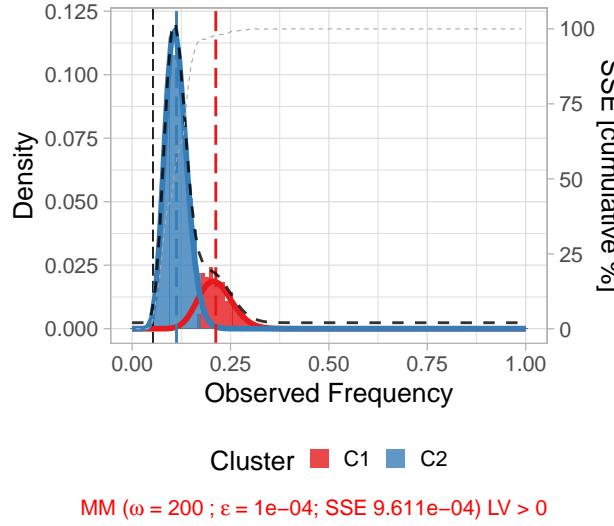
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



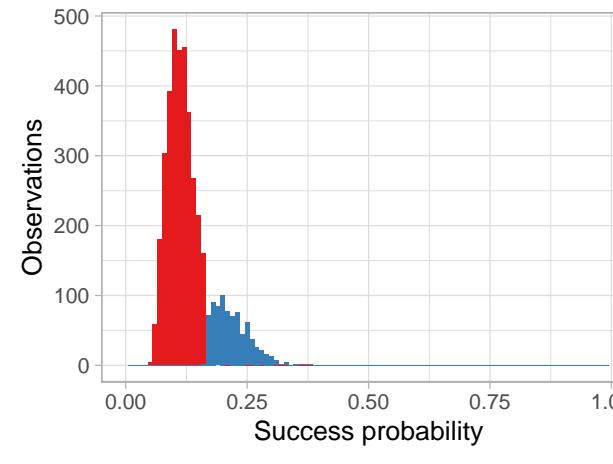
Karyotype: 2:1

N = 4190; Tail 0%, C1 19.79%, C2 80.21%



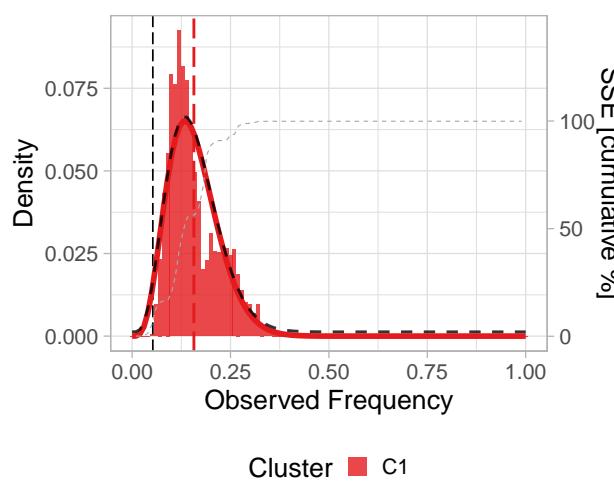
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



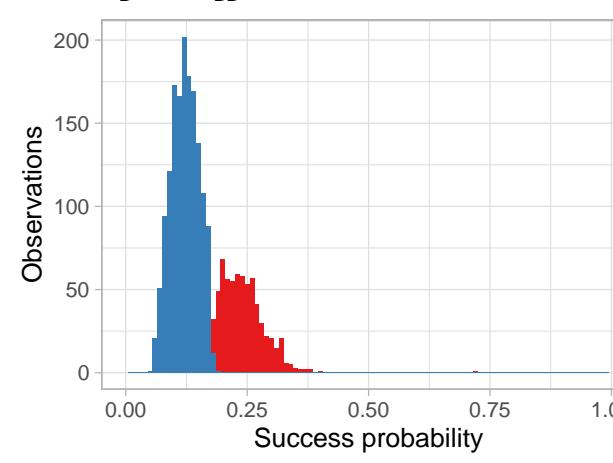
Karyotype: 2:0

N = 2183; Tail 0%, C1 100%



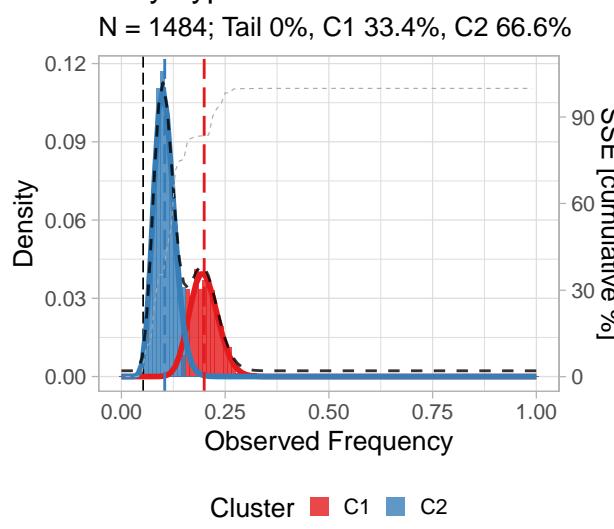
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



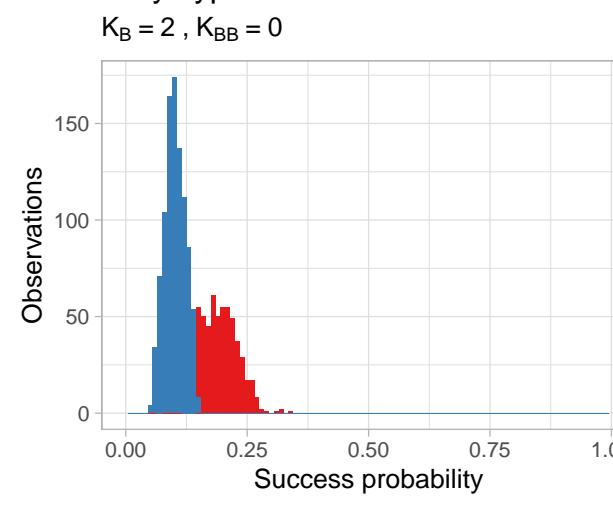
Karyotype: 2:2

N = 1484; Tail 0%, C1 33.4%, C2 66.6%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

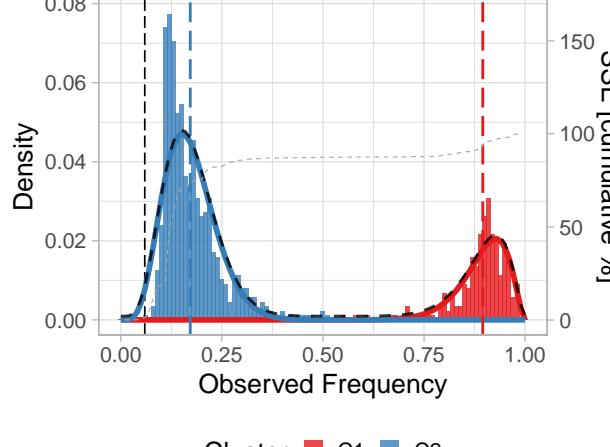


161004_HMFregCPCT_FR12254625_FR12251588_CPCT02030250

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

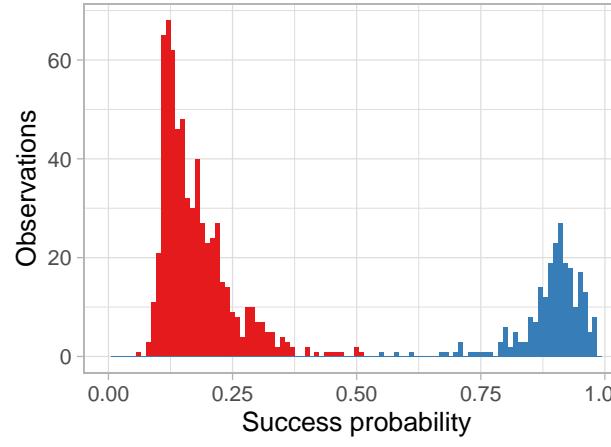
N = 879; Tail 0%, C1 27.16%, C2 72.84%



MM ($\omega = 73$; $\varepsilon = 3e-05$; SSE 4.980e-03) LV > 0

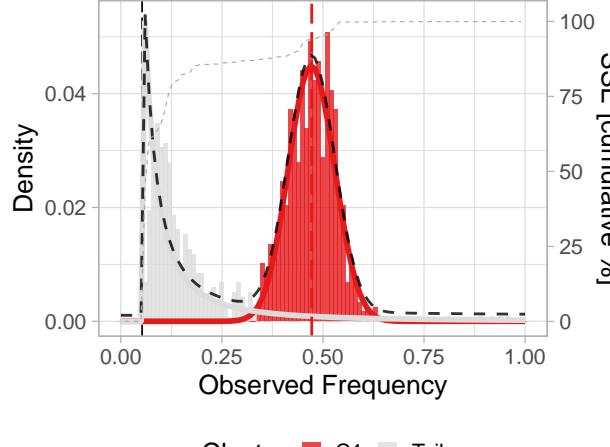
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

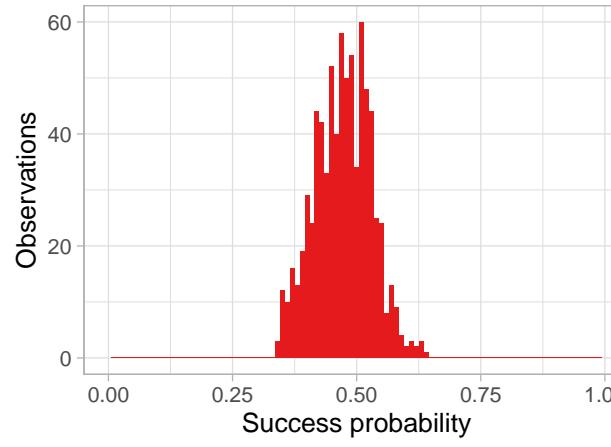
N = 1180; Tail 36.38%, C1 63.62%



MM ($\omega = 16$; $\varepsilon = 5e-07$; SSE 5.181e-03) LV > 0

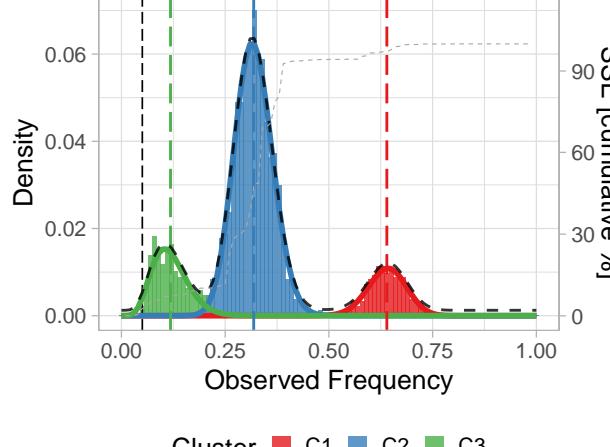
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

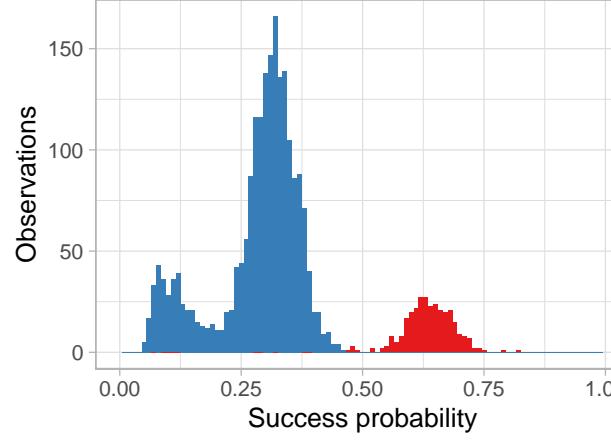
N = 2367; Tail 0%, C1 12.54%, C3 15.81%, C:



MM ($\omega = 95$; $\varepsilon = 4e-05$; SSE 7.828e-04) LV > 0

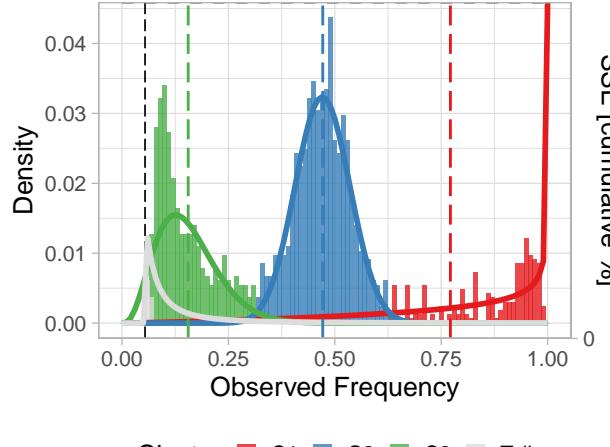
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

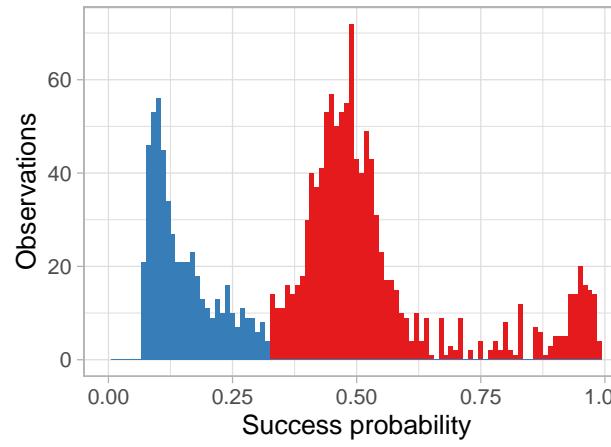
N = 1646; Tail 6.48%, C1 15.43%, C3 26.31%



MM ($\omega = 200$; $\varepsilon = 8e-02$; SSE 2.356e-03) LV > 0

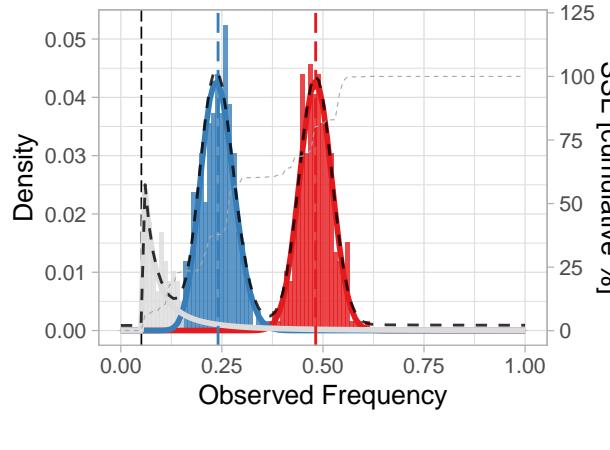
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

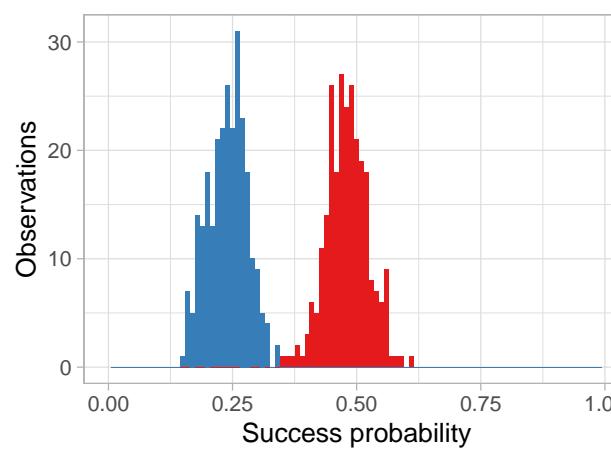
N = 591; Tail 13.99%, C1 42.67%, C2 43.34%



MM ($\omega = 42$; $\varepsilon = 2e-06$; SSE 1.848e-03) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

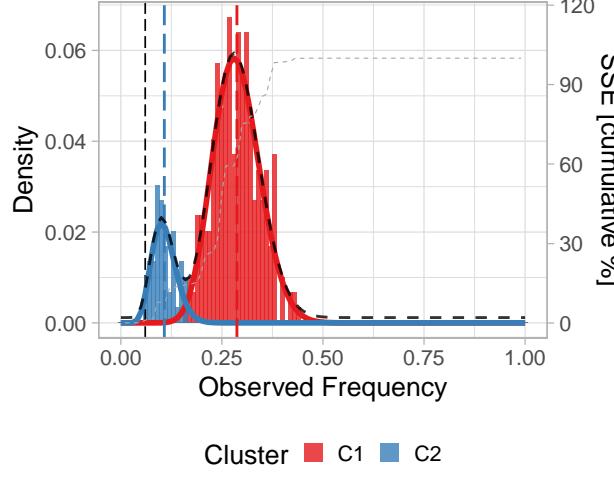


161007_HMFregCPCT_FR10304607_FR12244721_CPCT02040039

ONLY SNVs (min 150 – max 50000)

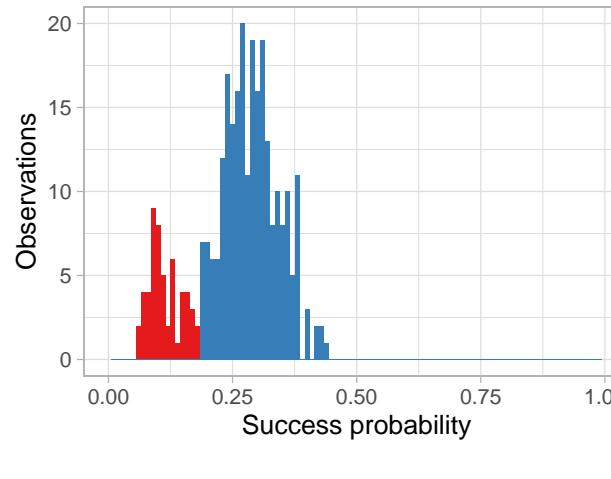
Karyotype: 1:0

N = 297; Tail 0%, C2 16.07%, C1 83.93%



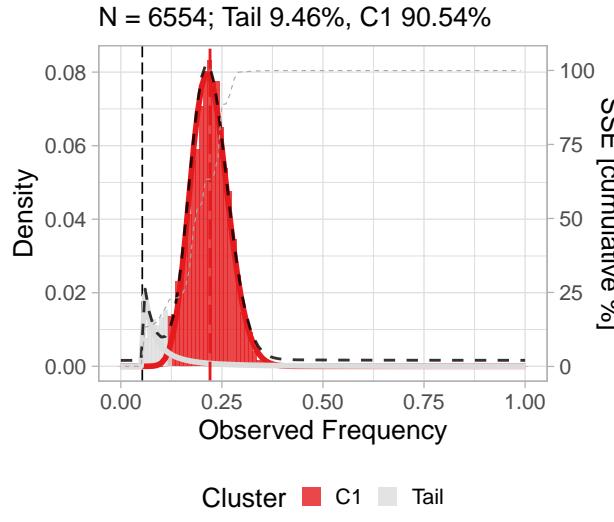
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



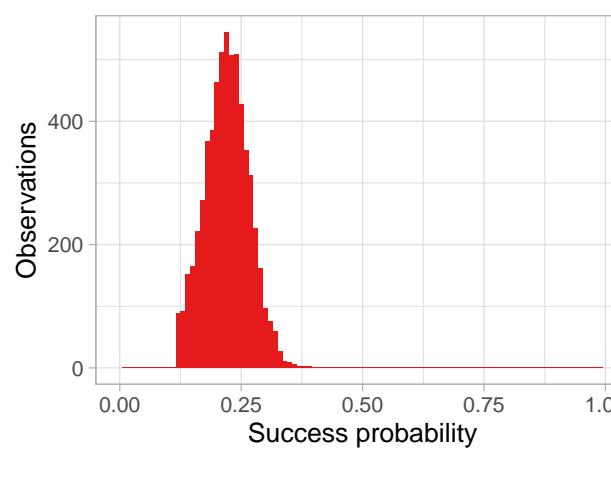
Karyotype: 1:1

N = 6554; Tail 9.46%, C1 90.54%



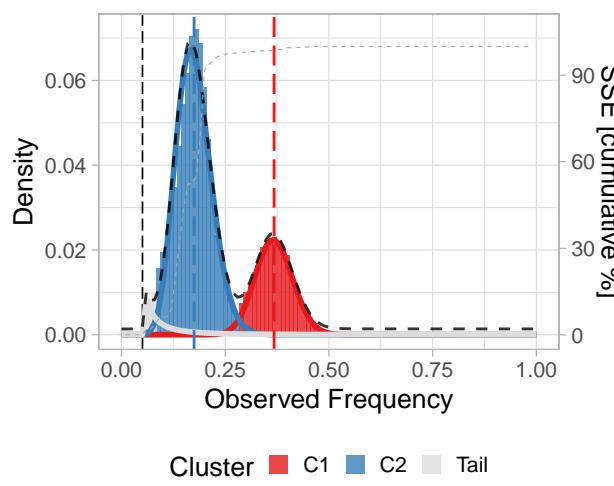
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



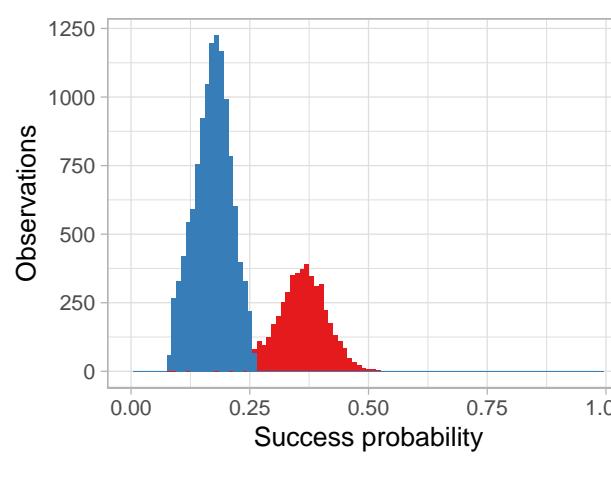
Karyotype: 2:1

N = 16975; Tail 4.37%, C1 25.24%, C2 70.39%



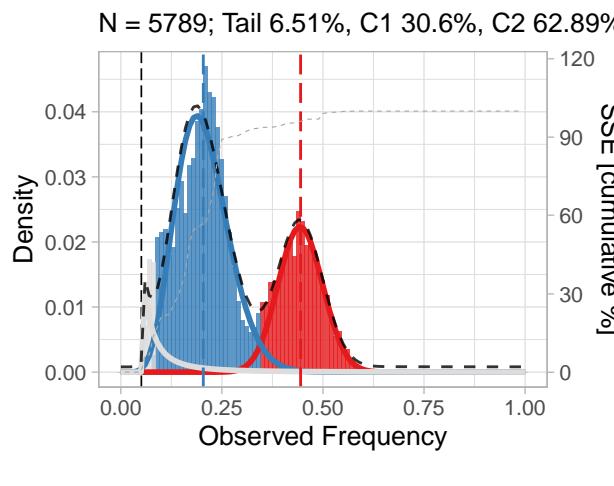
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



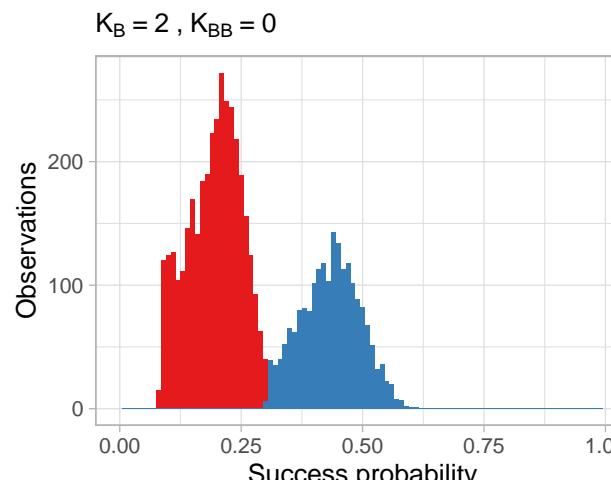
Karyotype: 2:0

N = 5789; Tail 6.51%, C1 30.6%, C2 62.89%



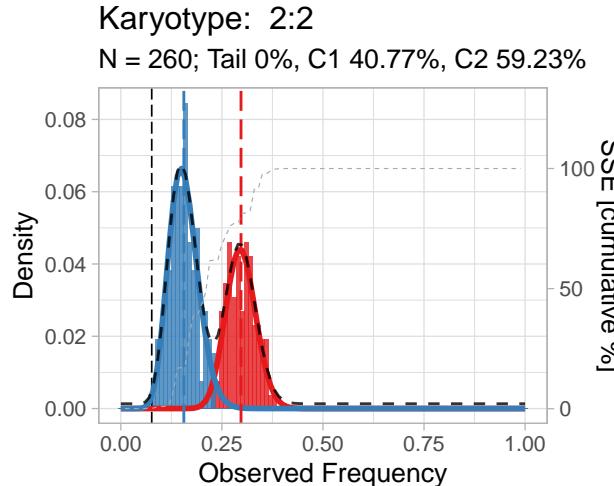
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



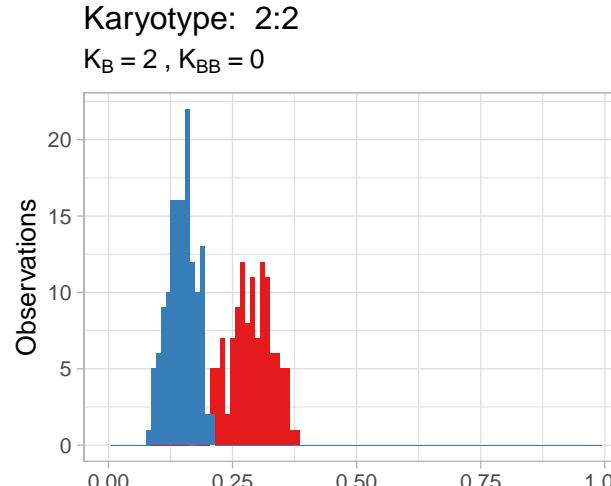
Karyotype: 2:2

N = 260; Tail 0%, C1 40.77%, C2 59.23%



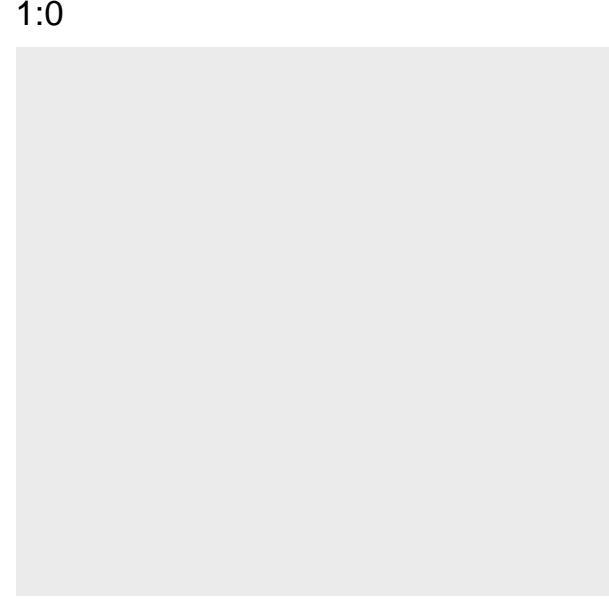
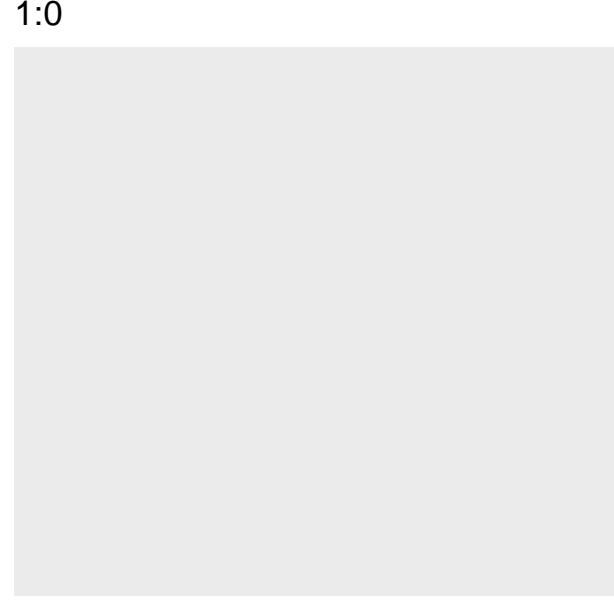
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

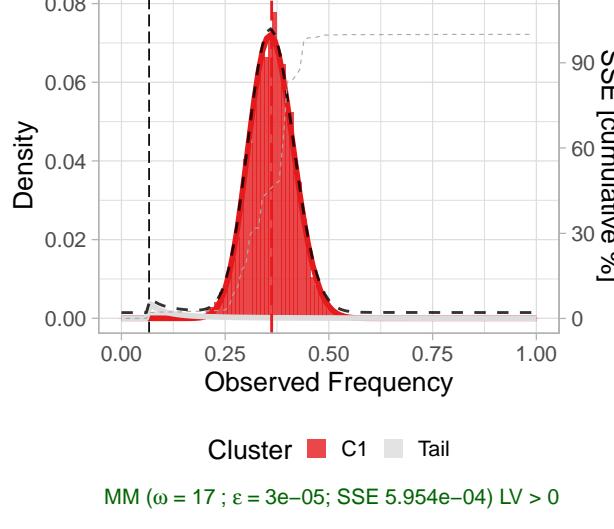


161007_HMFregCPCT_FR12254255_FR12244717_CPCT02090002

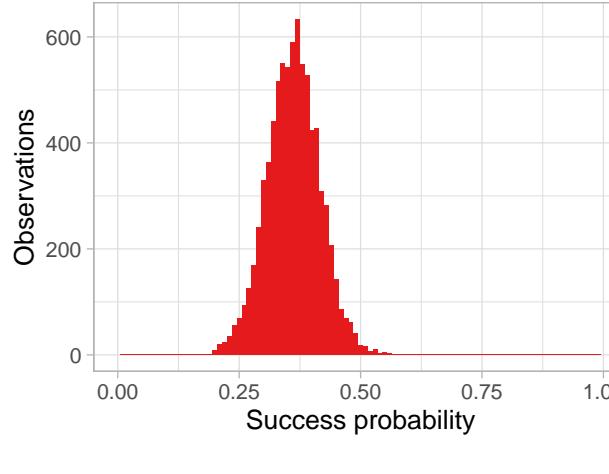
ONLY SNVs (min 150 – max 50000)



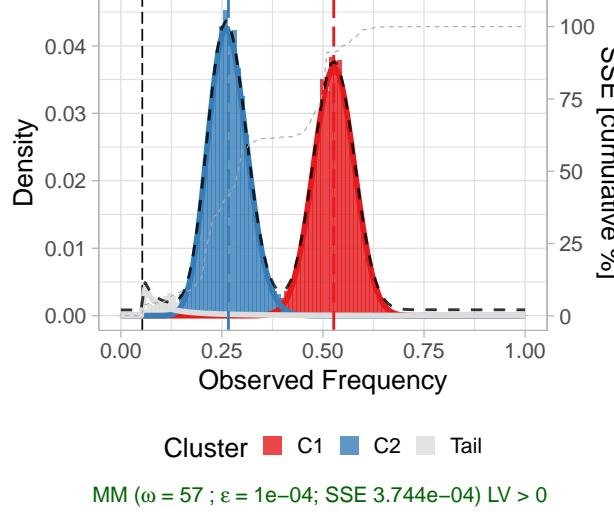
Karyotype: 1:1
N = 8156; Tail 2.69%, C1 97.31%



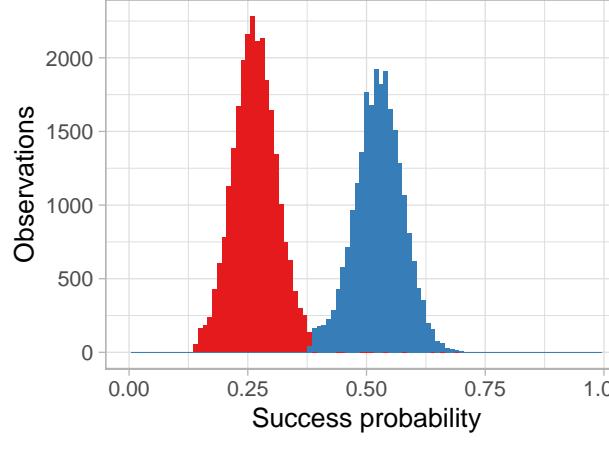
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



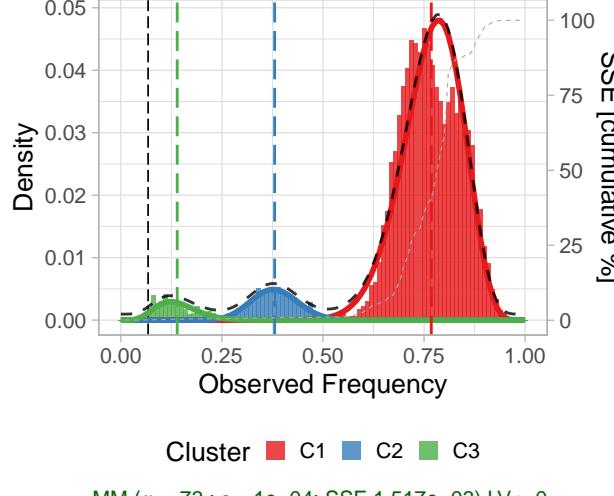
Karyotype: 2:1
N = 50340; Tail 2.81%, C1 46.3%, C2 50.9%



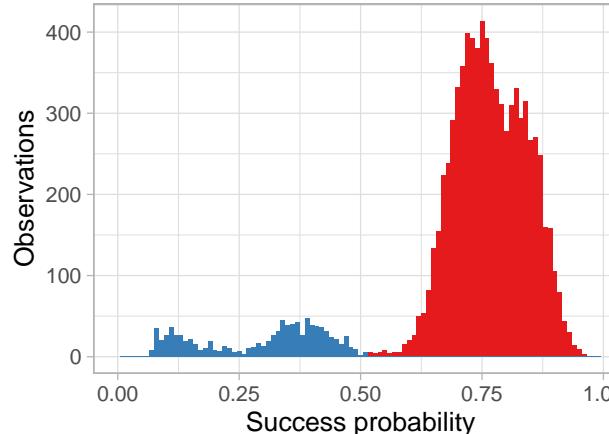
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



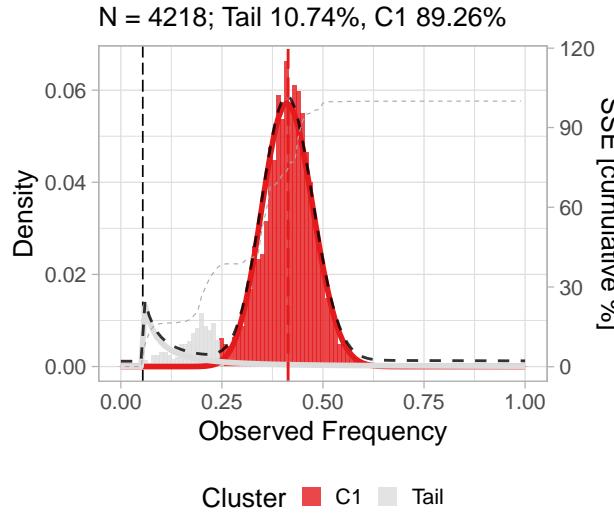
Karyotype: 2:0
N = 8875; Tail 0%, C3 3.62%, C2 7.09%, C1 8



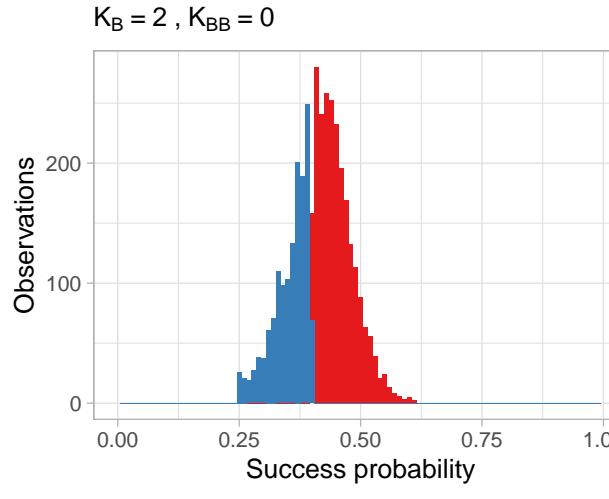
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 4218; Tail 10.74%, C1 89.26%

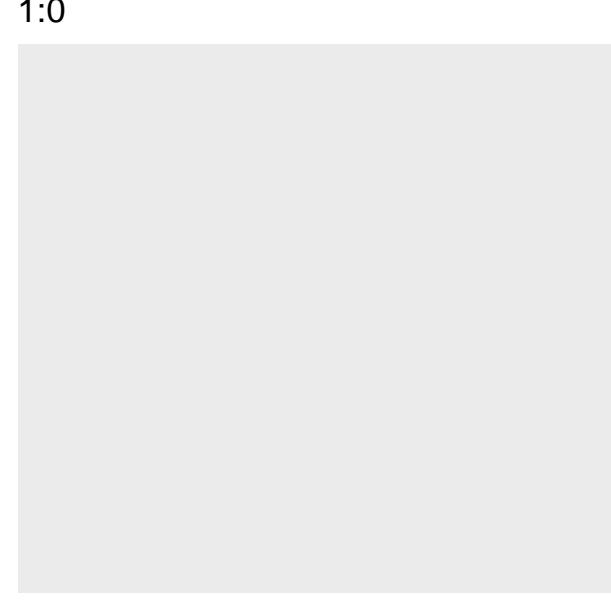
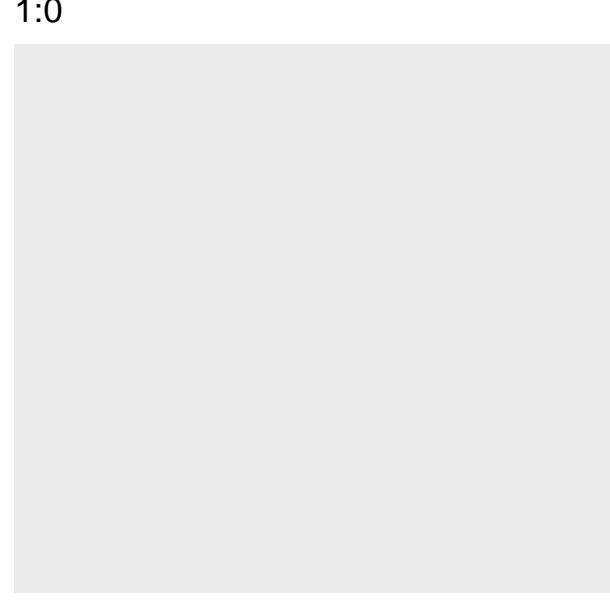


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



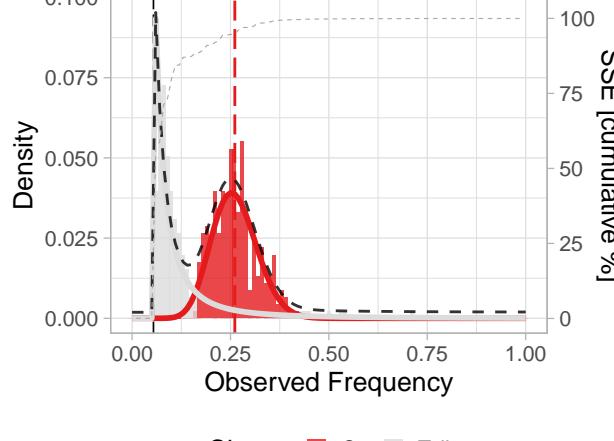
161010_HMFregCPCT_FR10302728_FR12244318_CPCT02010386

ONLY SNVs (min 150 – max 50000)



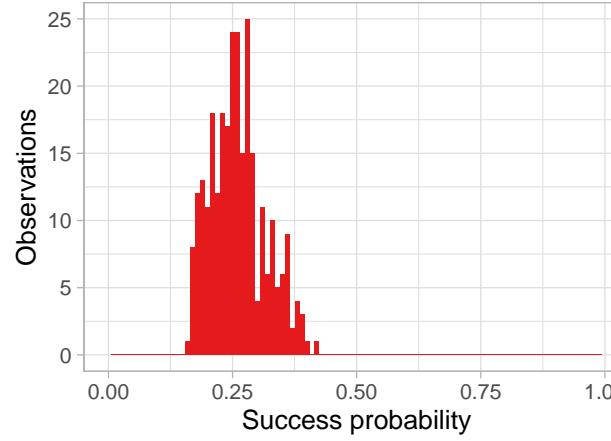
Karyotype: 1:1

N = 454; Tail 44.4%, C1 55.6%



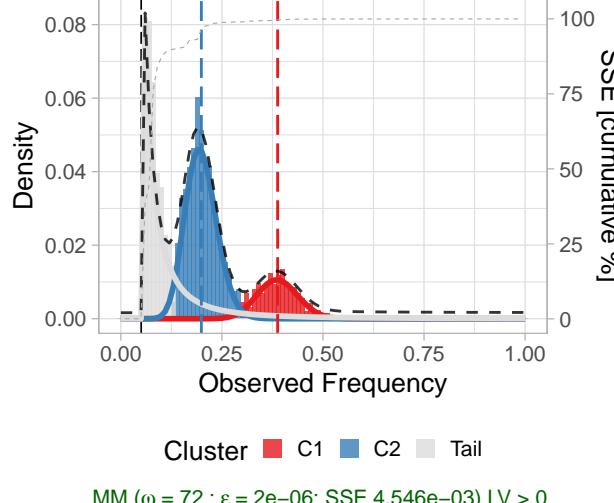
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



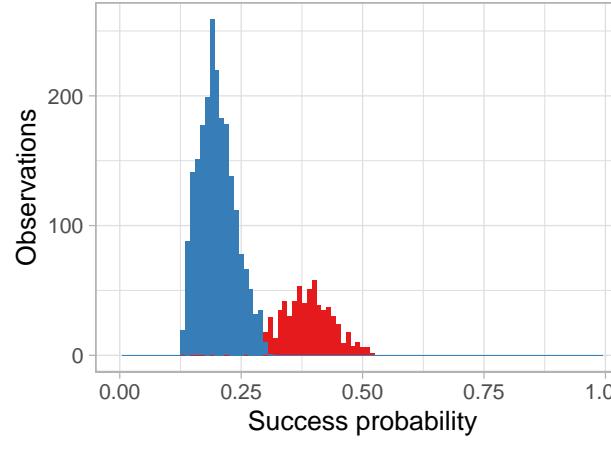
Karyotype: 2:1

N = 4292; C1 13.23%, Tail 42.32%, C2 44.46%



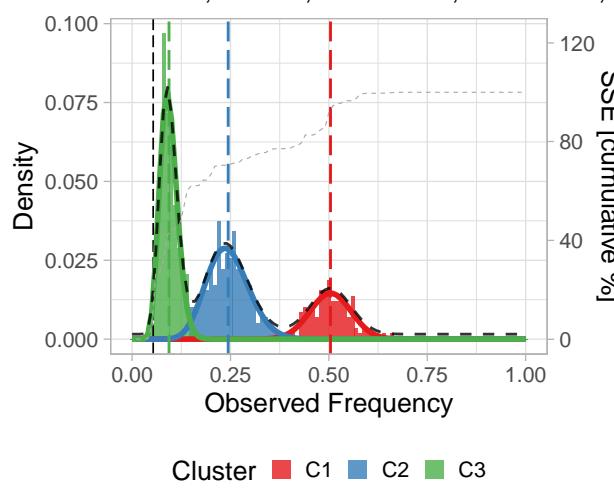
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



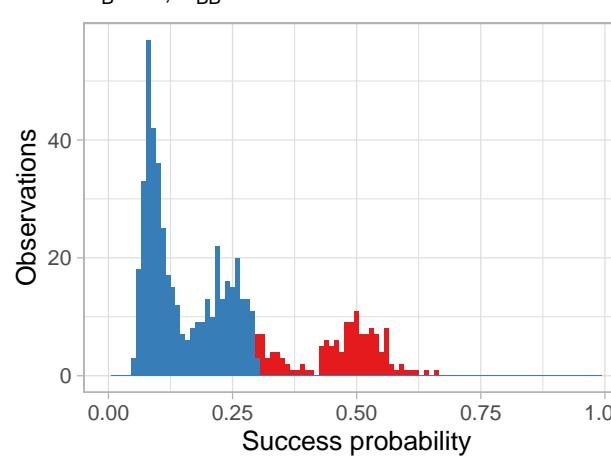
Karyotype: 2:0

N = 588; Tail 0%, C1 18.97%, C2 38.27%, C3 42.76%



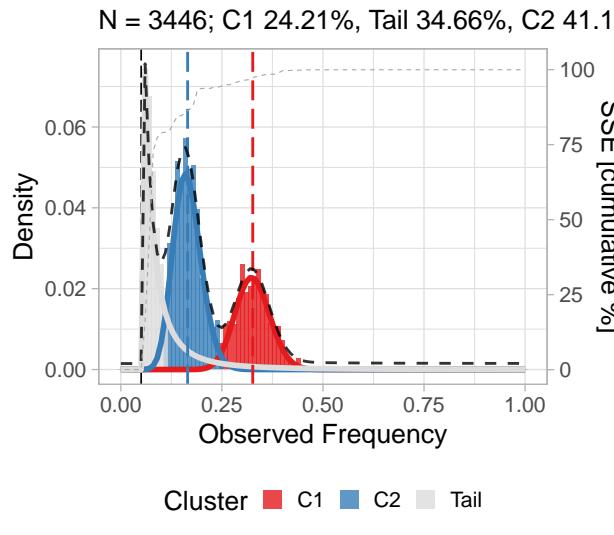
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



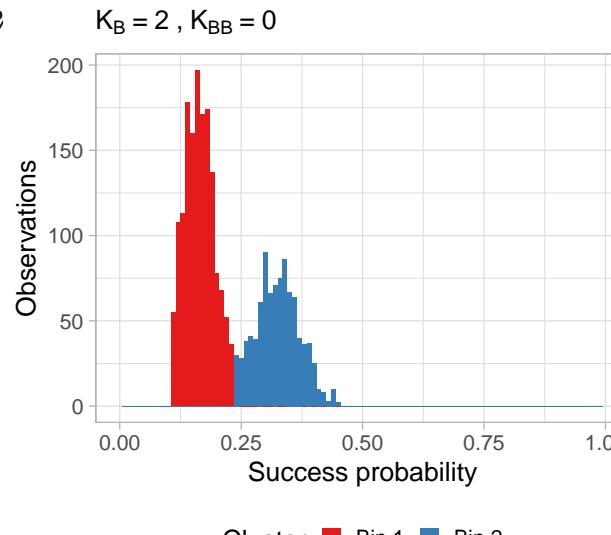
Karyotype: 2:2

N = 3446; C1 24.21%, Tail 34.66%, C2 41.13%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

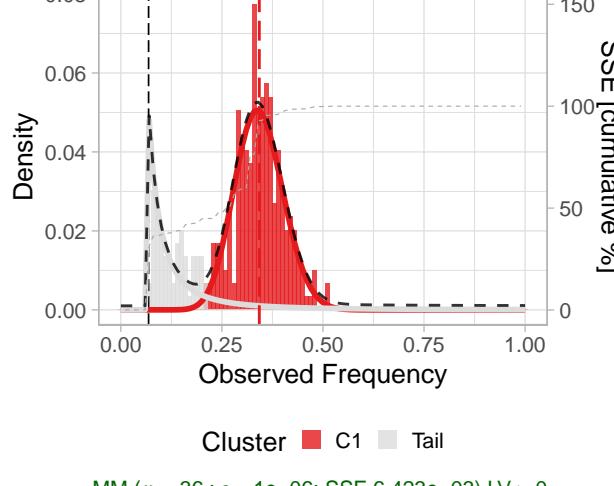


161010_HMFregCPCT_FR10302785_FR12244326_CPCT02010409

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

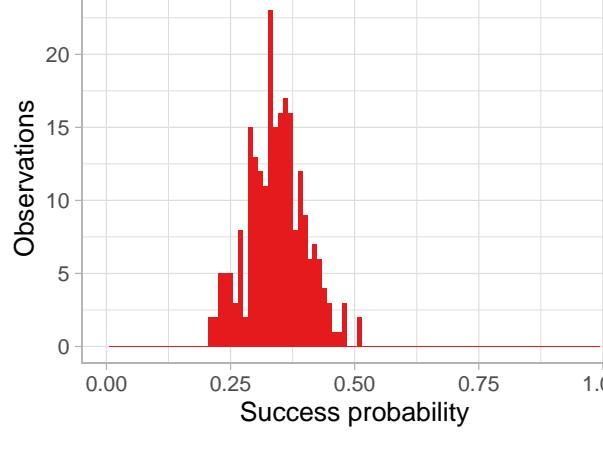
N = 297; Tail 24.24%, C1 75.76%



MM ($\omega = 36$; $\epsilon = 1e-06$; SSE $6.423e-03$) LV > 0

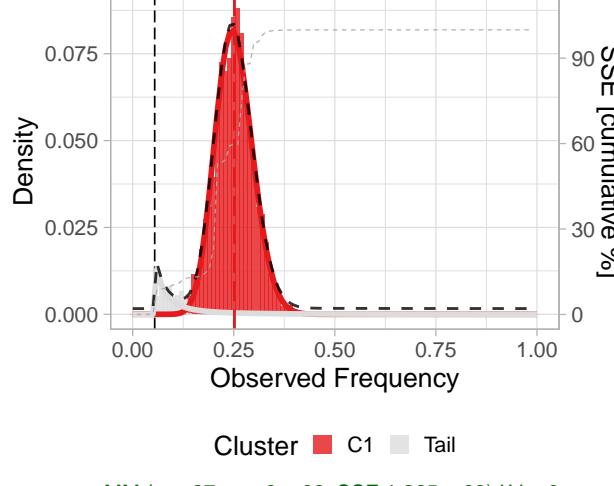
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

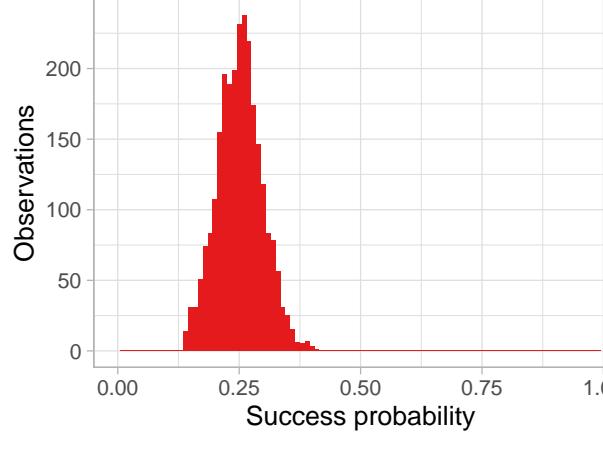
N = 2704; Tail 6.24%, C1 93.76%



MM ($\omega = 27$; $\epsilon = 9e-06$; SSE $1.265e-03$) LV > 0

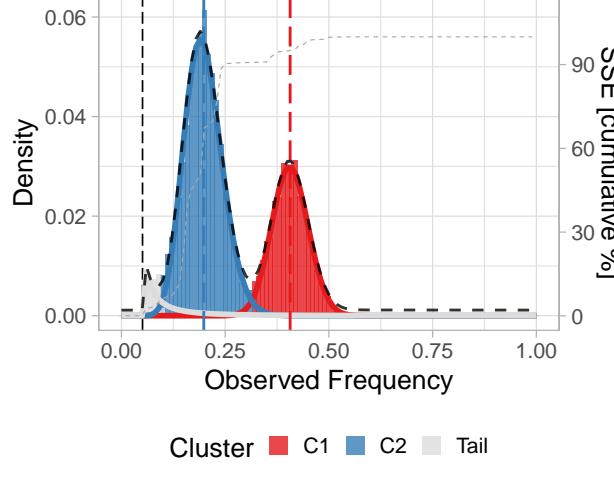
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

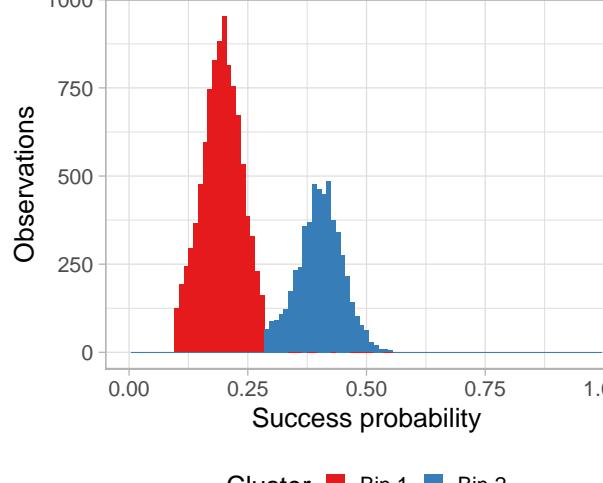
N = 15514; Tail 4.7%, C1 32.79%, C2 62.52%



MM ($\omega = 63$; $\epsilon = 6e-05$; SSE $7.132e-04$) LV > 0

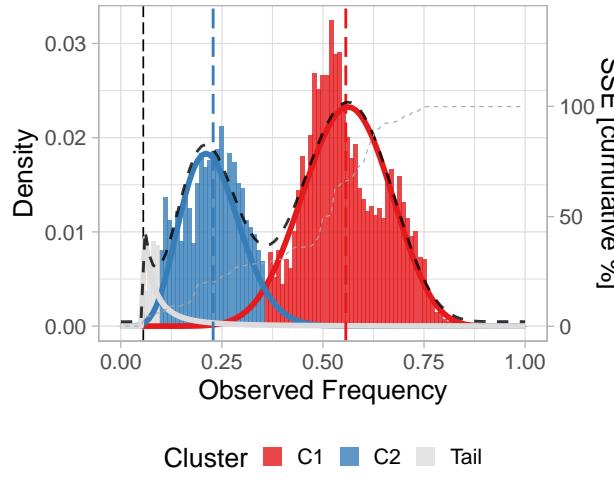
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

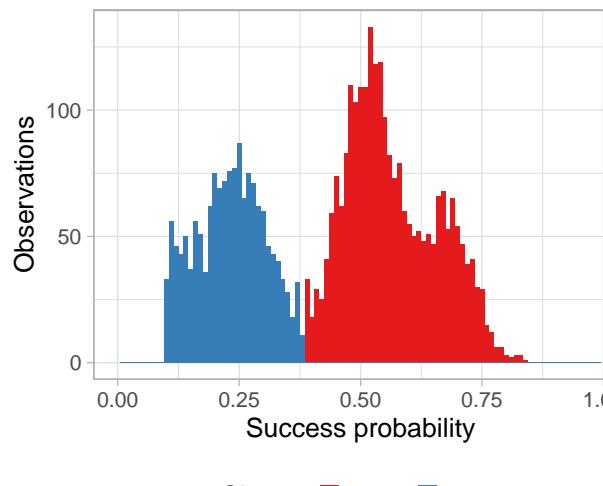
N = 4098; Tail 4.21%, C2 33.2%, C1 62.58%



MM ($\omega = 200$; $\epsilon = 2e-02$; SSE $1.558e-03$) LV > 0

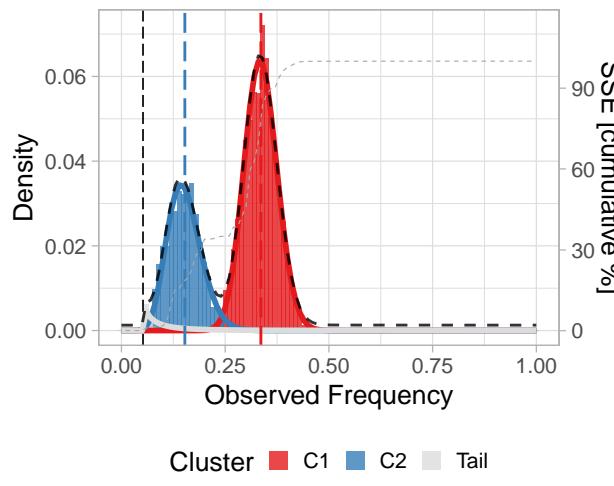
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

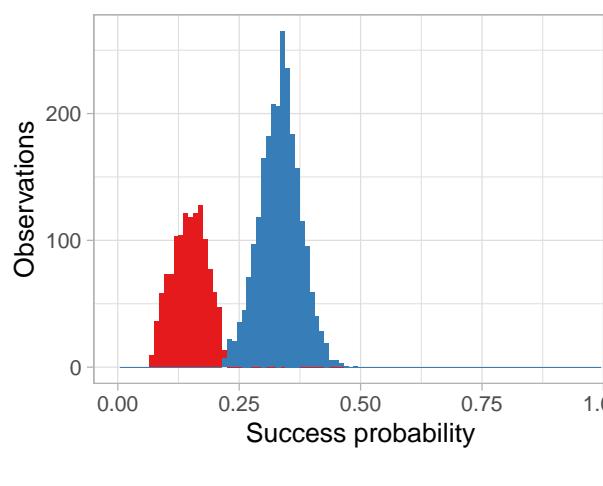
N = 3670; Tail 2.34%, C2 34.4%, C1 63.26%



MM ($\omega = 88$; $\epsilon = 7e-06$; SSE $7.623e-04$) LV > 0

Karyotype: 2:2

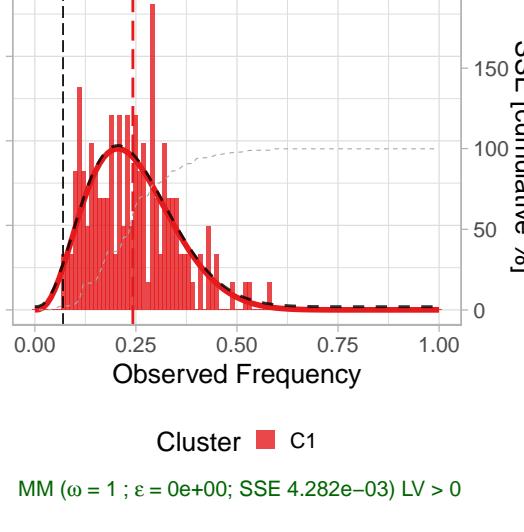
$K_B = 2$, $K_{BB} = 0$



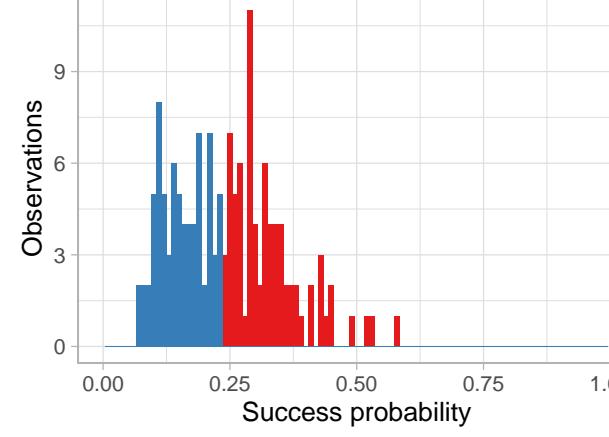
161010_HMFregCPCT_FR10304599_FR12244723_CPCT02190001

ONLY SNVs (min 150 – max 50000)

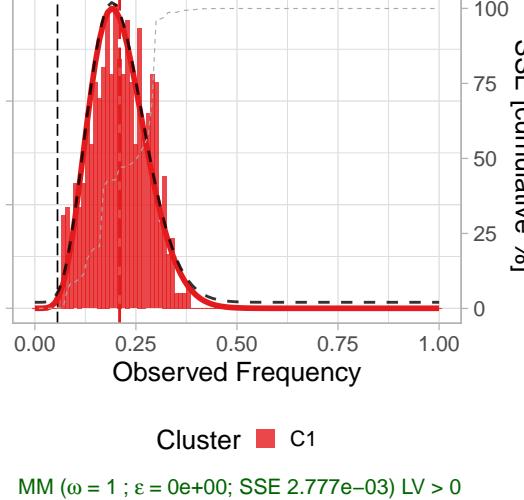
Karyotype: 1:0
N = 152; Tail 0%, C1 100%



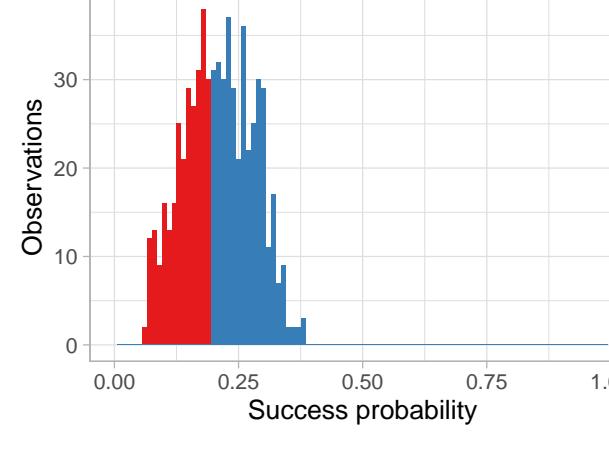
Karyotype: 1:0
 $K_B = 2$, $K_{BB} = 0$



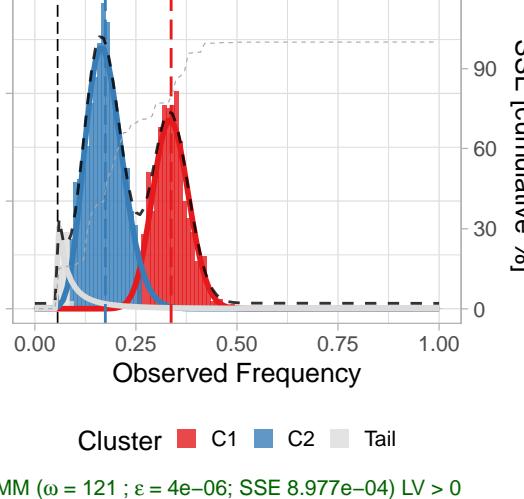
Karyotype: 1:1
N = 665; Tail 0%, C1 100%



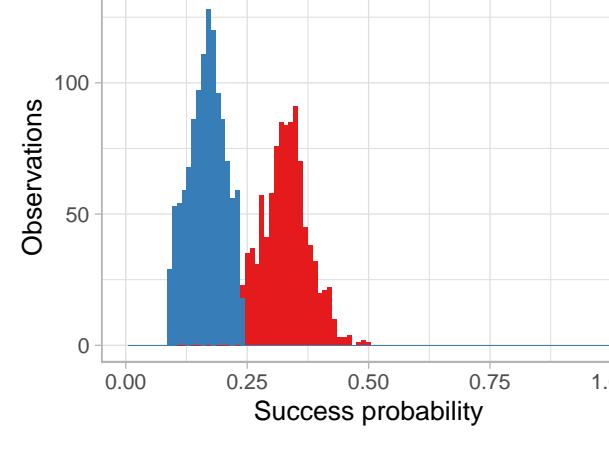
Karyotype: 1:1
 $K_B = 2$, $K_{BB} = 0$



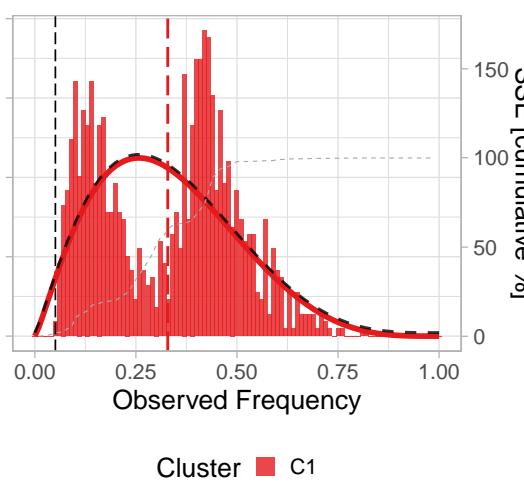
Karyotype: 2:1
N = 2253; Tail 6.14%, C1 38.67%, C2 55.19%



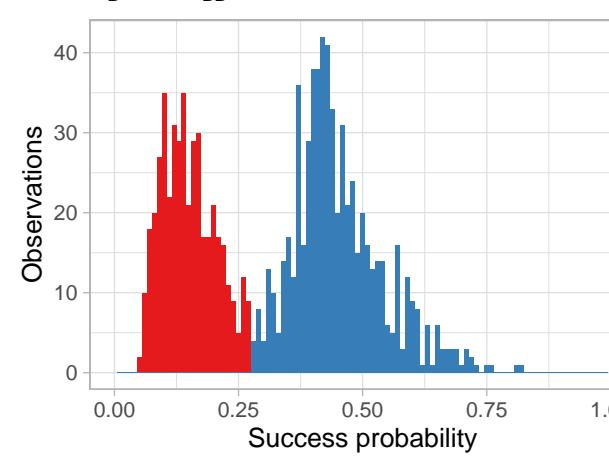
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



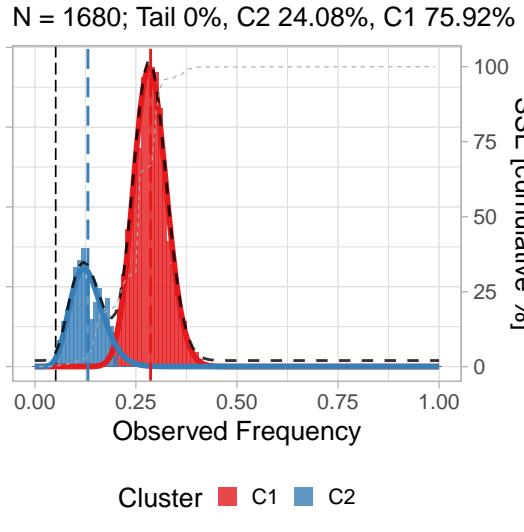
Karyotype: 2:0
N = 1090; Tail 0%, C1 100%



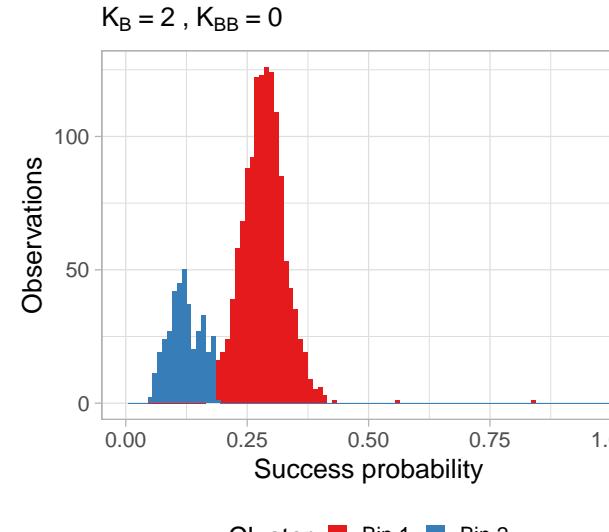
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 1680; Tail 0%, C2 24.08%, C1 75.92%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

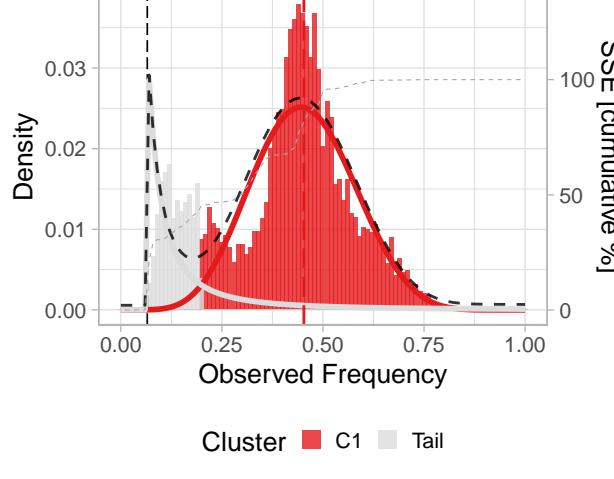


161010_HMFregCPCT_FR10304601_FR12244715_CPCT02140022

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

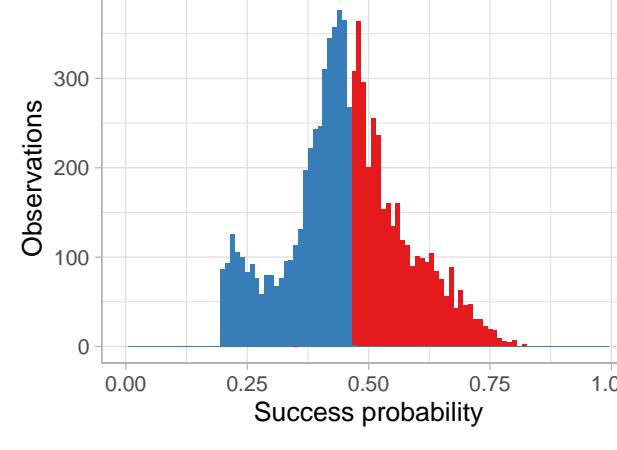
N = 9912; Tail 19.12%, C1 80.88%



MM ($\omega = 77$; $\epsilon = 6e-05$; SSE $3.487e-03$) LV > 0

Karyotype: 1:0

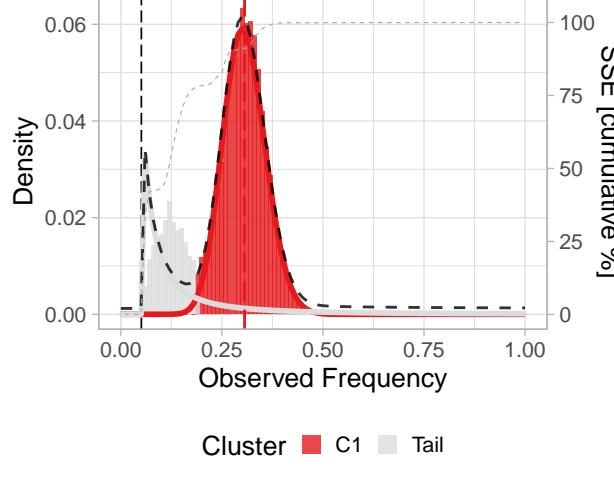
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 1:1

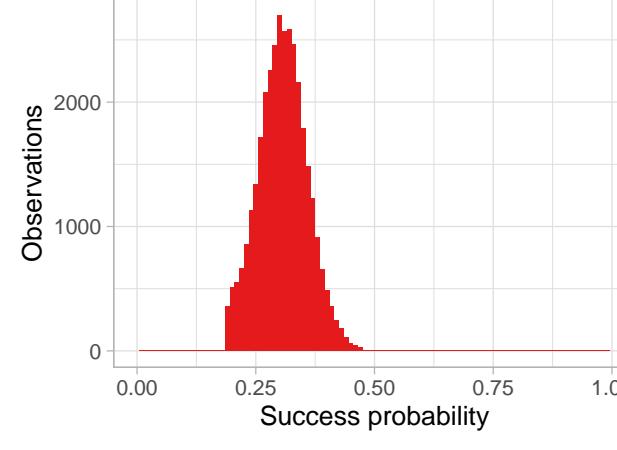
N = 42695; Tail 23.04%, C1 76.96%



MM ($\omega = 32$; $\epsilon = 3e-04$; SSE $2.846e-03$) LV > 0

Karyotype: 1:1

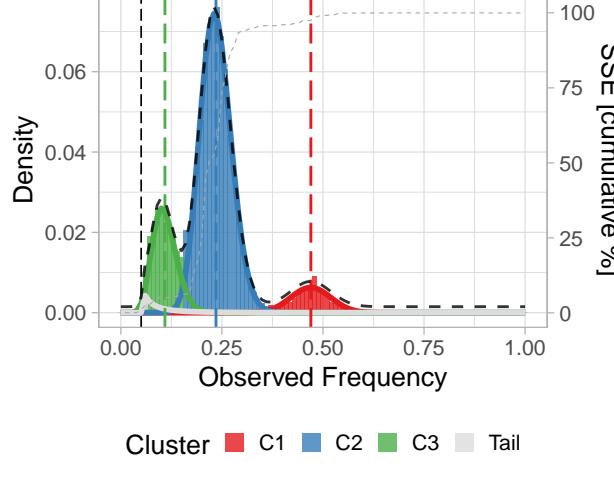
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 2:1

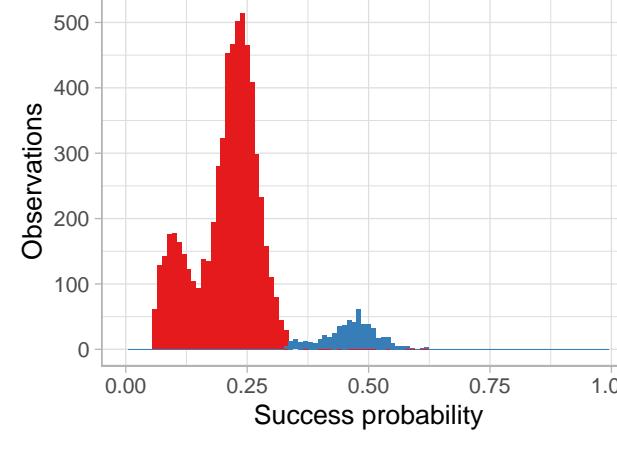
N = 6754; Tail 2.17%, C1 7.71%, C3 18.83%,



MM ($\omega = 171$; $\epsilon = 1e-05$; SSE $4.881e-04$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

2:0

2:0

2:2

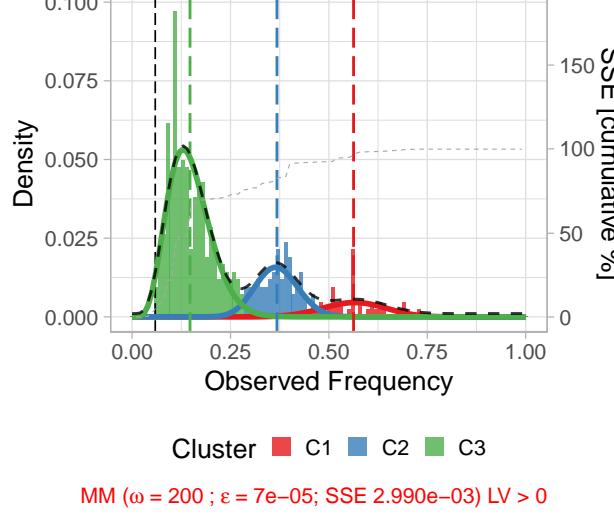
2:2

161010_HMFregCPCT_FR10304610_FR12244325_CPCT02010403

ONLY SNVs (min 150 – max 50000)

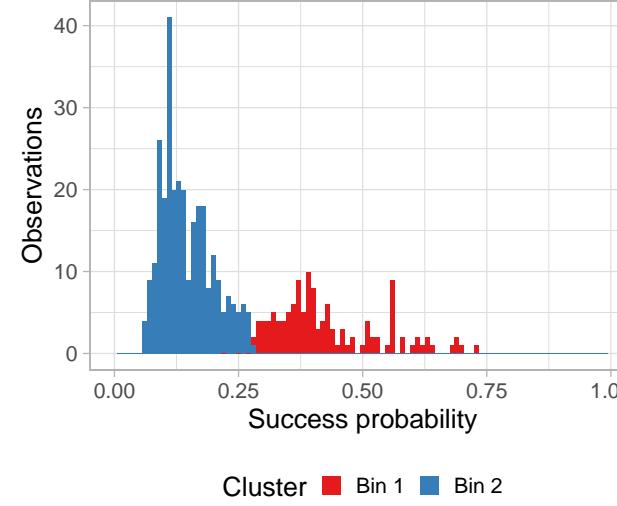
Karyotype: 1:0

N = 422; Tail 0%, C1 9.09%, C2 21.29%, C3



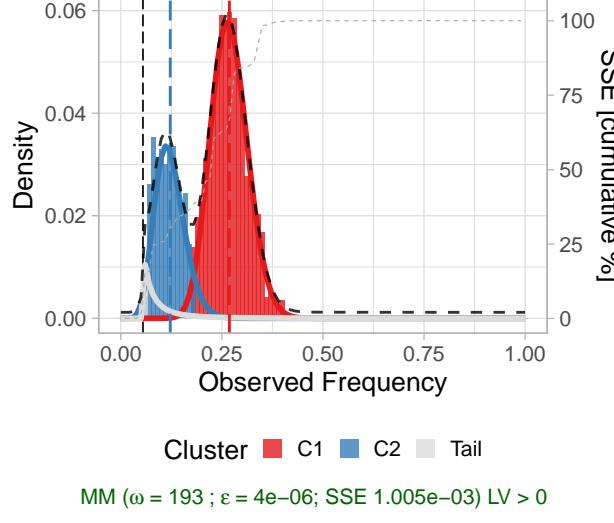
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



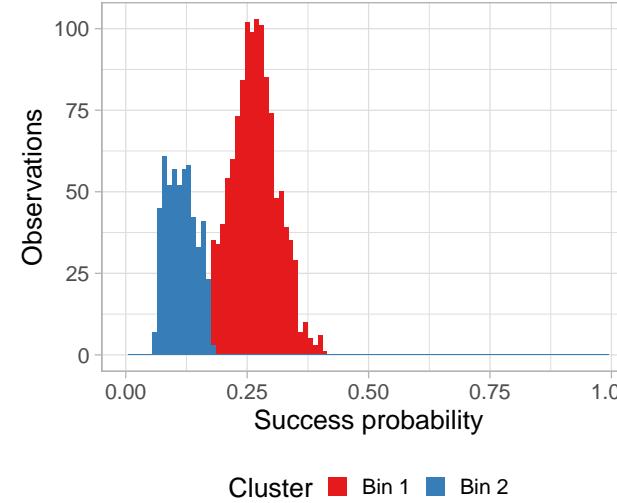
Karyotype: 1:1

N = 1727; Tail 3.99%, C2 29.85%, C1 66.17%



Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



2:1

2:1

2:0

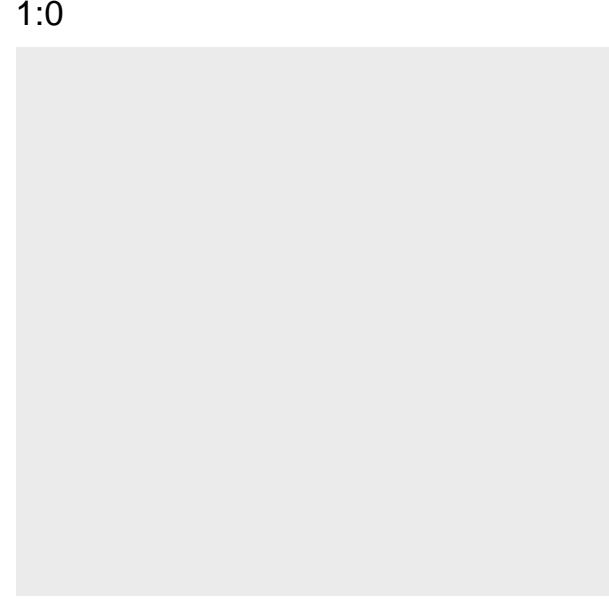
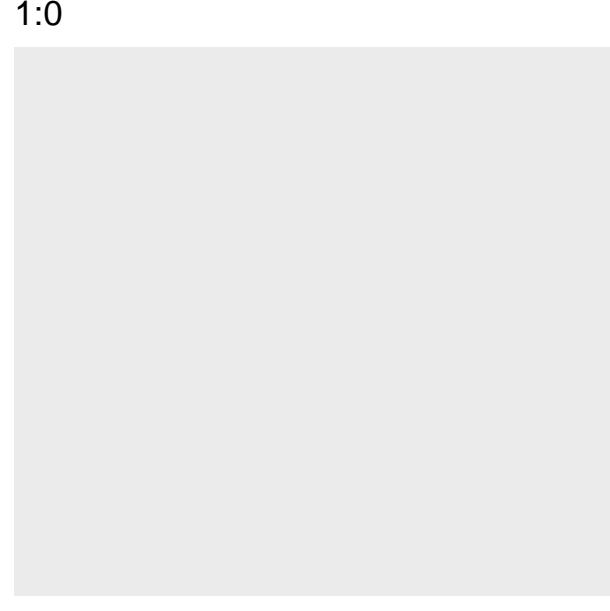
2:0

2:2

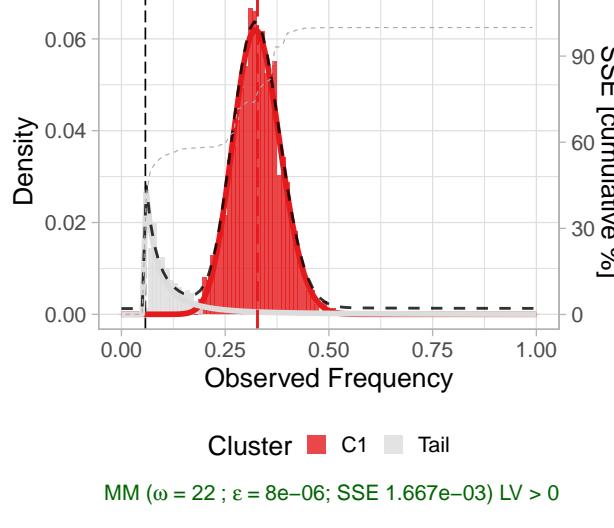
2:2

161010_HMFregCPCT_FR10304612_FR12244722_CPCT02040040

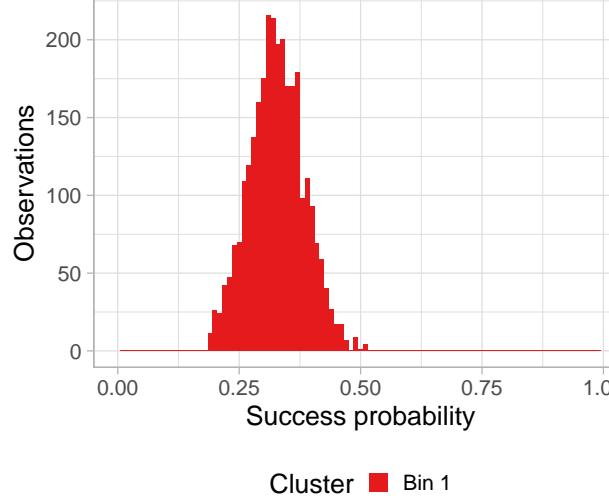
ONLY SNVs (min 150 – max 50000)



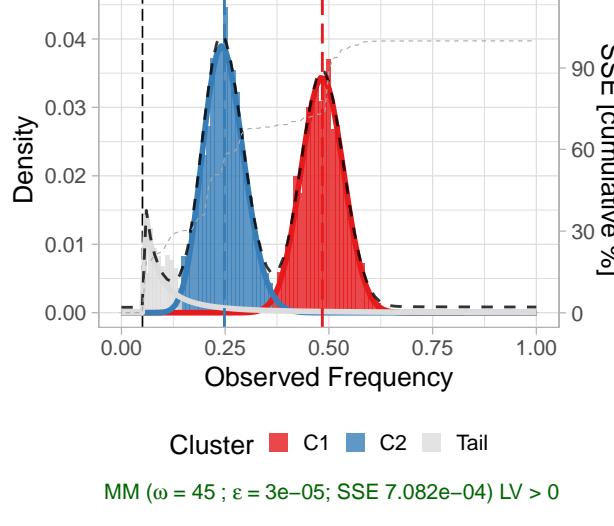
Karyotype: 1:1
N = 3242; Tail 12.65%, C1 87.35%



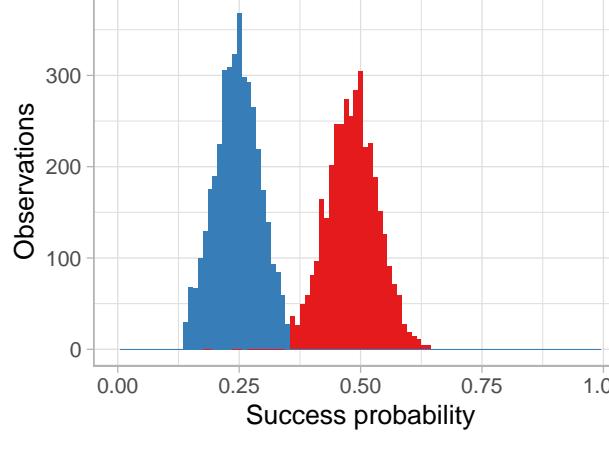
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



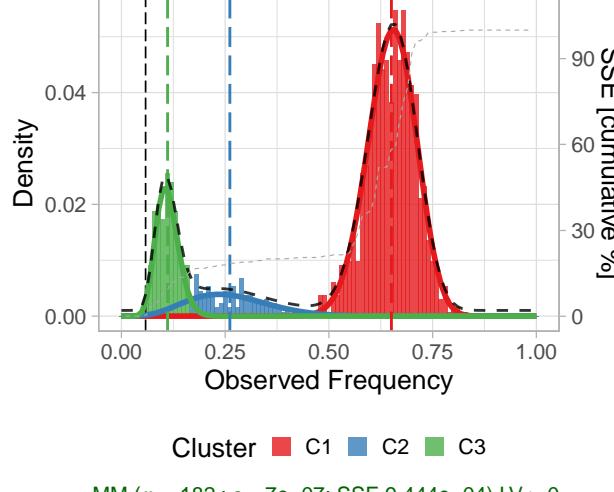
Karyotype: 2:1
N = 8236; Tail 9.13%, C1 43.68%, C2 47.19%



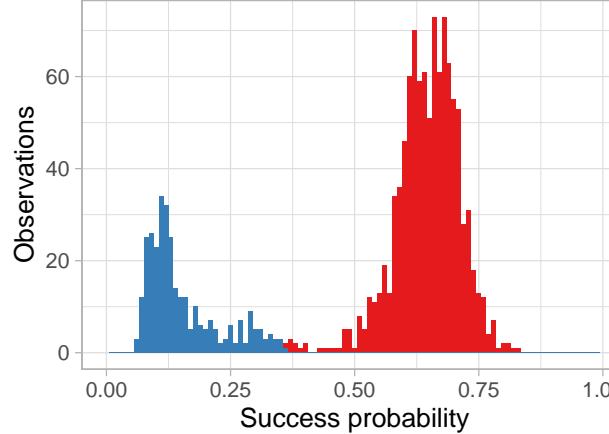
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



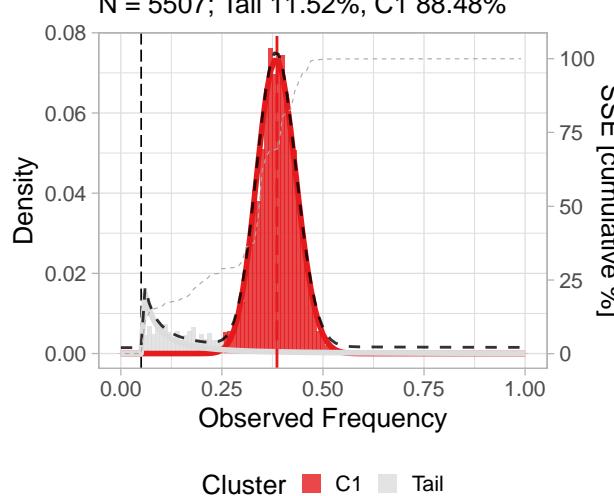
Karyotype: 2:0
N = 1334; Tail 0%, C2 9.32%, C3 15.39%, C1



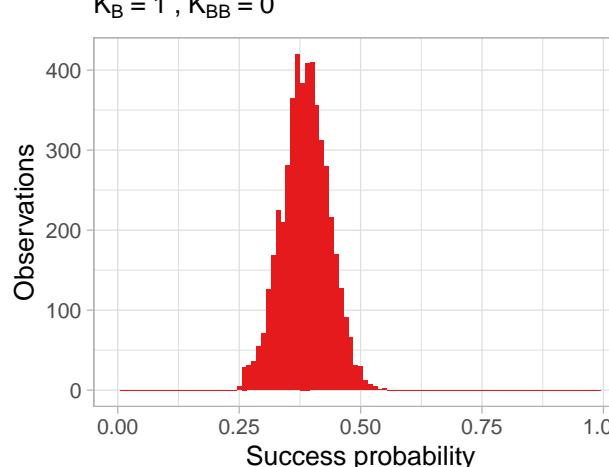
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 5507; Tail 11.52%, C1 88.48%

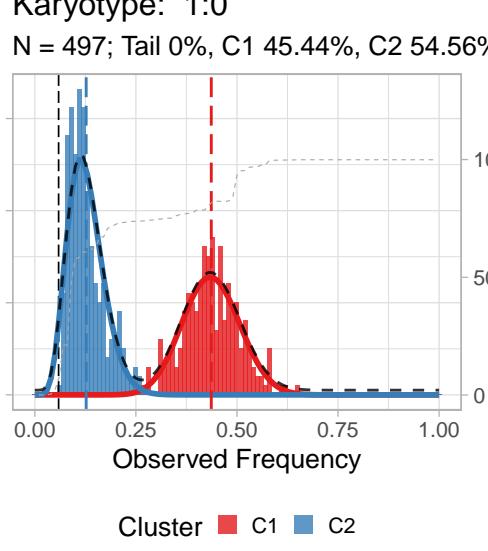


Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

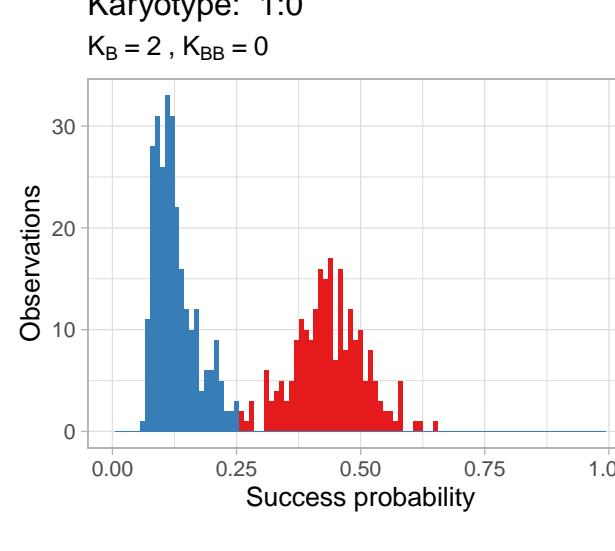


161010_HMFregCPCT_FR12244708_FR12244328_CPCT02080036

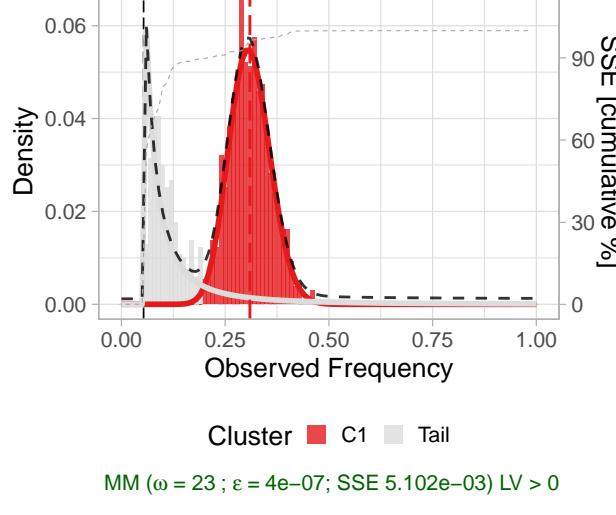
ONLY SNVs (min 150 – max 50000)



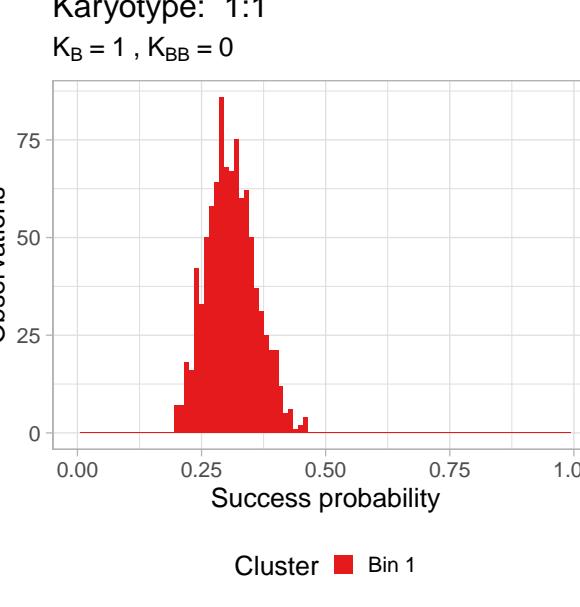
MM ($\omega = 35$; $\epsilon = 4e-05$; SSE 4.124e-03) LV > 0



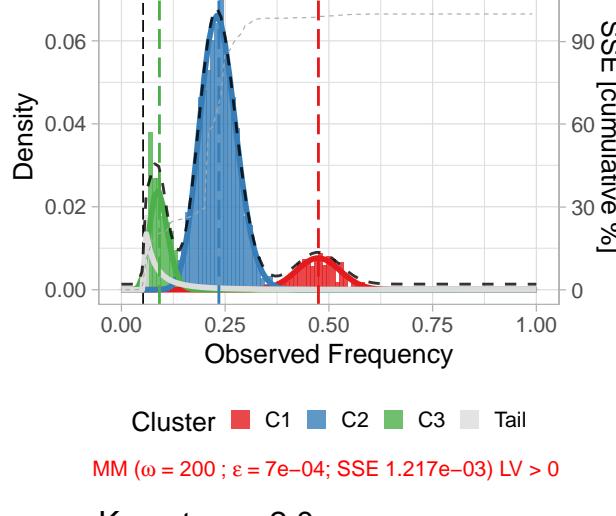
Karyotype: 1:1
N = 1306; Tail 32.07%, C1 67.93%



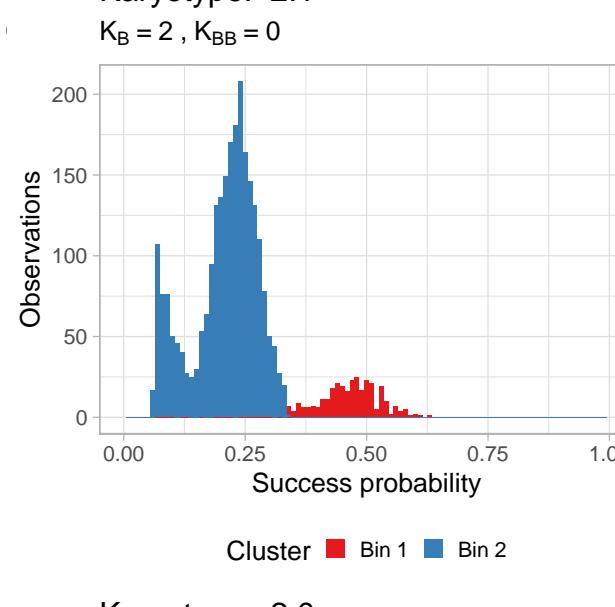
MM ($\omega = 23$; $\epsilon = 4e-07$; SSE 5.102e-03) LV > 0



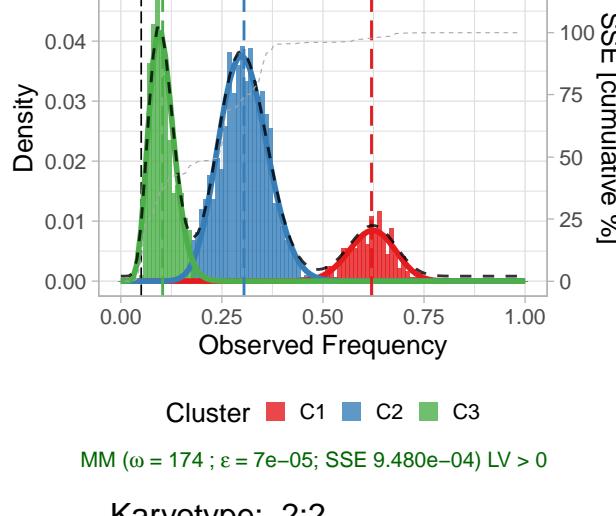
Karyotype: 2:1
N = 2821; Tail 6.17%, C1 9.97%, C3 12.87%, C2 73.86%



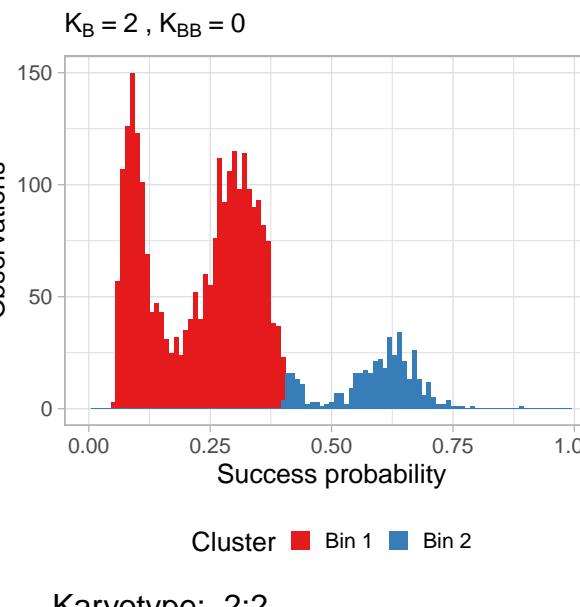
MM ($\omega = 200$; $\epsilon = 7e-04$; SSE 1.217e-03) LV > 0



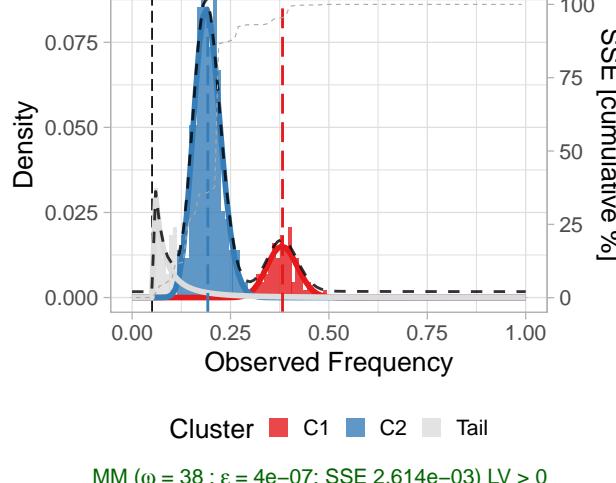
Karyotype: 2:0
N = 2943; Tail 0%, C1 12.01%, C3 31.82%, C2 56.17%



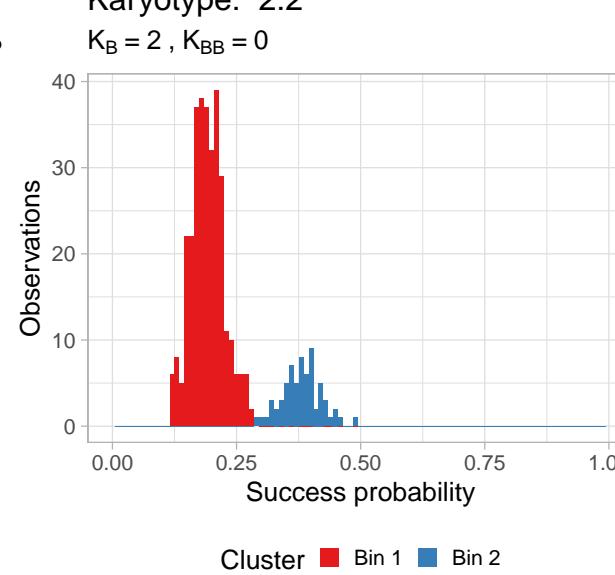
MM ($\omega = 174$; $\epsilon = 7e-05$; SSE 9.480e-04) LV > 0



Karyotype: 2:2
N = 434; Tail 14.37%, C1 14.52%, C2 71.1%

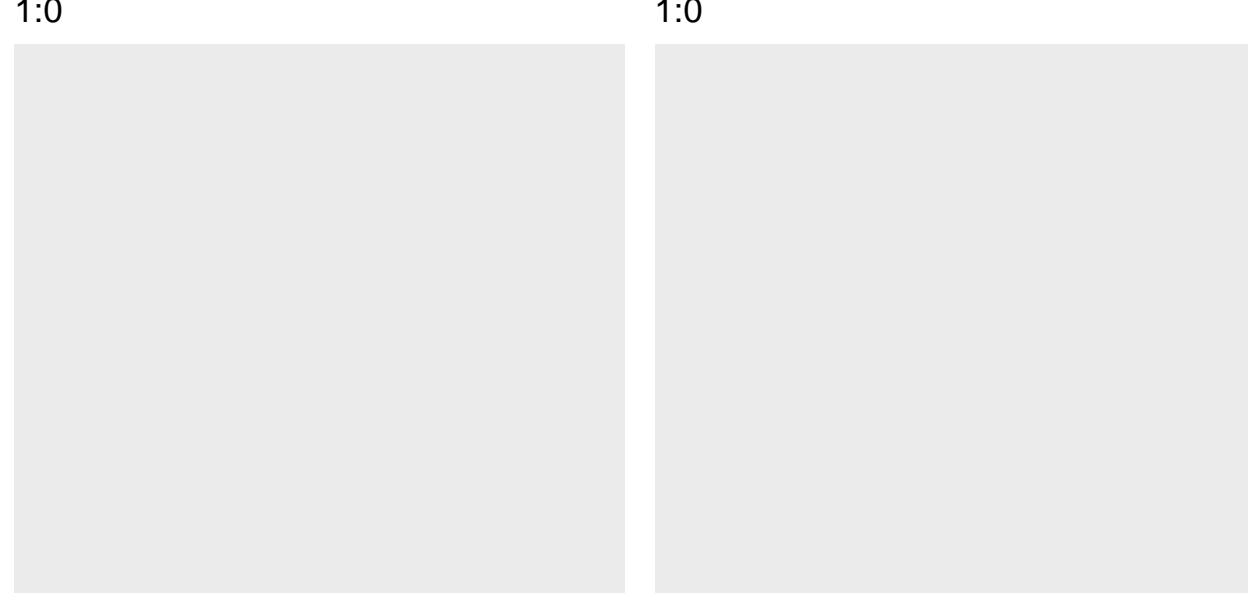


MM ($\omega = 38$; $\epsilon = 4e-07$; SSE 2.614e-03) LV > 0

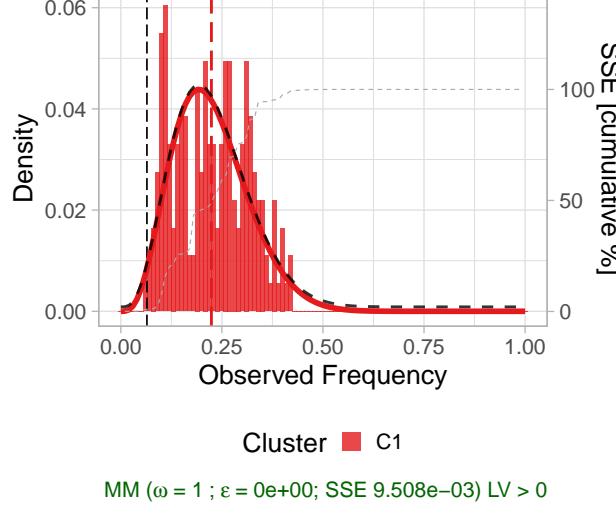


161010_HMFregCPCT_FR12251638_FR12244323_CPCT02030271

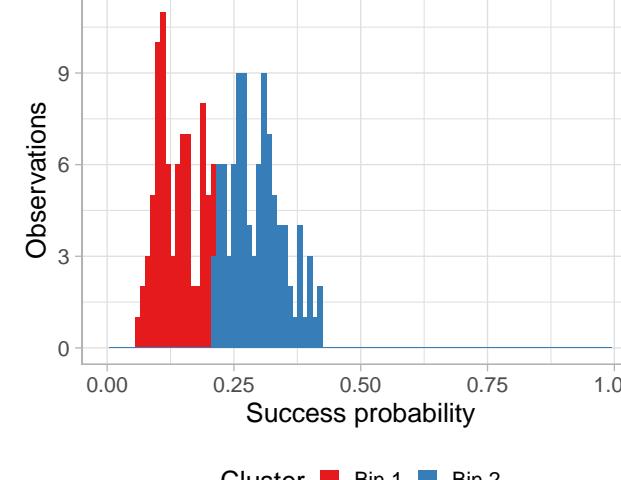
ONLY SNVs (min 150 – max 50000)



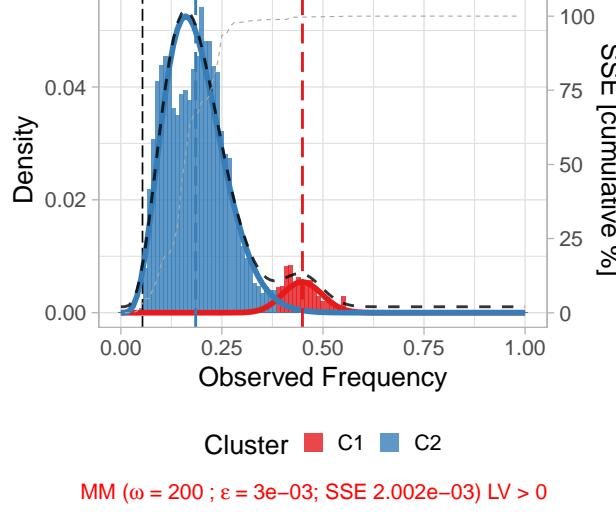
Karyotype: 1:1
N = 182; Tail 0%, C1 100%



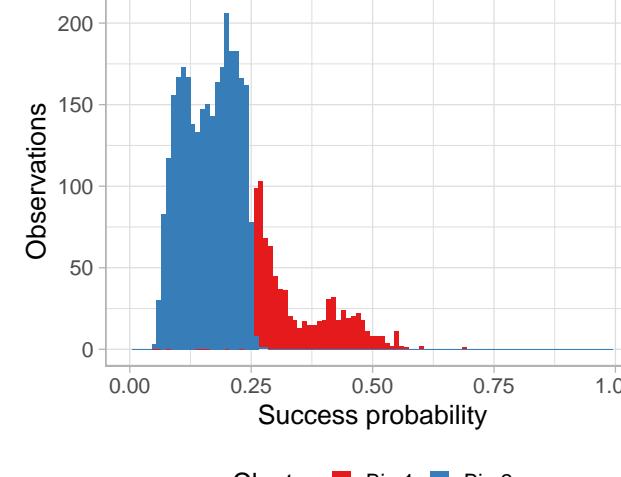
Karyotype: 1:1
 $K_B = 2$, $K_{BB} = 0$



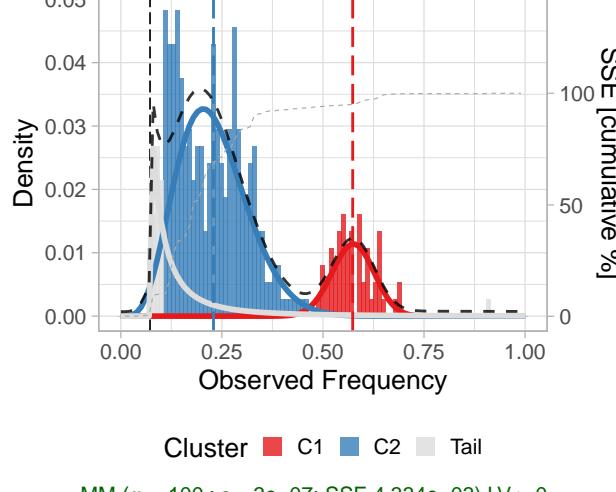
Karyotype: 2:1
N = 3802; Tail 0%, C1 6.61%, C2 93.39%



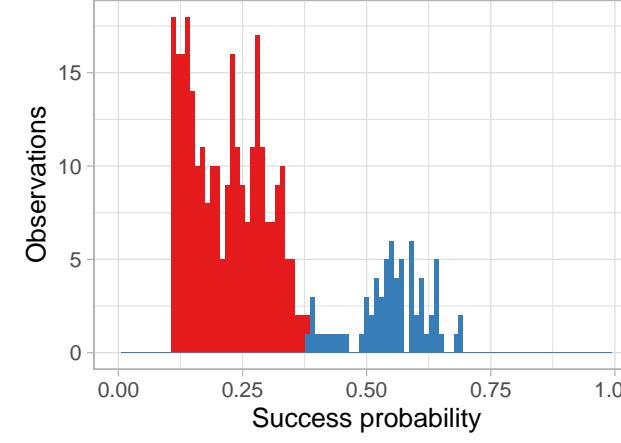
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



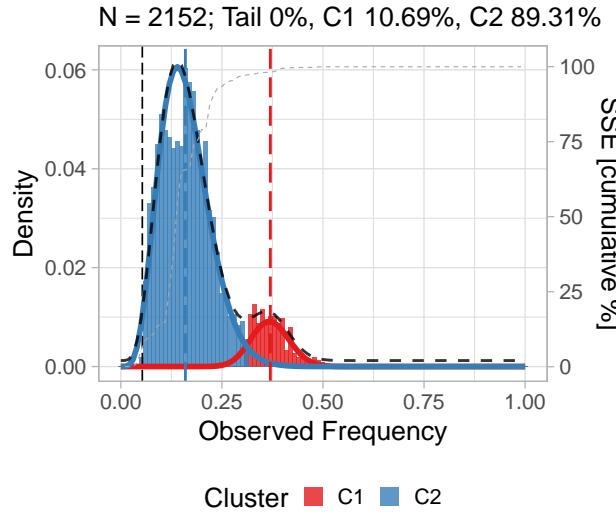
Karyotype: 2:0
N = 373; C1 14.78%, Tail 15.73%, C2 69.49%



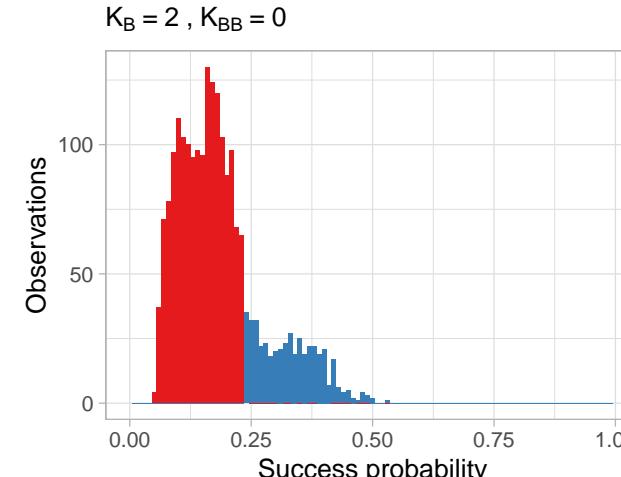
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 2152; Tail 0%, C1 10.69%, C2 89.31%

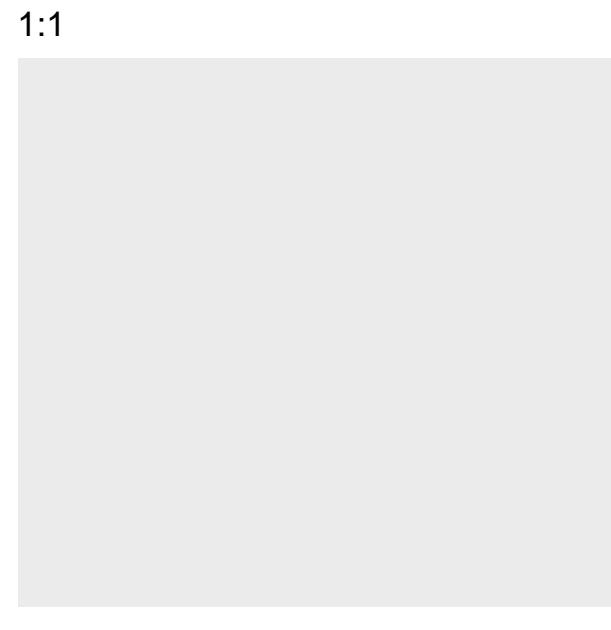
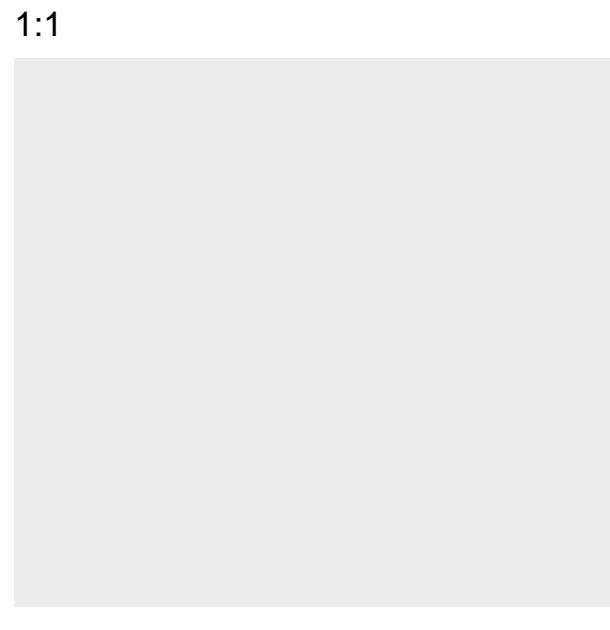
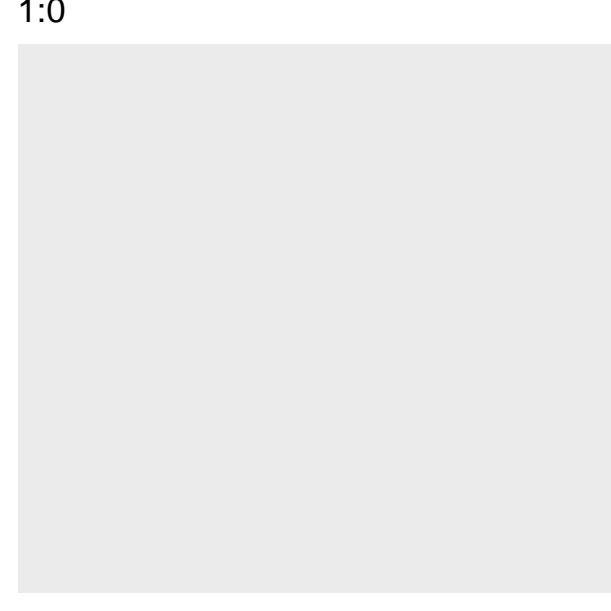
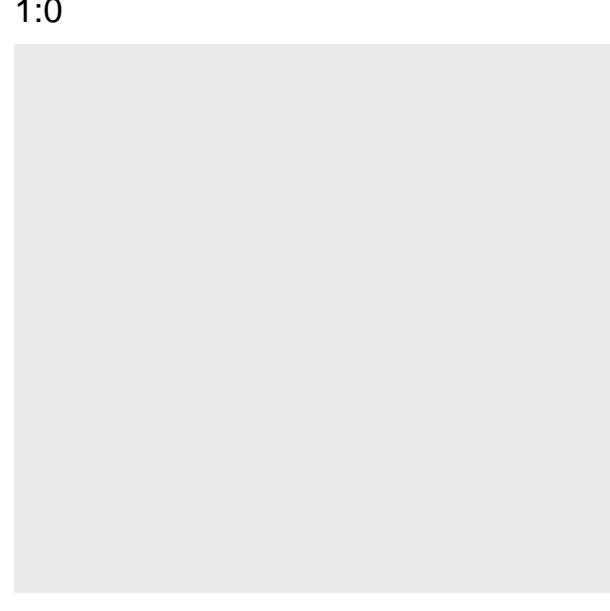


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

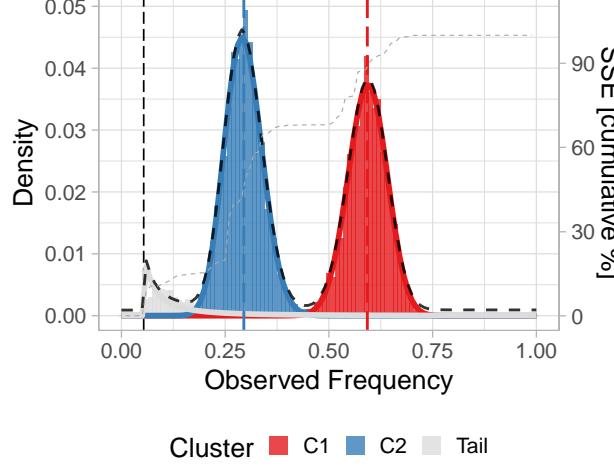


161010_HMFregCPCT_FR12254233_FR12244324_CPCT02030272

ONLY SNVs (min 150 – max 50000)

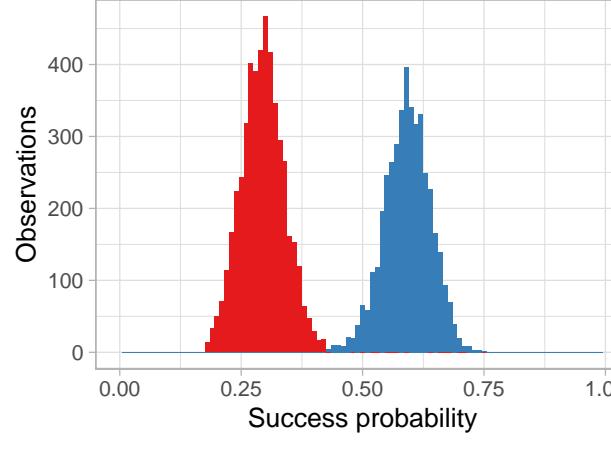


Karyotype: 2:1
N = 9450; Tail 5.11%, C1 44.12%, C2 50.78%

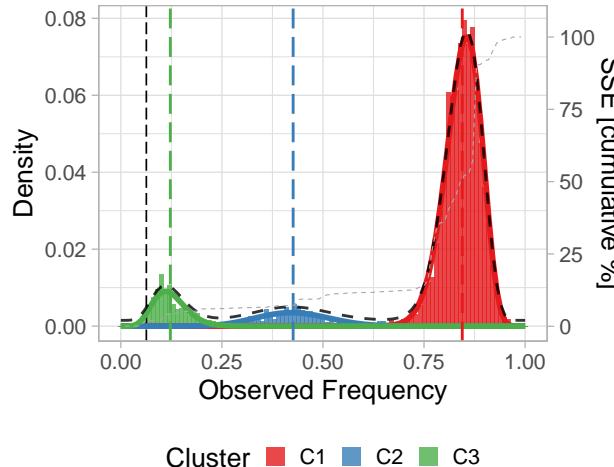


MM ($\omega = 34$; $\epsilon = 6e-06$; SSE 5.088e-04) LV > 0

Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$

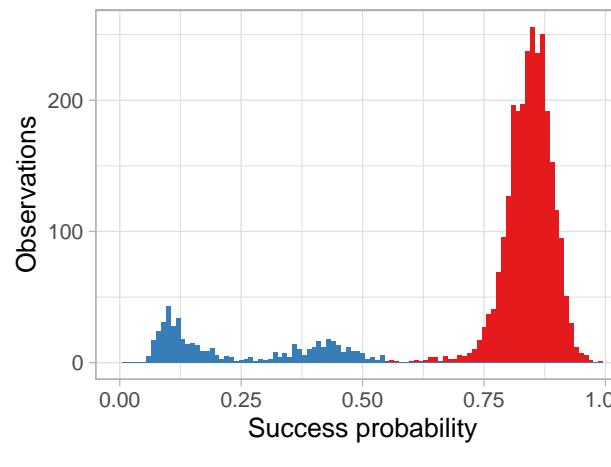


Karyotype: 2:0
N = 3221; Tail 0%, C2 7.78%, C3 8.93%, C1 8

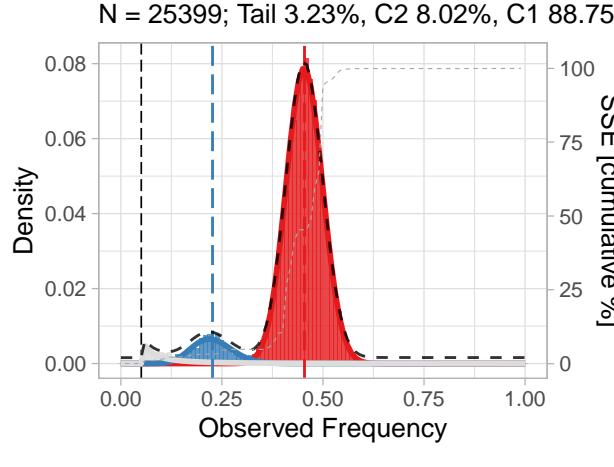


MM ($\omega = 77$; $\epsilon = 3e-05$; SSE 6.010e-04) LV > 0

Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$

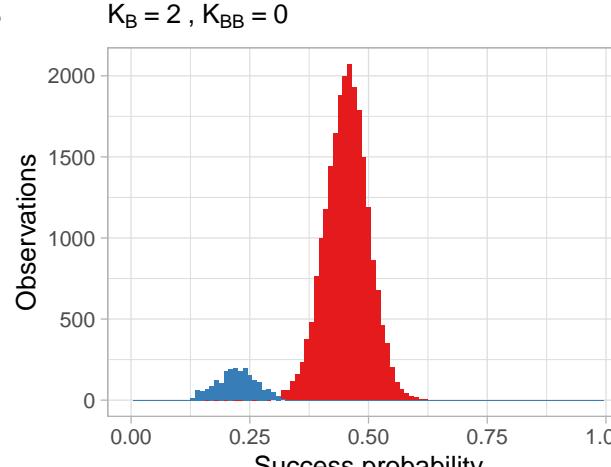


Karyotype: 2:2
N = 25399; Tail 3.23%, C2 8.02%, C1 88.75%



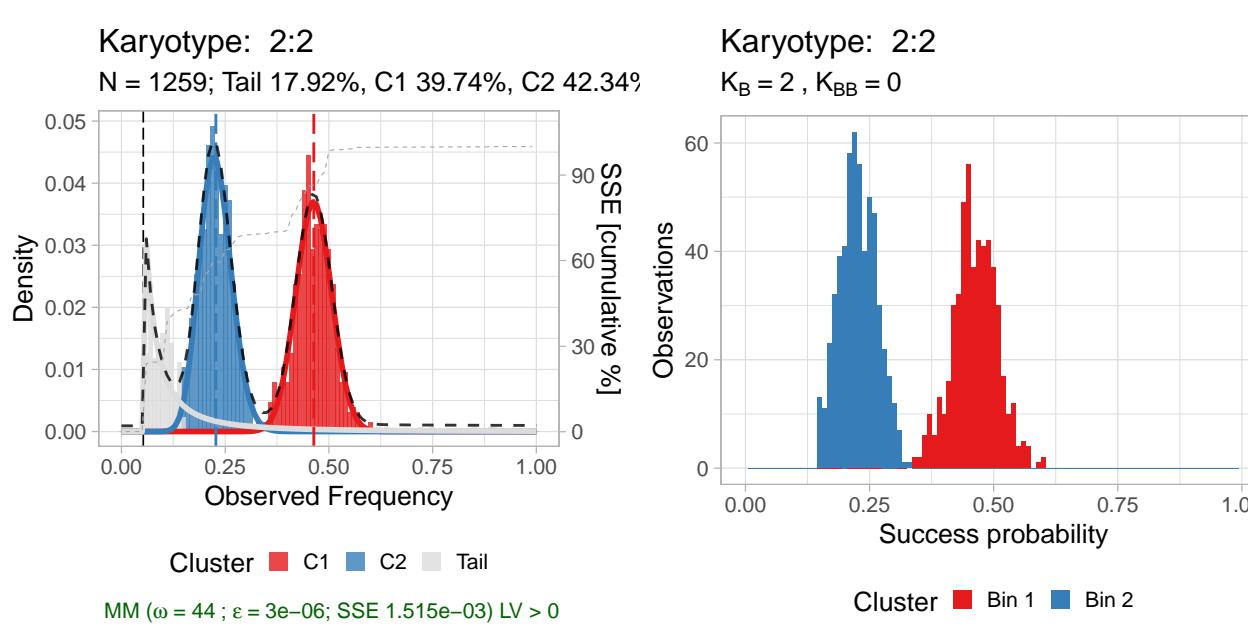
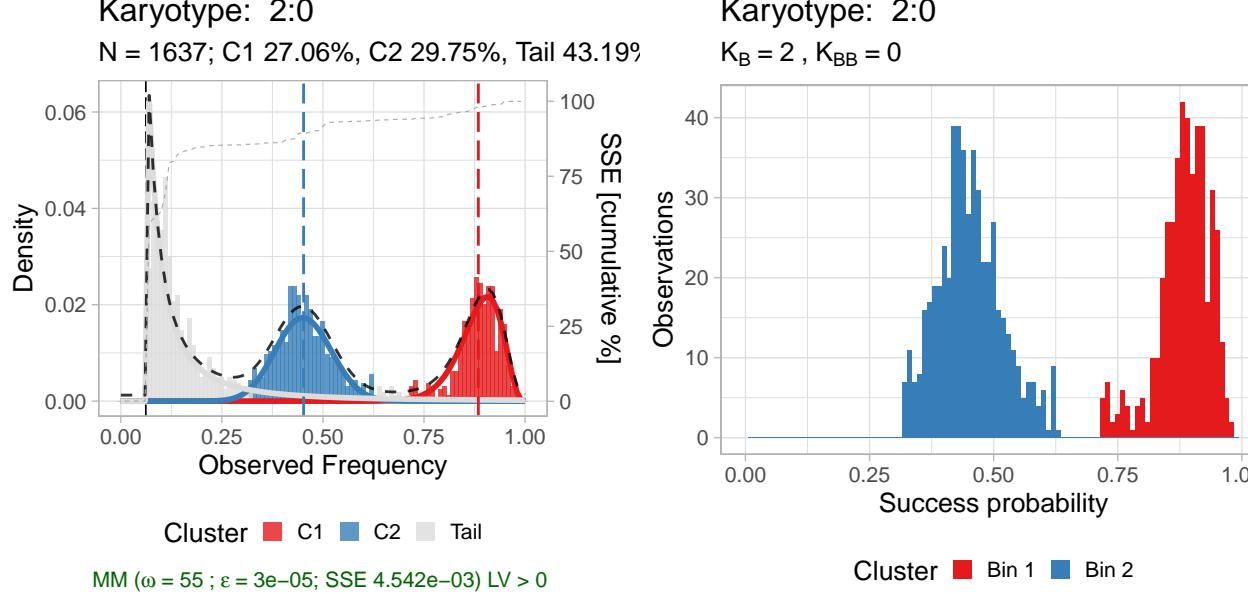
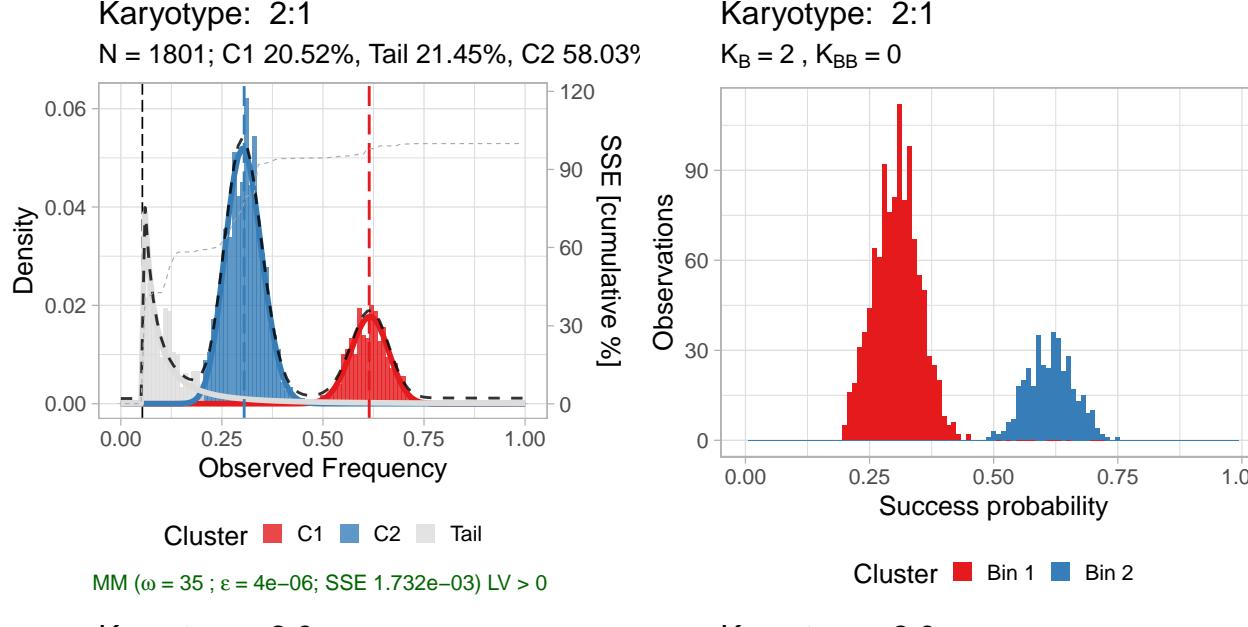
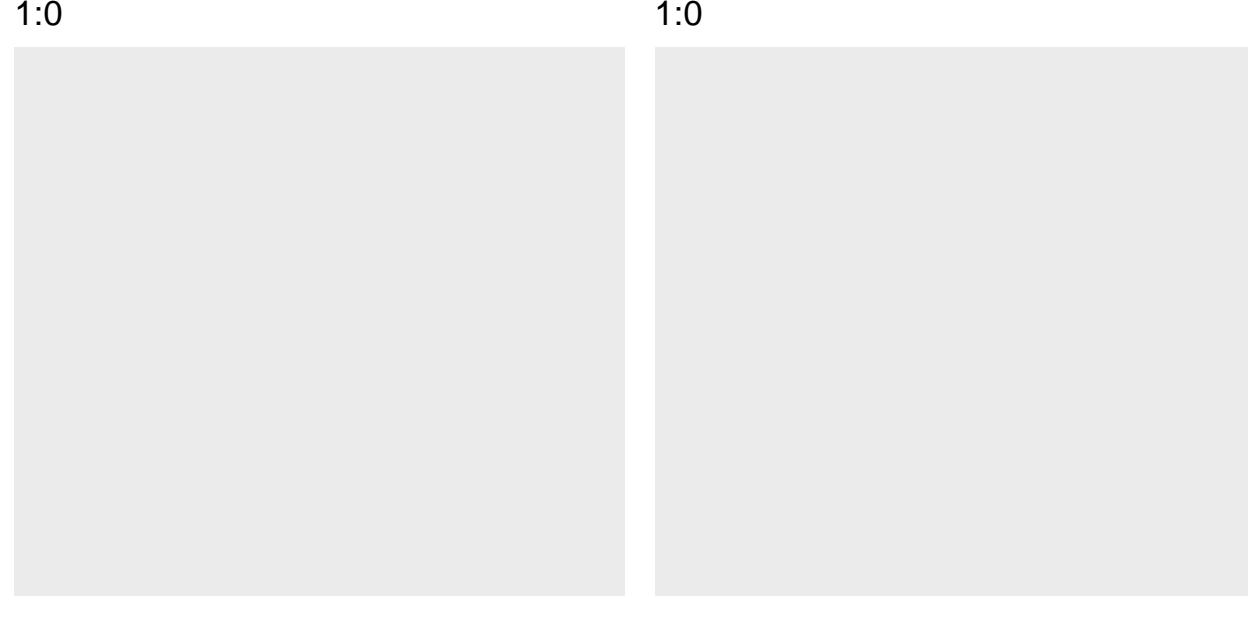
MM ($\omega = 122$; $\epsilon = 8e-05$; SSE 6.955e-04) LV > 0

Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



161016_HMFregCPCT_FR10301955_FR12244316_CPCT02020309

ONLY SNVs (min 150 – max 50000)

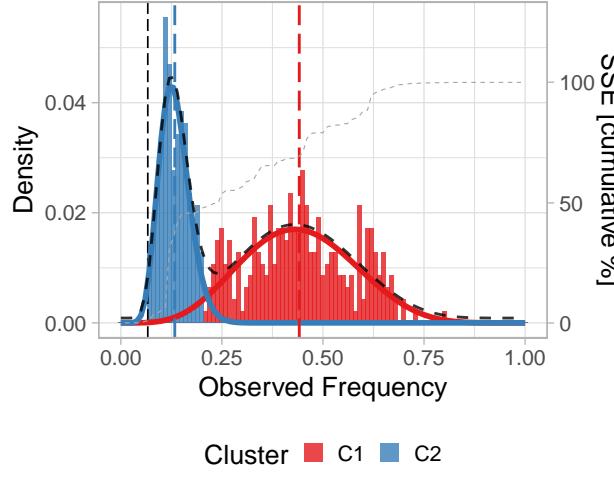


161017_HMFregCPCT_FR10304596_FR12244341_CPCT02020376

ONLY SNVs (min 150 – max 50000)

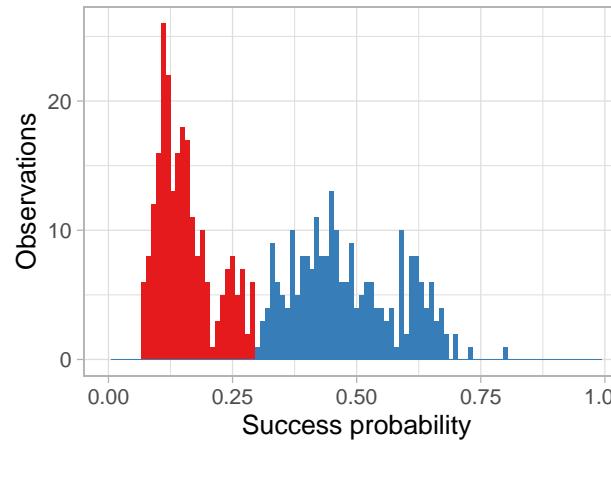
Karyotype: 1:0

N = 468; Tail 0%, C2 39.4%, C1 60.6%



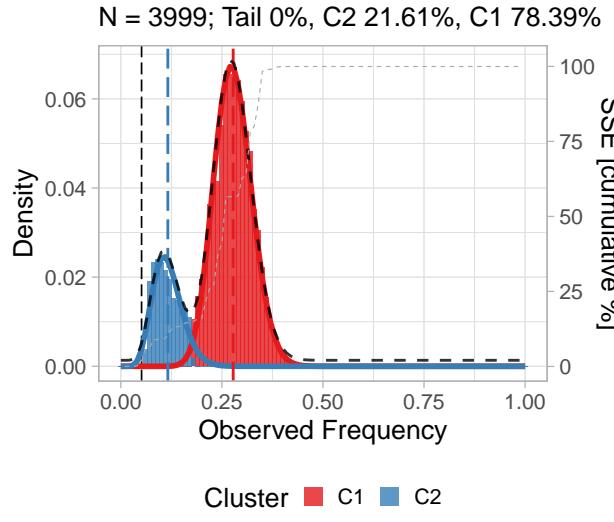
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



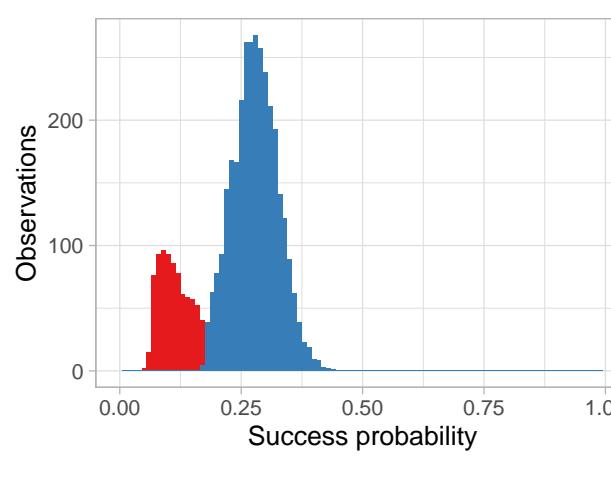
Karyotype: 1:1

N = 3999; Tail 0%, C2 21.61%, C1 78.39%



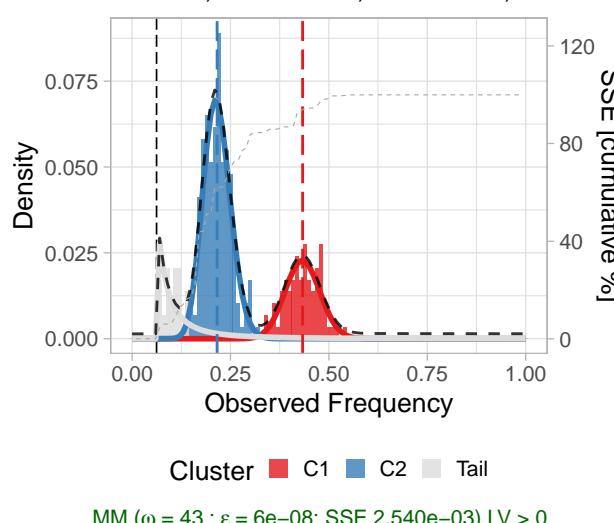
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:1

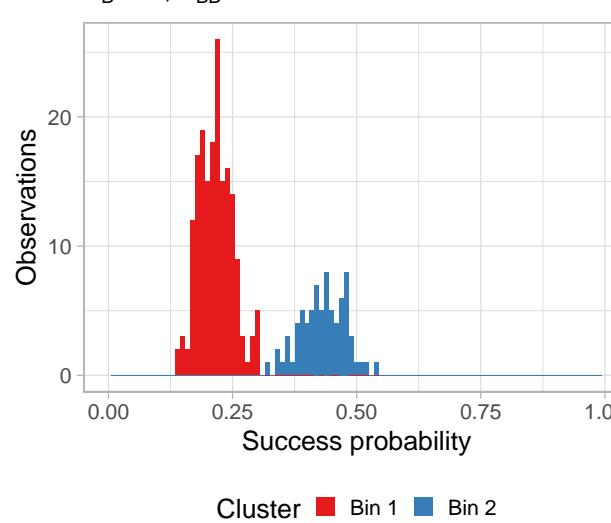
N = 292; Tail 14.83%, C1 25.16%, C2 60.01%



MM ($\omega = 43$; $\epsilon = 6e-08$; SSE 2.540e-03) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

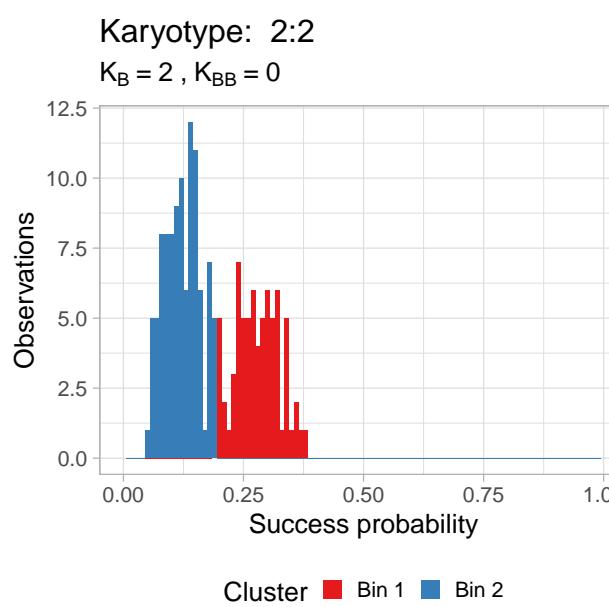
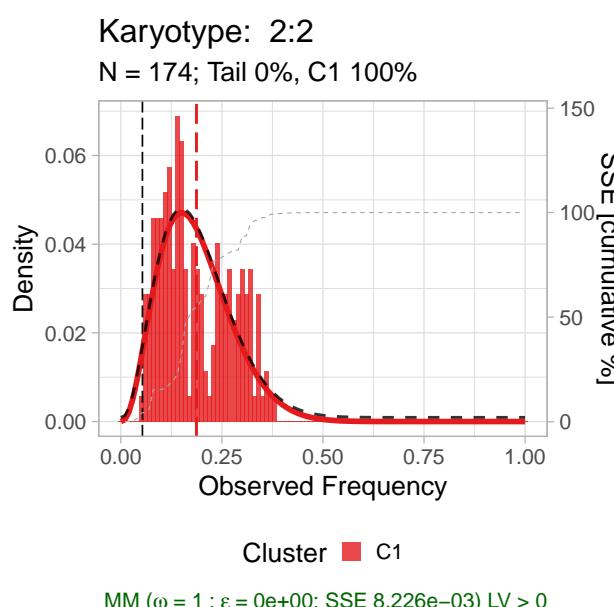
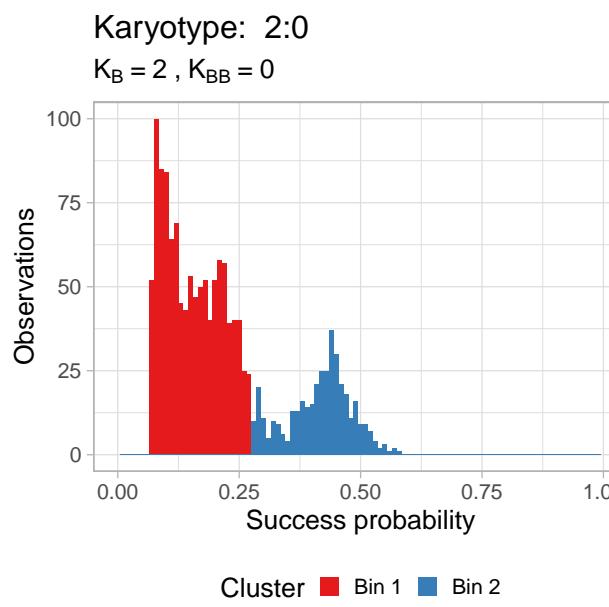
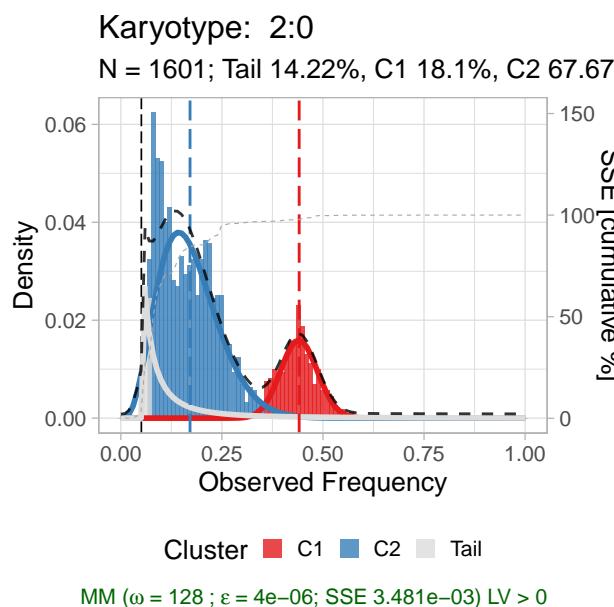
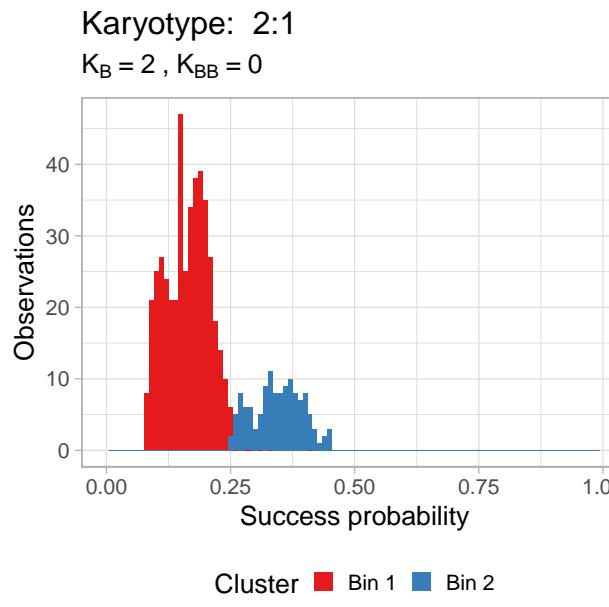
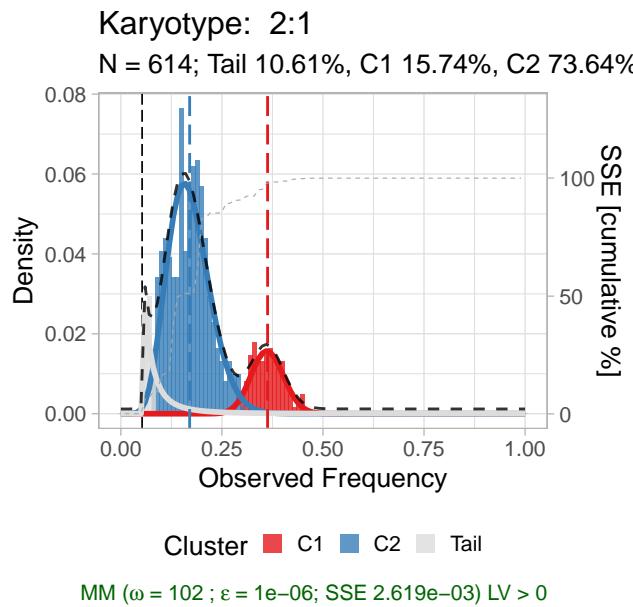
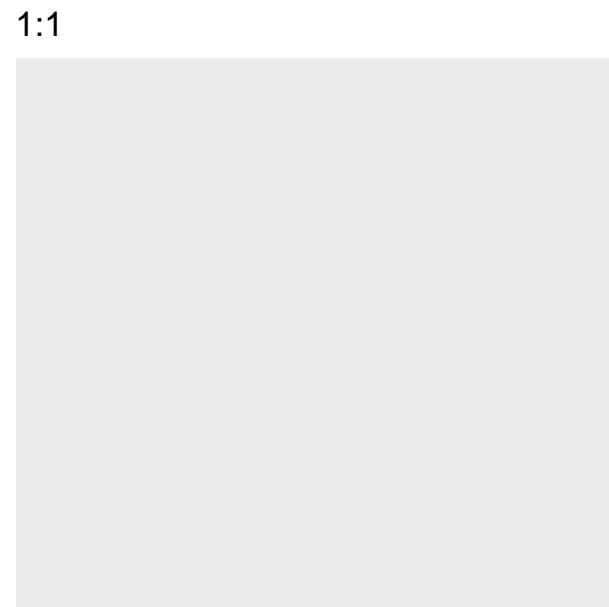
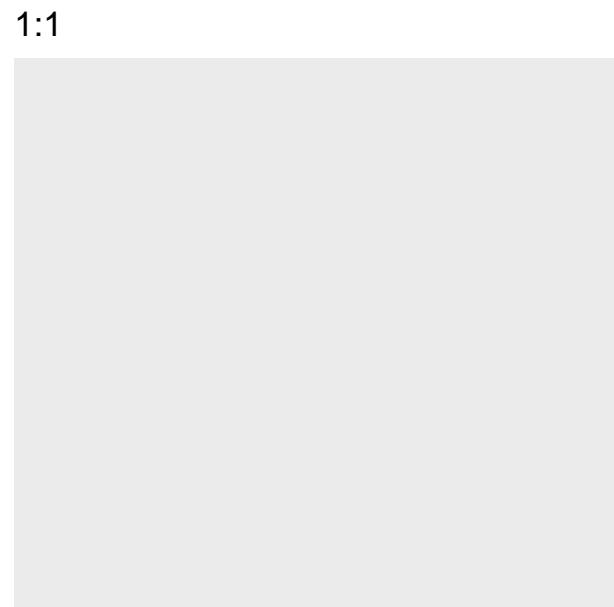
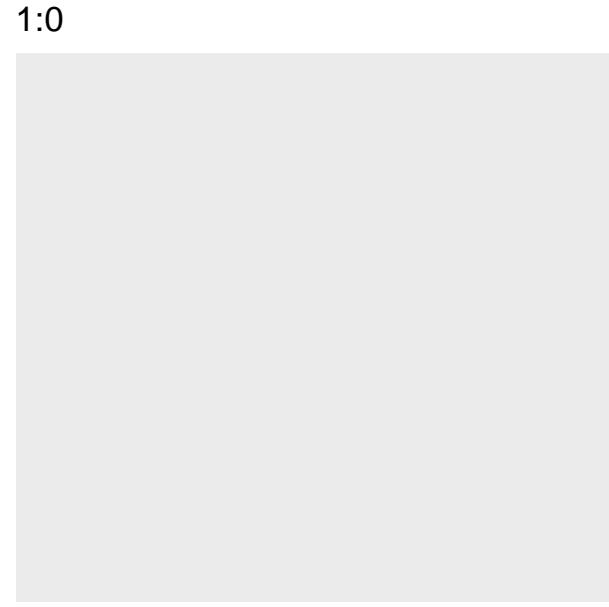
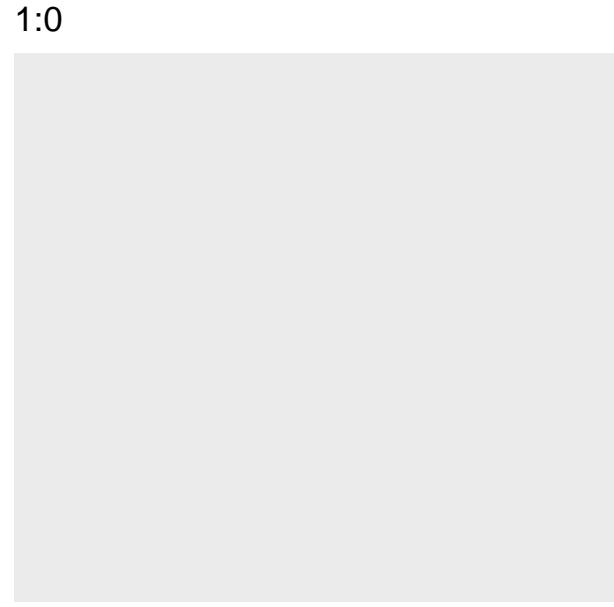
2:0

2:2

2:2

161017_HMFregCPCT_FR10304611_FR12244340_CPCT02020377

ONLY SNVs (min 150 – max 50000)

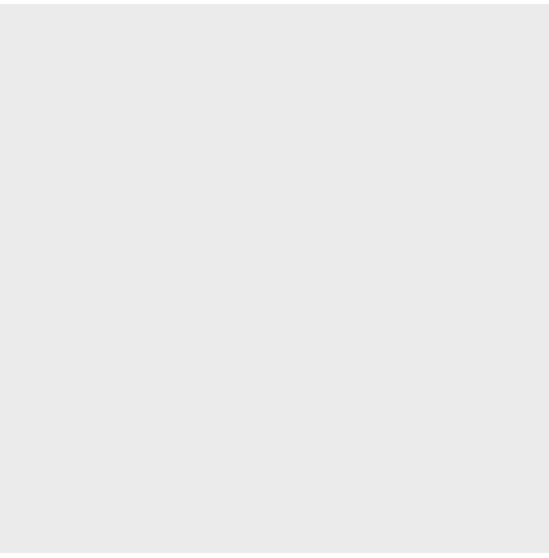
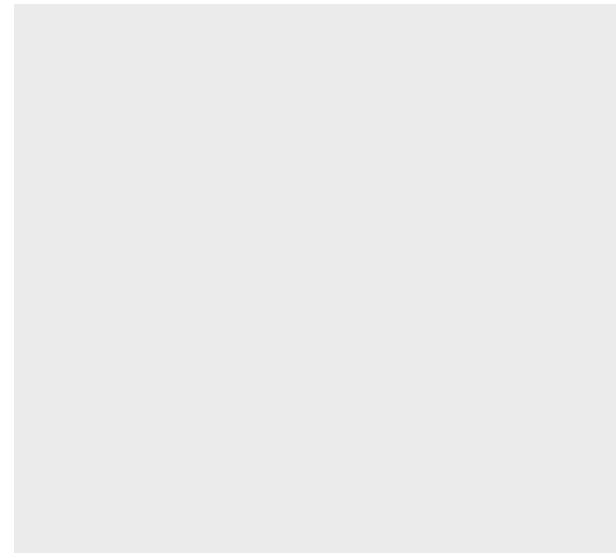


161017_HMFregCPCT_FR12251662_FR12244342_CPCT02020373

ONLY SNVs (min 150 – max 50000)

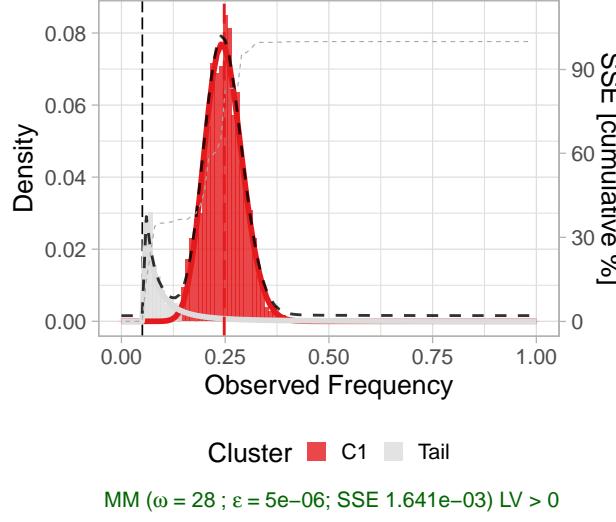
1:0

1:0



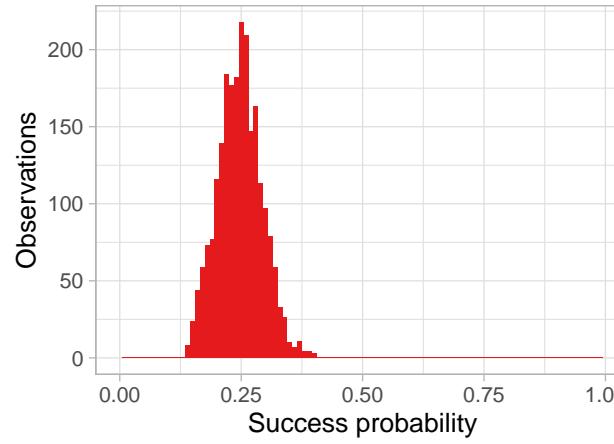
Karyotype: 1:1

N = 2569; Tail 13.78%, C1 86.22%



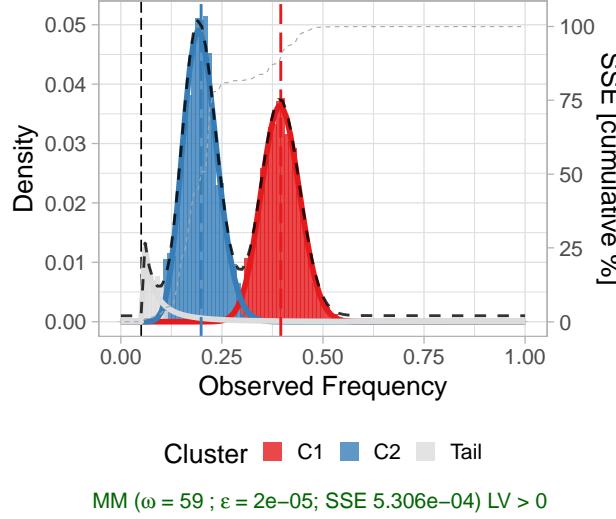
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



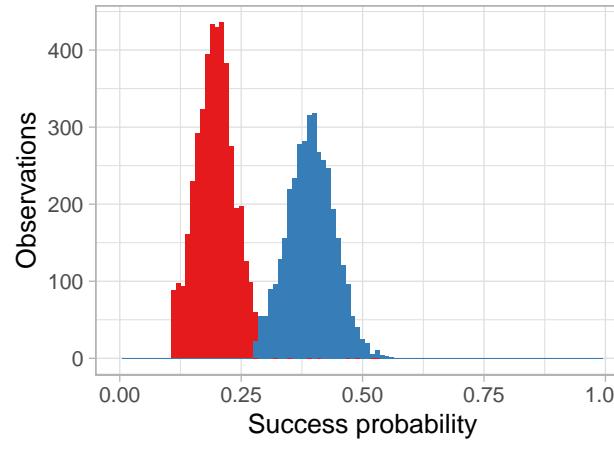
Karyotype: 2:1

N = 8468; Tail 6.3%, C1 42.84%, C2 50.86%



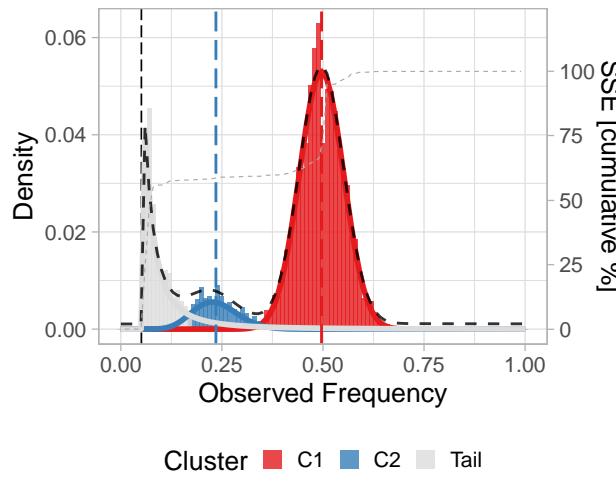
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



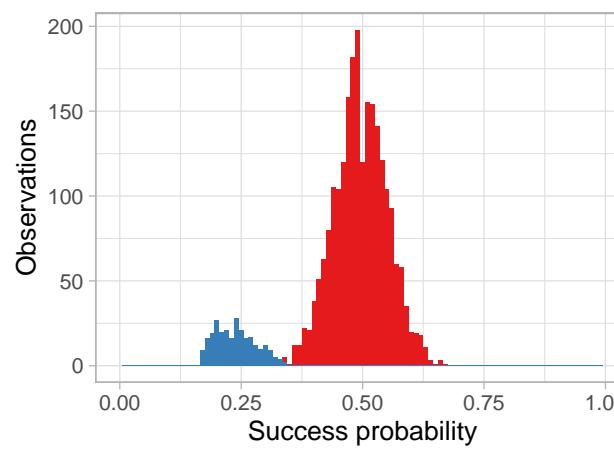
Karyotype: 2:0

N = 3146; C2 7.6%, Tail 20.46%, C1 71.94%



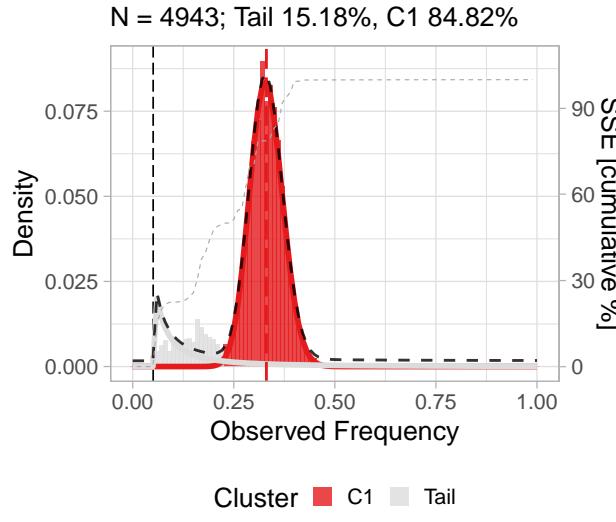
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



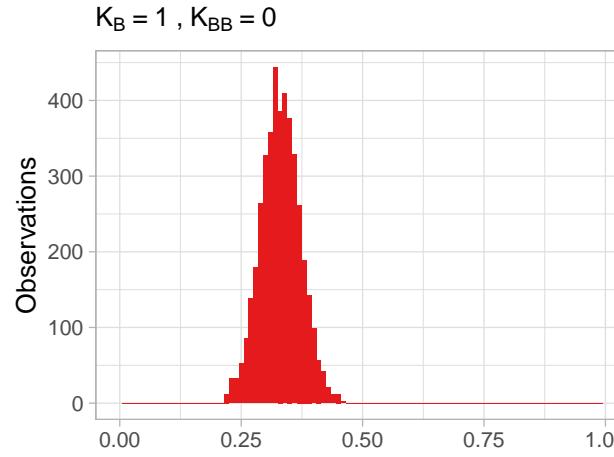
Karyotype: 2:2

N = 4943; Tail 15.18%, C1 84.82%



Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$



MM ($\omega = 19$; $\epsilon = 2e-05$; SSE 1.481e-03) LV > 0

Cluster Bin 1

161017_HMFregCPCT_FR12254730_FR12251982_CPCT02060010

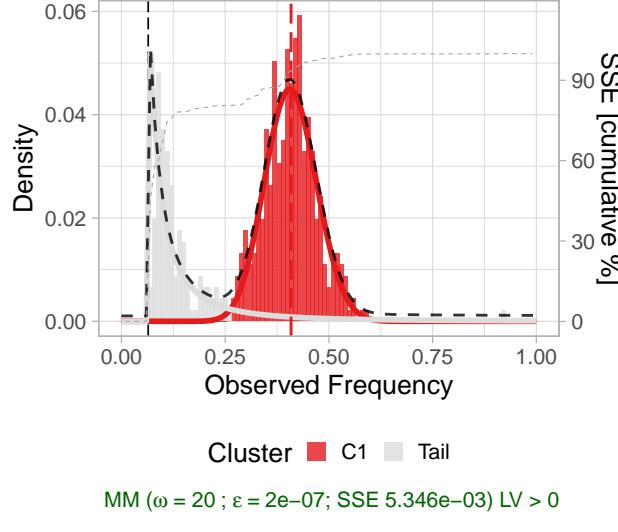
ONLY SNVs (min 150 – max 50000)

1:0

1:0

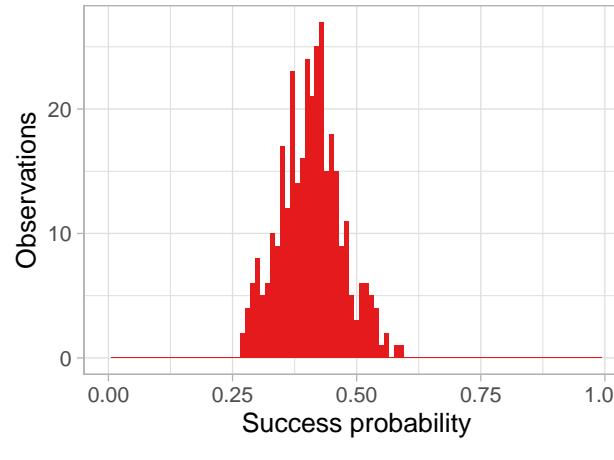
Karyotype: 1:1

N = 456; Tail 30.15%, C1 69.85%



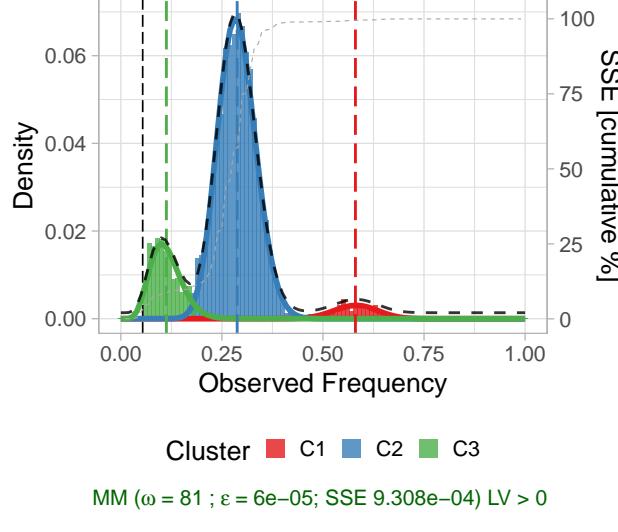
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



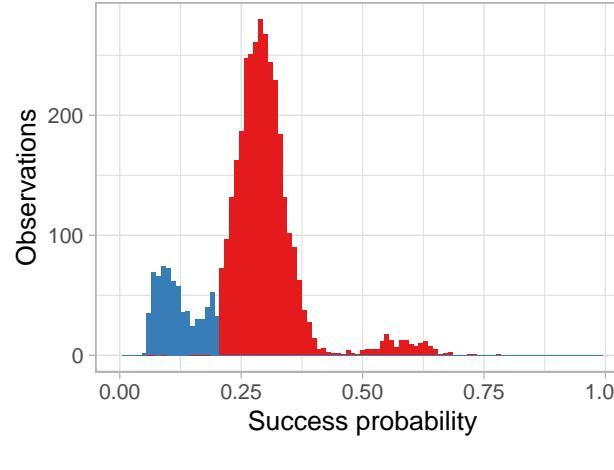
Karyotype: 2:1

N = 4016; Tail 0%, C1 4.09%, C3 15.81%, C2



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$

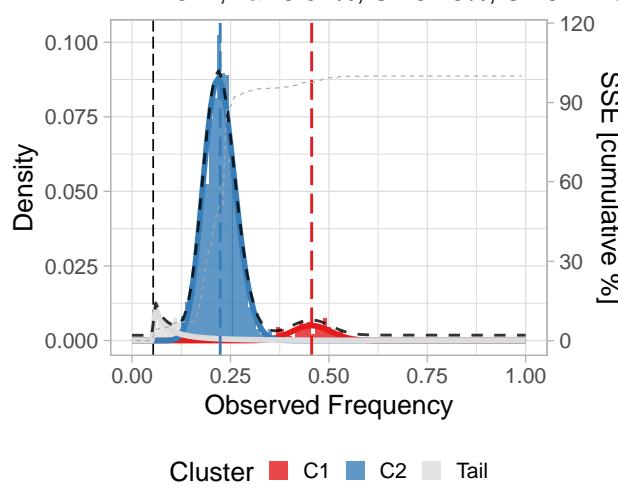


2:0

2:0

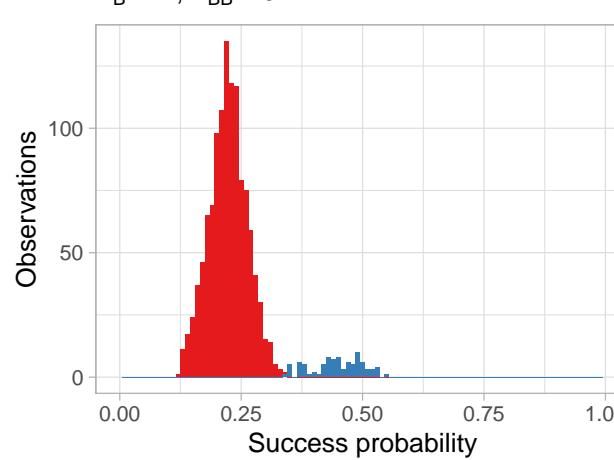
Karyotype: 2:2

N = 1317; Tail 6.07%, C1 6.16%, C2 87.77%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

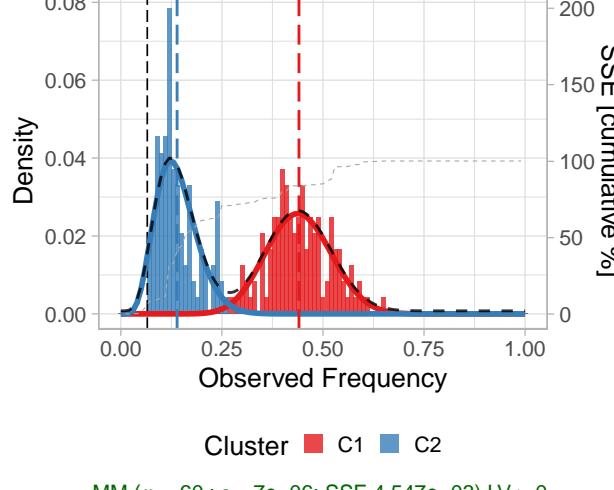


161018_HMFregCPCT_FR10304608_FR12244344_CPCT02020378

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

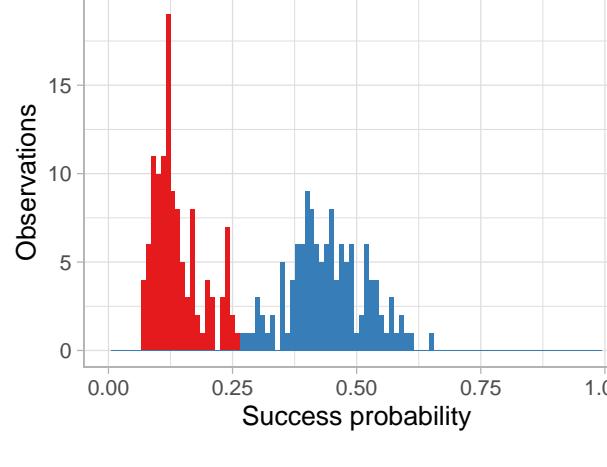
N = 242; Tail 0%, C2 48.1%, C1 51.9%



MM ($\omega = 60$; $\epsilon = 7e-06$; SSE 4.547e-03) LV > 0

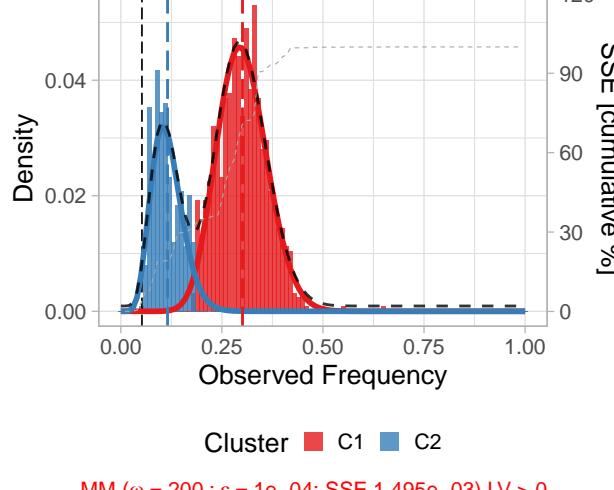
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

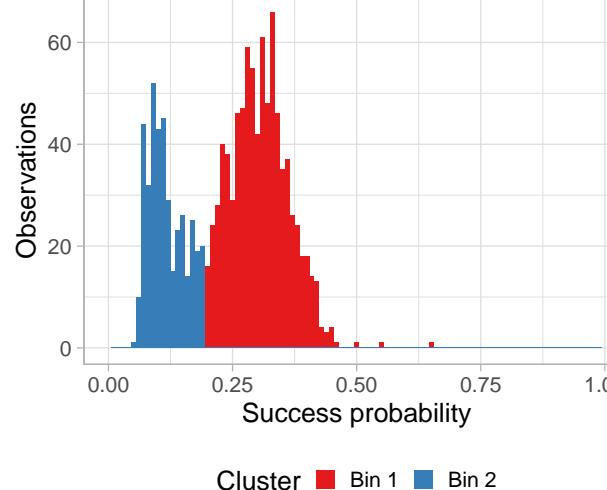
N = 1247; Tail 0%, C2 29.71%, C1 70.29%



MM ($\omega = 200$; $\epsilon = 1e-04$; SSE 1.495e-03) LV > 0

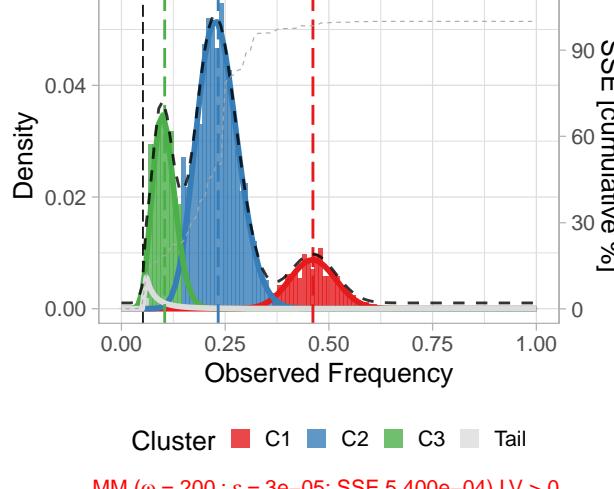
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

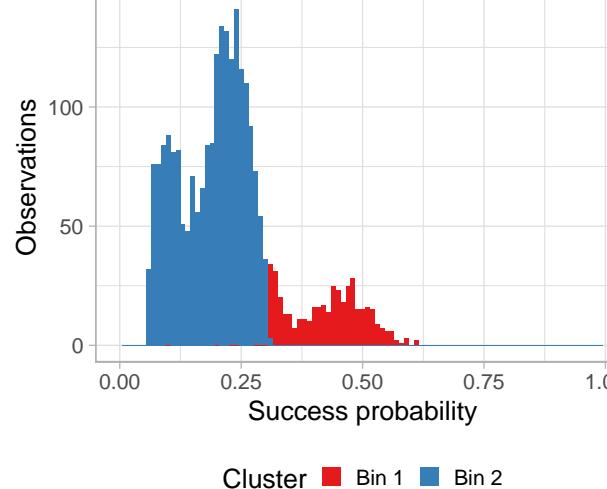
N = 2575; Tail 2.17%, C1 12%, C3 22.94%, C2 65.0%



MM ($\omega = 200$; $\epsilon = 3e-05$; SSE 5.400e-04) LV > 0

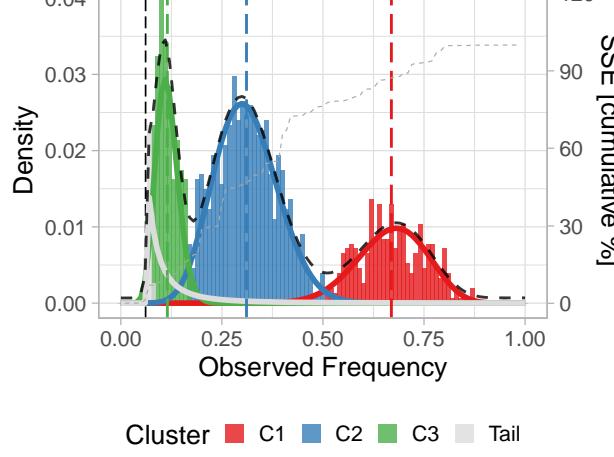
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

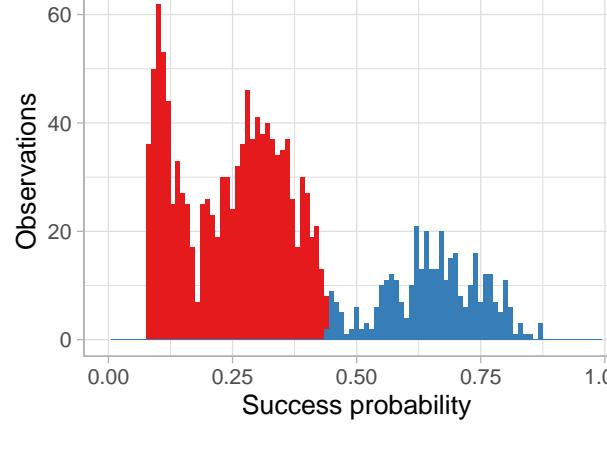
N = 1546; Tail 7.22%, C3 19.98%, C1 21.36%



MM ($\omega = 200$; $\epsilon = 4e-06$; SSE 7.719e-04) LV > 0

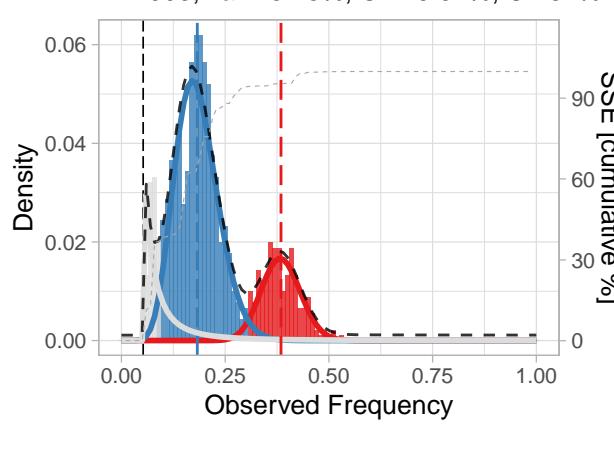
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

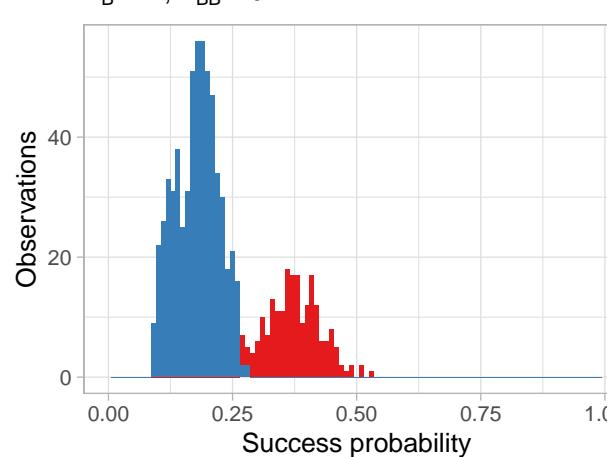
N = 903; Tail 13.45%, C1 19.54%, C2 67%



MM ($\omega = 110$; $\epsilon = 4e-06$; SSE 2.992e-03) LV > 0

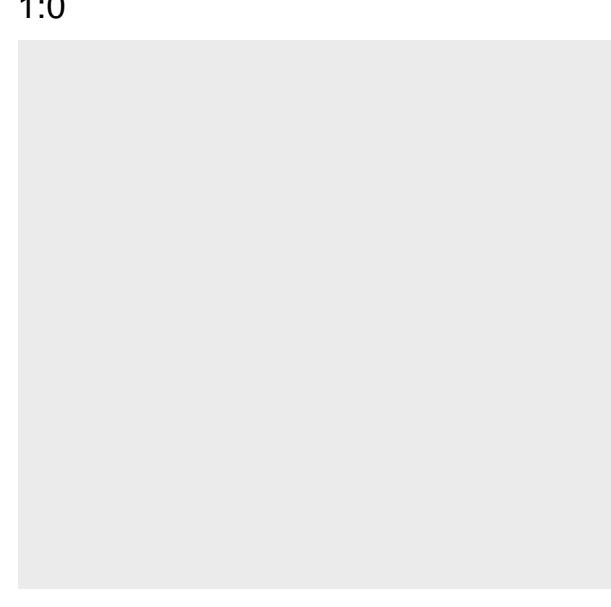
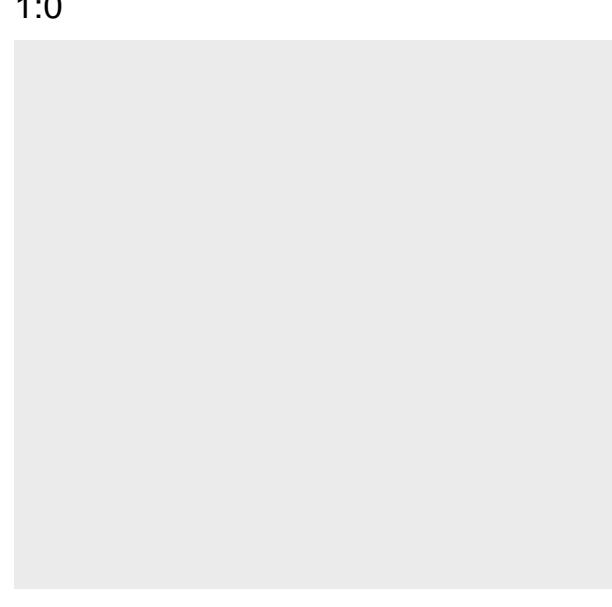
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

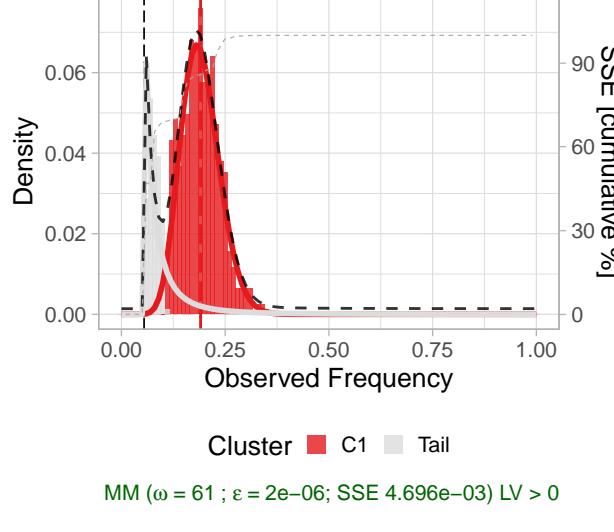


161018_HMFregCPCT_FR12244712_FR12244331_CPCT02030274

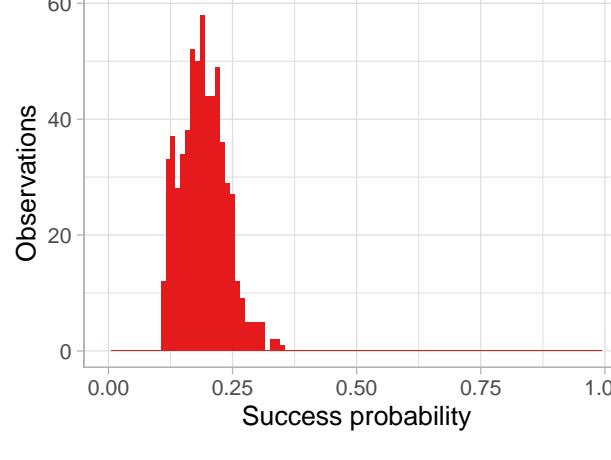
ONLY SNVs (min 150 – max 50000)



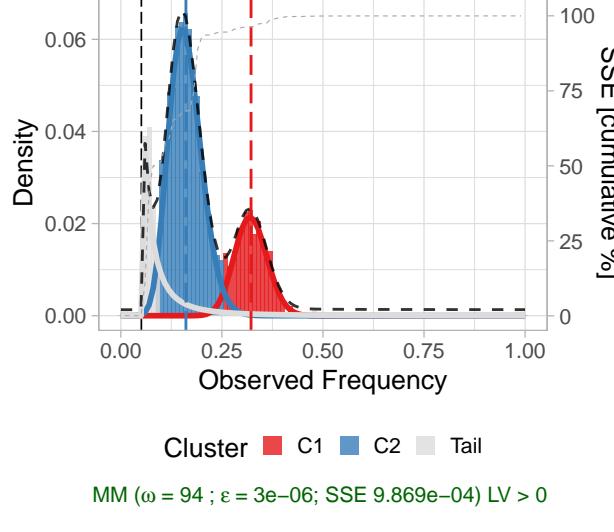
Karyotype: 1:1
N = 764; Tail 22.99%, C1 77.01%



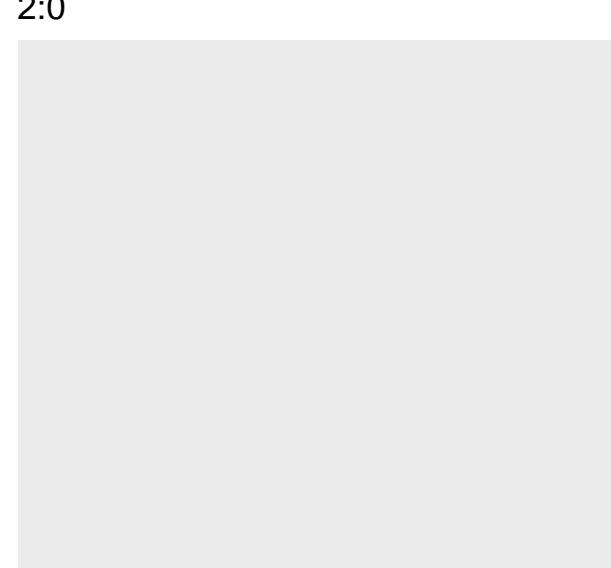
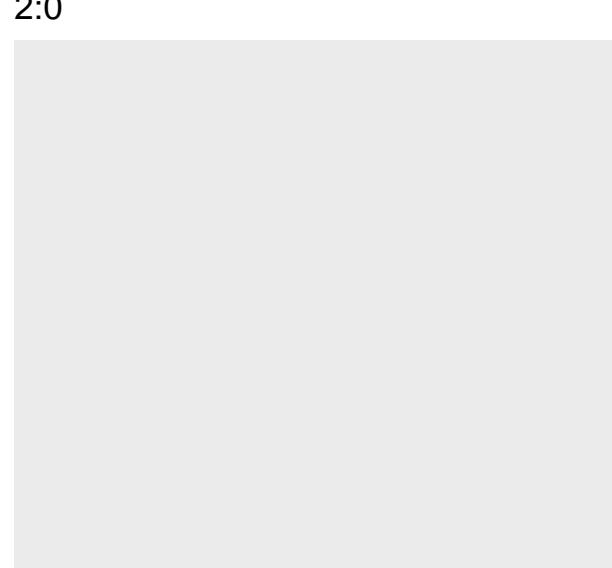
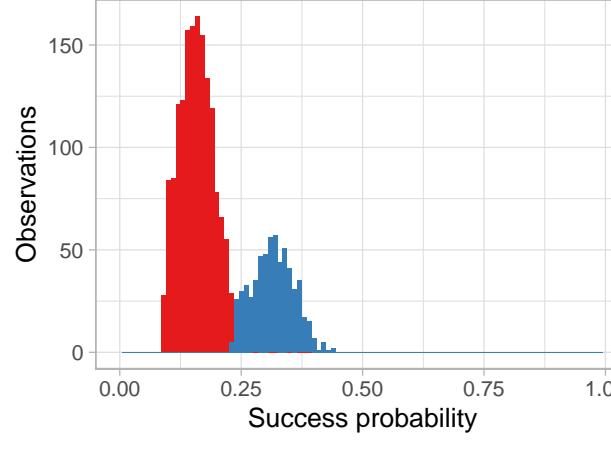
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



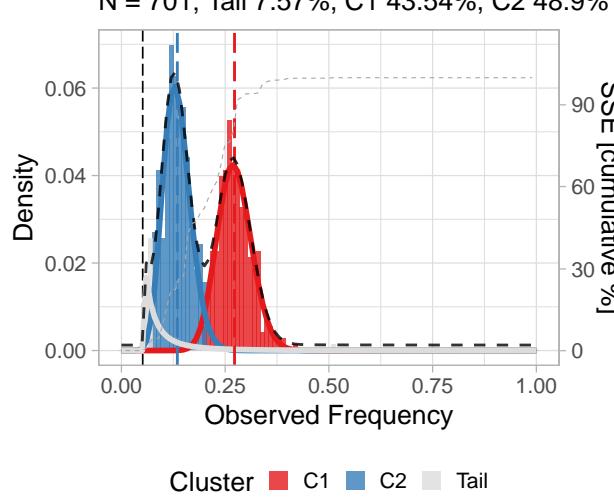
Karyotype: 2:1
N = 2495; Tail 16.59%, C1 21.49%, C2 61.92%



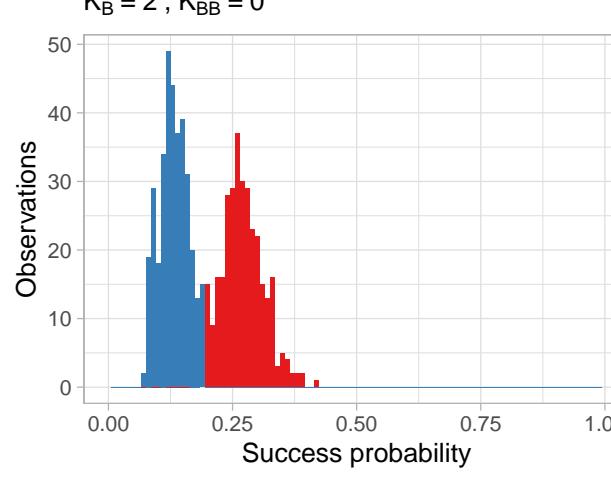
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 701; Tail 7.57%, C1 43.54%, C2 48.9%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

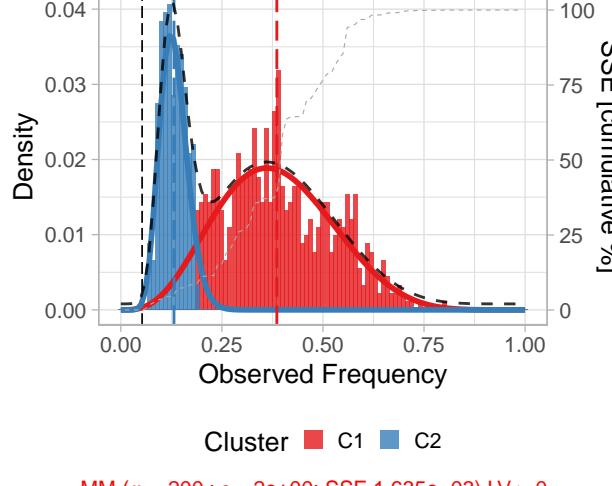


161018_HMFregCPCT_FR12244713_FR12244332_CPCT02070018

ONLY SNVs (min 150 – max 50000)

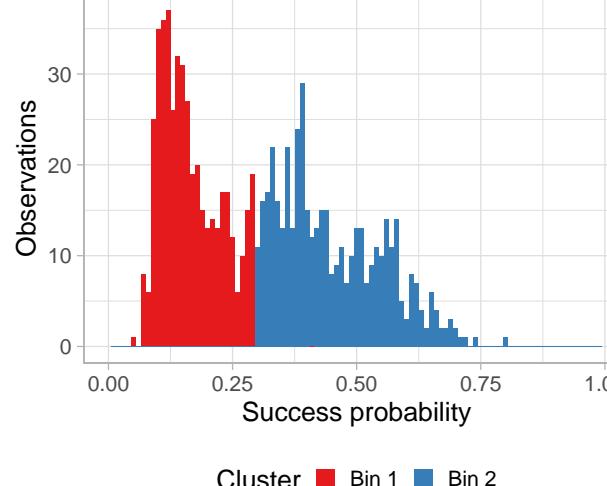
Karyotype: 1:0

N = 911; Tail 0%, C2 30.72%, C1 69.28%



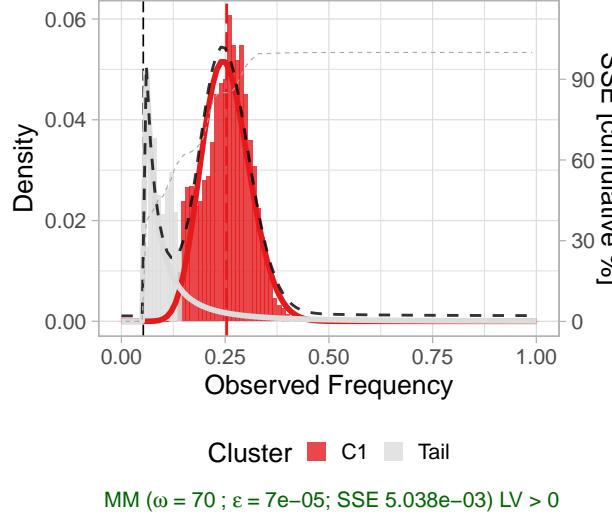
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



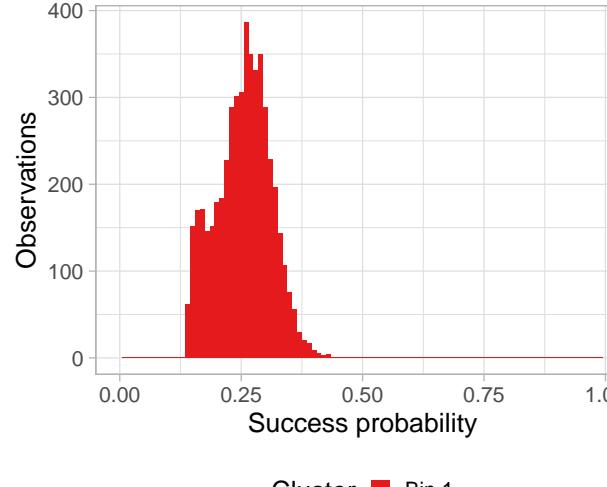
Karyotype: 1:1

N = 6376; Tail 25.99%, C1 74.01%



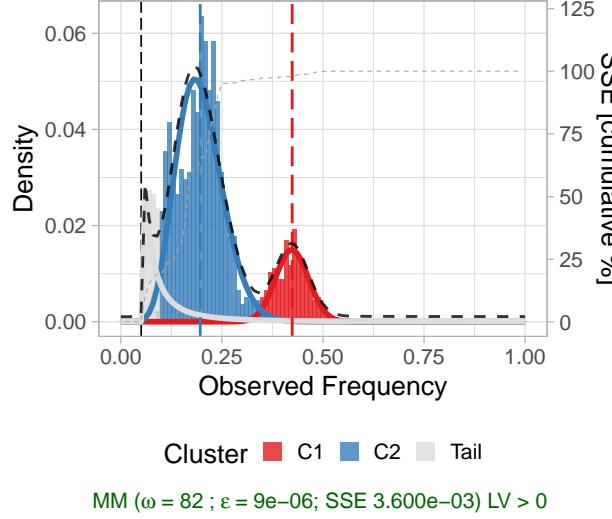
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



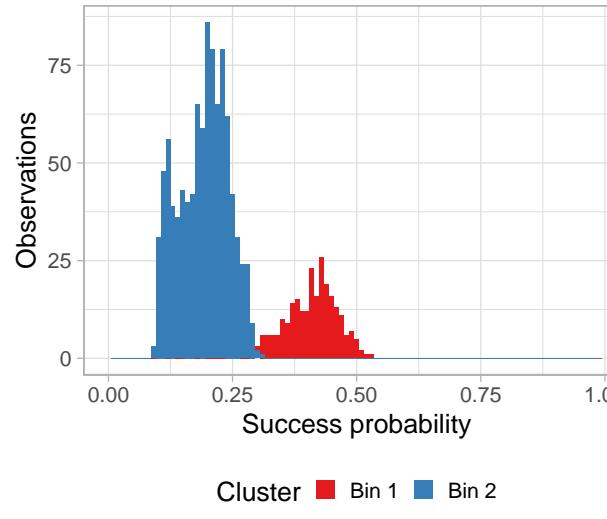
Karyotype: 2:1

N = 1352; Tail 13.86%, C1 15.2%, C2 70.94%



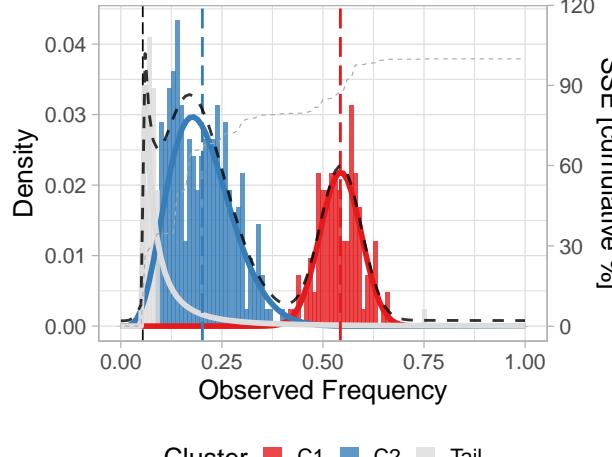
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



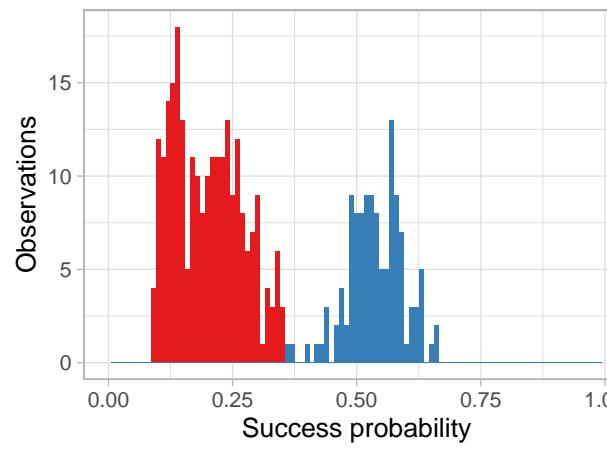
Karyotype: 2:0

N = 415; Tail 15.79%, C1 27.64%, C2 56.57%



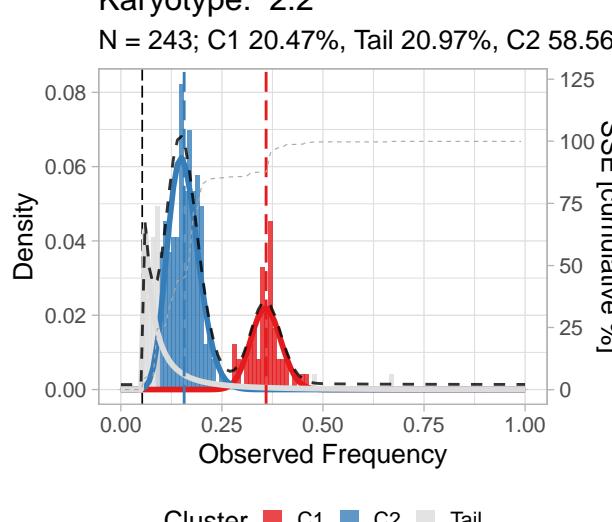
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



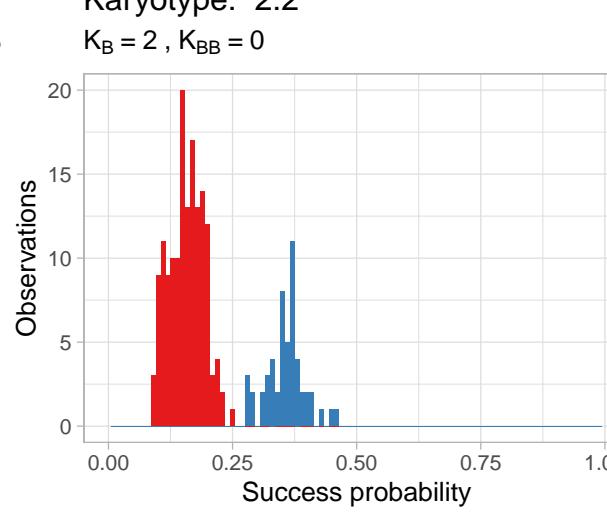
Karyotype: 2:2

N = 243; C1 20.47%, Tail 20.97%, C2 58.56%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

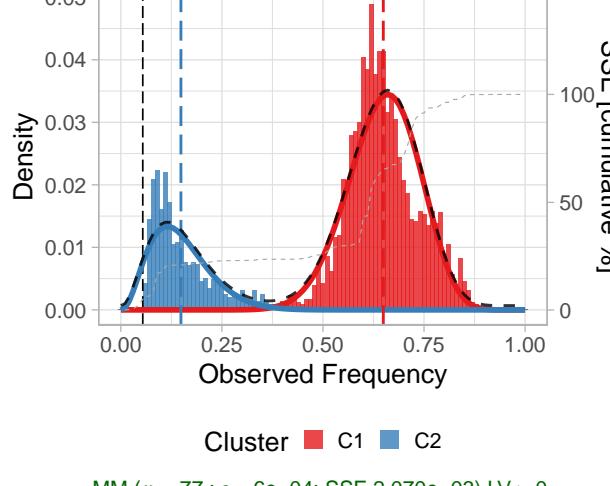


161018_HMFregCPCT_FR12251526_FR12244330_CPCT02040037

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

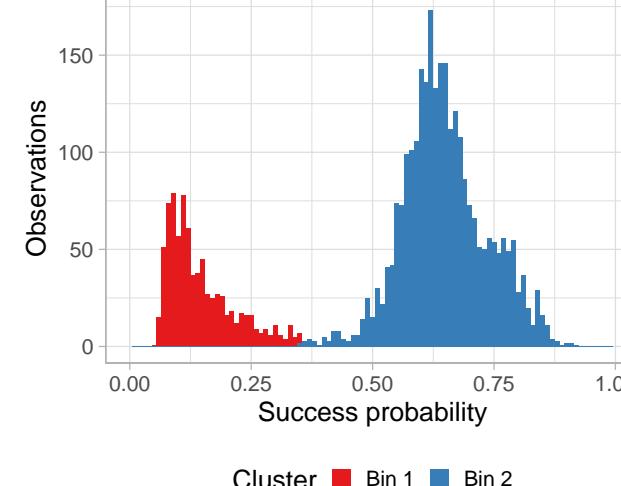
N = 3537; Tail 0%, C2 23.14%, C1 76.86%



MM ($\omega = 77$; $\epsilon = 6e-04$; SSE 2.070e-03) LV > 0

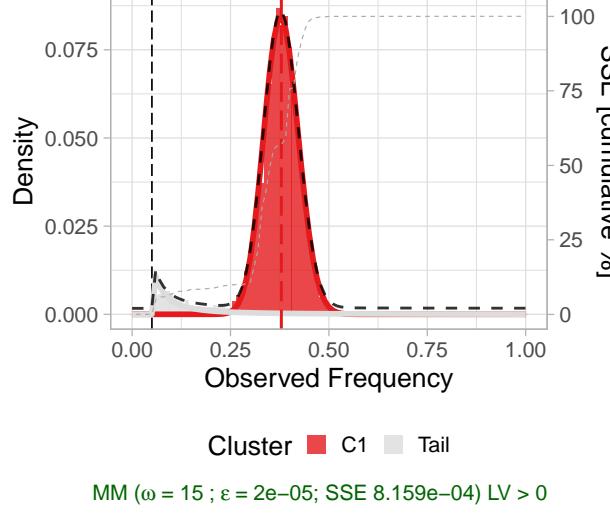
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

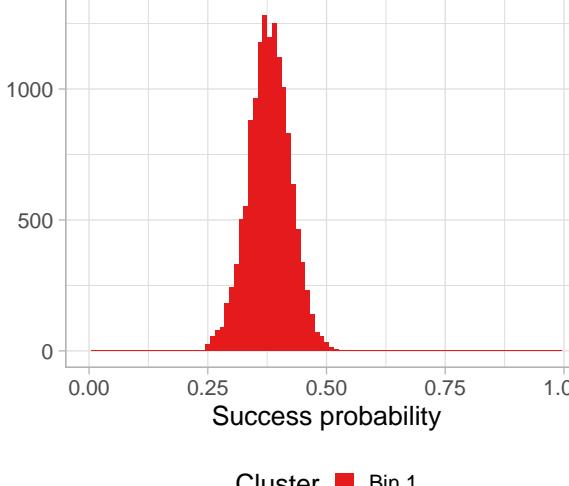
N = 14796; Tail 7.74%, C1 92.26%



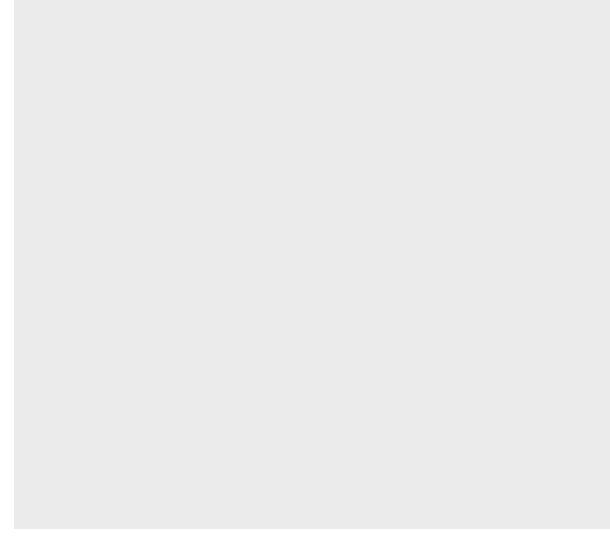
MM ($\omega = 15$; $\epsilon = 2e-05$; SSE 8.159e-04) LV > 0

Karyotype: 1:1

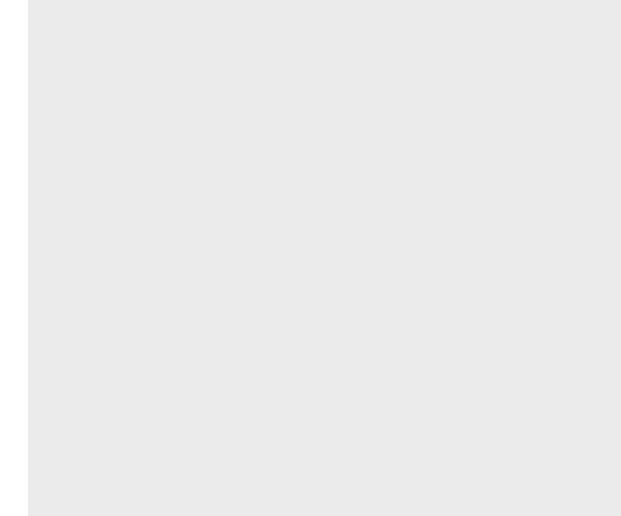
$K_B = 1$, $K_{BB} = 0$



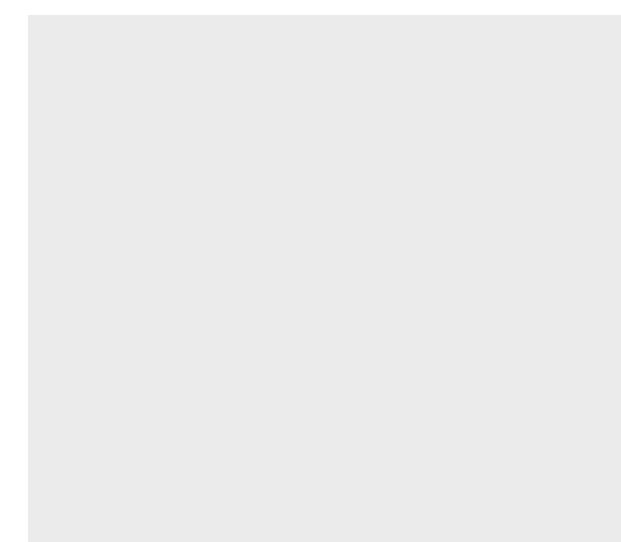
2:1



2:0



2:2

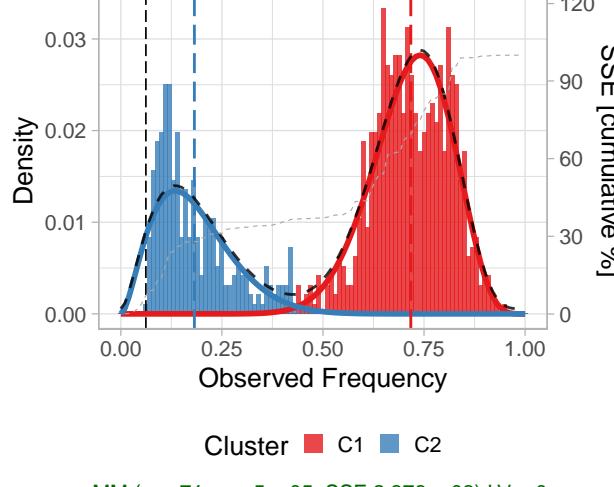


161022_HMFregCPCT_FR12244700_FR12244338_CPCT02010415

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

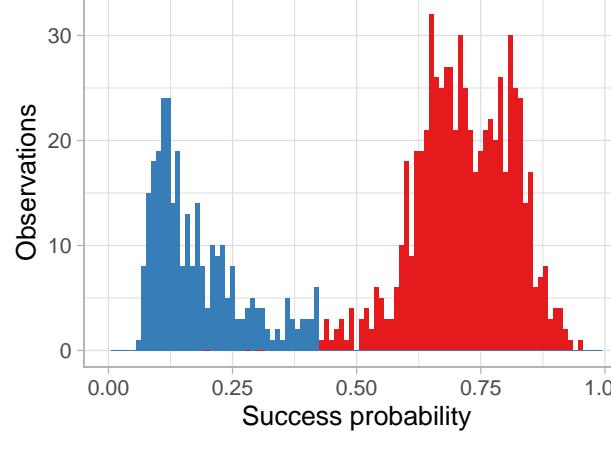
N = 959; Tail 0%, C2 30.65%, C1 69.35%



MM ($\omega = 71$; $\epsilon = 5e-05$; SSE 2.376e-03) LV > 0

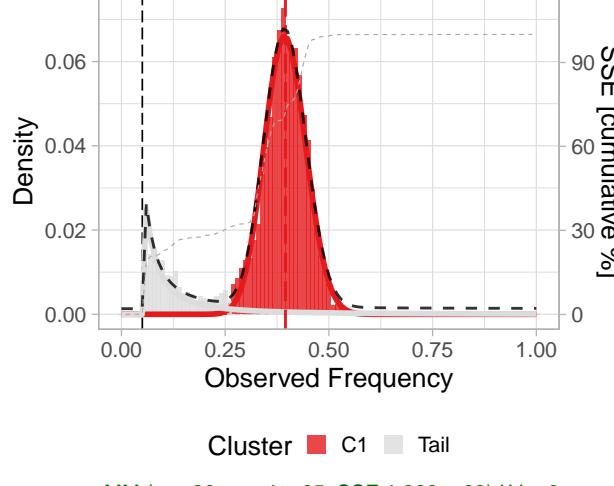
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

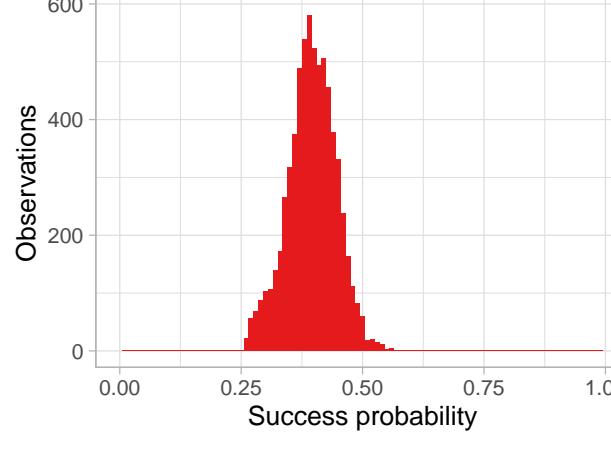
N = 8003; Tail 17.33%, C1 82.67%



MM ($\omega = 20$; $\epsilon = 4e-05$; SSE 1.388e-03) LV > 0

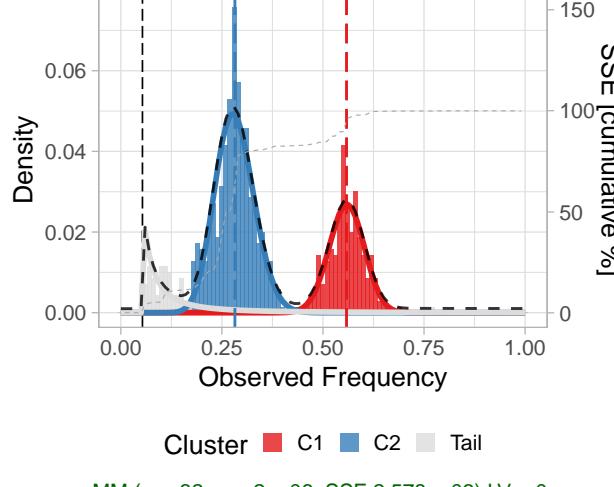
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

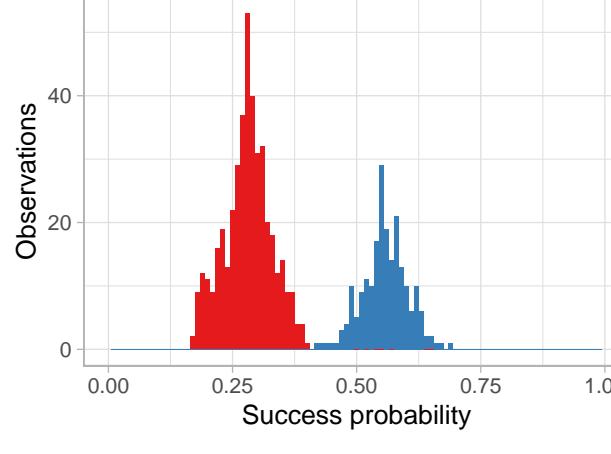
N = 699; Tail 11.6%, C1 29.18%, C2 59.22%



MM ($\omega = 32$; $\epsilon = 2e-06$; SSE 2.578e-03) LV > 0

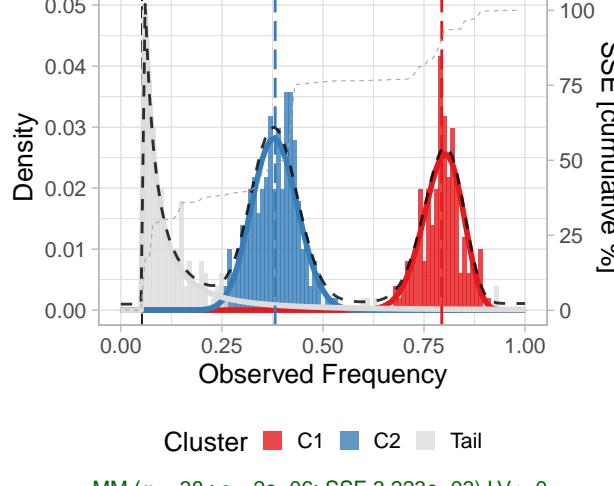
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

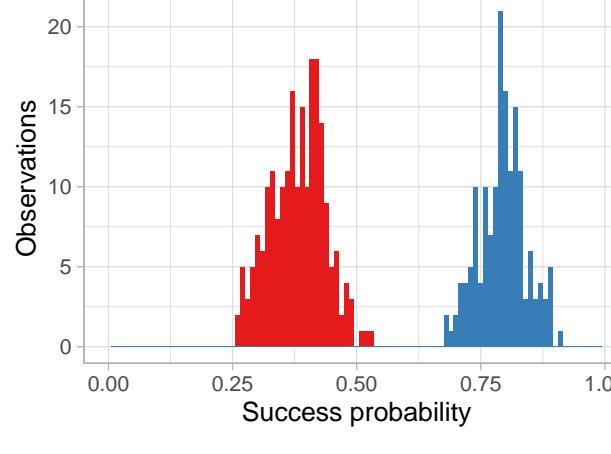
N = 504; Tail 28.93%, C1 31.25%, C2 39.82%



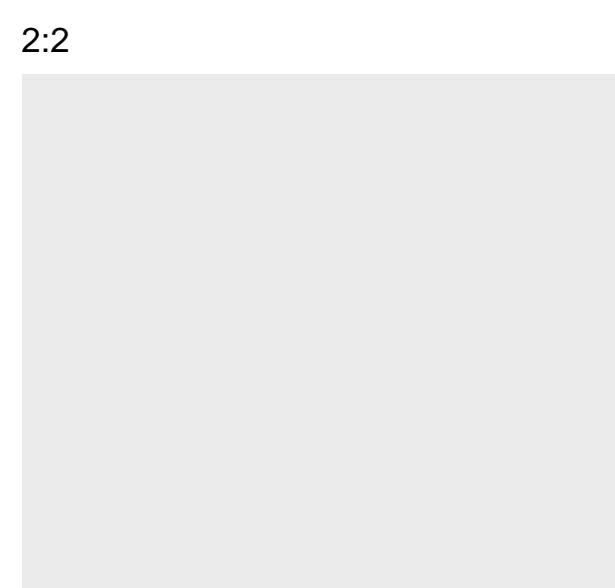
MM ($\omega = 38$; $\epsilon = 2e-06$; SSE 3.223e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

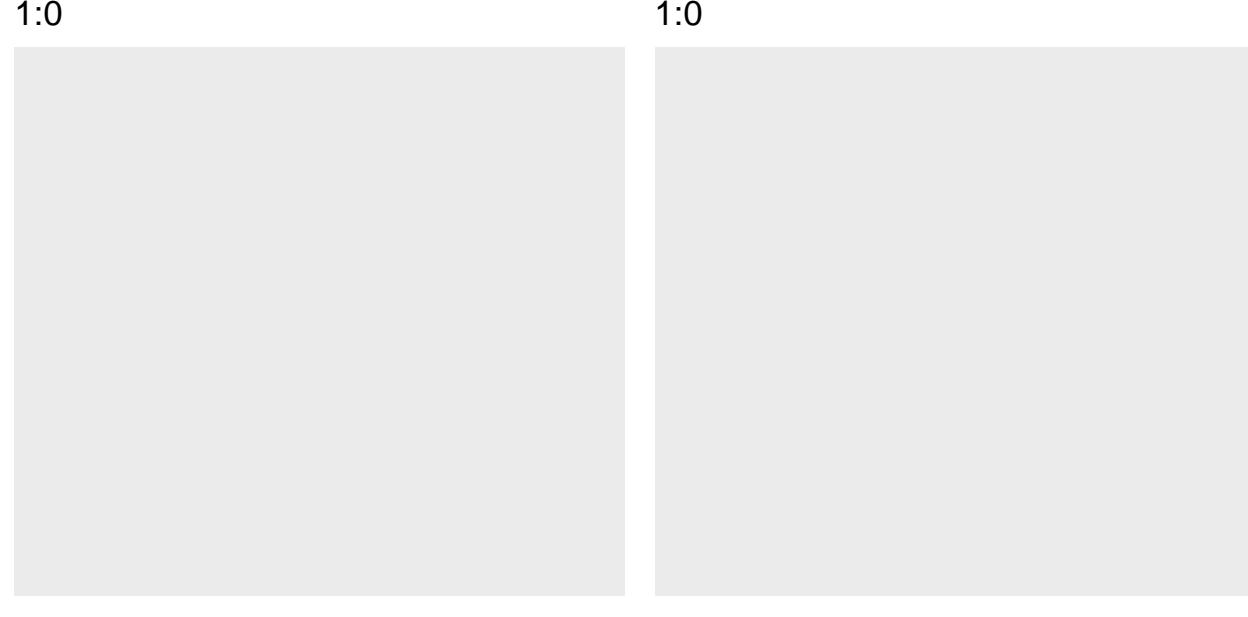


2:2



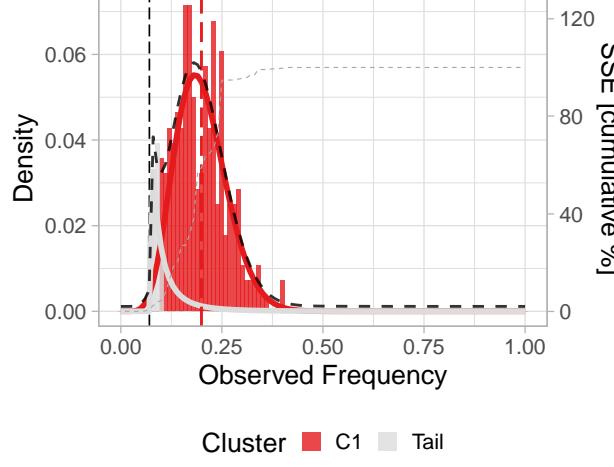
161022_HMFregCPCT_FR12244707_FR12244333_CPCT02070020

ONLY SNVs (min 150 – max 50000)



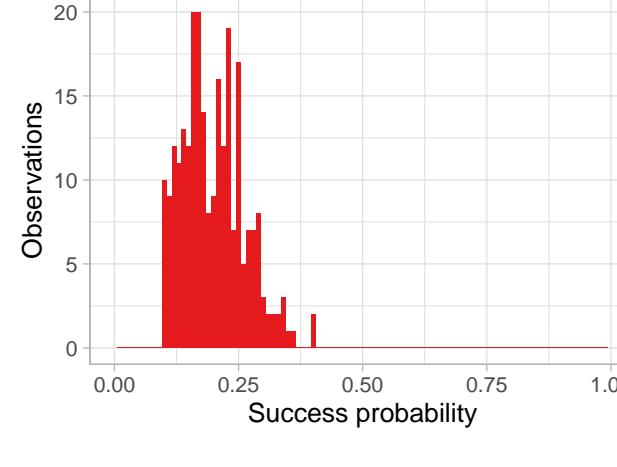
Karyotype: 1:1

N = 280; Tail 13.97%, C1 86.03%



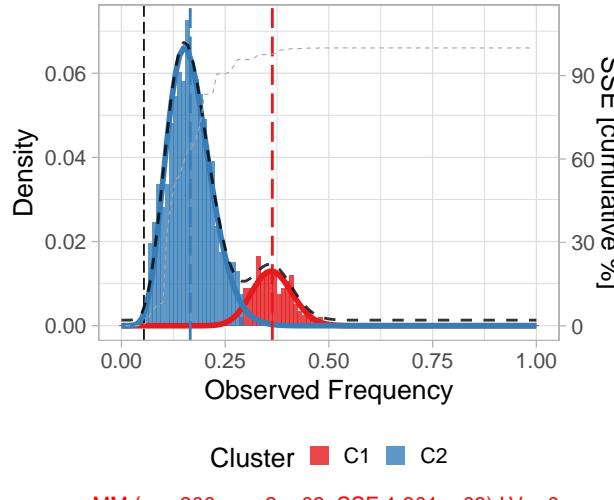
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



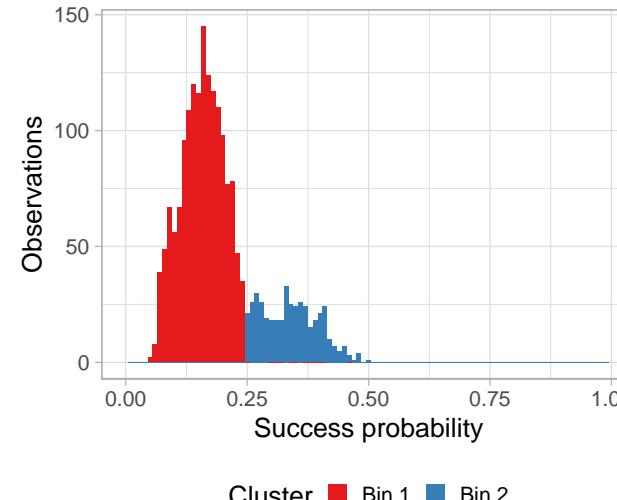
Karyotype: 2:1

N = 1995; Tail 0%, C1 15.7%, C2 84.3%



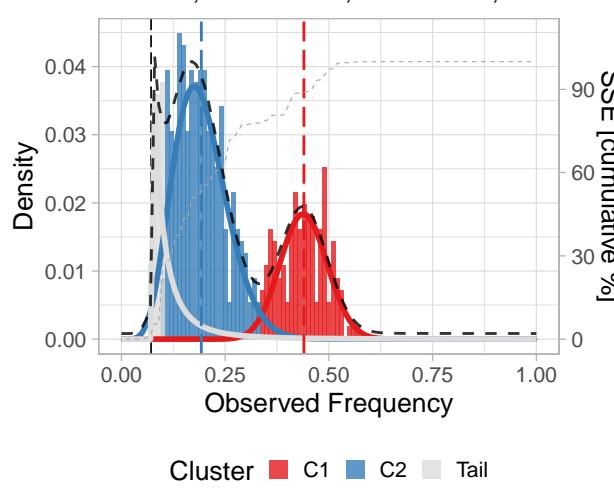
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



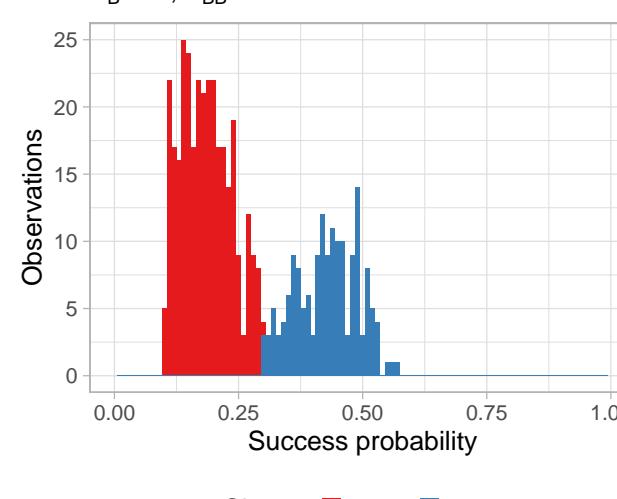
Karyotype: 2:0

N = 557; Tail 15.54%, C1 25.99%, C2 58.47%



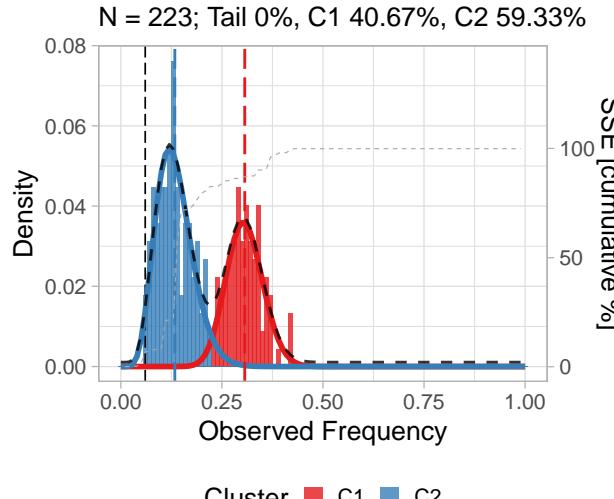
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



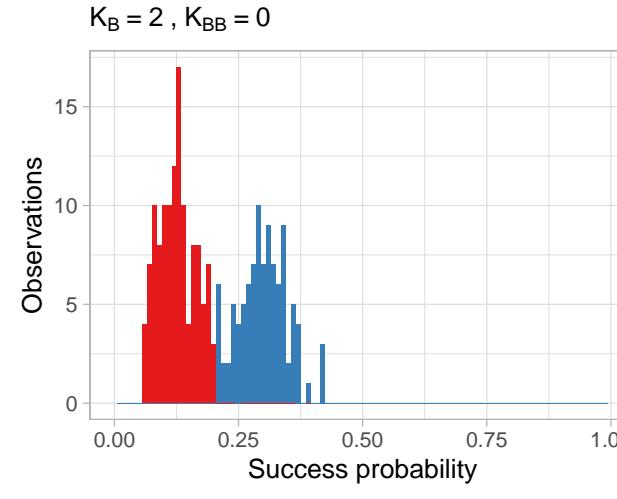
Karyotype: 2:2

N = 223; Tail 0%, C1 40.67%, C2 59.33%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

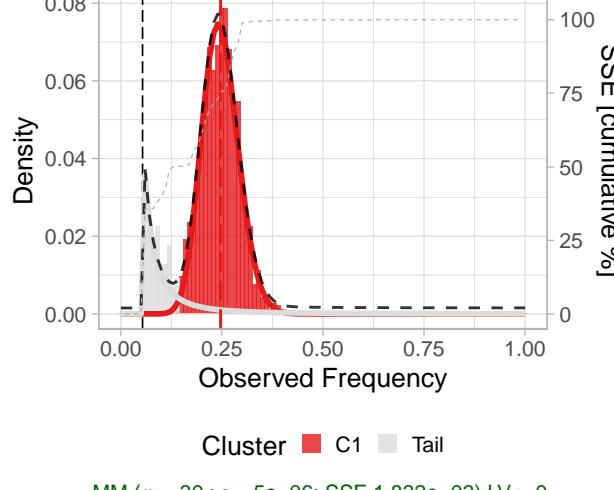


161022_HMFregCPCT_FR12244725_FR12244336_CPCT02010419

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

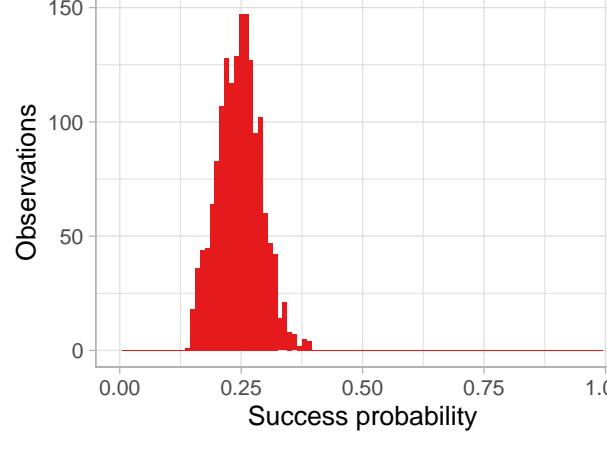
N = 1867; Tail 16.74%, C1 83.26%



MM ($\omega = 30$; $\epsilon = 5e-06$; SSE $1.832e-03$) LV > 0

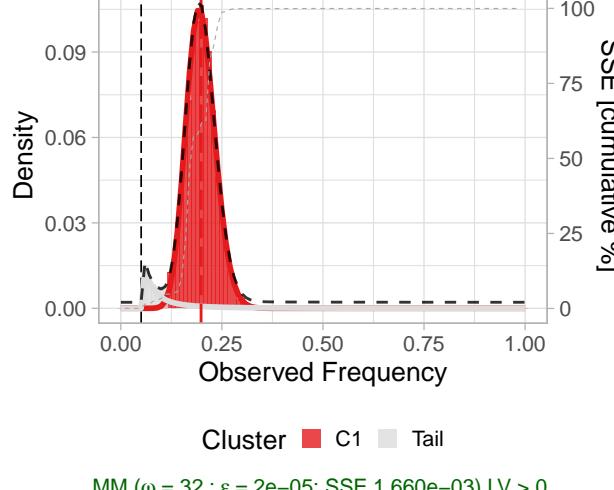
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

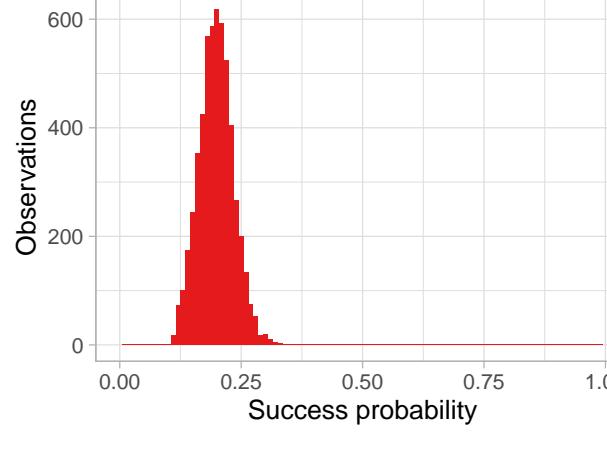
N = 5809; Tail 7.25%, C1 92.75%



MM ($\omega = 32$; $\epsilon = 2e-05$; SSE $1.660e-03$) LV > 0

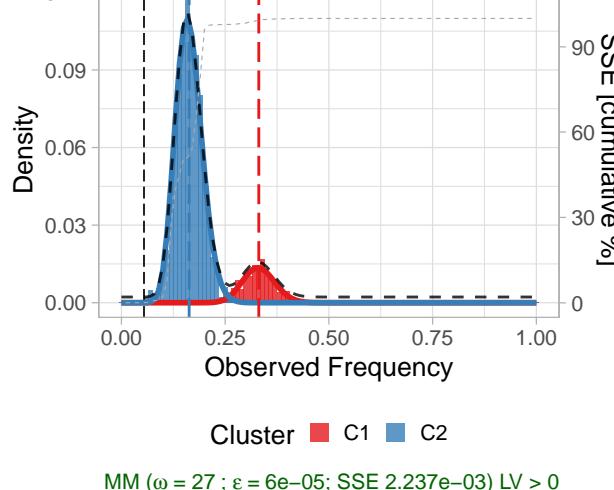
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

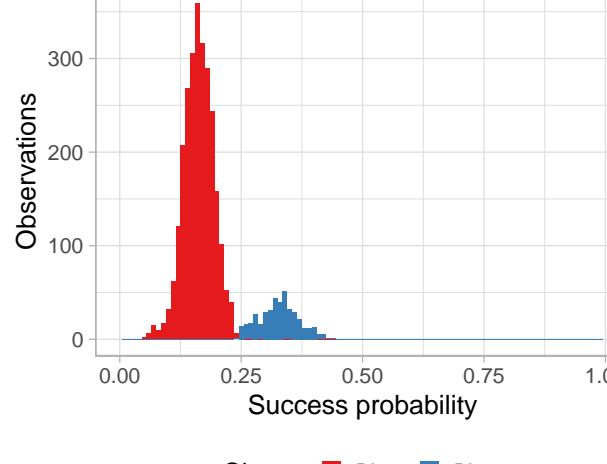
N = 3036; Tail 0%, C1 13.04%, C2 86.96%



MM ($\omega = 27$; $\epsilon = 6e-05$; SSE $2.237e-03$) LV > 0

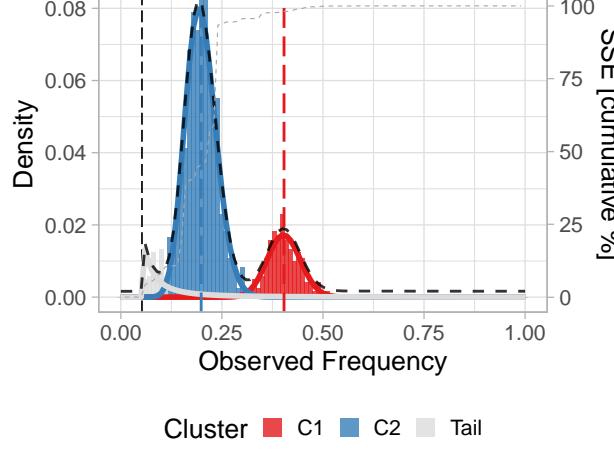
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

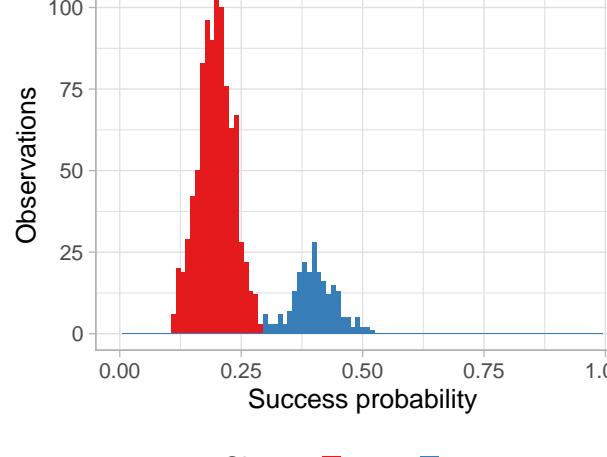
N = 1216; Tail 7.07%, C1 17.57%, C2 75.35%



MM ($\omega = 33$; $\epsilon = 5e-06$; SSE $1.956e-03$) LV > 0

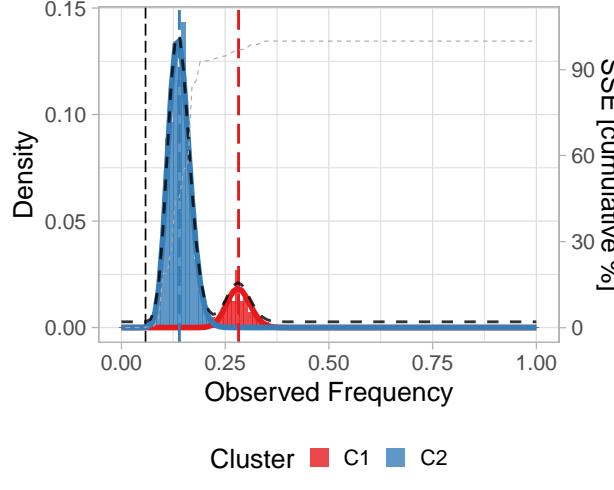
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

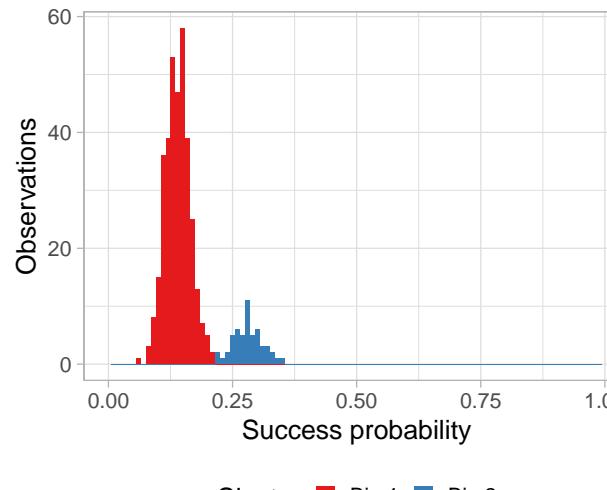
N = 404; Tail 0%, C1 12.83%, C2 87.17%



MM ($\omega = 22$; $\epsilon = 7e-06$; SSE $2.746e-03$) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

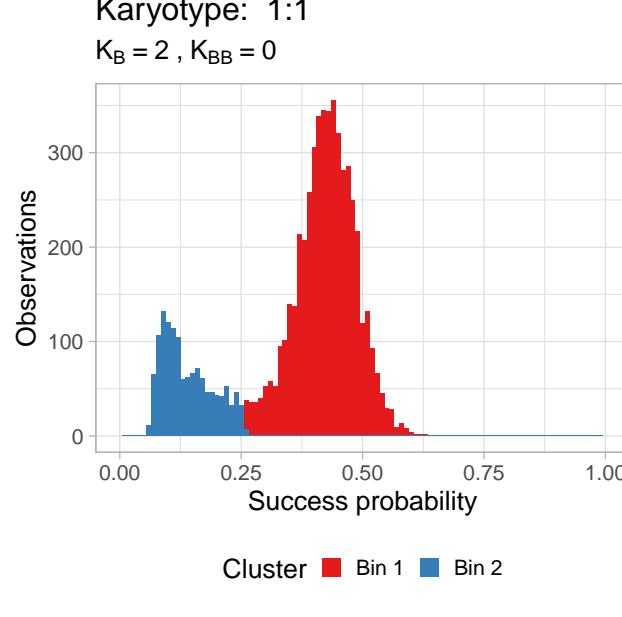
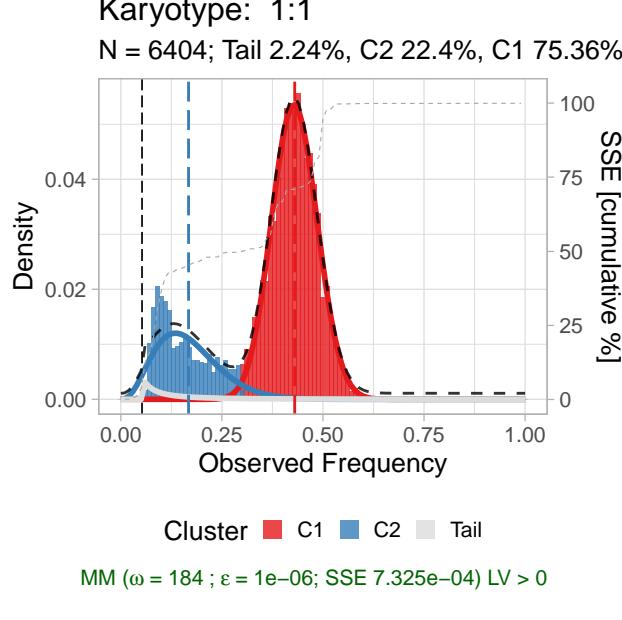


161022_HMFregCPCT_FR12244737_FR12244339_CPCT02080033

ONLY SNVs (min 150 – max 50000)

1:0

1:0



2:1

2:1

2:0

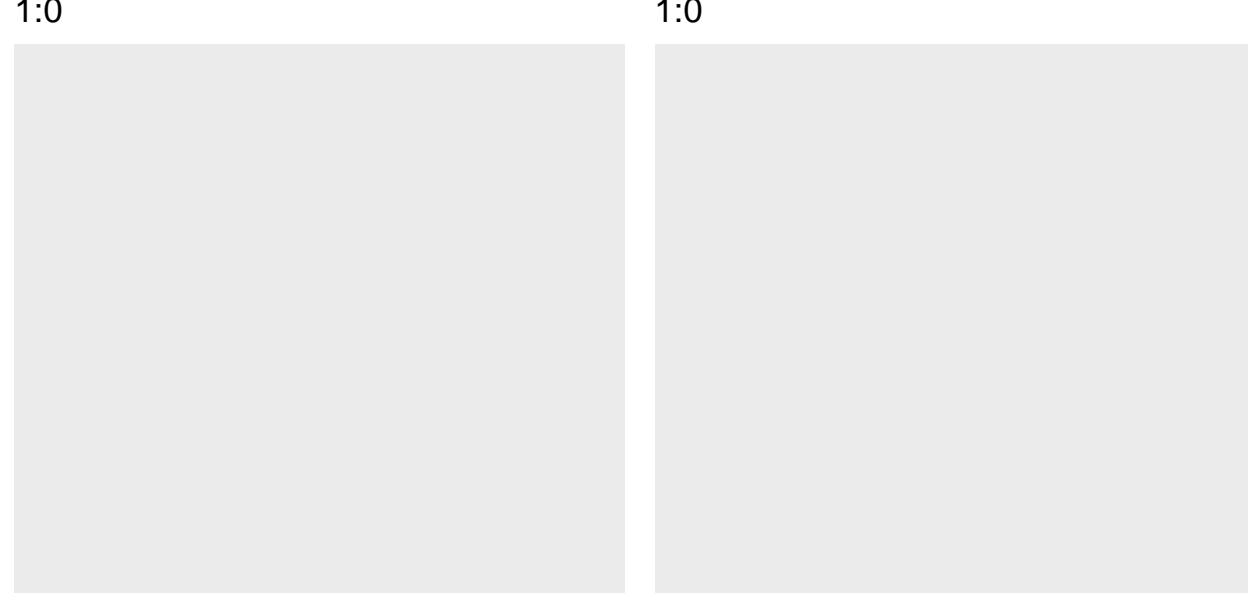
2:0

2:2

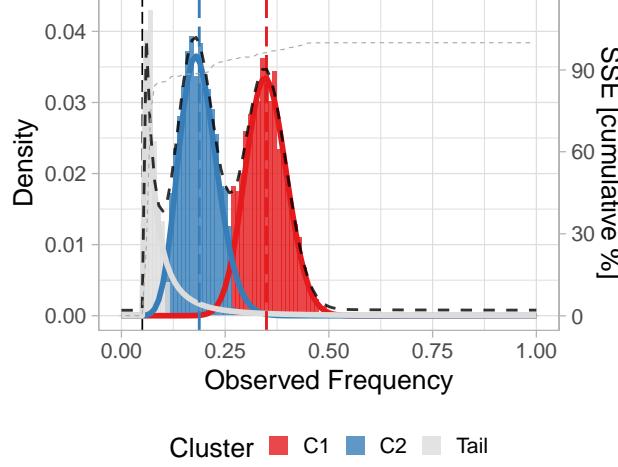
2:2

161022_HMFregCPCT_FR12244738_FR12244347_CPCT02040043

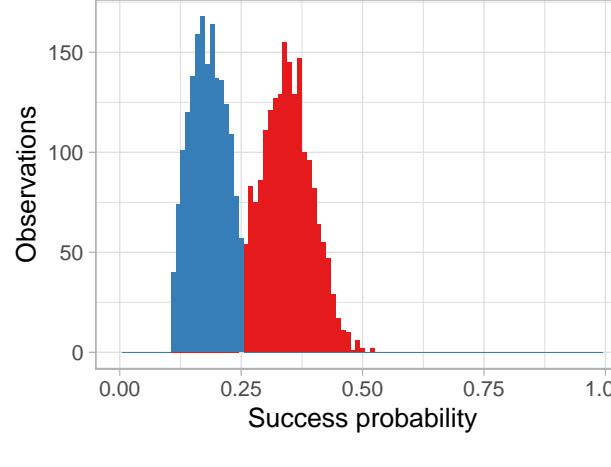
ONLY SNVs (min 150 – max 50000)



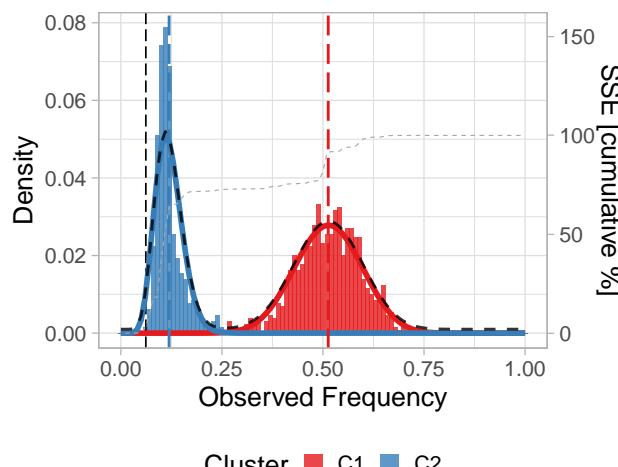
Karyotype: 2:0
N = 4277; Tail 17.74%, C2 40.98%, C1 41.29%



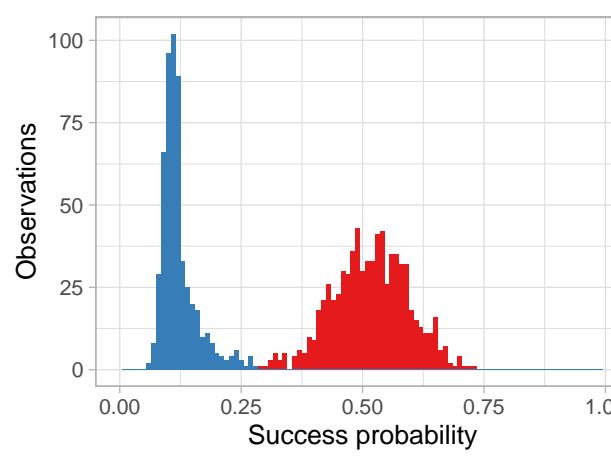
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



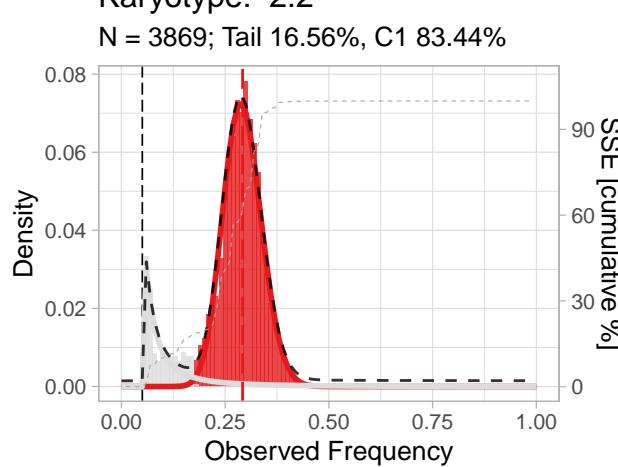
Karyotype: 2:0
N = 1294; Tail 0%, C2 41.75%, C1 58.25%



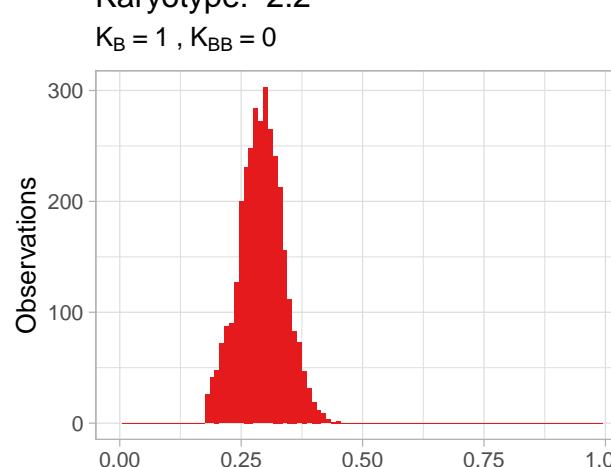
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 3869; Tail 16.56%, C1 83.44%



Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

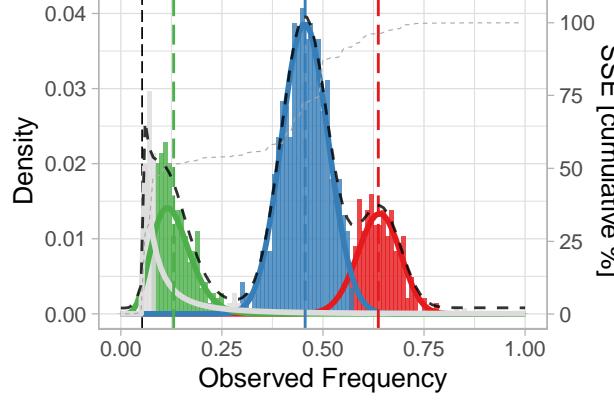


161023_HMFregCPCT_FR12244714_FR12244334_CPCT02070021

ONLY SNVs (min 150 – max 50000)

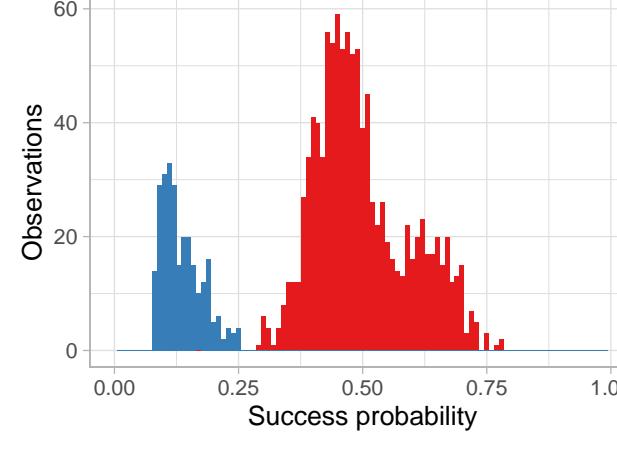
Karyotype: 1:0

N = 1449; Tail 10.54%, C3 16.46%, C1 17.59%



Karyotype: 1:0

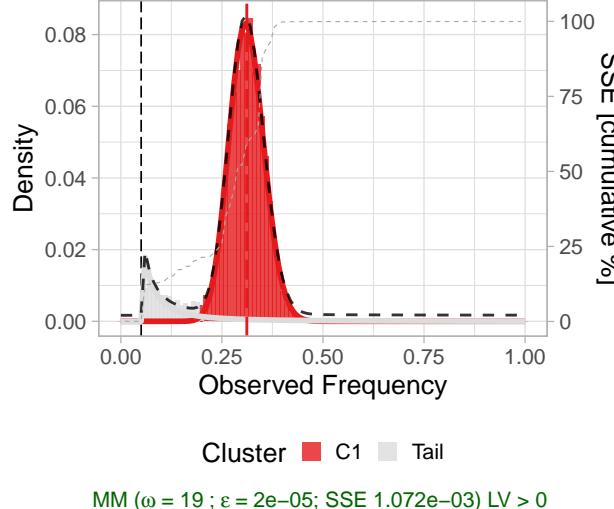
$K_B = 2, K_{BB} = 0$



MM ($\omega = 174$; $\epsilon = 1e-07$; SSE 1.301e-03) LV > 0

Karyotype: 1:1

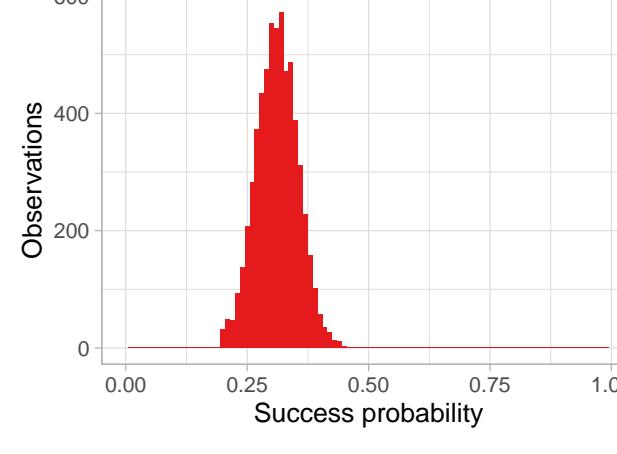
N = 6780; Tail 11.35%, C1 88.65%



Cluster Bin 1 (red), Bin 2 (blue)

Karyotype: 1:1

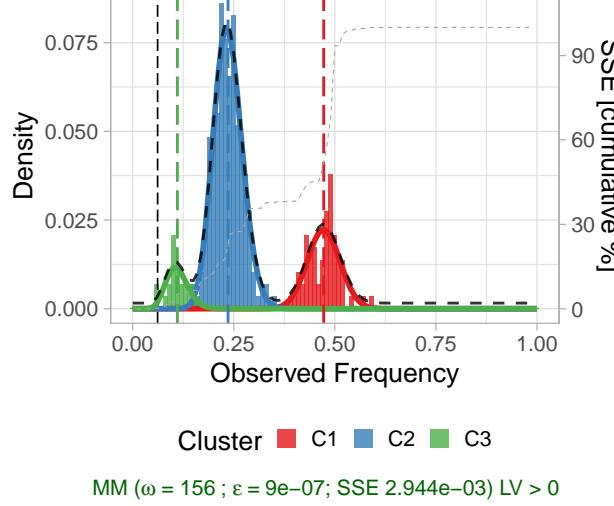
$K_B = 1, K_{BB} = 0$



MM ($\omega = 19$; $\epsilon = 2e-05$; SSE 1.072e-03) LV > 0

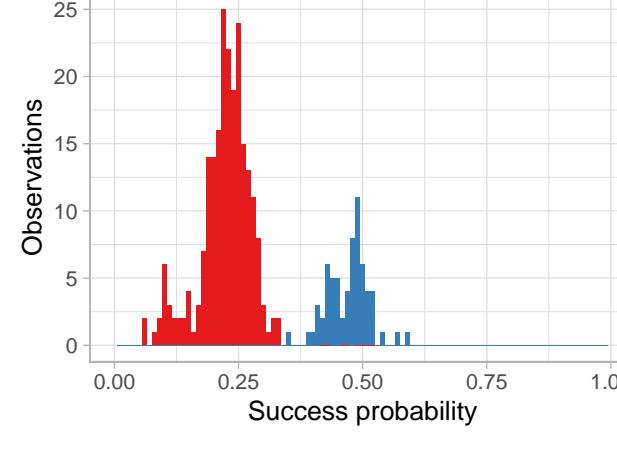
Karyotype: 2:1

N = 290; Tail 0%, C3 7.73%, C1 22.5%, C2 6



Karyotype: 2:1

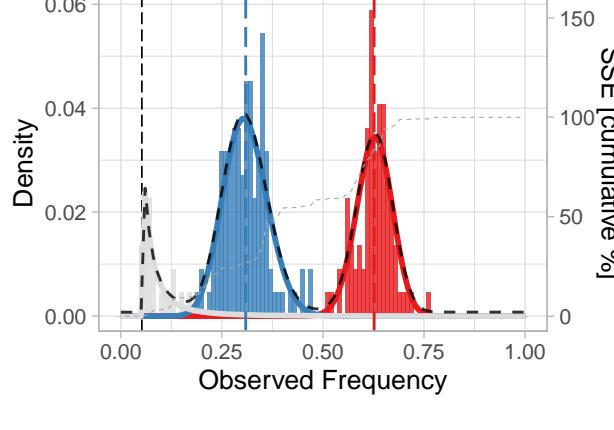
$K_B = 2, K_{BB} = 0$



MM ($\omega = 156$; $\epsilon = 9e-07$; SSE 2.944e-03) LV > 0

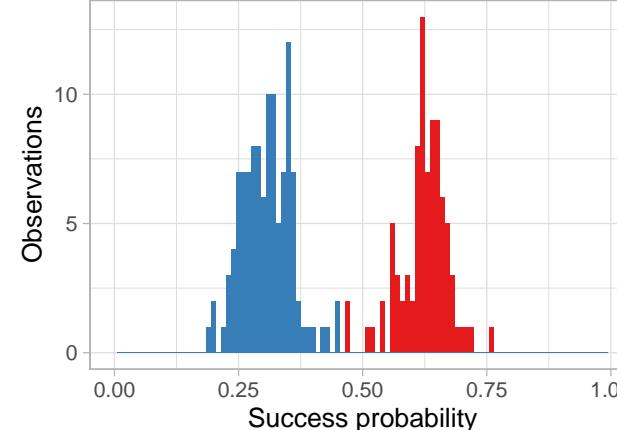
Karyotype: 2:0

N = 221; Tail 10.35%, C1 37.92%, C2 51.73%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



MM ($\omega = 51$; $\epsilon = 4e-07$; SSE 2.481e-03) LV > 0

Cluster C1 (red), C2 (blue), Tail (grey)

Cluster Bin 1 (red), Bin 2 (blue)

2:2

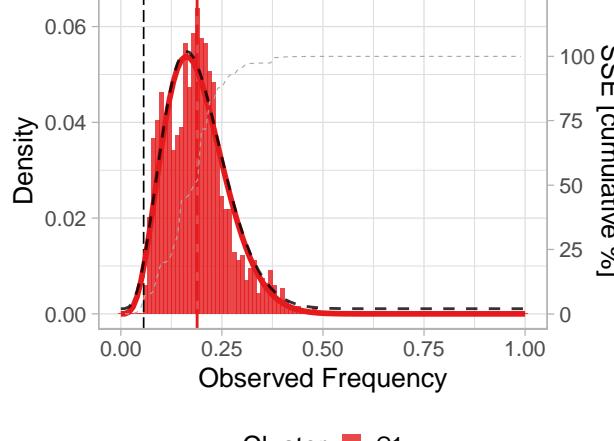
2:2

161024_HMFregCPCT_FR10302745_FR10245413_CPCT02050051

ONLY SNVs (min 150 – max 50000)

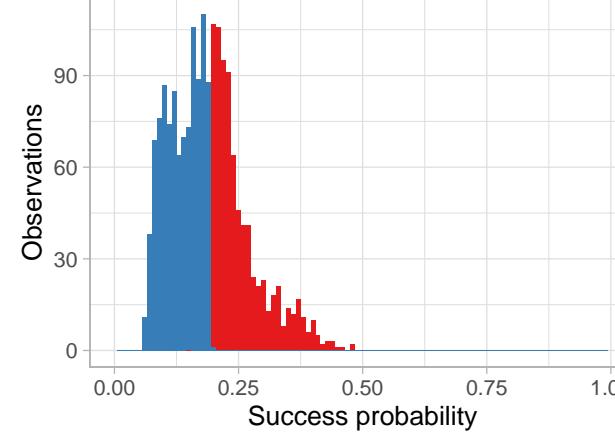
Karyotype: 1:0

N = 1879; Tail 0%, C1 100%



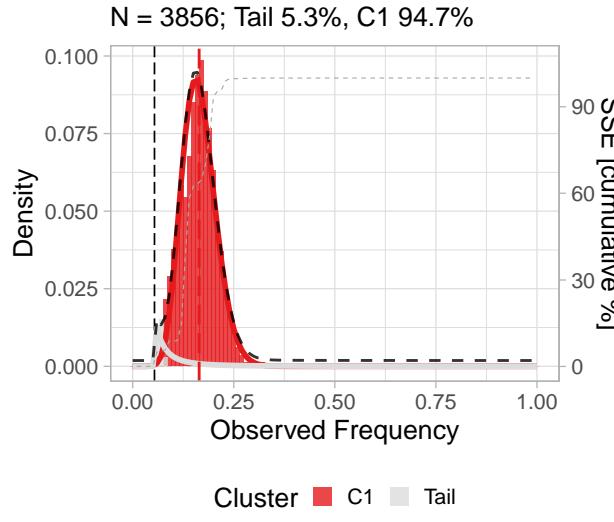
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



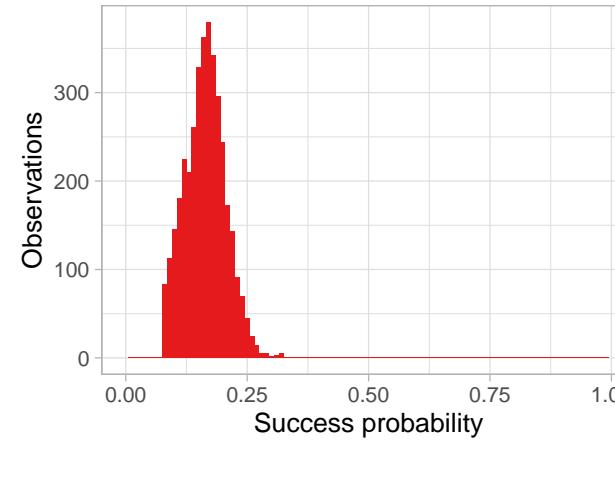
Karyotype: 1:1

N = 3856; Tail 5.3%, C1 94.7%



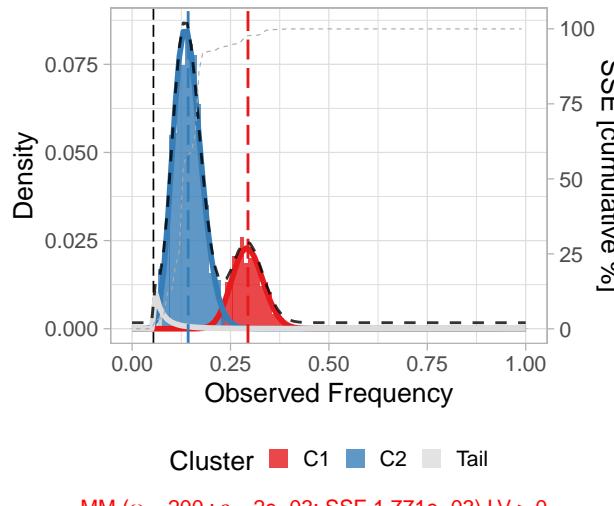
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



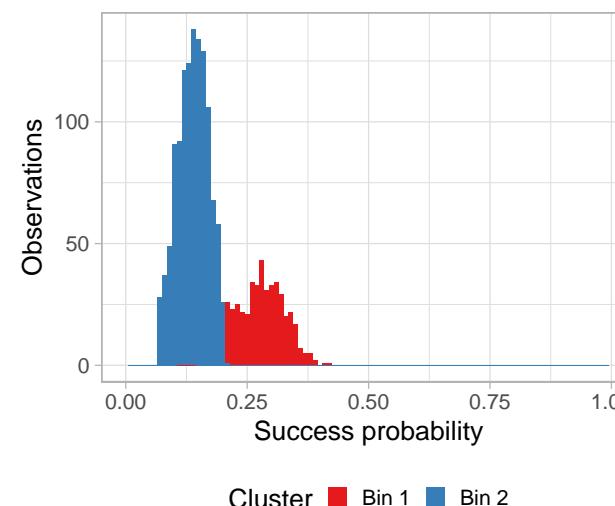
Karyotype: 2:1

N = 1661; Tail 3.31%, C1 22.52%, C2 74.18%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 200$; $\epsilon = 2e-03$; SSE 1.771e-03) LV > 0

2:0

2:2

Cluster ■ Bin 1 ■ Bin 2

Cluster ■ Bin 1 ■ Bin 2

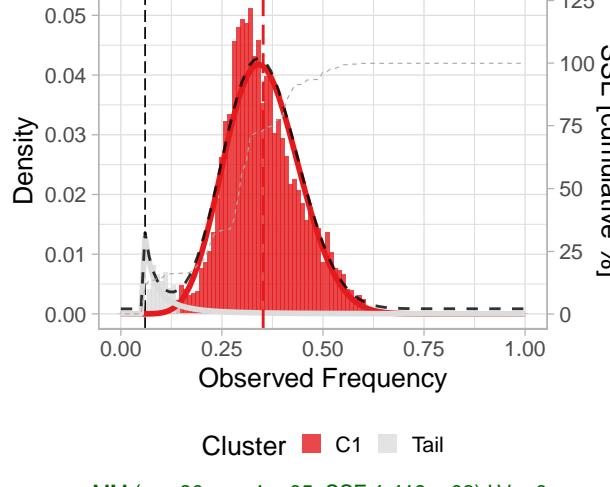
Cluster ■ Bin 1 ■ Bin 2

161024_HMFregCPCT_FR10304577_FR10245414_CPCT02050052

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

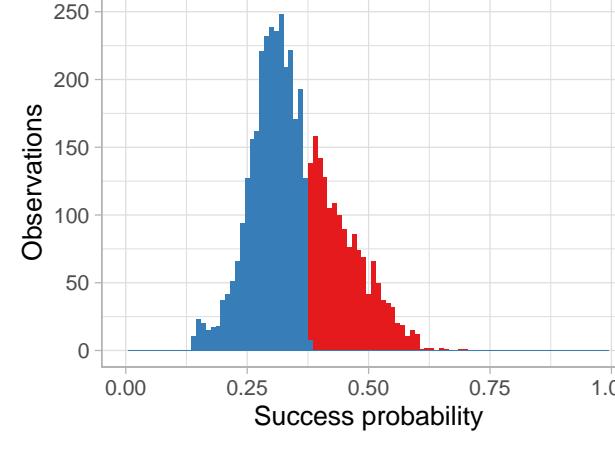
N = 4842; Tail 5.17%, C1 94.83%



MM ($\omega = 30$; $\varepsilon = 1e-05$; SSE $1.419e-03$) LV > 0

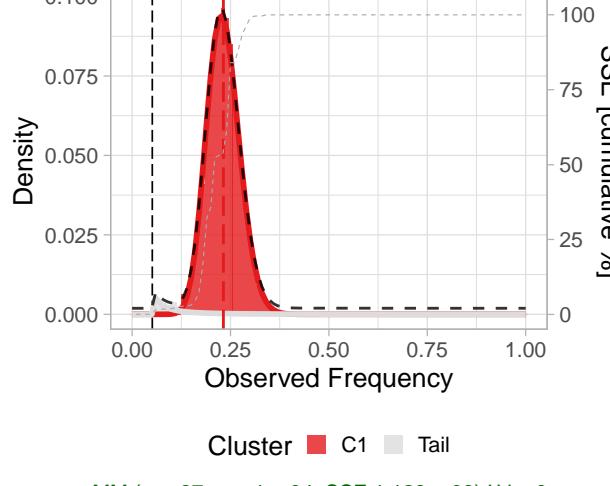
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

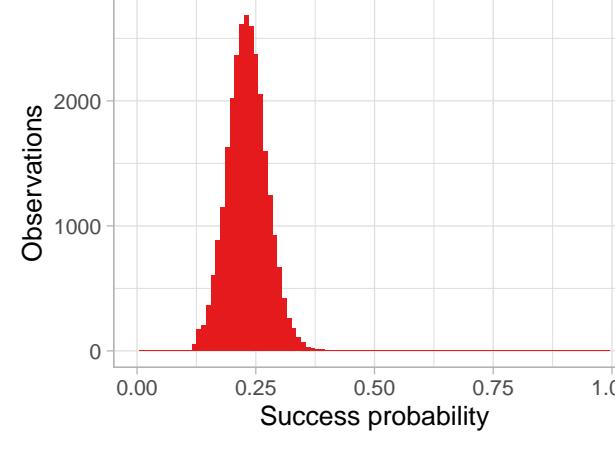
N = 27934; Tail 2.93%, C1 97.07%



MM ($\omega = 27$; $\varepsilon = 1e-04$; SSE $1.128e-03$) LV > 0

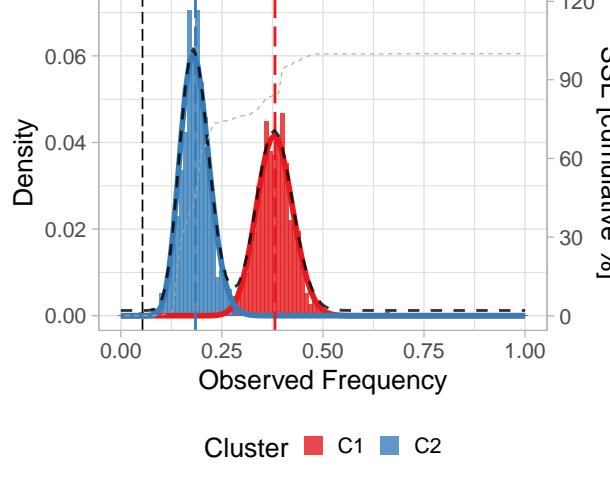
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

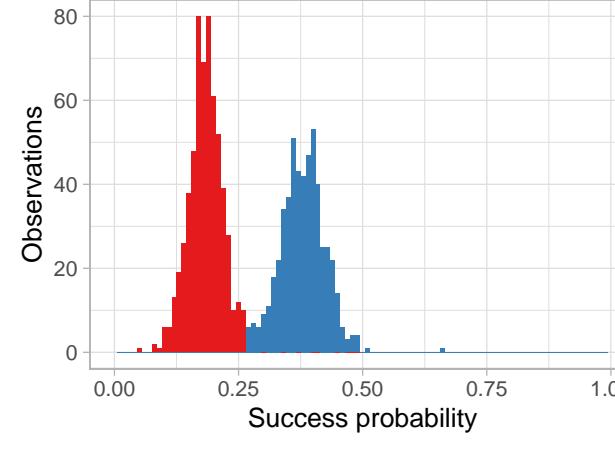
N = 1133; Tail 0%, C1 46.07%, C2 53.93%



MM ($\omega = 35$; $\varepsilon = 2e-05$; SSE $1.558e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

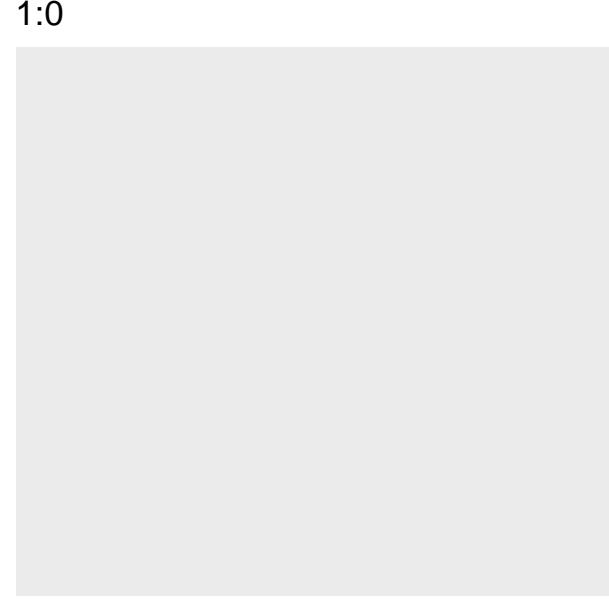
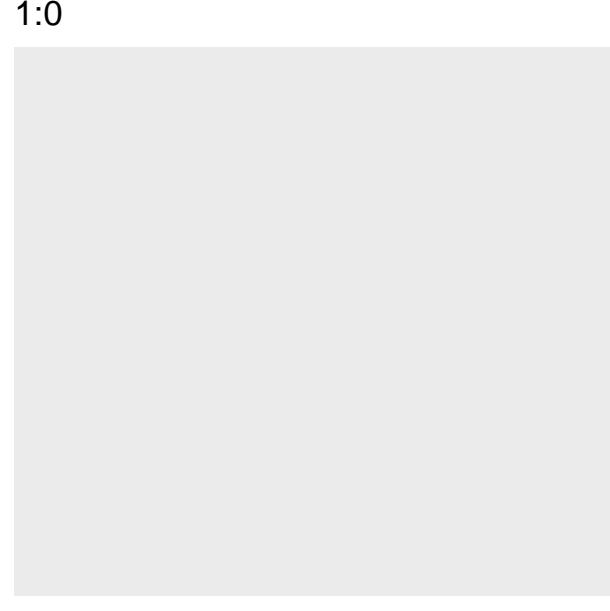
2:0

2:2

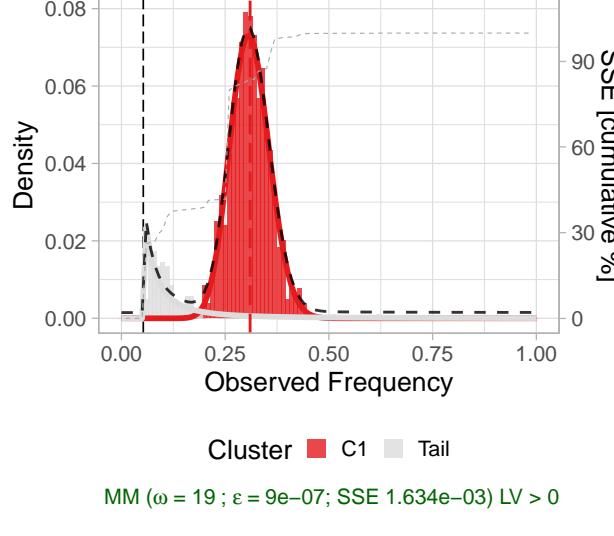
2:2

161024_HMFregCPCT_FR12251944_FR10245415_CPCT02050053

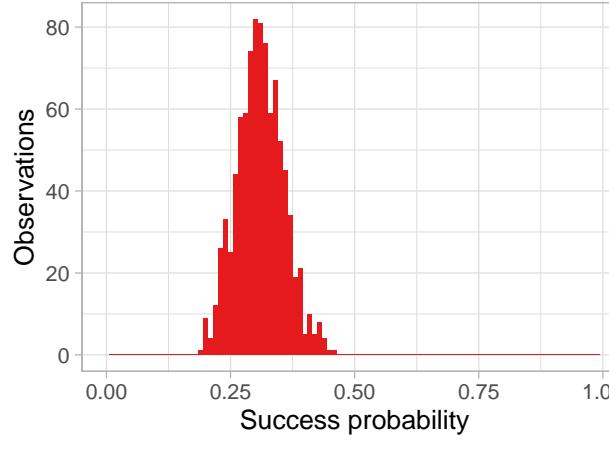
ONLY SNVs (min 150 – max 50000)



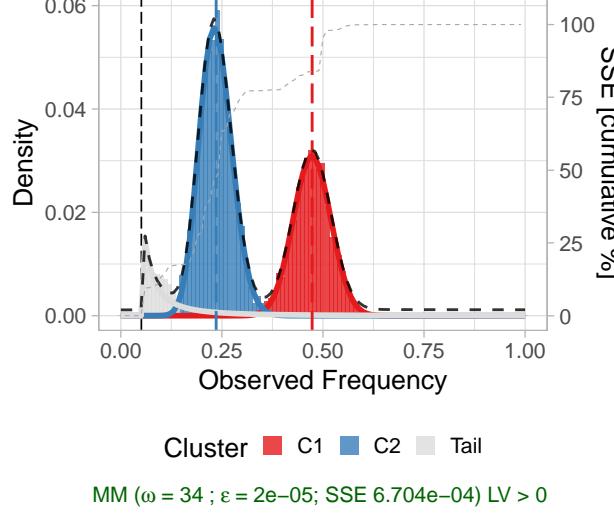
Karyotype: 1:1
N = 1038; Tail 13.38%, C1 86.62%



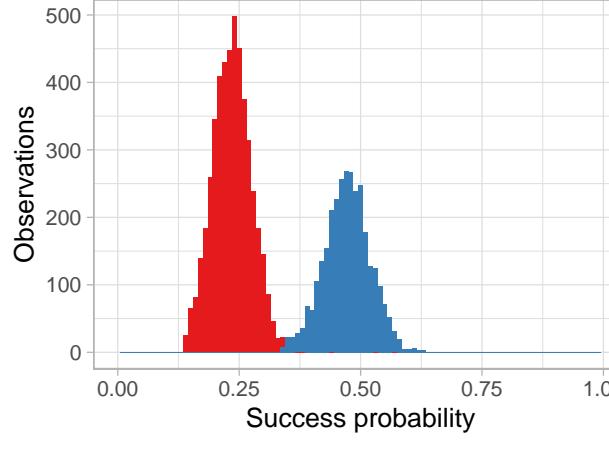
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



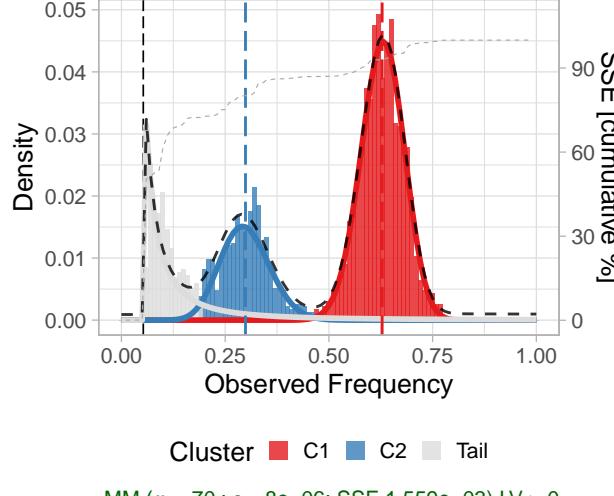
Karyotype: 2:1
N = 8416; Tail 8.32%, C1 35.94%, C2 55.75%



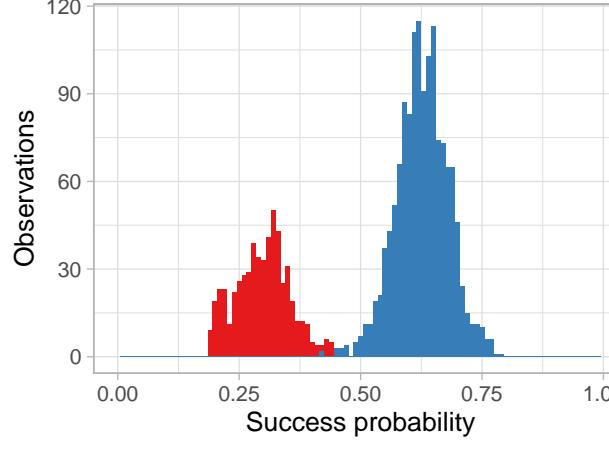
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



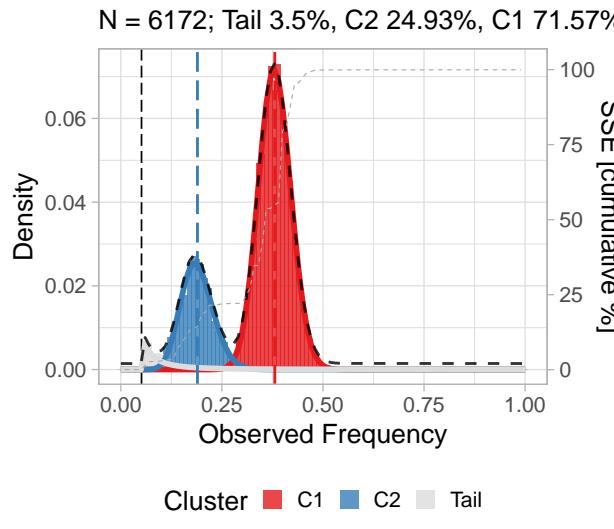
Karyotype: 2:0
N = 2334; Tail 18.99%, C2 22.3%, C1 58.71%



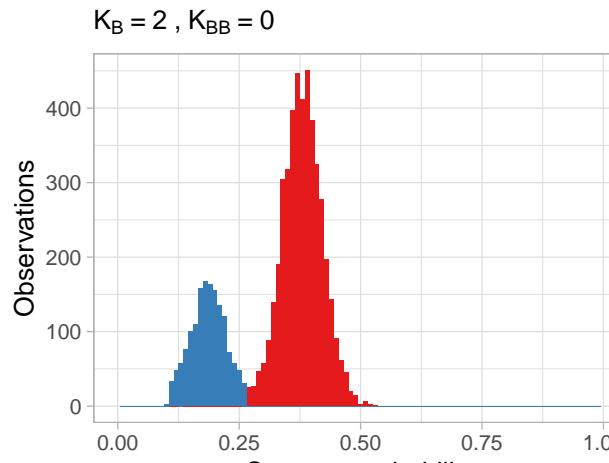
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 6172; Tail 3.5%, C2 24.93%, C1 71.57%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

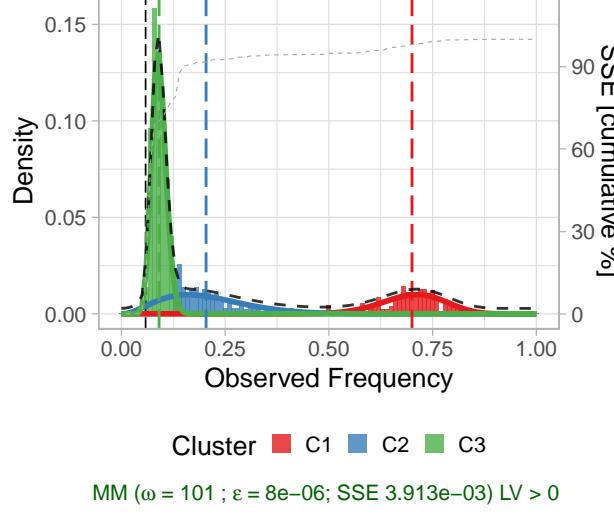


161024_HMFregCPCT_FR12254271_FR10245412_CPCT02030270

ONLY SNVs (min 150 – max 50000)

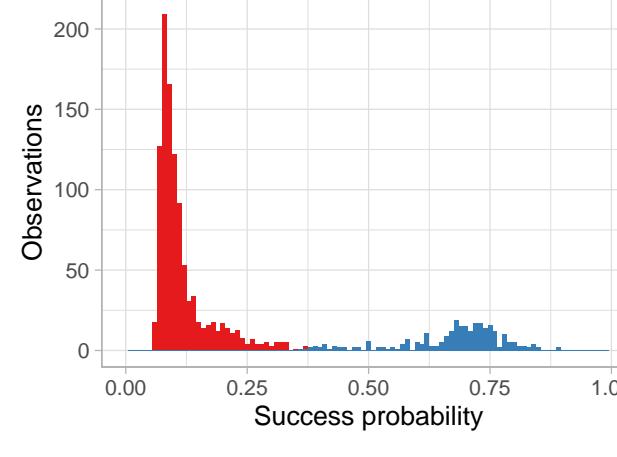
Karyotype: 1:0

N = 1319; Tail 0%, C1 18.92%, C2 23.99%, C:



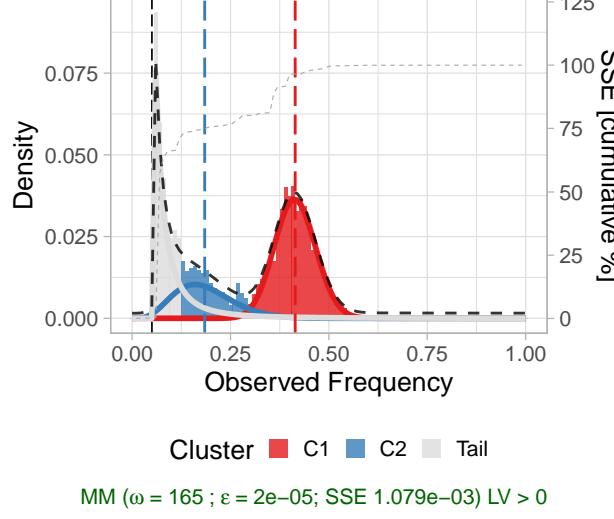
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



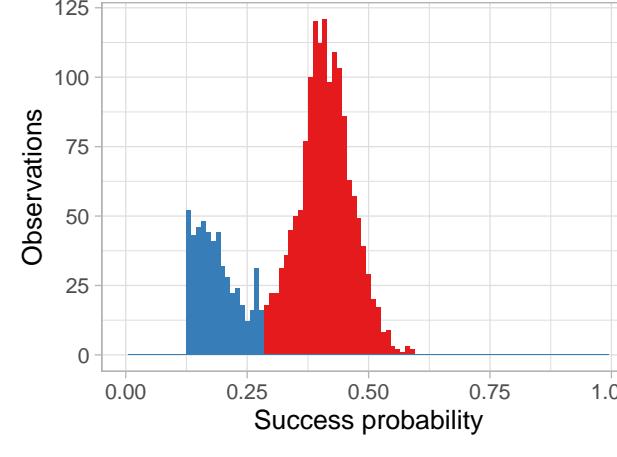
Karyotype: 1:1

N = 3004; C2 18.56%, Tail 33.96%, C1 47.48



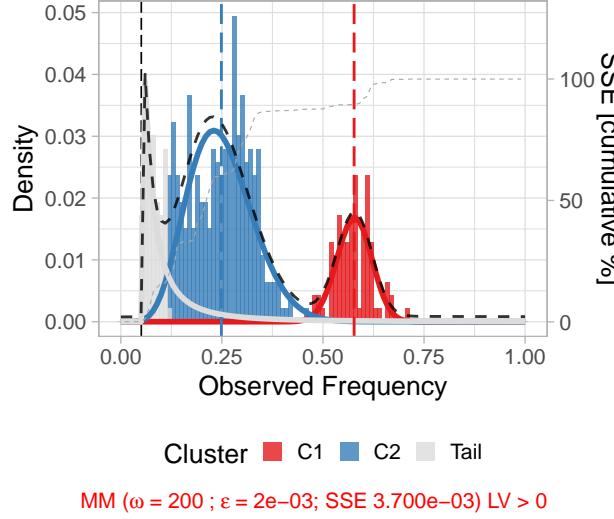
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



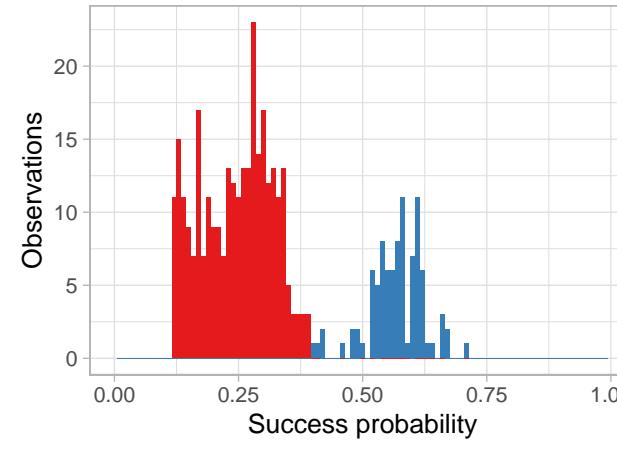
Karyotype: 2:1

N = 465; C1 18.16%, Tail 20.36%, C2 61.48%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

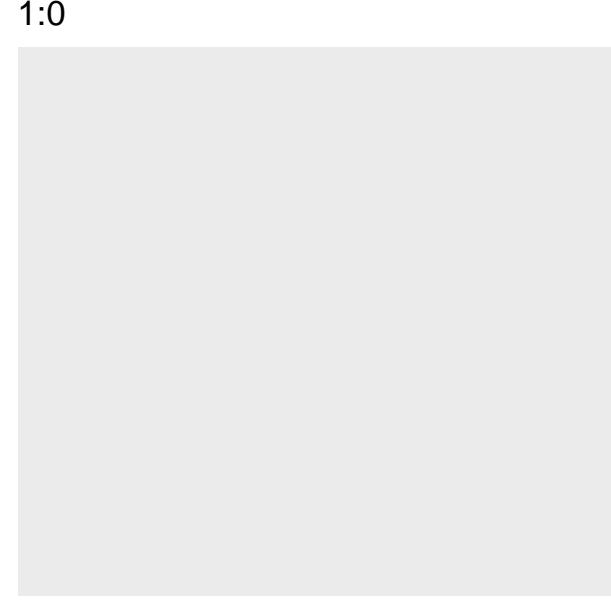
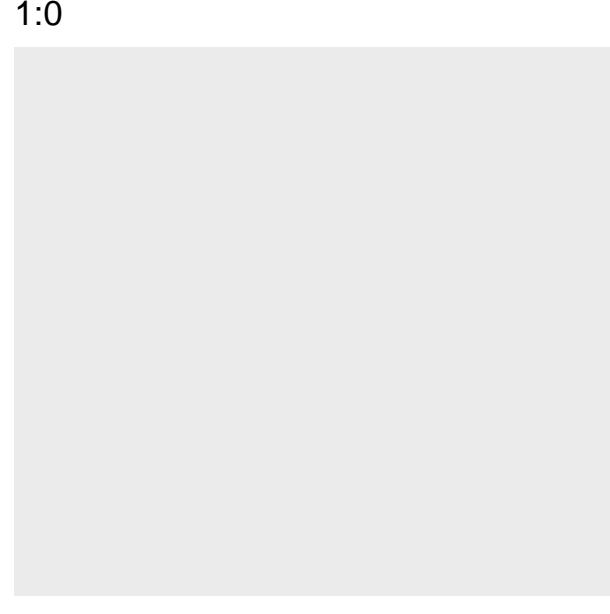
2:0

2:2

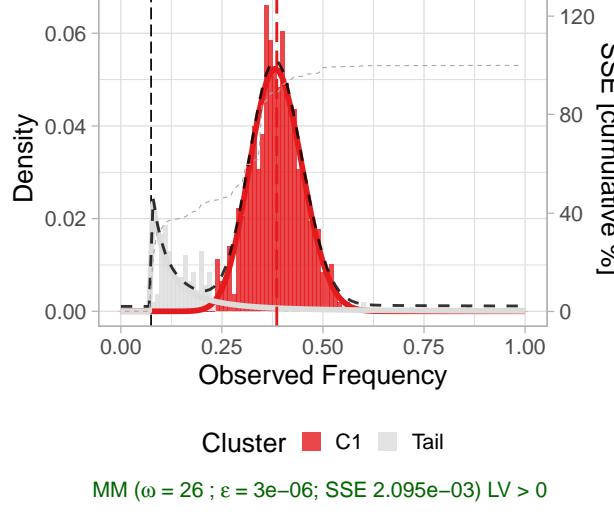
2:2

161025_HMFregCPCT_FR10304591_FR10245424_CPCT02110008

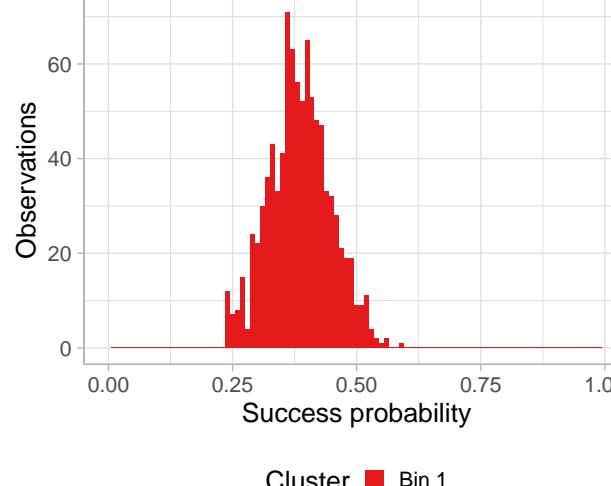
ONLY SNVs (min 150 – max 50000)



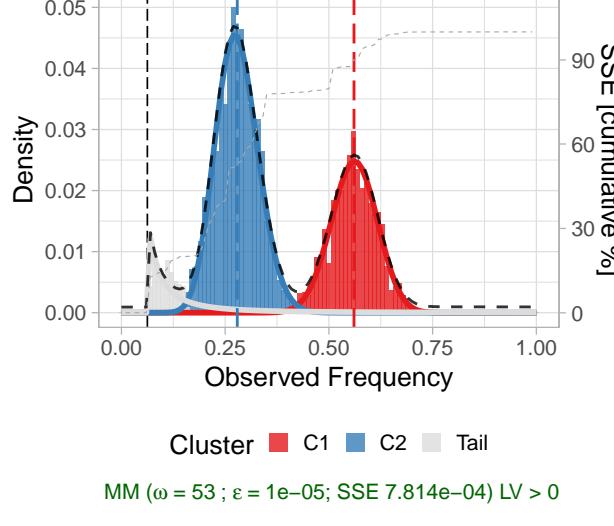
Karyotype: 1:1
N = 1076; Tail 16.36%, C1 83.64%



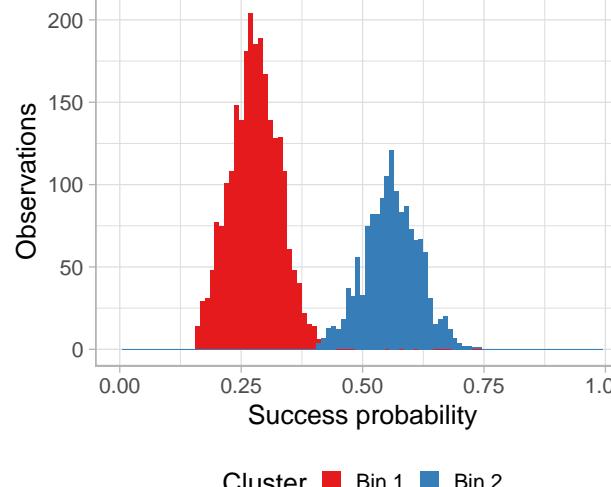
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



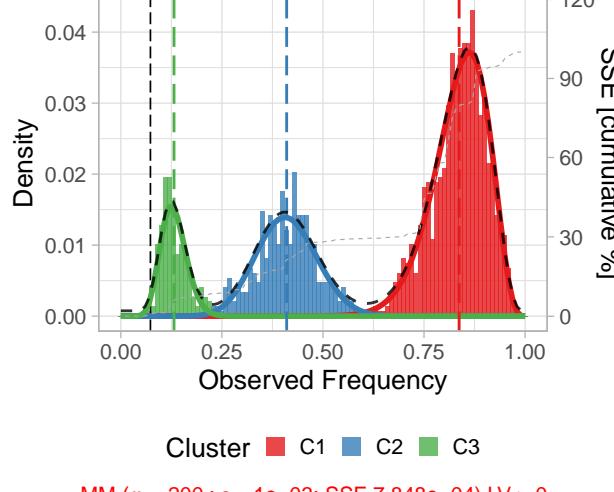
Karyotype: 2:1
N = 4074; Tail 7.63%, C1 34.39%, C2 57.98%



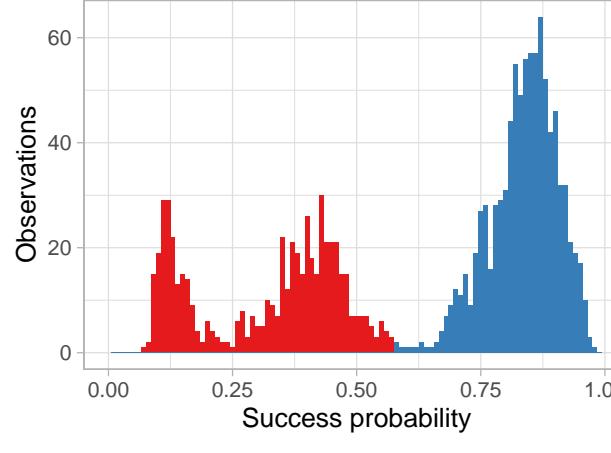
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



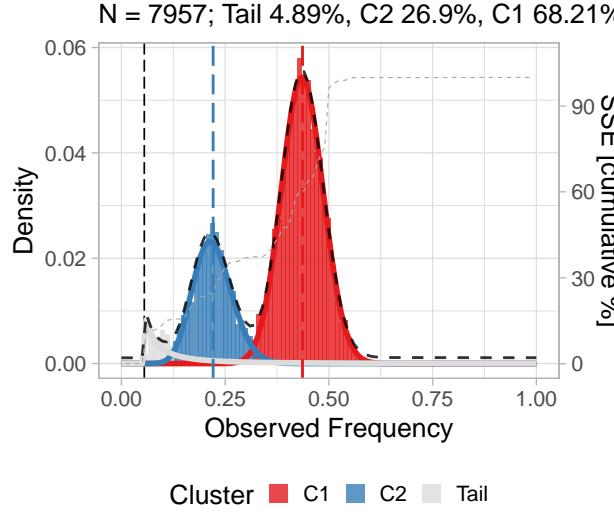
Karyotype: 2:0
N = 1486; Tail 0%, C3 12.17%, C2 26.26%, C1 61.57%



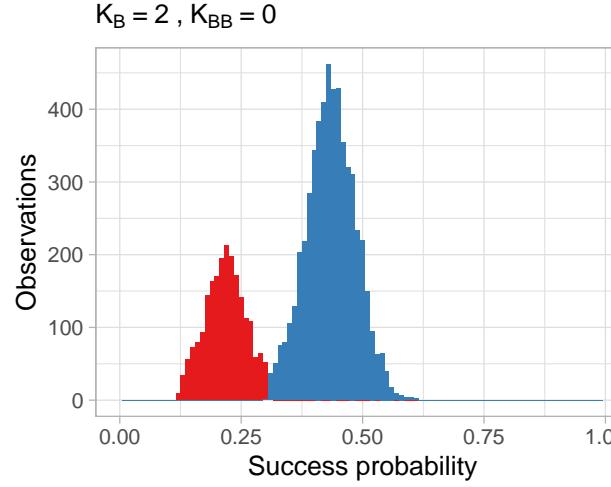
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 7957; Tail 4.89%, C2 26.9%, C1 68.21%

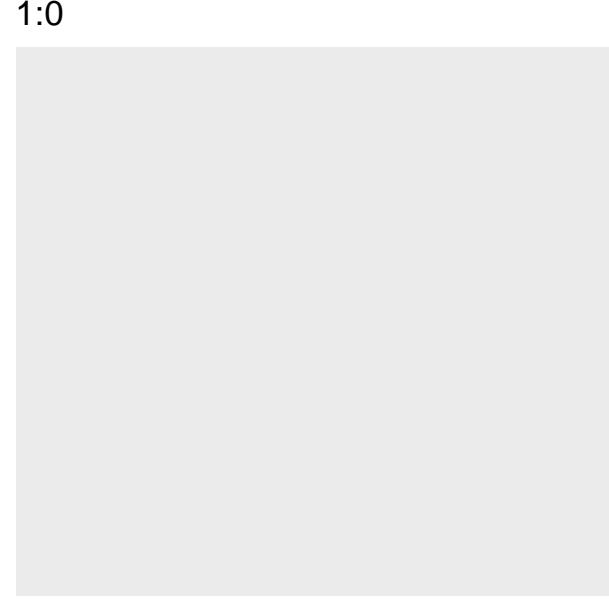
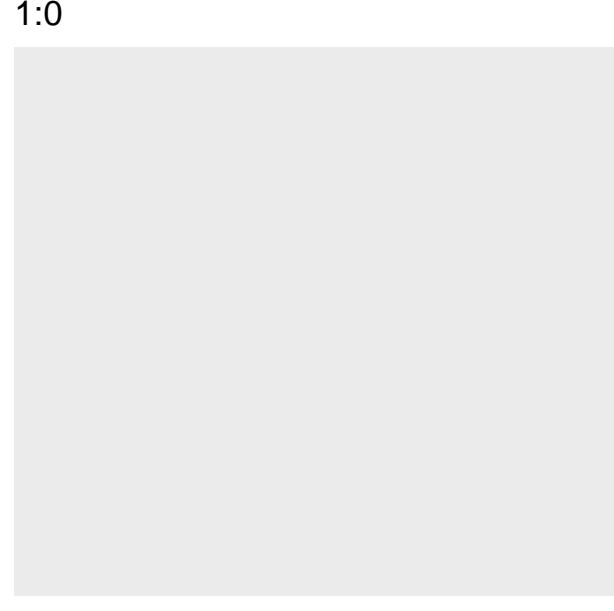


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

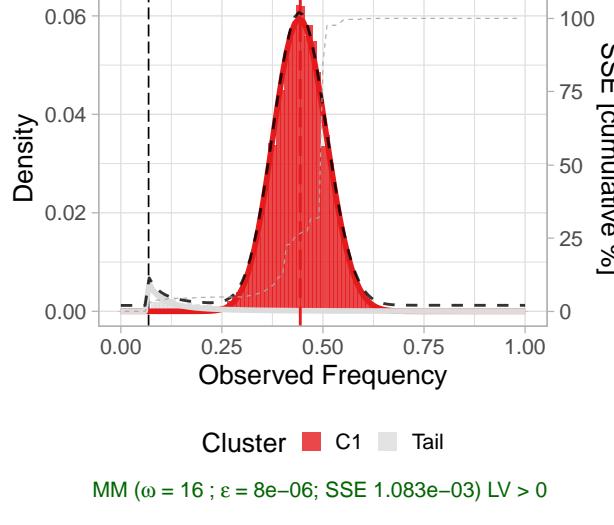


161025_HMFregCPCT_FR10304598_FR10245417_CPCT02050056

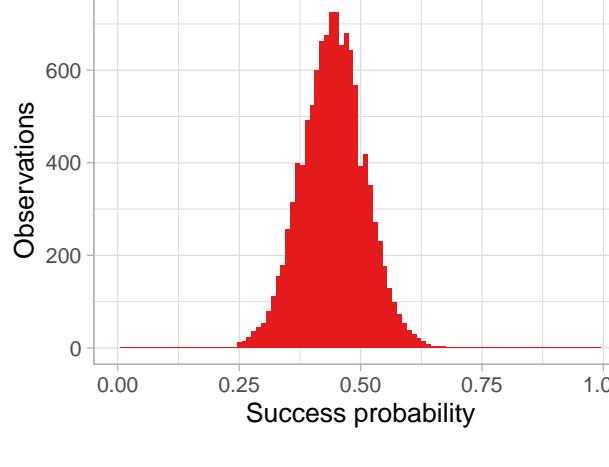
ONLY SNVs (min 150 – max 50000)



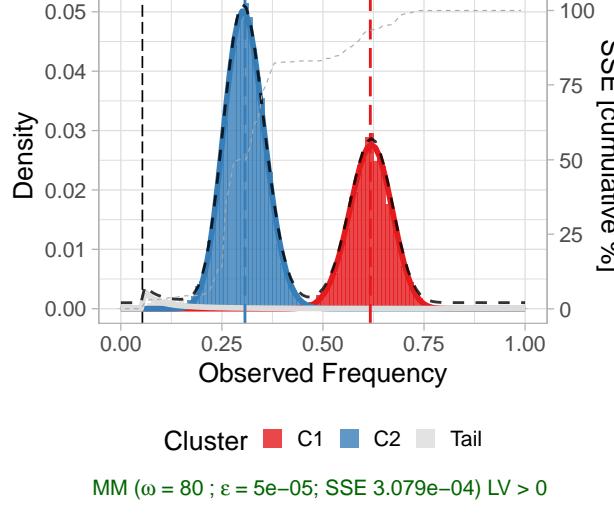
Karyotype: 1:1
N = 11690; Tail 3.61%, C1 96.39%



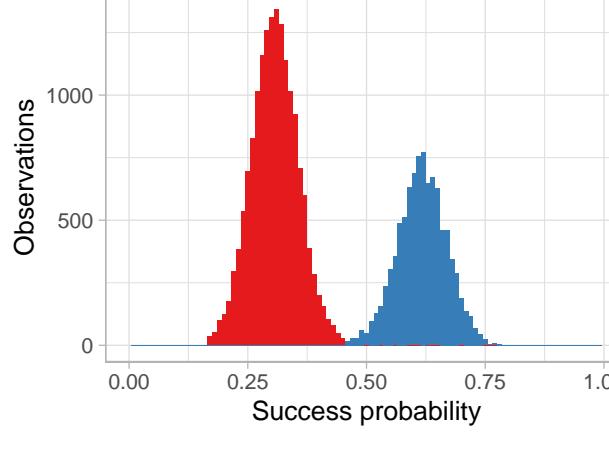
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



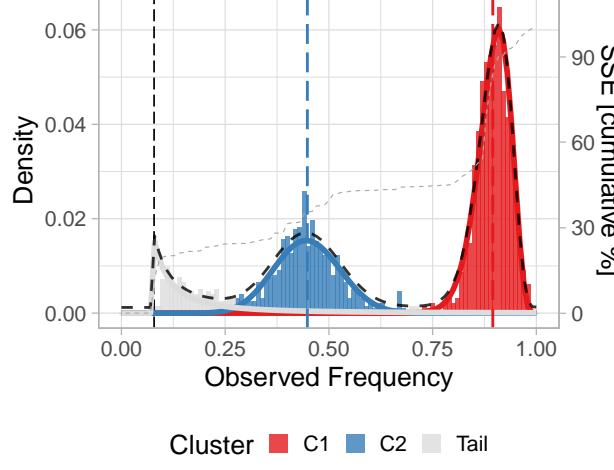
Karyotype: 2:1
N = 26078; Tail 2.06%, C1 35.86%, C2 62.09%



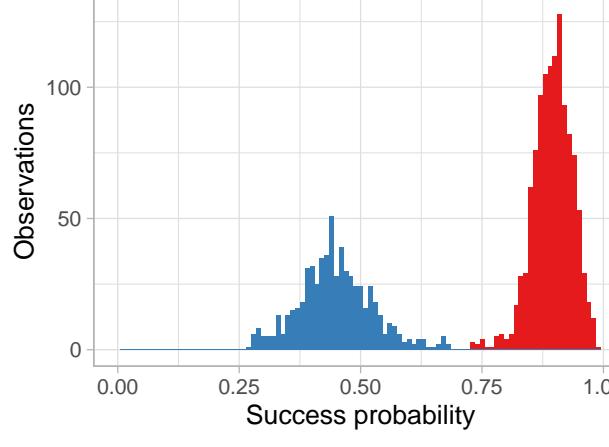
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



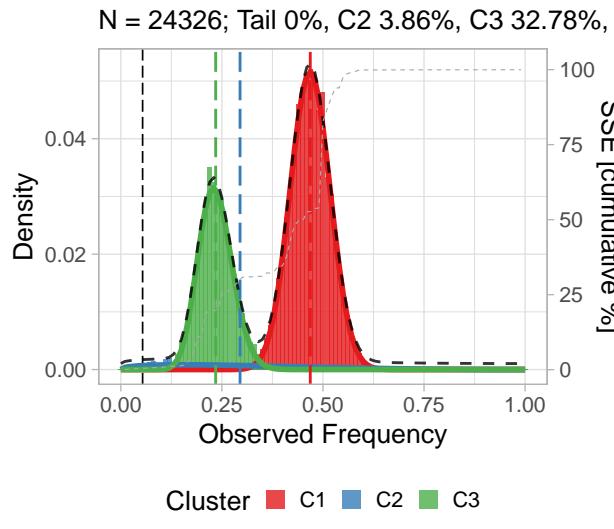
Karyotype: 2:0
N = 1976; Tail 11.41%, C2 30.41%, C1 58.18%



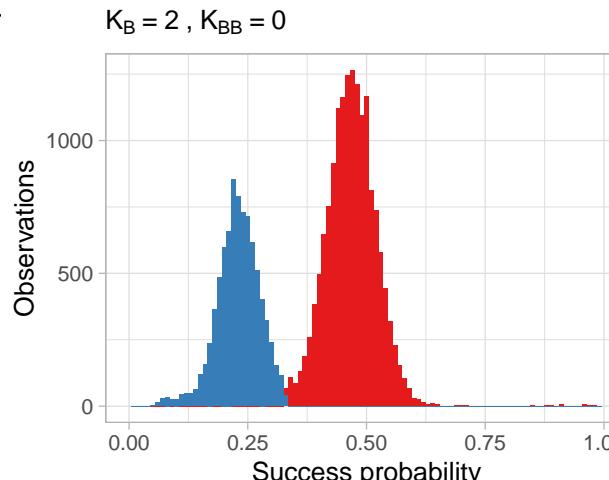
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 24326; Tail 0%, C2 3.86%, C3 32.78%, C1 63.38%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

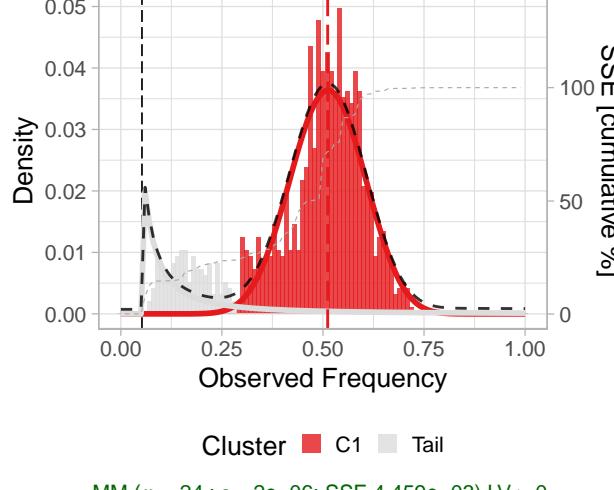


161025_HMFregCPCT_FR12251595_FR10245416_CPCT02050055

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

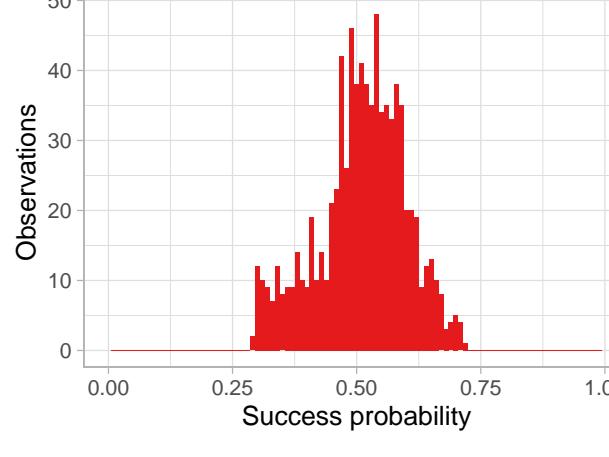
N = 965; Tail 16.43%, C1 83.57%



MM ($\omega = 24$; $\epsilon = 2e-06$; SSE 4.459e-03) LV > 0

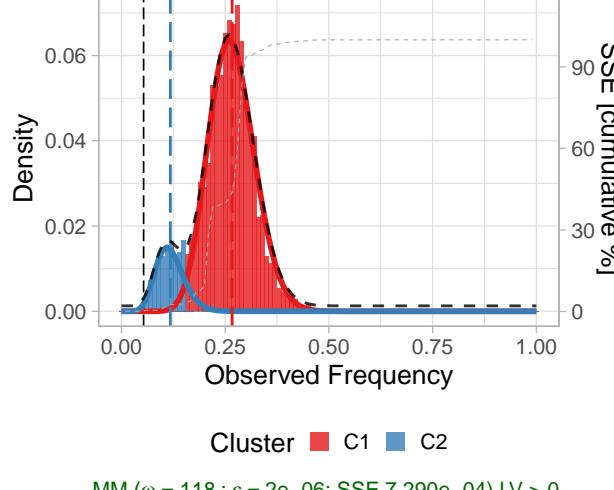
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



Karyotype: 1:1

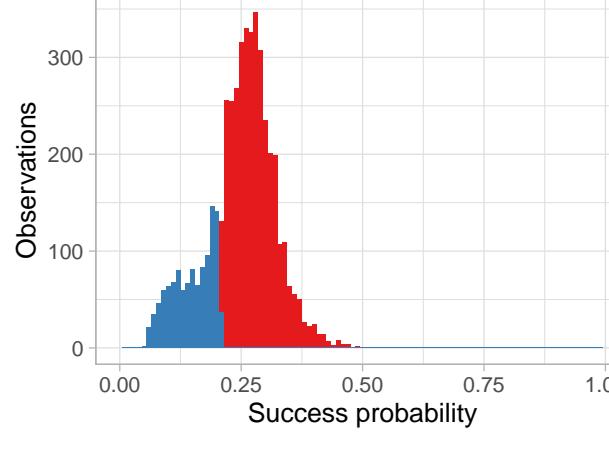
N = 4837; Tail 0%, C2 12.37%, C1 87.63%



MM ($\omega = 118$; $\epsilon = 2e-06$; SSE 7.290e-04) LV > 0

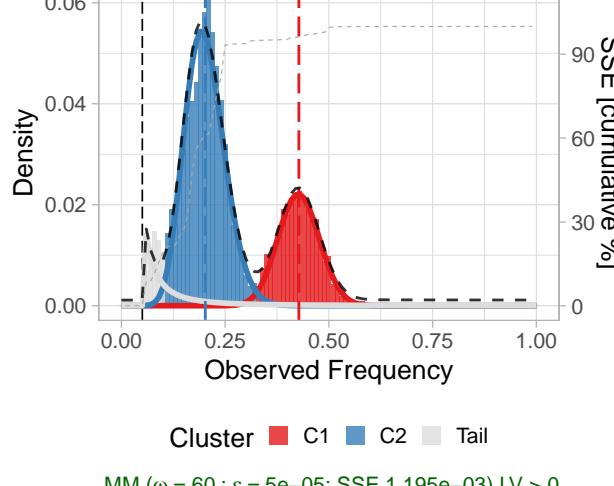
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:1

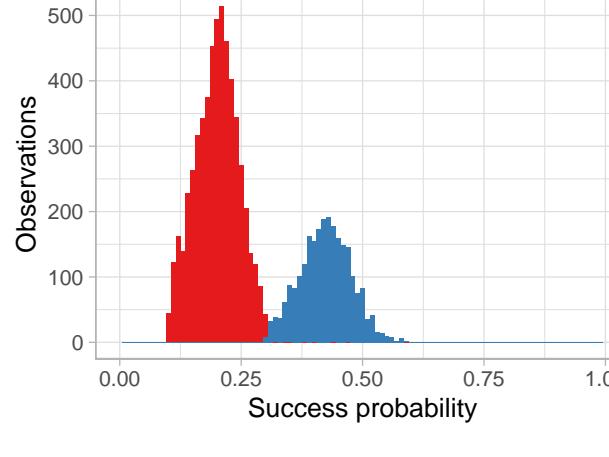
N = 8486; Tail 8.01%, C1 27.49%, C2 64.49%



MM ($\omega = 60$; $\epsilon = 5e-05$; SSE 1.195e-03) LV > 0

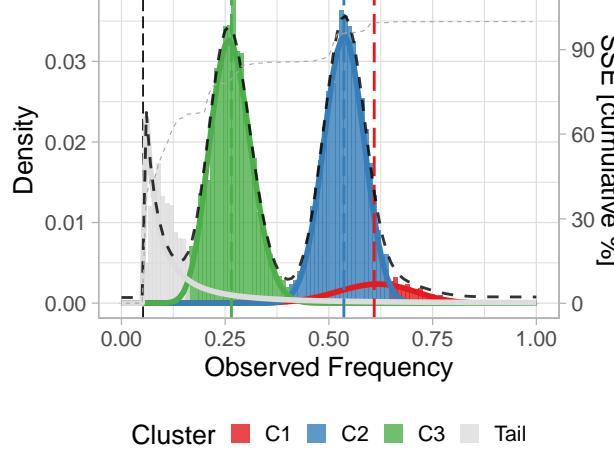
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

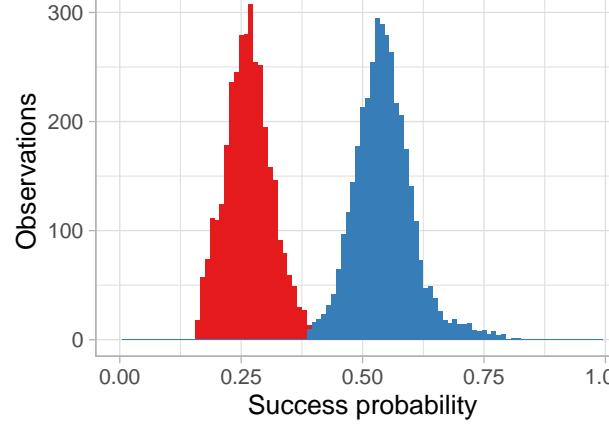
N = 8116; C1 5.42%, Tail 14.48%, C3 39.99%



MM ($\omega = 200$; $\epsilon = 4e-03$; SSE 1.104e-03) LV > 0

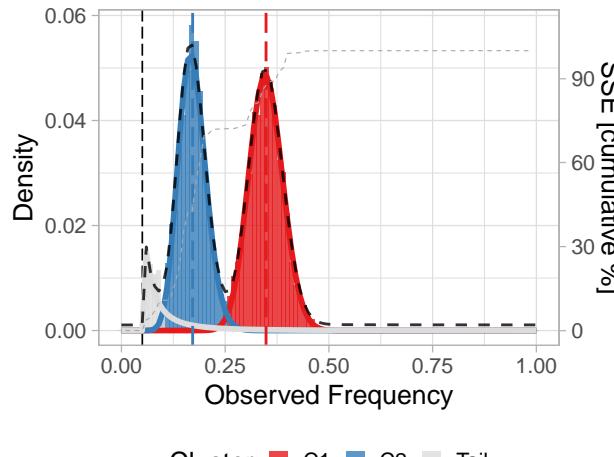
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

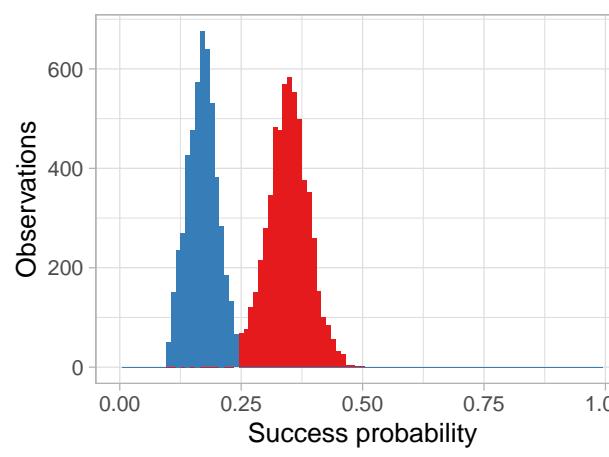
N = 11608; Tail 7.45%, C2 43.07%, C1 49.47%



MM ($\omega = 71$; $\epsilon = 3e-05$; SSE 8.209e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

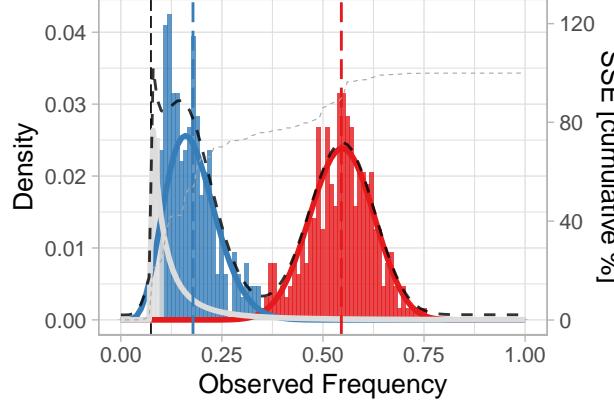


161028_HMFregCPCT_FR10304606_FR10245419_CPCT02050058

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 635; Tail 13.25%, C2 39.71%, C1 47.04%



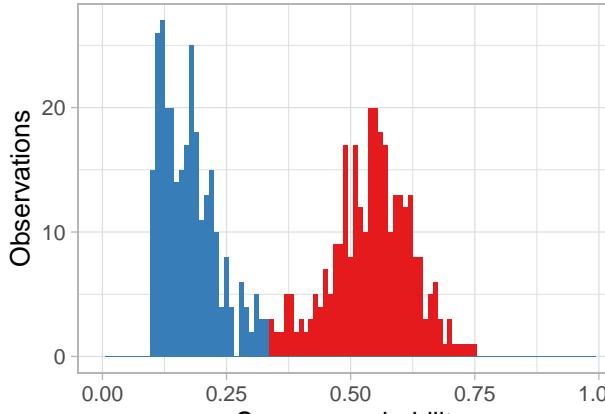
Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 200$; $\epsilon = 7e-04$; SSE $2.783e-03$) LV > 0

Karyotype: 1:0

Karyotype: 1:0

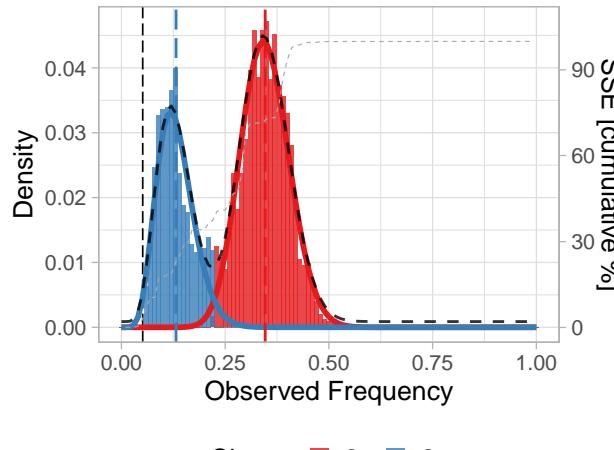
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

MM ($\omega = 200$; $\epsilon = 7e-04$; SSE $2.783e-03$) LV > 0

Karyotype: 1:1
N = 3033; Tail 0%, C2 35.6%, C1 64.4%

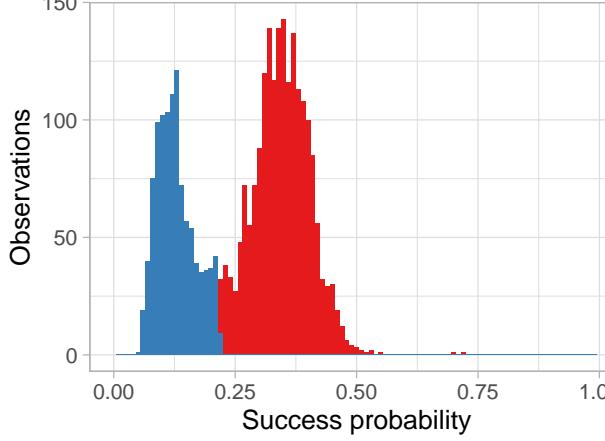


Cluster ■ C1 ■ C2

MM ($\omega = 174$; $\epsilon = 4e-05$; SSE $8.023e-04$) LV > 0

Karyotype: 1:1

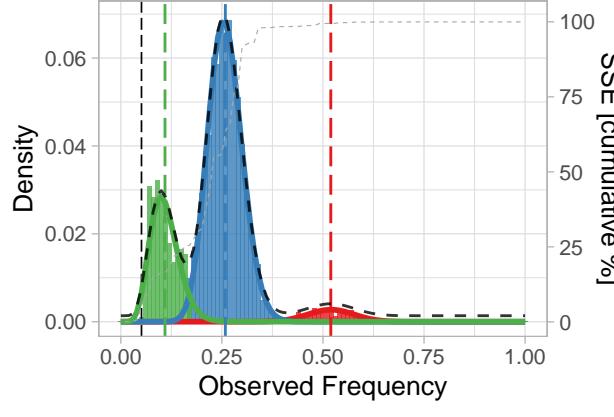
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

MM ($\omega = 174$; $\epsilon = 4e-05$; SSE $8.023e-04$) LV > 0

Karyotype: 2:1
N = 4443; Tail 0%, C1 3.89%, C3 24.11%, C2

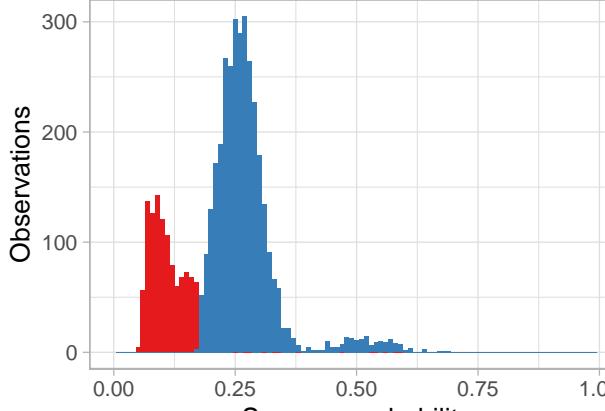


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 200$; $\epsilon = 2e-03$; SSE $8.274e-04$) LV > 0

Karyotype: 2:1

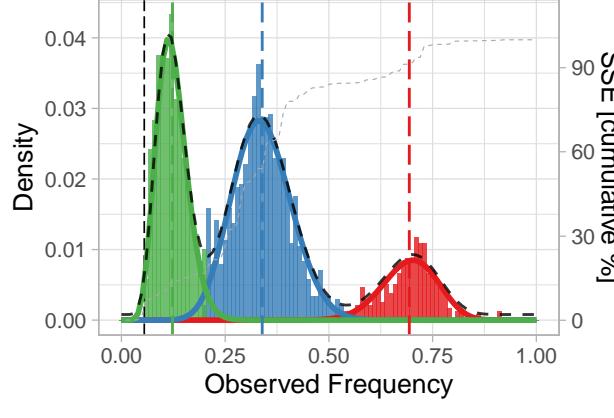
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

MM ($\omega = 200$; $\epsilon = 2e-03$; SSE $8.274e-04$) LV > 0

Karyotype: 2:0
N = 2400; Tail 0%, C1 14.15%, C3 35.64%, C2

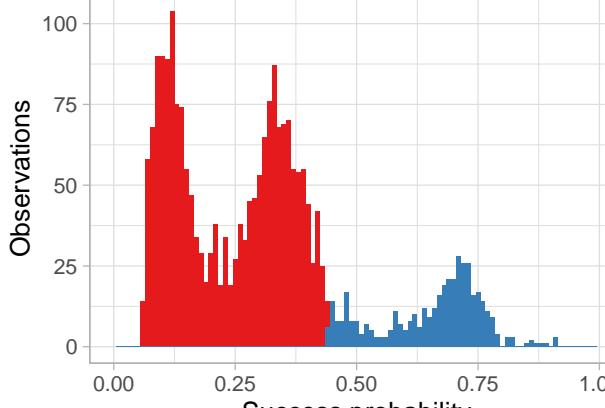


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 200$; $\epsilon = 2e-05$; SSE $6.410e-04$) LV > 0

Karyotype: 2:0

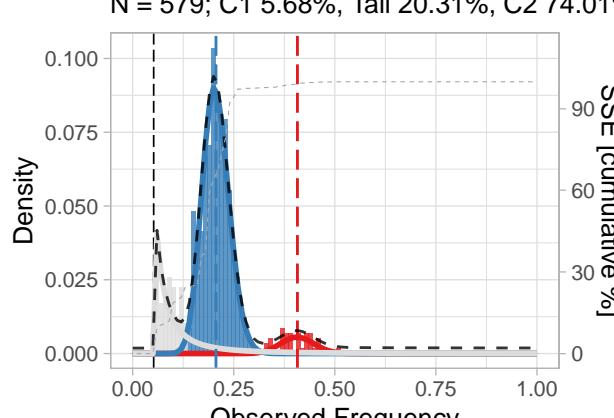
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

MM ($\omega = 200$; $\epsilon = 2e-05$; SSE $6.410e-04$) LV > 0

Karyotype: 2:2
N = 579; C1 5.68%, Tail 20.31%, C2 74.01%

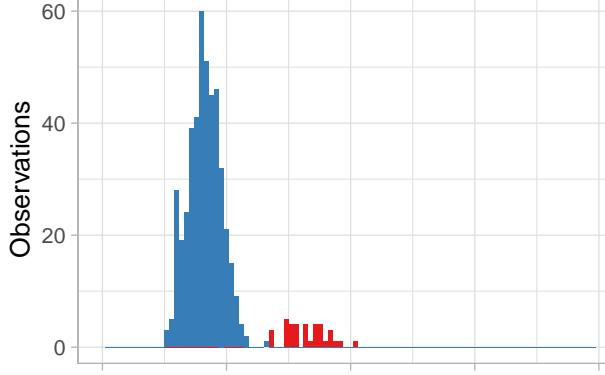


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 32$; $\epsilon = 2e-06$; SSE $3.925e-03$) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



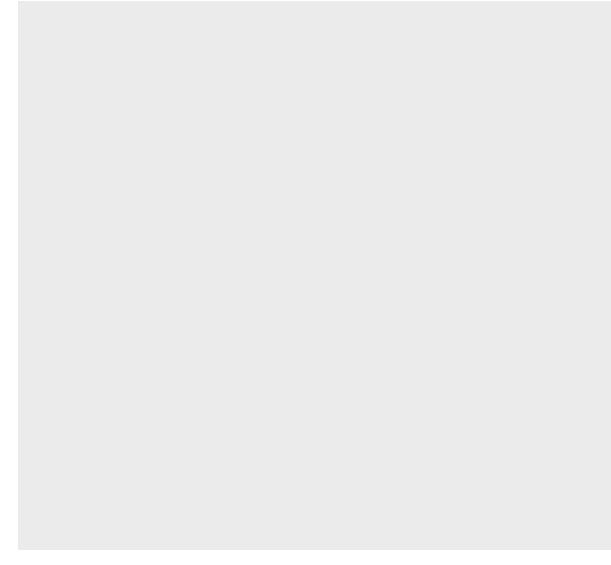
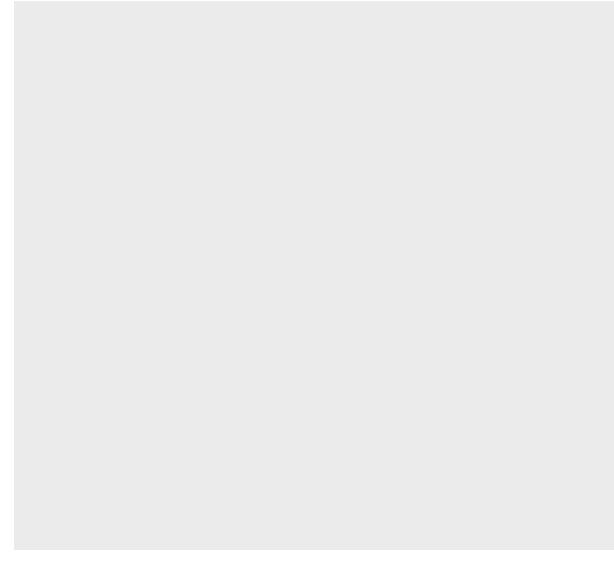
Cluster ■ Bin 1 ■ Bin 2

161028_HMFregCPCT_FR10304609_FR10245418_CPCT02050057

ONLY SNVs (min 150 – max 50000)

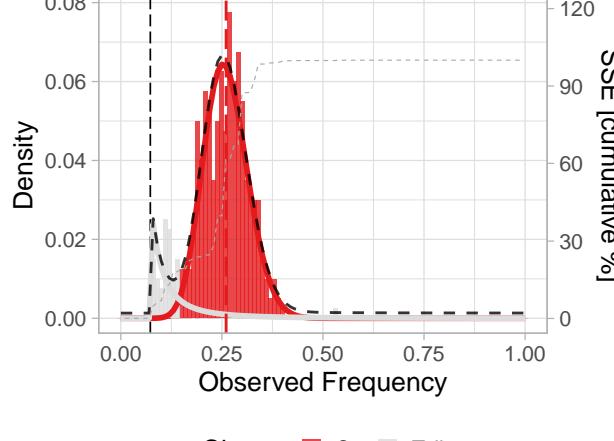
1:0

1:0



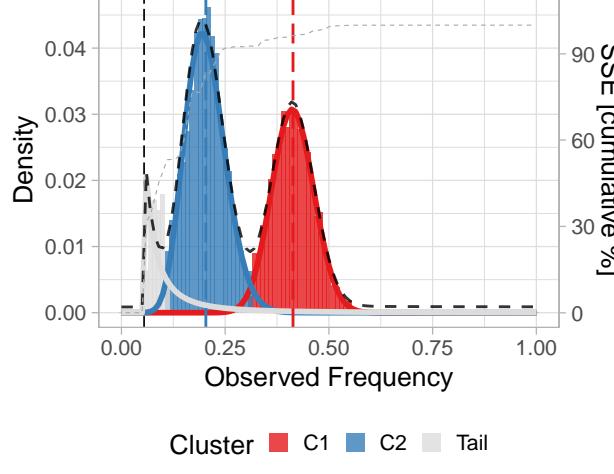
Karyotype: 1:1

N = 400; Tail 13.01%, C1 86.99%



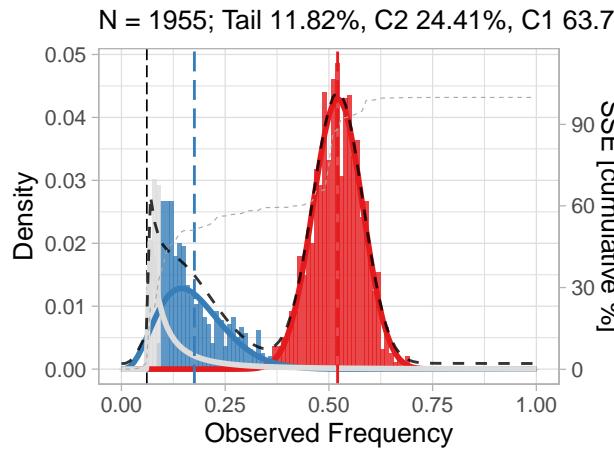
Karyotype: 2:1

N = 7009; Tail 10.15%, C1 38.95%, C2 50.9%



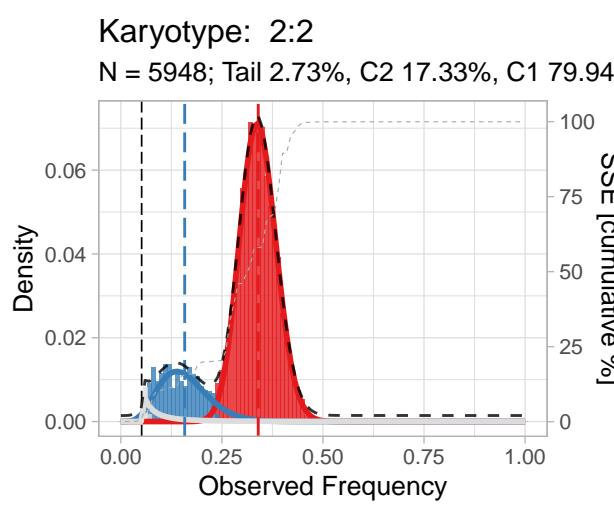
Karyotype: 2:0

N = 1955; Tail 11.82%, C2 24.41%, C1 63.77%



Karyotype: 2:2

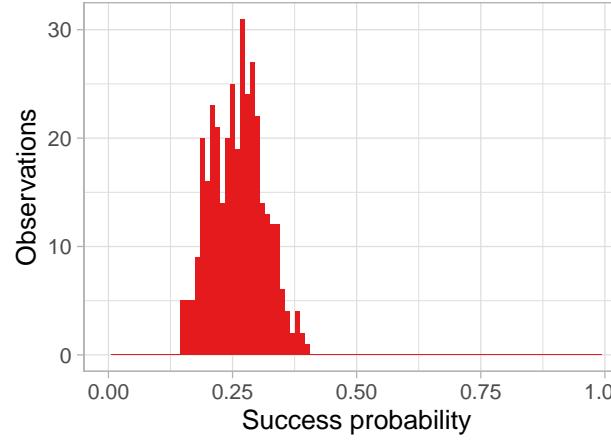
N = 5948; Tail 2.73%, C2 17.33%, C1 79.94%



MM ($\omega = 185$; $\epsilon = 2e-05$; SSE $4.228e-04$) LV > 0

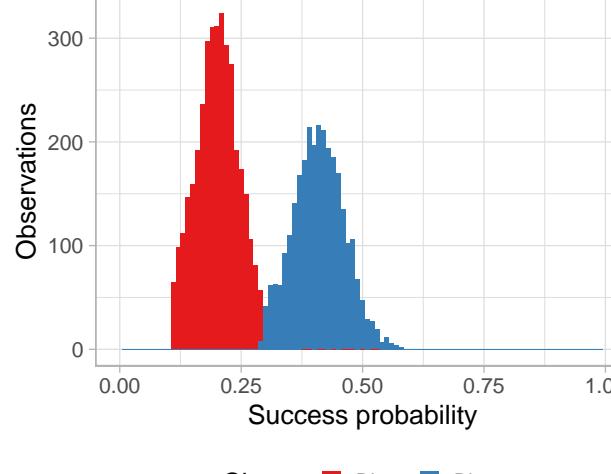
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



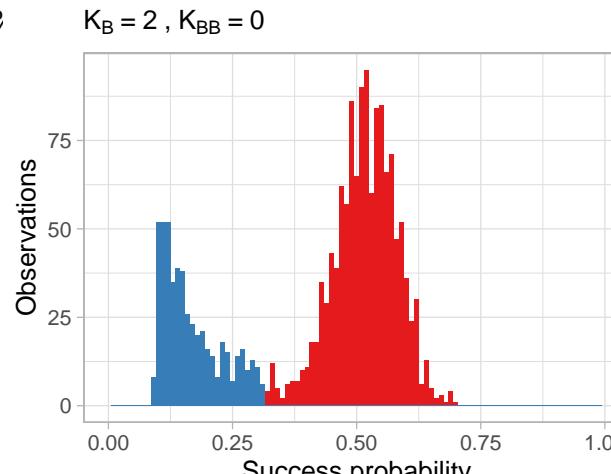
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



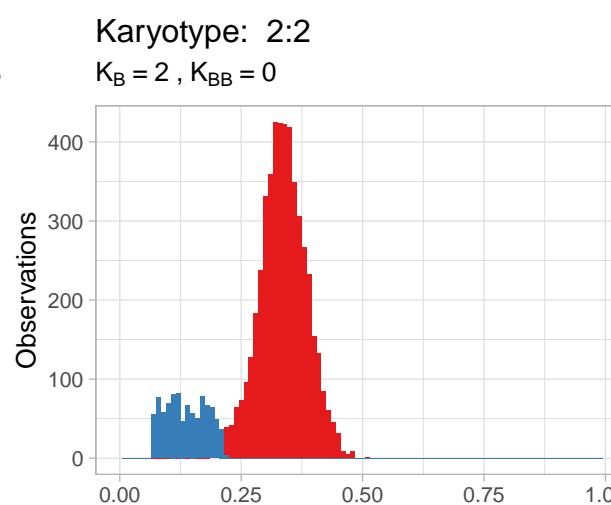
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



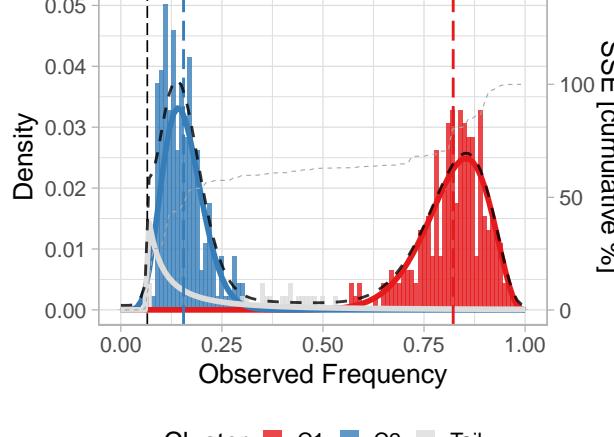
MM ($\omega = 185$; $\epsilon = 2e-05$; SSE $4.228e-04$) LV > 0

161028_HMFregCPCT_FR12244705_FR10245422_CPCT02050063

ONLY SNVs (min 150 – max 50000)

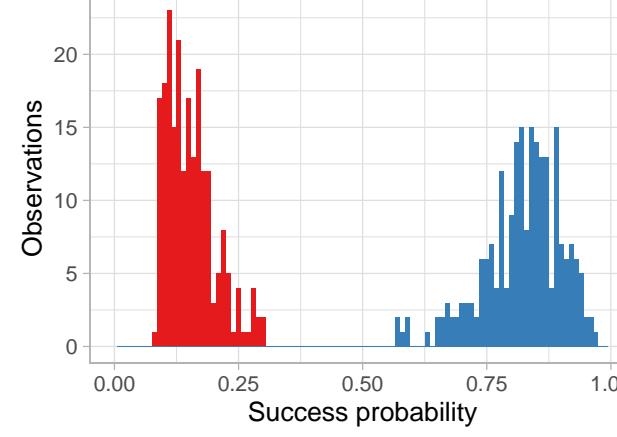
Karyotype: 1:0

N = 458; Tail 11.98%, C2 39.91%, C1 48.11%



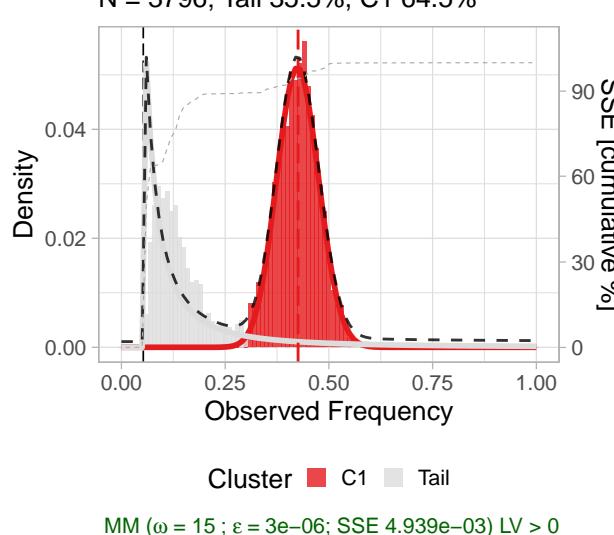
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



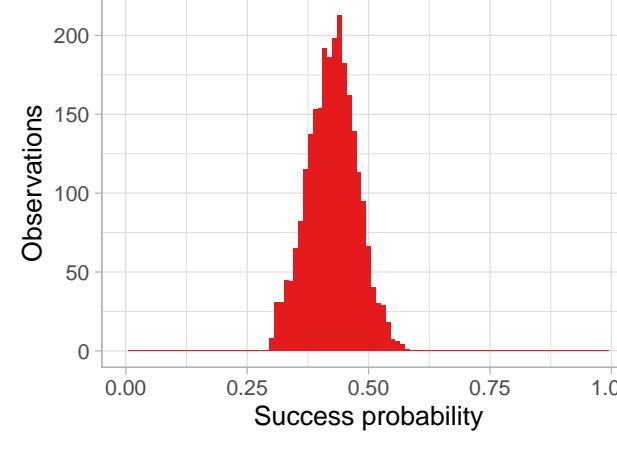
Karyotype: 1:1

N = 3796; Tail 35.5%, C1 64.5%



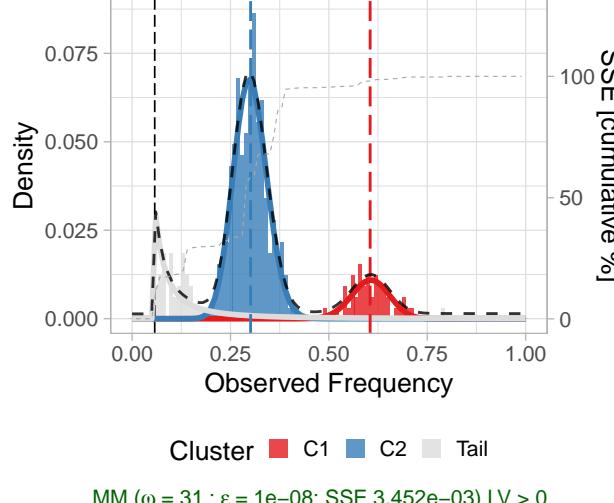
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



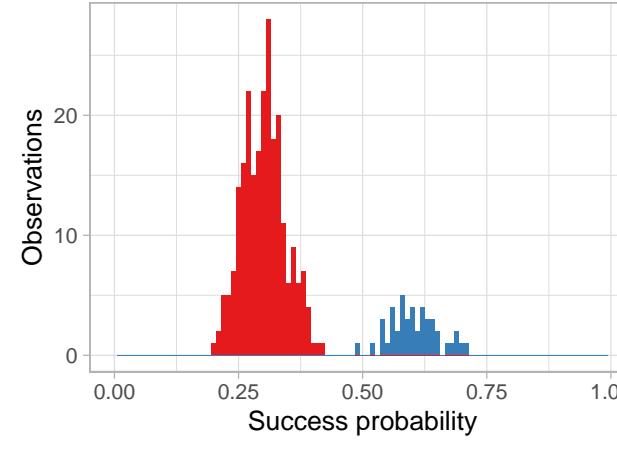
Karyotype: 2:1

N = 324; C1 13.06%, Tail 15.35%, C2 71.58%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 31$; $\epsilon = 1e-08$; SSE 3.452e-03) LV > 0

Cluster ■ Bin 1 ■ Bin 2

2:0

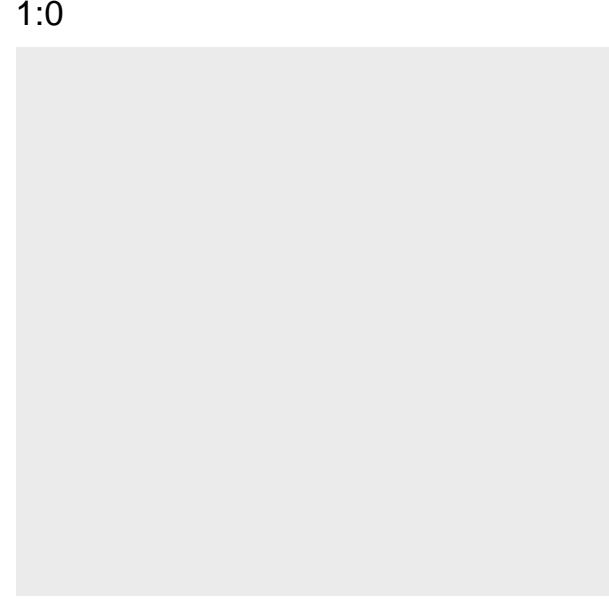
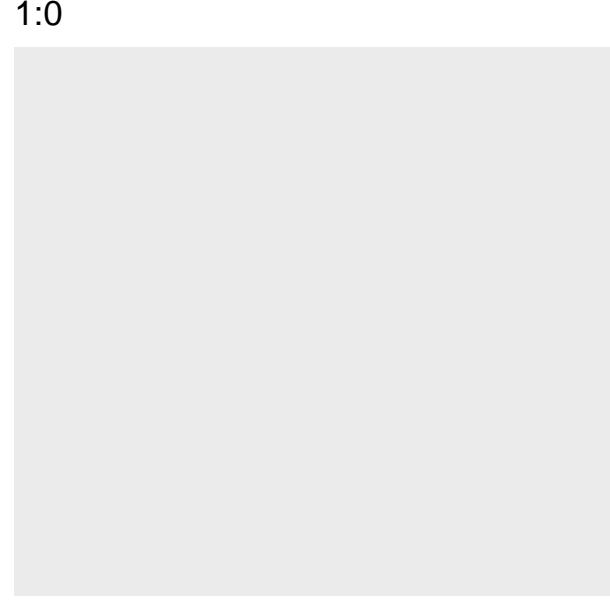
2:0

2:2

2:2

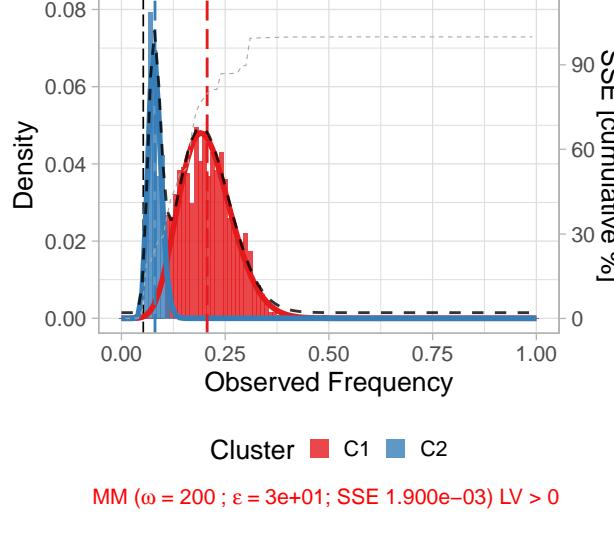
161028_HMFregCPCT_FR12251617_FR10245421_CPCT02050061

ONLY SNVs (min 150 – max 50000)



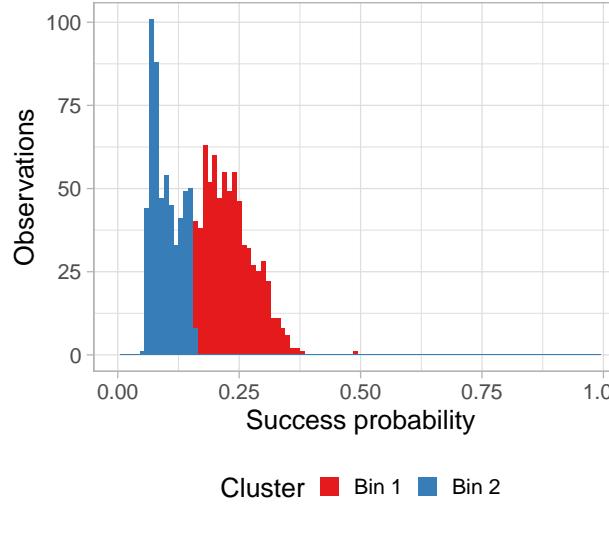
Karyotype: 1:1

N = 1275; Tail 0%, C2 26.06%, C1 73.94%



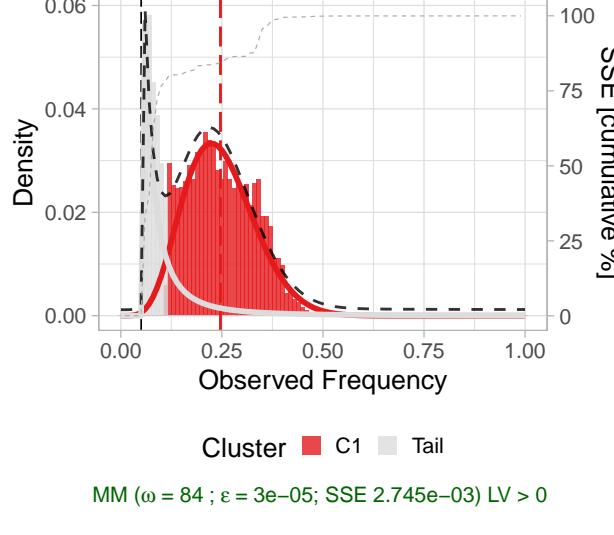
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



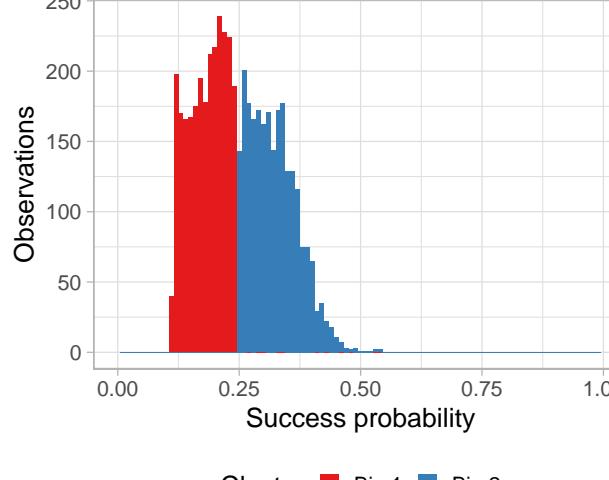
Karyotype: 2:1

N = 6719; Tail 28.27%, C1 71.73%



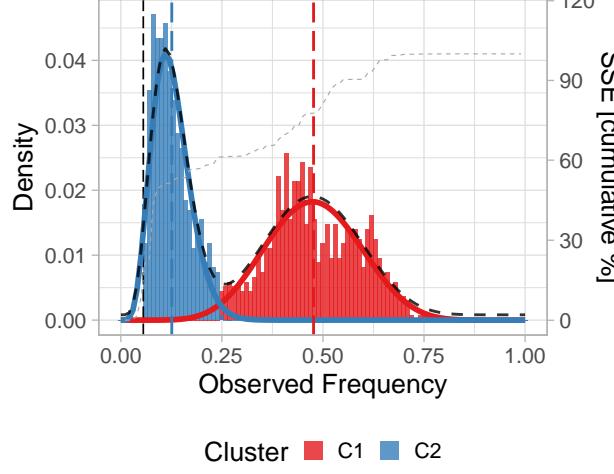
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



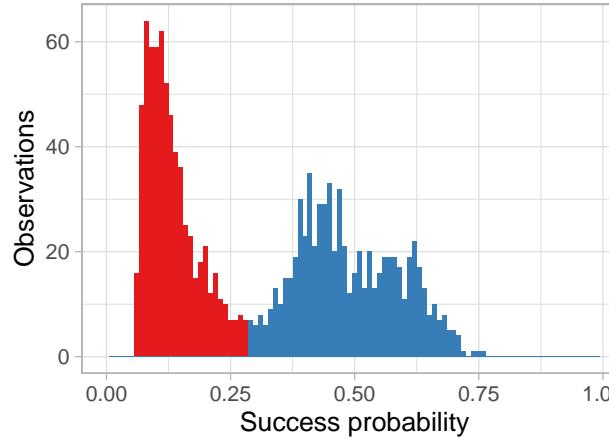
Karyotype: 2:0

N = 1359; Tail 0%, C2 46.01%, C1 53.99%



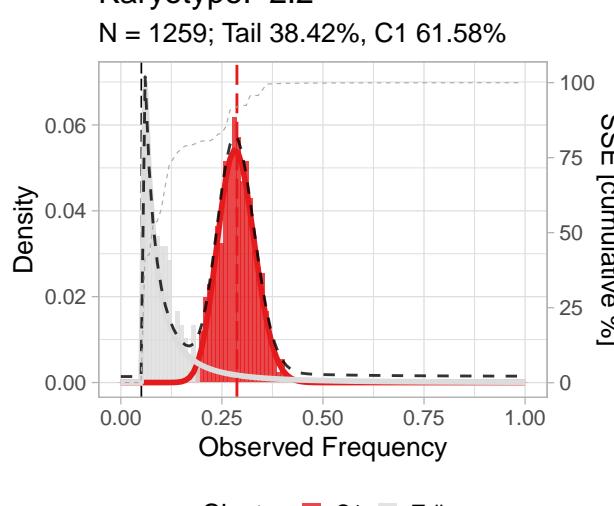
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



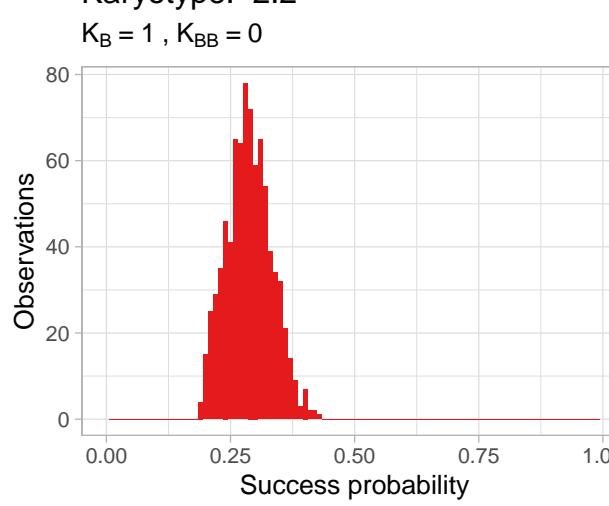
Karyotype: 2:2

N = 1259; Tail 38.42%, C1 61.58%



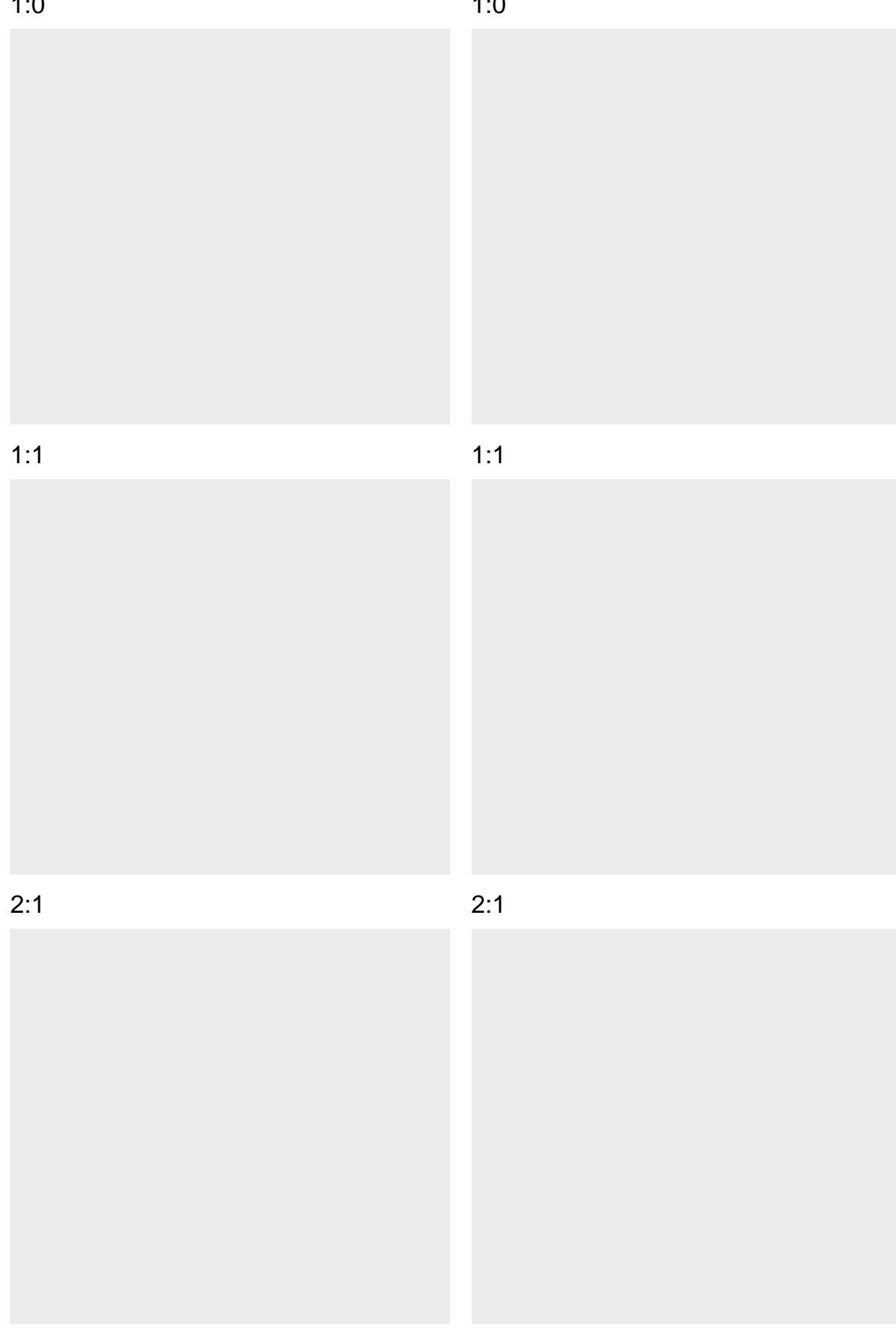
Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$



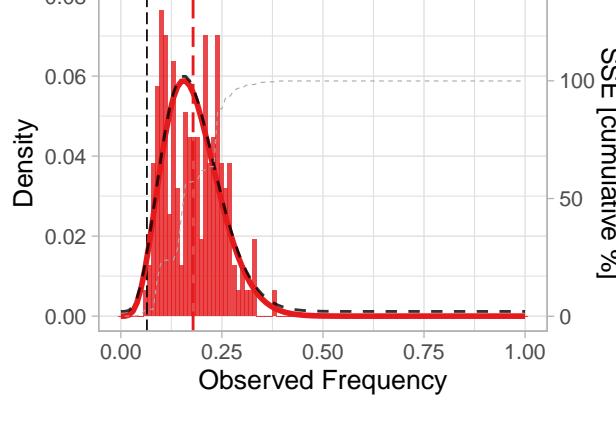
161028_HMFregCPCT_FR12254217_FR10245420_CPCT02050060

ONLY SNVs (min 150 – max 50000)



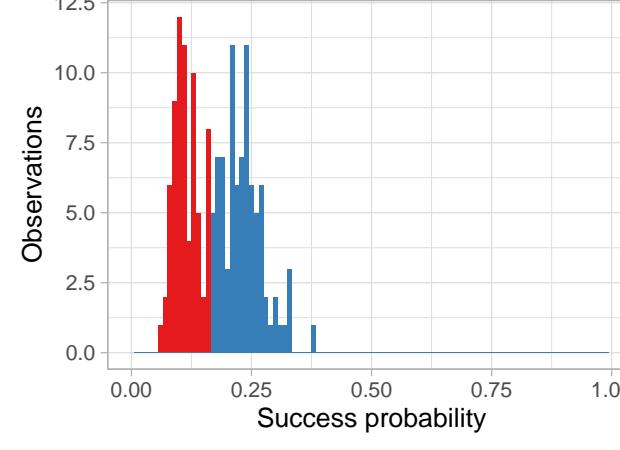
Karyotype: 2:0

N = 157; Tail 0%, C1 100%



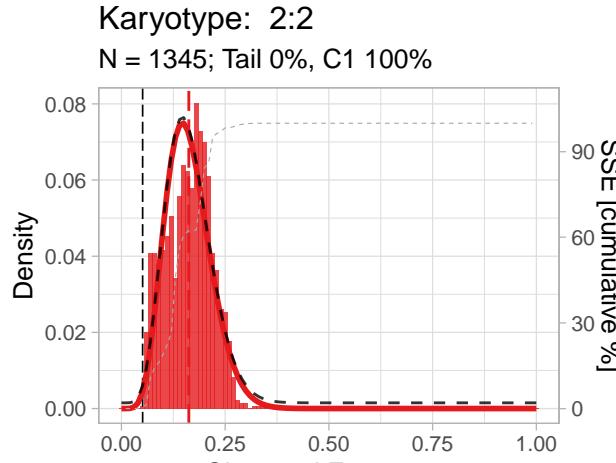
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



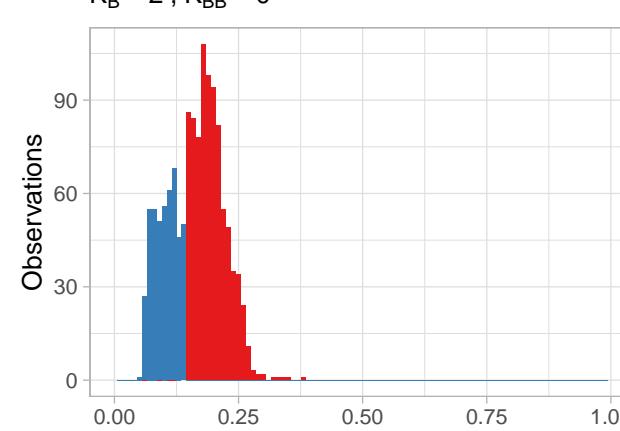
Karyotype: 2:2

N = 1345; Tail 0%, C1 100%



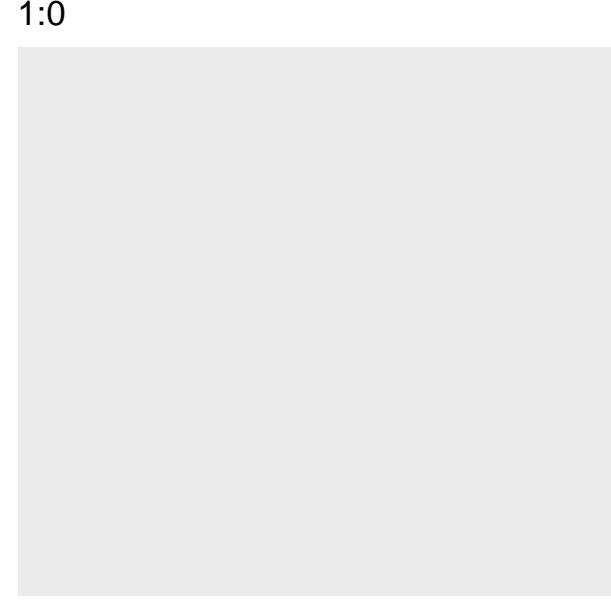
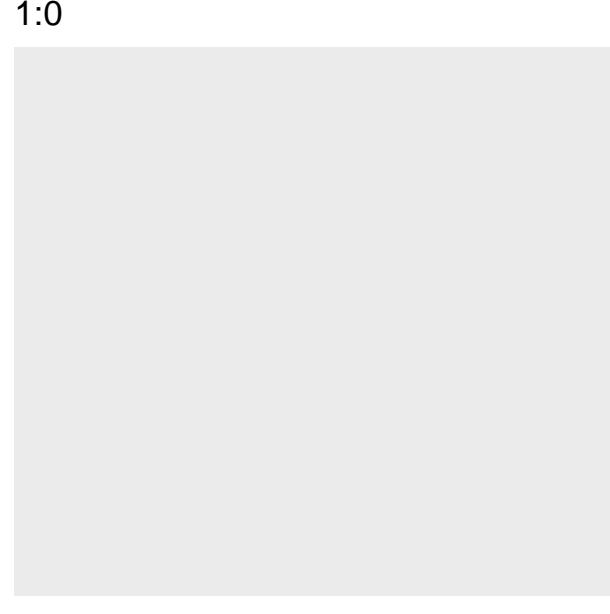
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

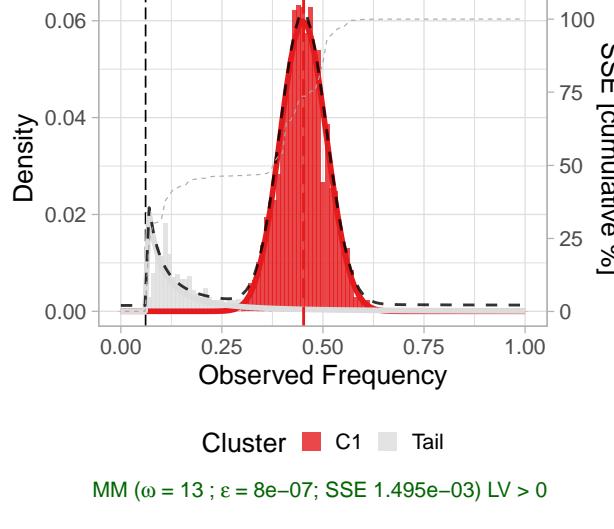


161029_HMFregCPCT_FR12244731_FR10245425_CPCT02110010

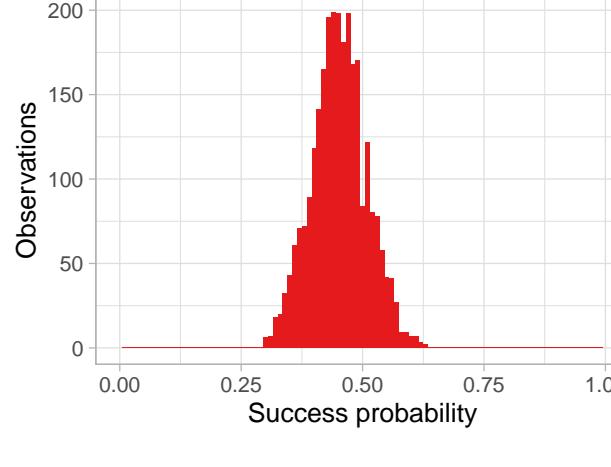
ONLY SNVs (min 150 – max 50000)



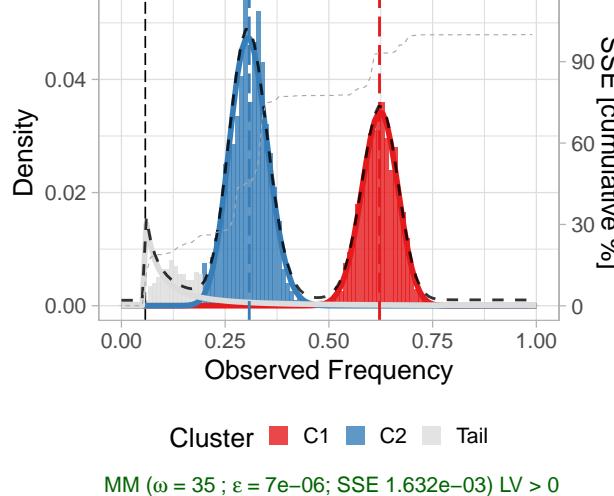
Karyotype: 1:1
N = 3151; Tail 14.86%, C1 85.14%



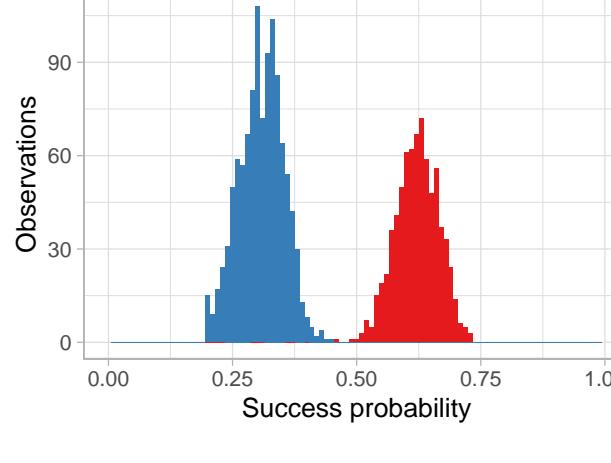
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



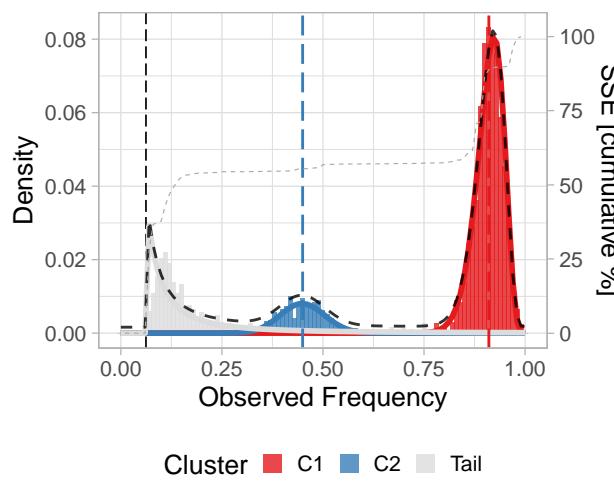
Karyotype: 2:1
N = 1998; Tail 9.27%, C1 37.06%, C2 53.68%



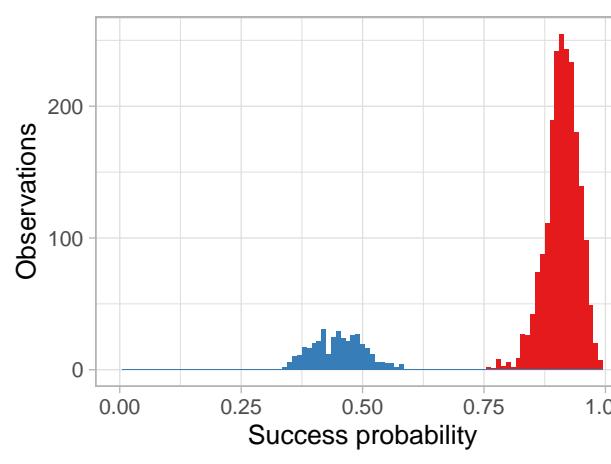
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



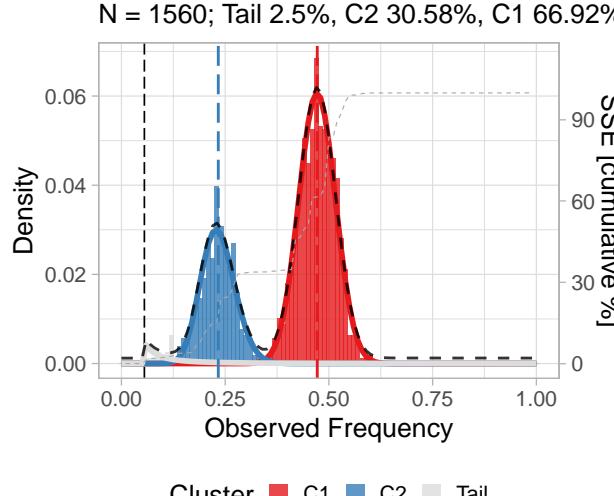
Karyotype: 2:0
N = 3064; C2 11.01%, Tail 22.32%, C1 66.67%



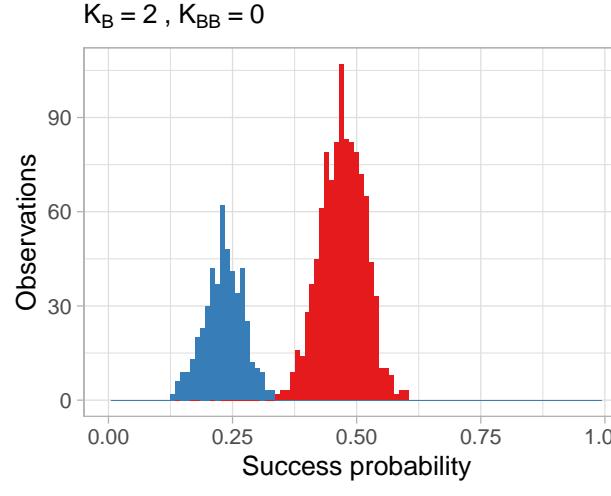
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 1560; Tail 2.5%, C2 30.58%, C1 66.92%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

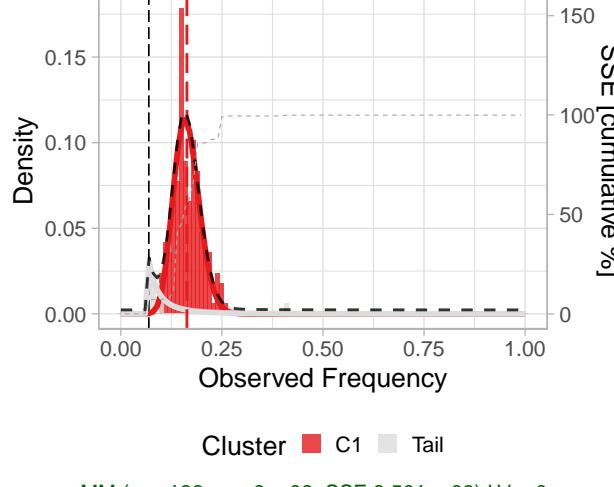


161029_HMFregCPCT_FR12244767_FR10245426_CPCT02110011

ONLY SNVs (min 150 – max 50000)

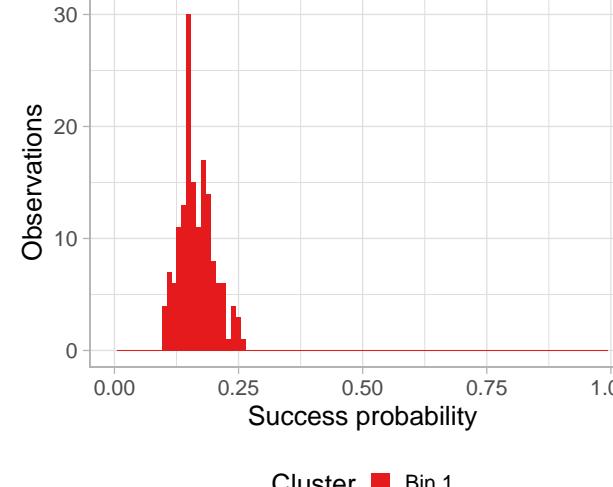
Karyotype: 1:0

N = 168; Tail 10.55%, C1 89.45%



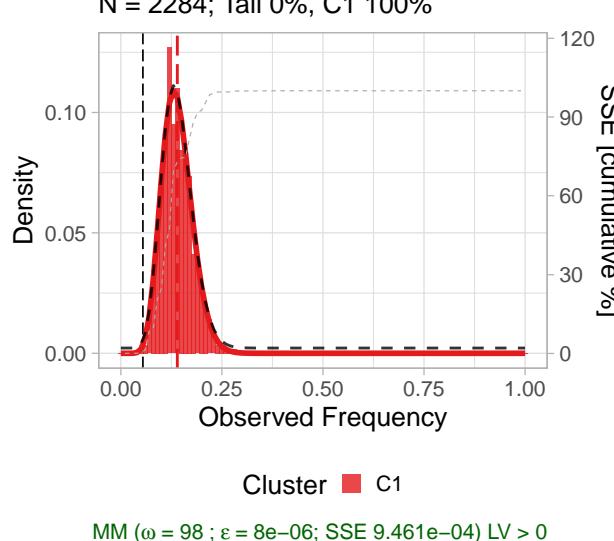
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



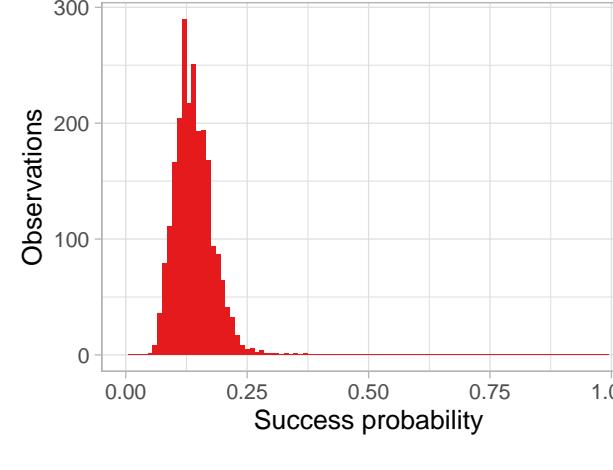
Karyotype: 1:1

N = 2284; Tail 0%, C1 100%



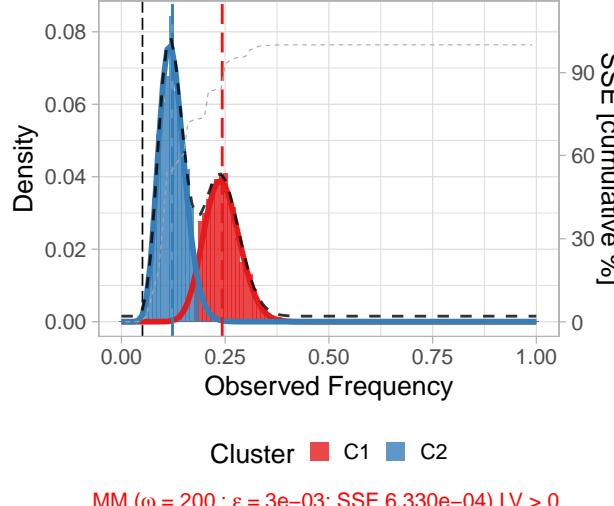
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



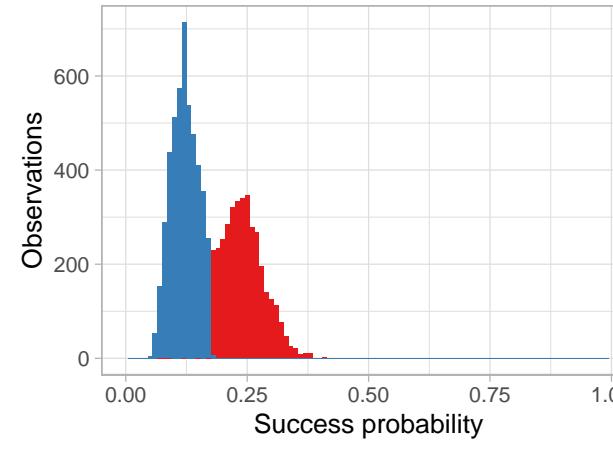
Karyotype: 2:1

N = 8461; Tail 0%, C1 41.63%, C2 58.37%



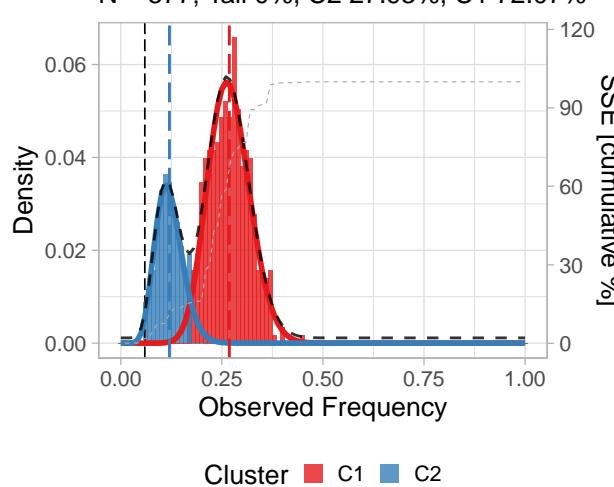
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



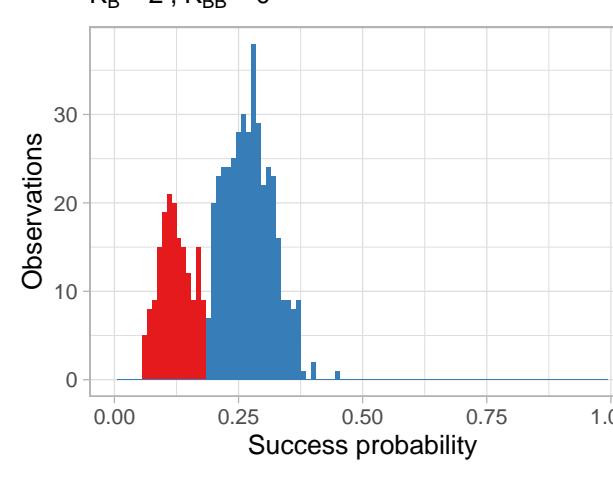
Karyotype: 2:0

N = 577; Tail 0%, C2 27.93%, C1 72.07%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

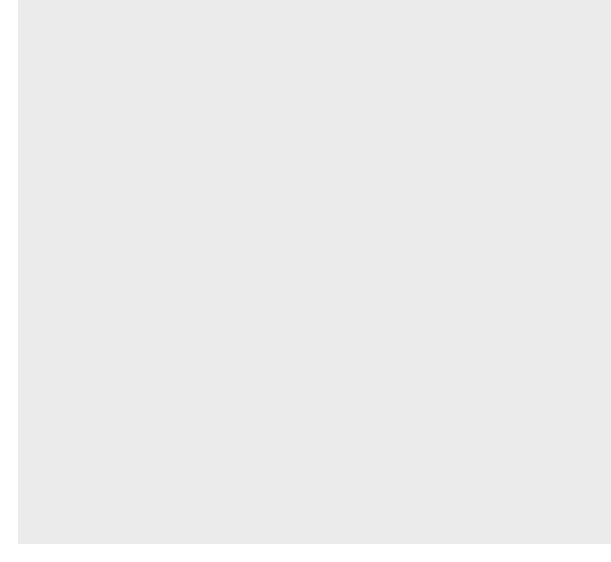
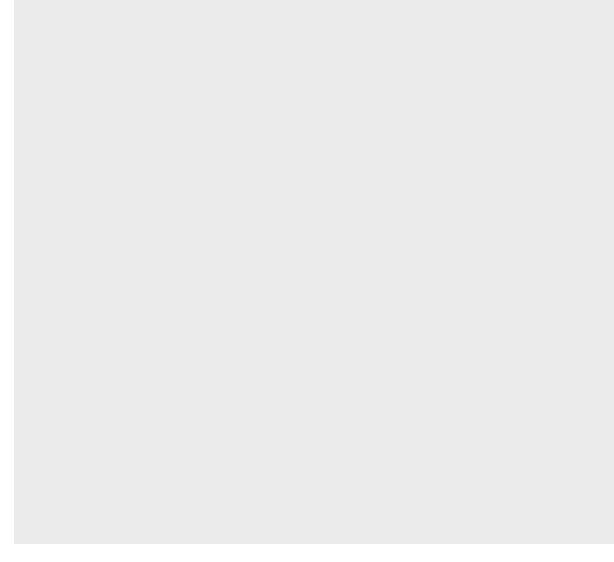
2:2

161029_HMFregCPCT_FR12244783_FR10245427_CPCT02080040

ONLY SNVs (min 150 – max 50000)

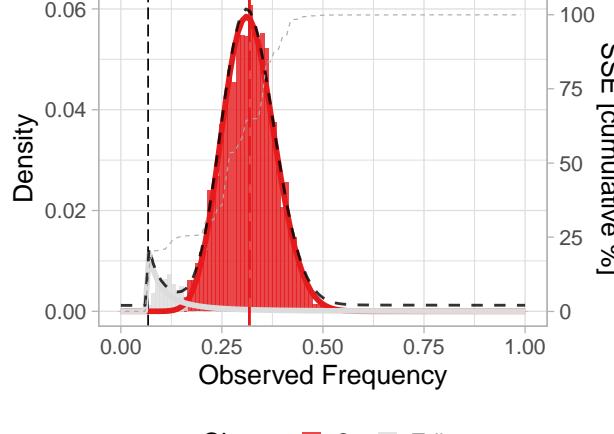
1:0

1:0



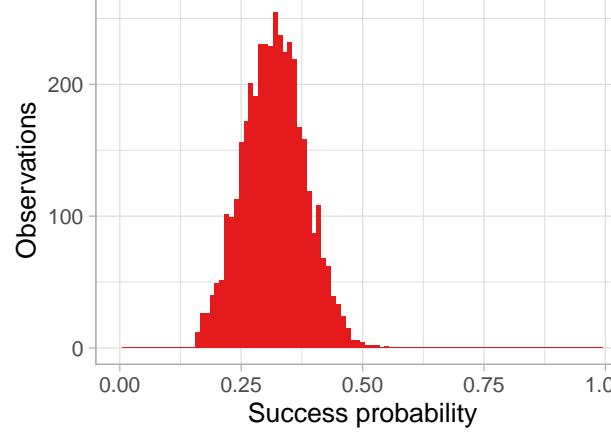
Karyotype: 1:1

N = 4202; Tail 6.12%, C1 93.88%



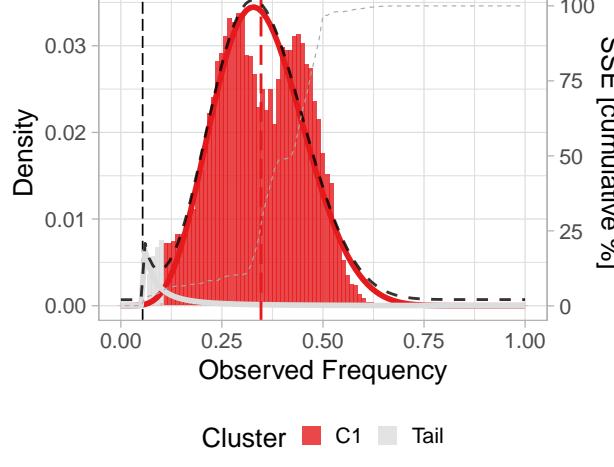
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



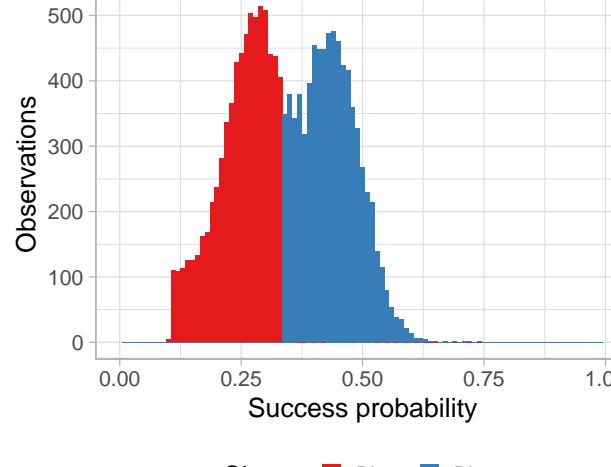
Karyotype: 2:1

N = 15201; Tail 3.43%, C1 96.57%



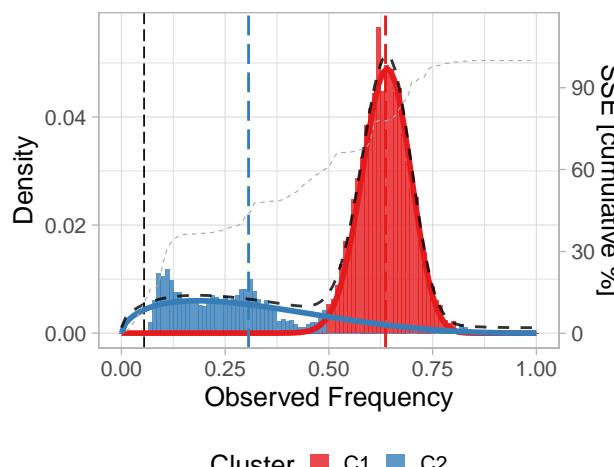
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



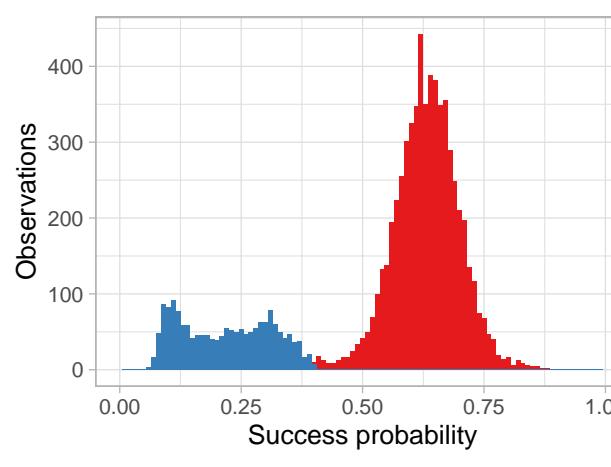
Karyotype: 2:0

N = 7829; Tail 0%, C2 28.58%, C1 71.42%



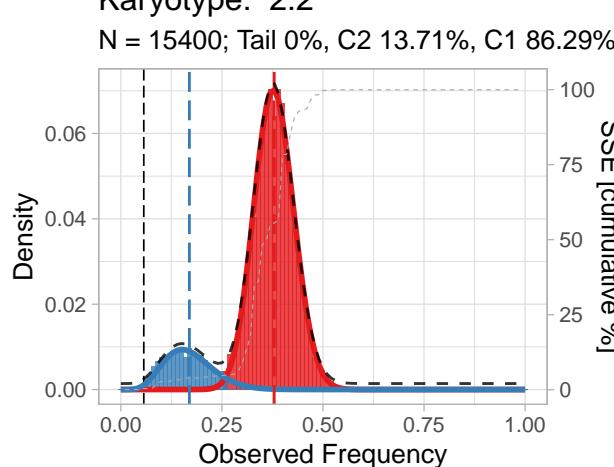
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



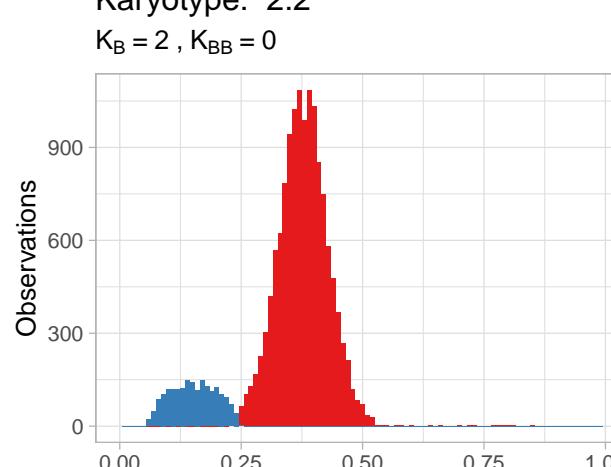
Karyotype: 2:2

N = 15400; Tail 0%, C2 13.71%, C1 86.29%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



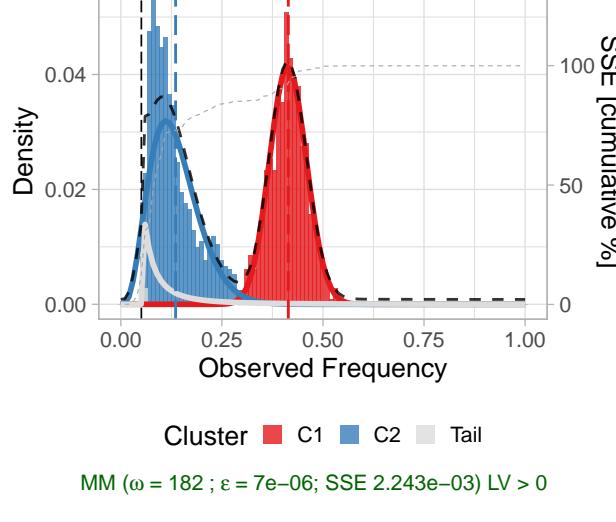
161031_HMFregCPCT_FR12244740_FR10245429_CPCT02070025

ONLY SNVs (min 150 – max 50000)

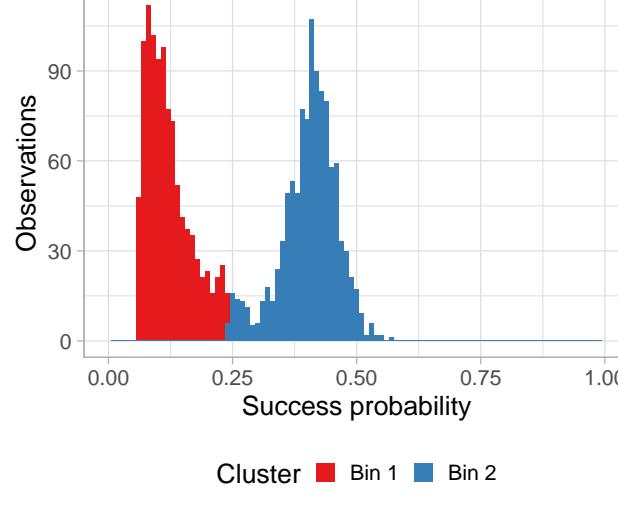
1:0

1:0

Karyotype: 1:1
N = 2104; Tail 7.46%, C2 45.44%, C1 47.11%



Karyotype: 1:1
 $K_B = 2$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

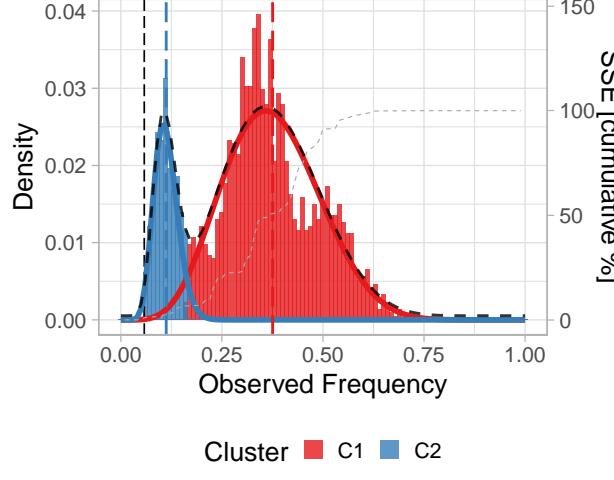
2:2

161031_HMFregCPCT_FR12244742_FR10245428_CPCT02070024

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 2146; Tail 0%, C2 18.3%, C1 81.7%

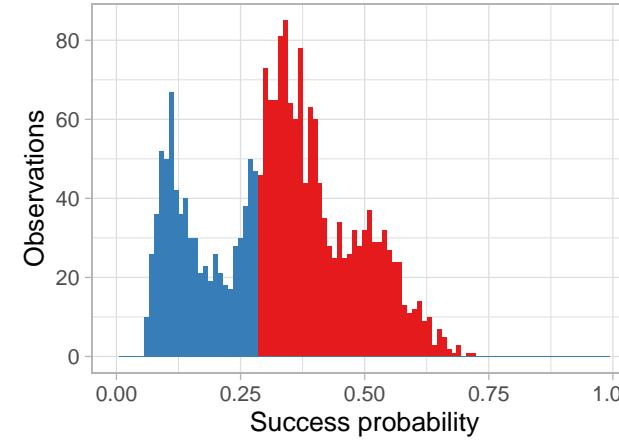


Cluster ■ C1 ■ C2

MM ($\omega = 200$; $\epsilon = 3e-03$; SSE 1.378e-03) LV > 0

Karyotype: 1:0

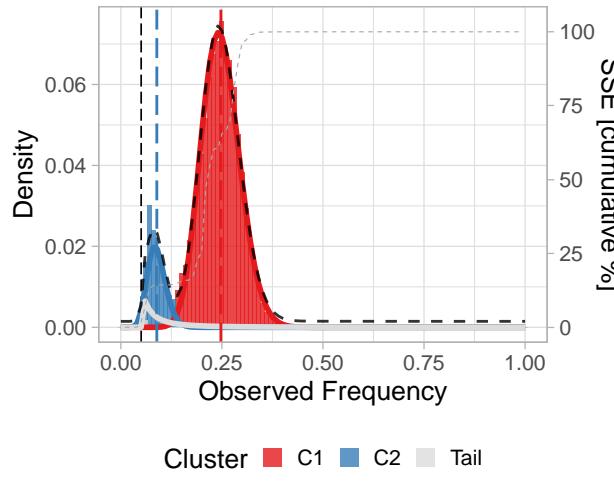
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 24669; Tail 3.48%, C2 11.02%, C1 85.5%

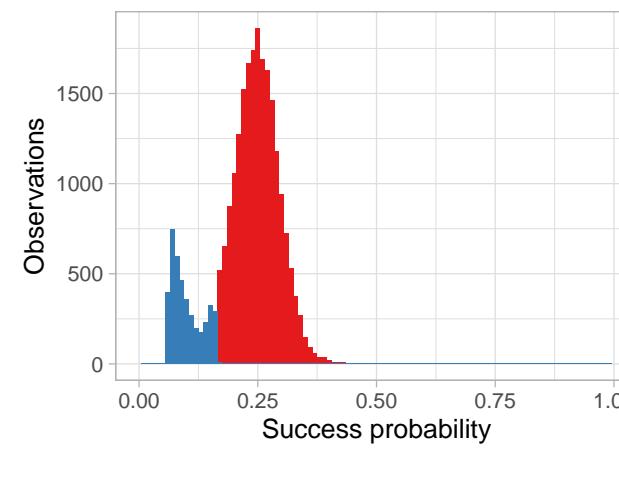


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 200$; $\epsilon = 1e-04$; SSE 9.606e-04) LV > 0

Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:1

2:1

2:0

2:0

2:2

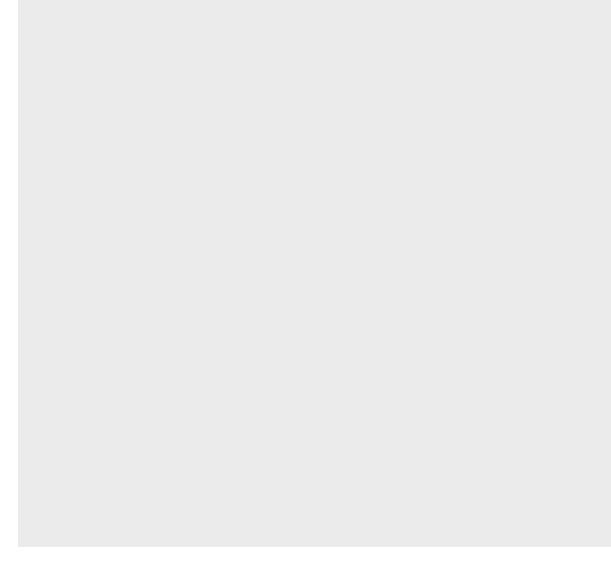
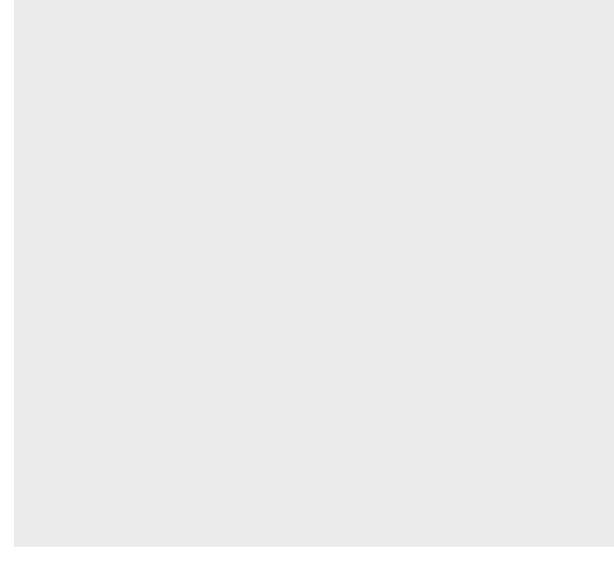
2:2

161101_HMFregCPCT_FR12244771_FR12244397_CPCT02030276

ONLY SNVs (min 150 – max 50000)

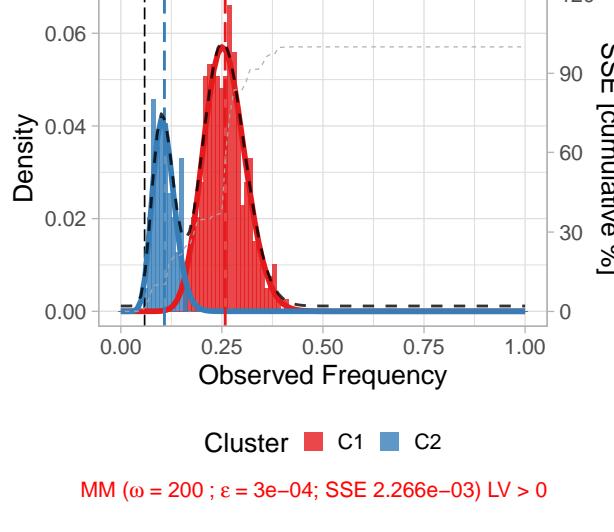
1:0

1:0



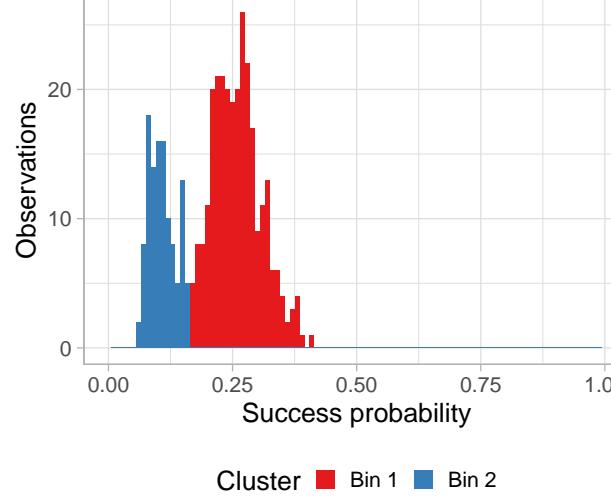
Karyotype: 1:1

N = 394; Tail 0%, C2 27.45%, C1 72.55%



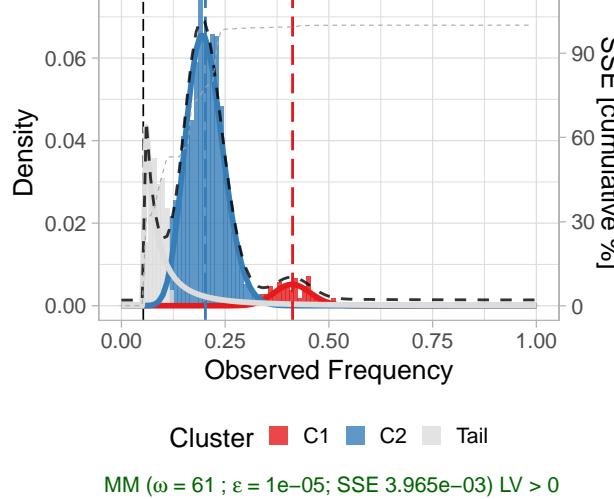
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



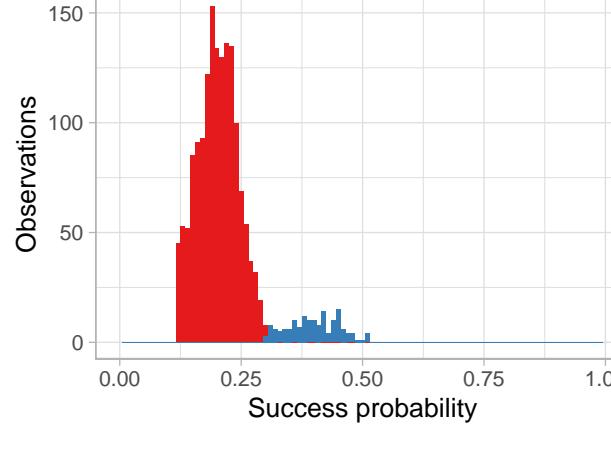
Karyotype: 2:1

N = 2065; C1 5.63%, Tail 21.65%, C2 72.72%



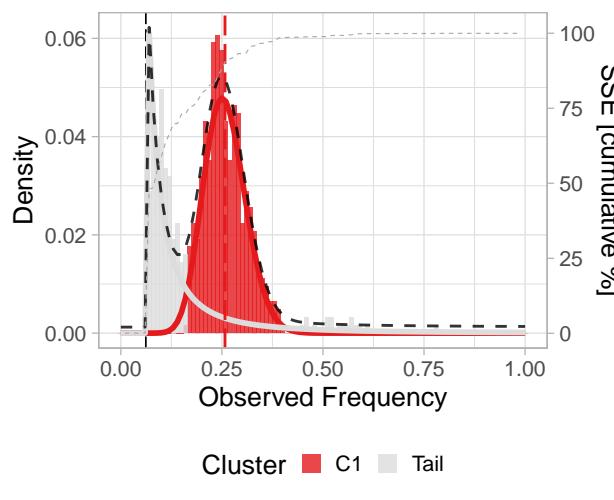
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



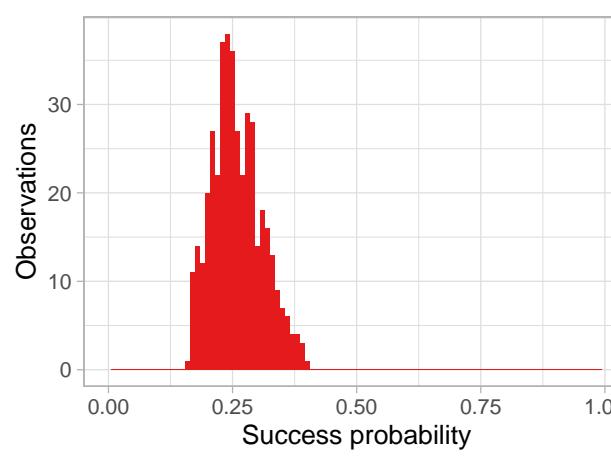
Karyotype: 2:0

N = 626; Tail 38.64%, C1 61.36%



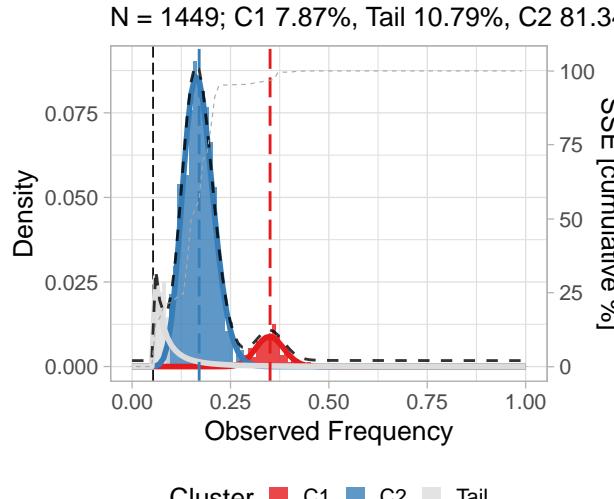
Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$



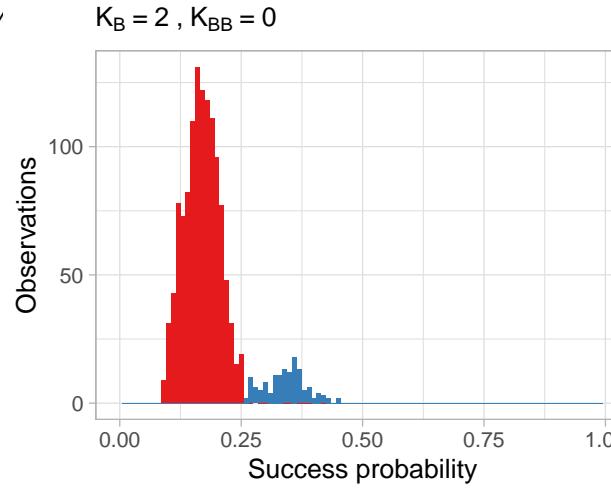
Karyotype: 2:2

N = 1449; C1 7.87%, Tail 10.79%, C2 81.34%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

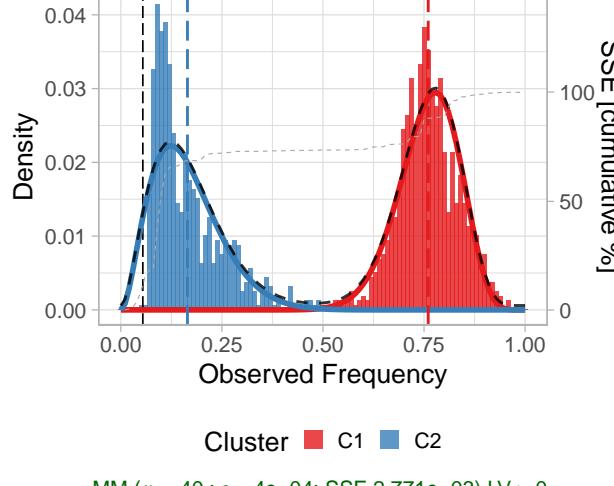


161101_HMFregCPCT_FR12244775_FR12244396_CPCT02030275

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

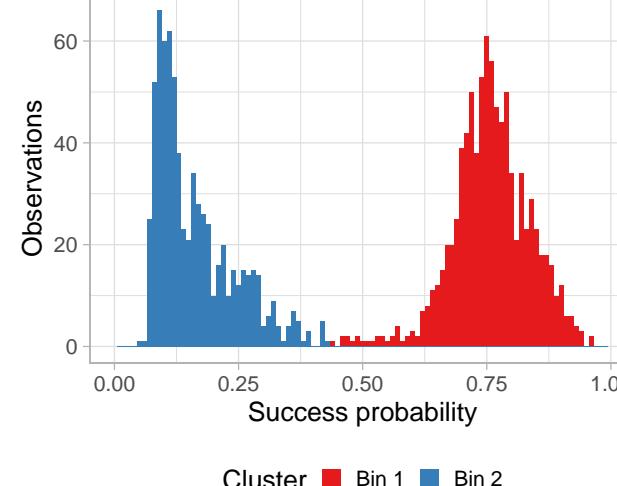
N = 1592; Tail 0%, C2 44.72%, C1 55.28%



MM ($\omega = 40$; $\epsilon = 4e-04$; SSE 2.771e-03) LV > 0

Karyotype: 1:0

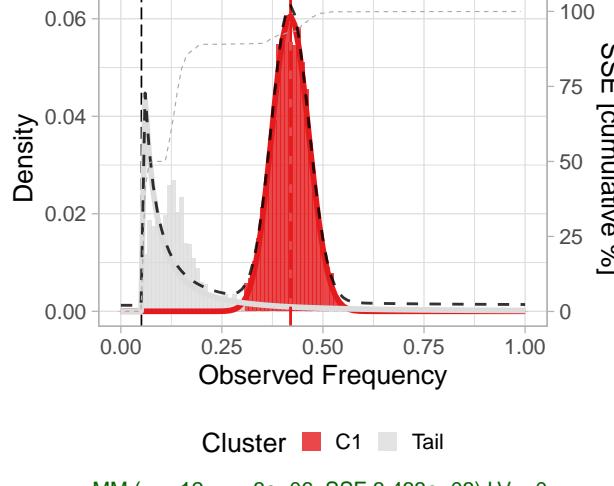
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 40$; $\epsilon = 4e-04$; SSE 2.771e-03) LV > 0

Karyotype: 1:1

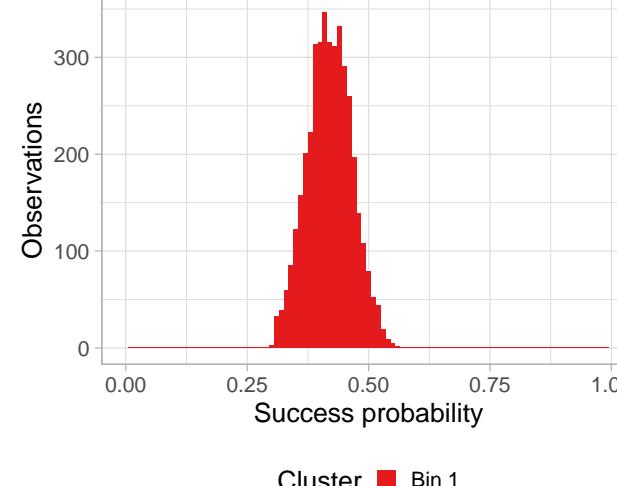
N = 5705; Tail 31%, C1 69%



MM ($\omega = 12$; $\epsilon = 3e-06$; SSE 3.433e-03) LV > 0

Karyotype: 1:1

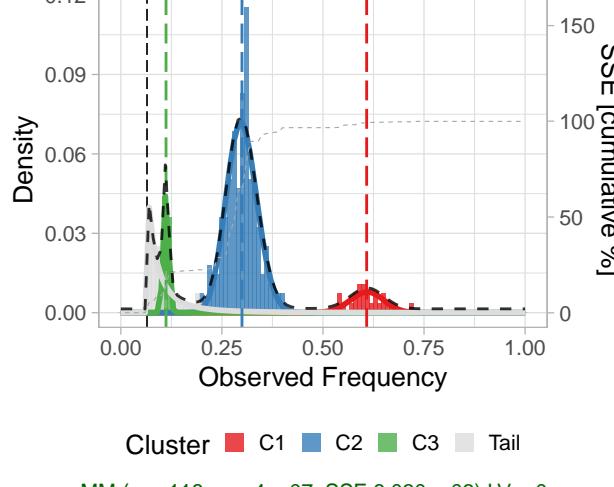
$K_B = 1$, $K_{BB} = 0$



MM ($\omega = 12$; $\epsilon = 3e-06$; SSE 3.433e-03) LV > 0

Karyotype: 2:1

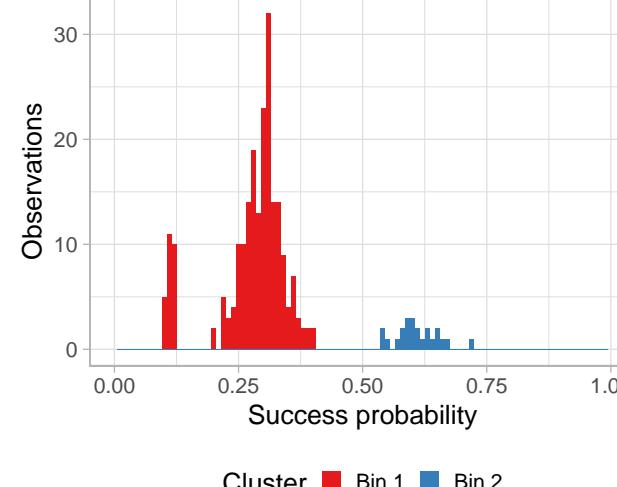
N = 277; C3 7.38%, C1 8.12%, Tail 16.45%, C



MM ($\omega = 118$; $\epsilon = 4e-07$; SSE 6.030e-03) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 118$; $\epsilon = 4e-07$; SSE 6.030e-03) LV > 0

2:0

2:0

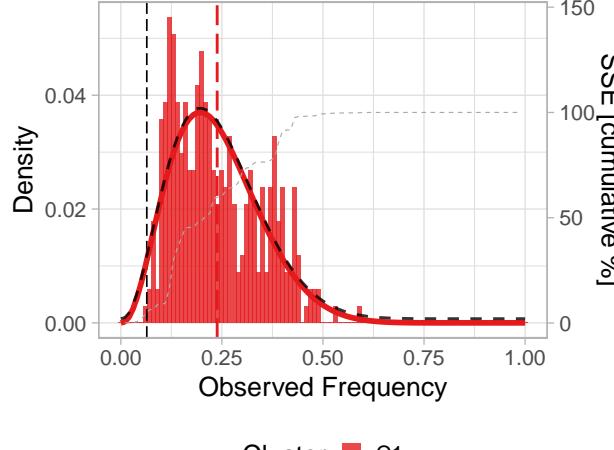
2:2

2:2

161101_HMFregCPCT_FR13271932_FR12244345_CPCT02020380

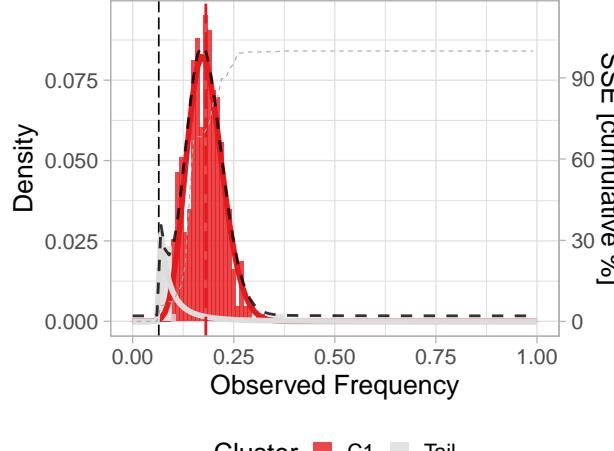
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 335; Tail 0%, C1 100%



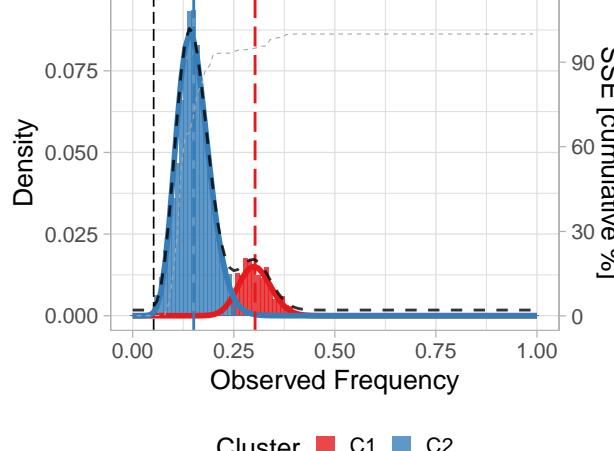
MM ($\omega = 200$; $\epsilon = 2e-05$; SSE $4.241e-03$) LV > 0

Karyotype: 1:1
N = 431; Tail 10.65%, C1 89.35%



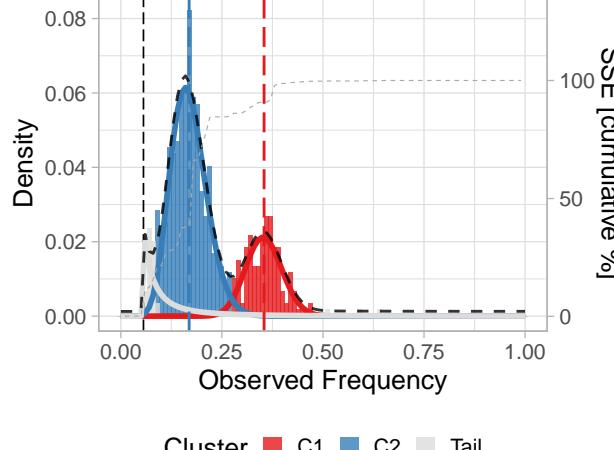
MM ($\omega = 90$; $\epsilon = 1e-06$; SSE $3.462e-03$) LV > 0

Karyotype: 2:1
N = 2691; Tail 0%, C1 14.98%, C2 85.02%



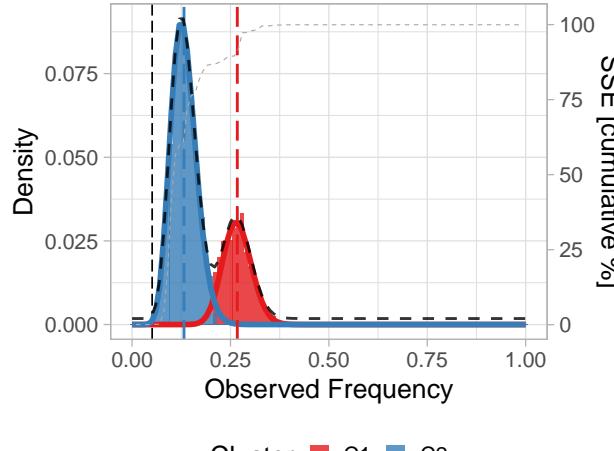
MM ($\omega = 139$; $\epsilon = 4e-06$; SSE $1.501e-03$) LV > 0

Karyotype: 2:0
N = 596; Tail 9.38%, C1 23.68%, C2 66.94%



MM ($\omega = 94$; $\epsilon = 1e-06$; SSE $2.641e-03$) LV > 0

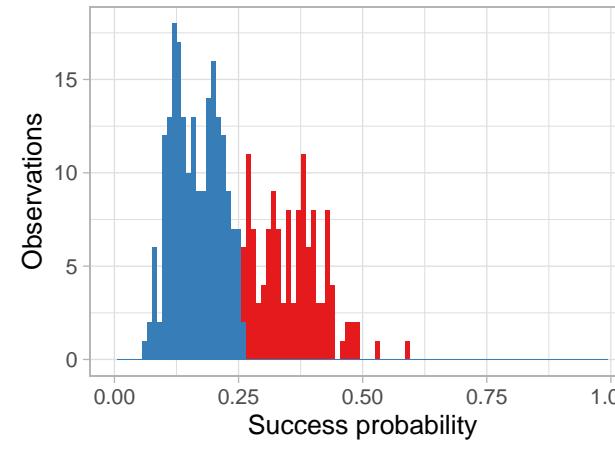
Karyotype: 2:2
N = 3903; Tail 0%, C1 27.73%, C2 72.27%



MM ($\omega = 200$; $\epsilon = 5e-03$; SSE $1.164e-03$) LV > 0

Karyotype: 1:0

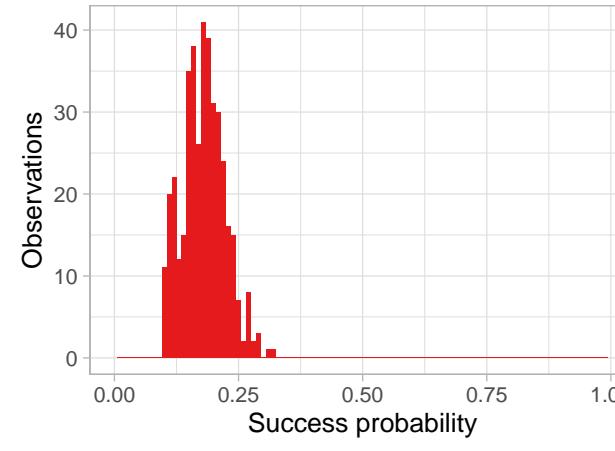
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

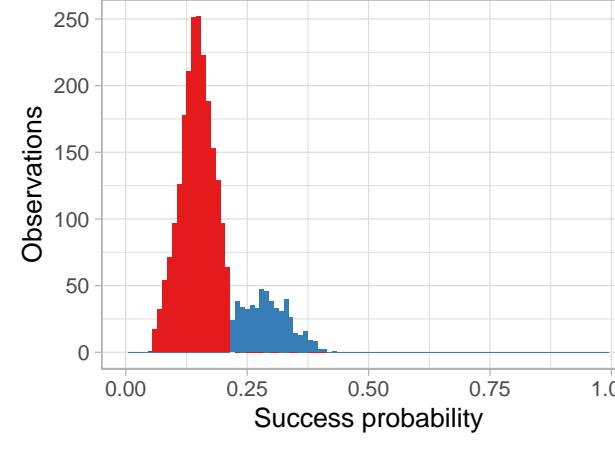
$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

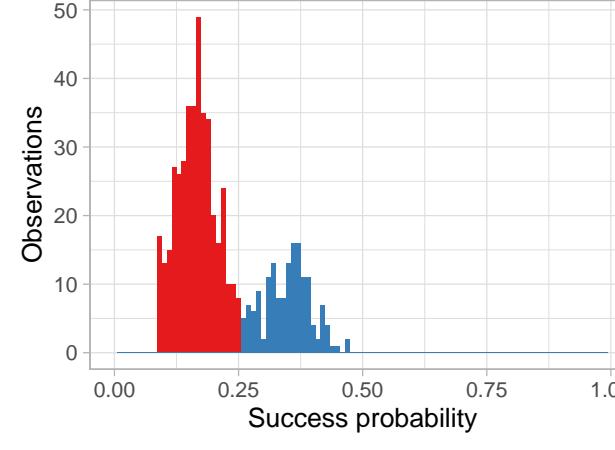
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

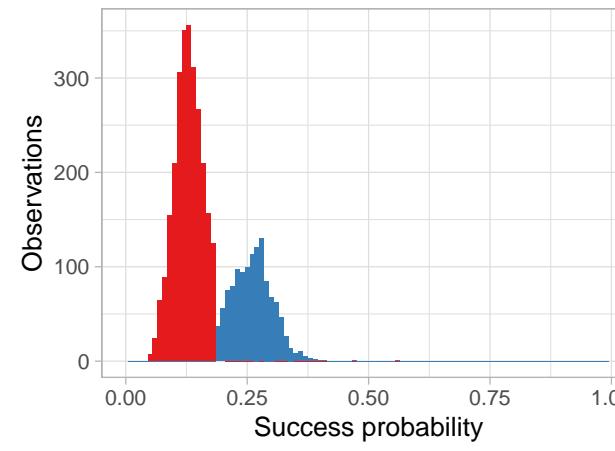
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



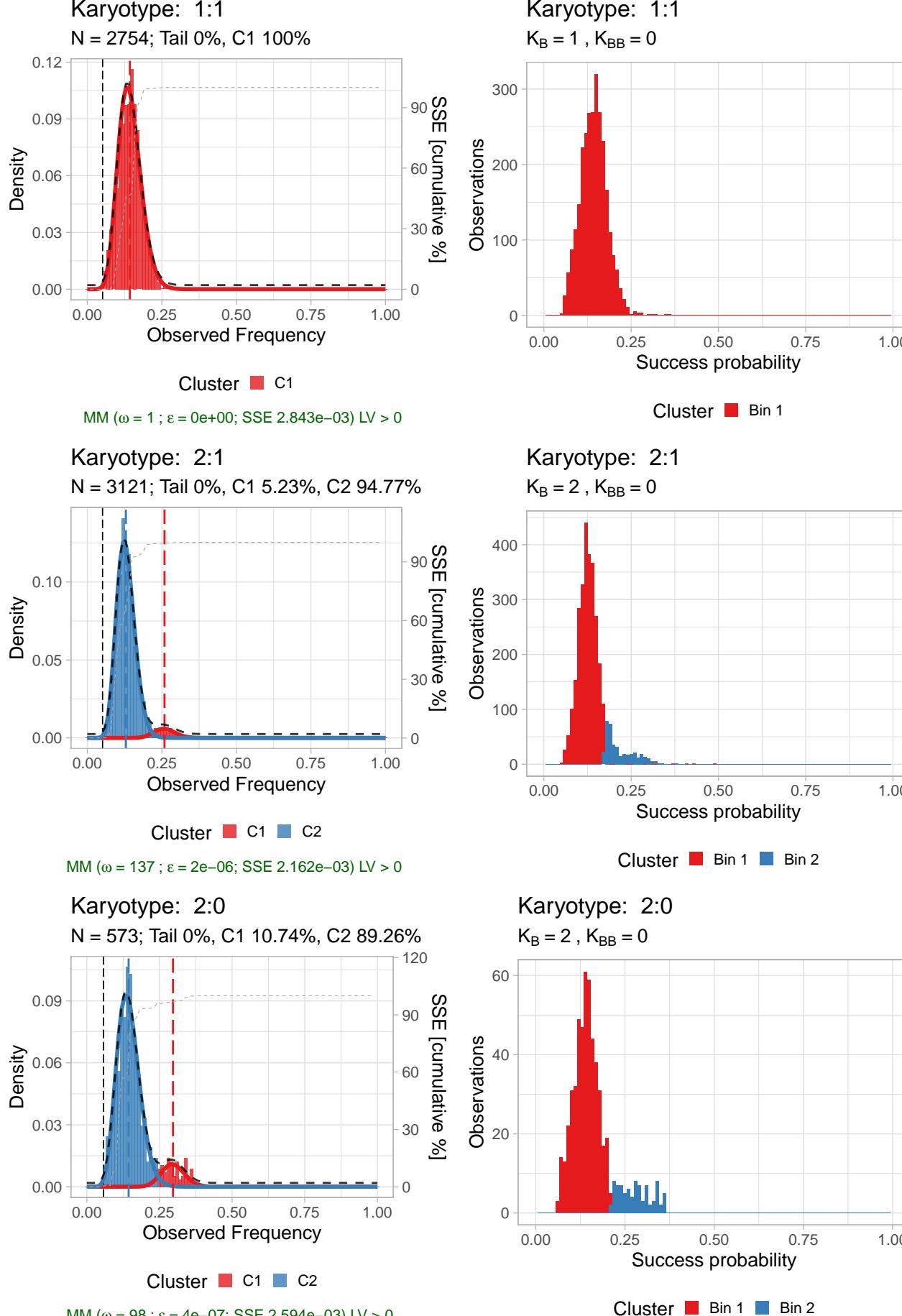
Cluster ■ Bin 1 ■ Bin 2

161101_HMFregCPCT_FR13271941_FR12244398_CPCT02080041

ONLY SNVs (min 150 – max 50000)

1:0

1:0



2:2

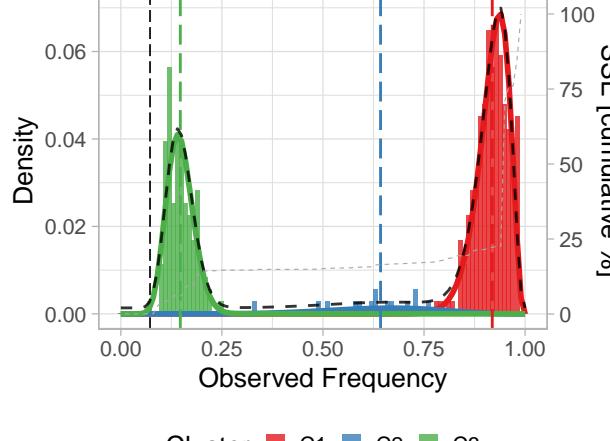
2:2

161101_HMFregCPCT_FR13271959_FR03631833_CPCT02140017

ONLY SNVs (min 150 – max 50000)

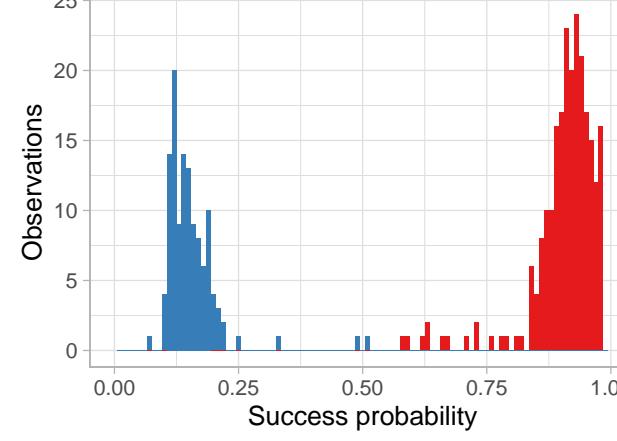
Karyotype: 1:0

N = 355; Tail 0%, C2 4.45%, C3 33.23%, C1 6



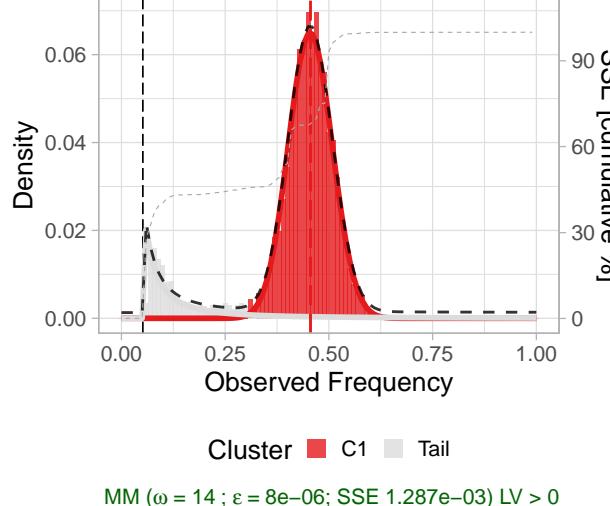
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



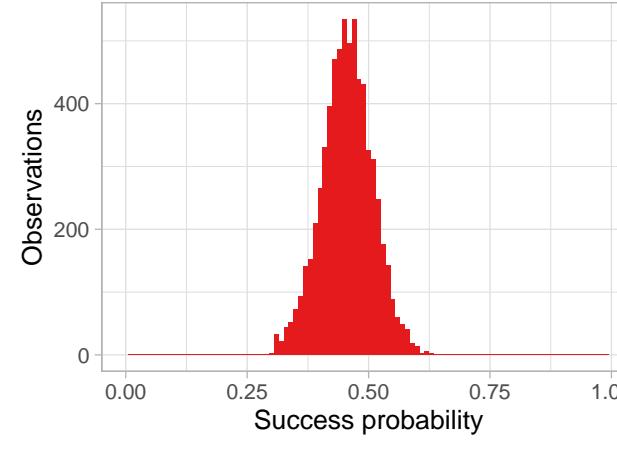
Karyotype: 1:1

N = 7687; Tail 14.16%, C1 85.84%



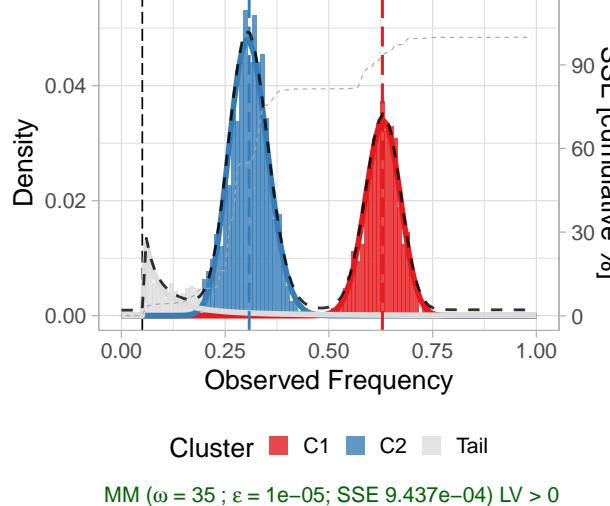
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



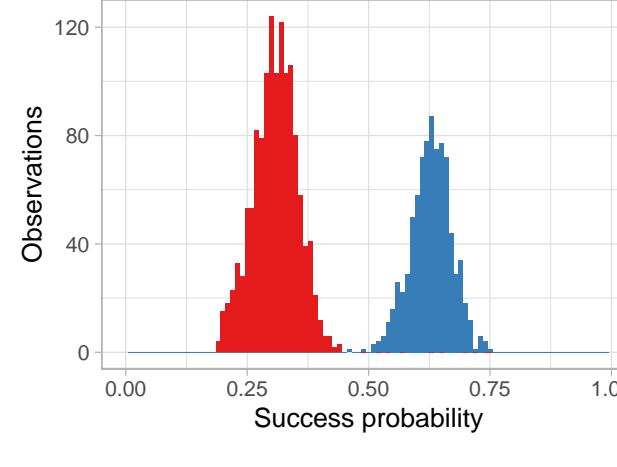
Karyotype: 2:1

N = 2332; Tail 8.96%, C1 35.54%, C2 55.5%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

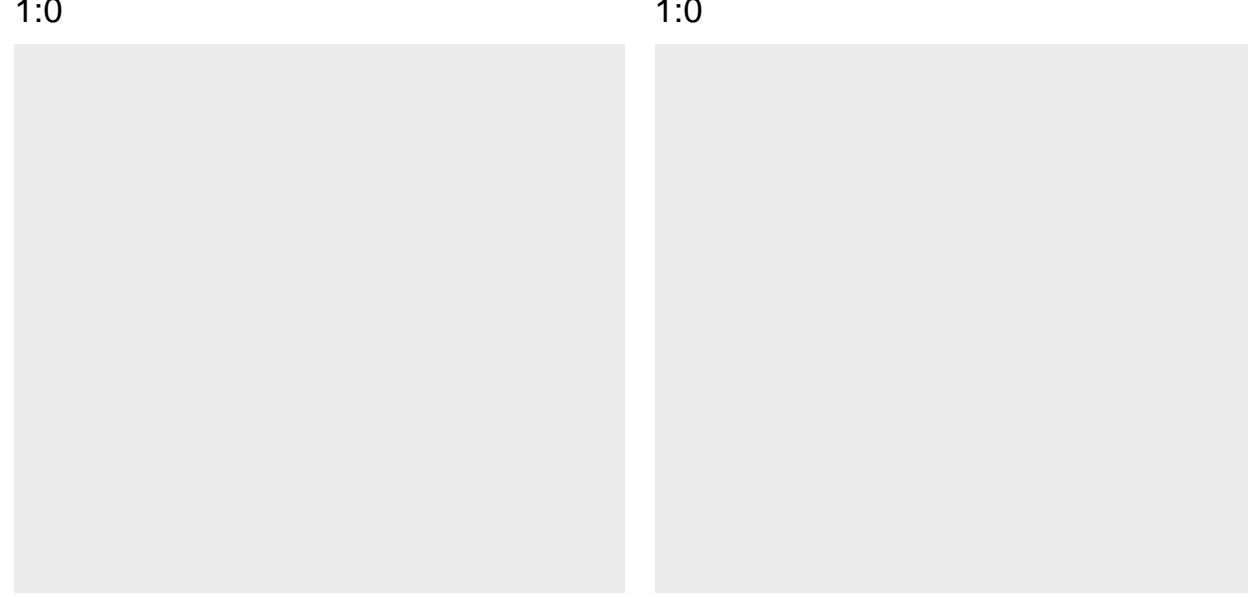
2:0

2:2

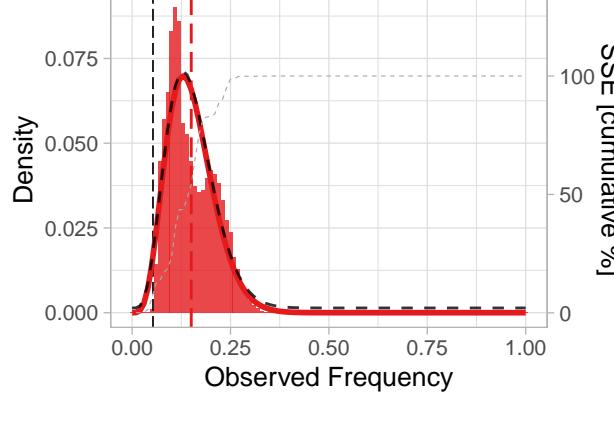
2:2

161108_HMFregCPCT_FR12244761_FR13272009_CPCT02020386

ONLY SNVs (min 150 – max 50000)

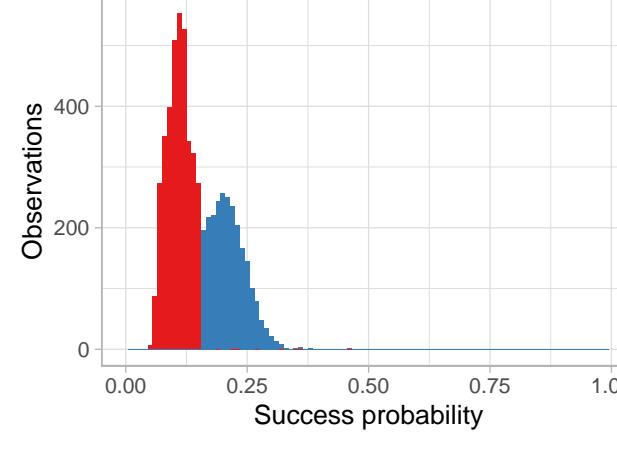


Karyotype: 2:1
N = 6131; Tail 0%, C1 100%

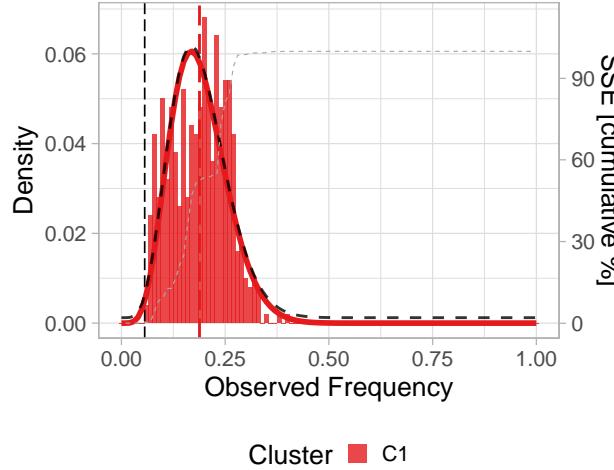


MM ($\omega = 8$; $\epsilon = 2e-02$; SSE 4.376e-03) LV > 0

Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$

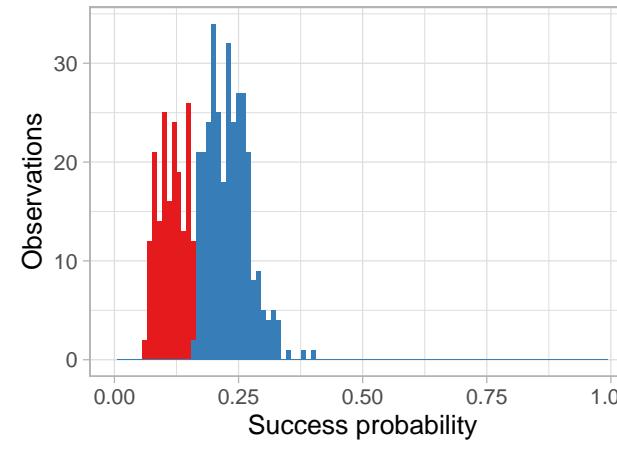


Karyotype: 2:0
N = 499; Tail 0%, C1 100%

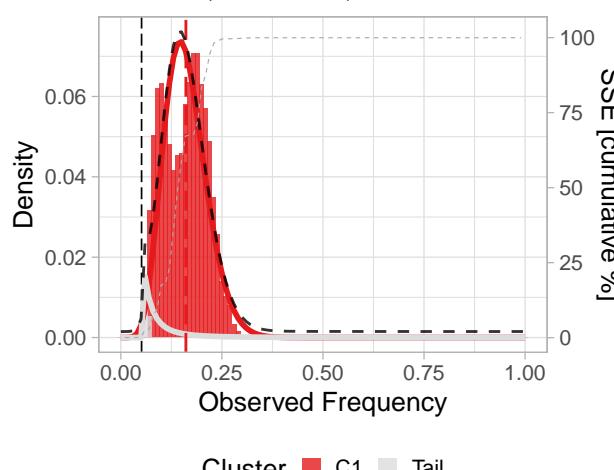


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 5.669e-03) LV > 0

Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$

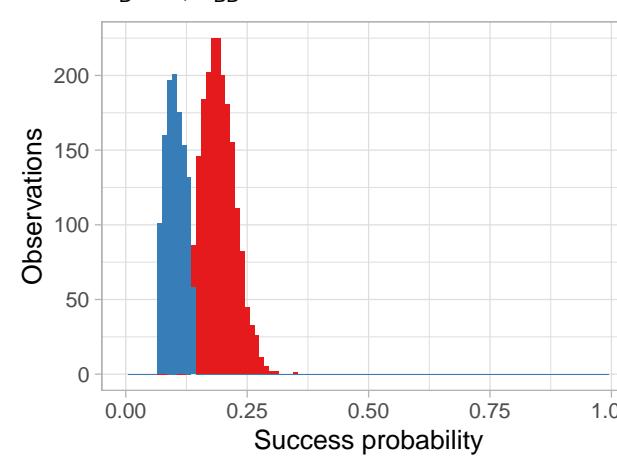


Karyotype: 2:2
N = 3172; Tail 6.39%, C1 93.61%



MM ($\omega = 127$; $\epsilon = 2e-05$; SSE 6.102e-03) LV > 0

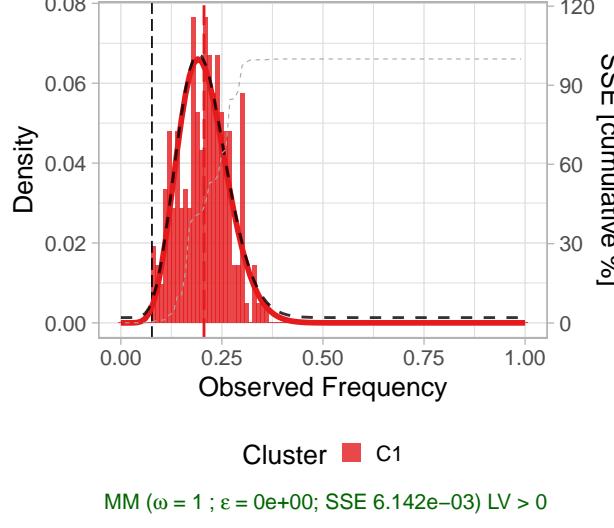
Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



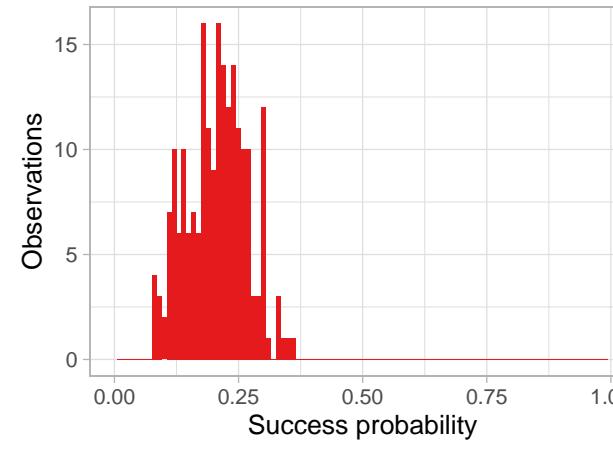
161108_HMFregCPCT_FR12244762_FR13272014_CPCT02020385

ONLY SNVs (min 150 – max 50000)

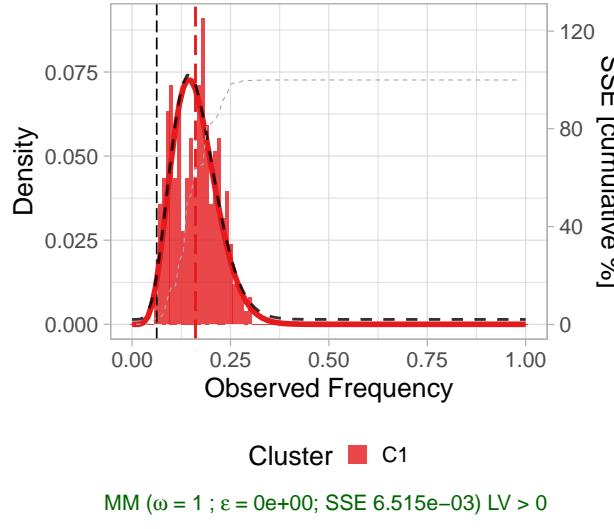
Karyotype: 1:0
N = 209; Tail 0%, C1 100%



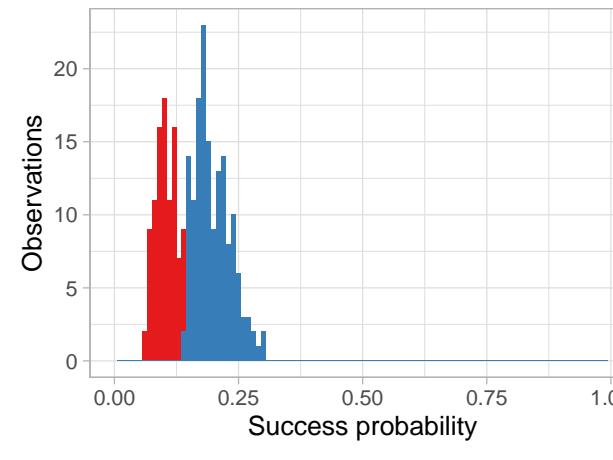
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



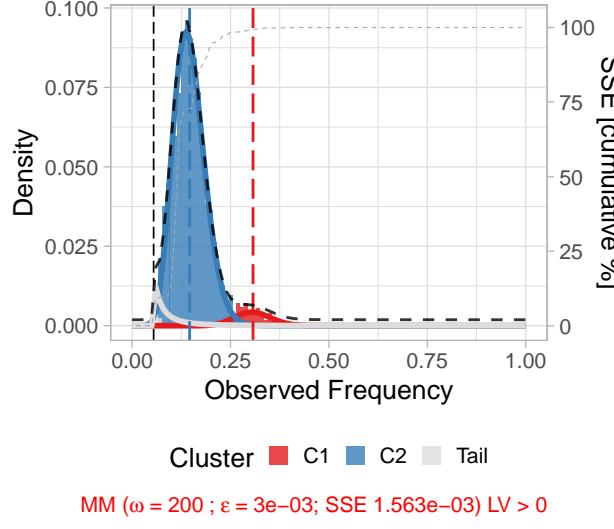
Karyotype: 1:1
N = 253; Tail 0%, C1 100%



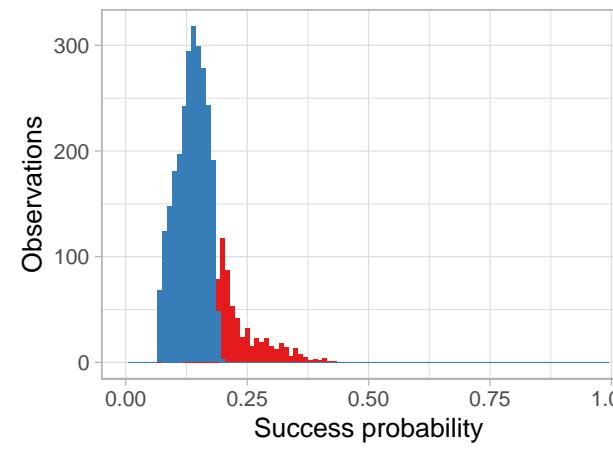
Karyotype: 1:1
 $K_B = 2, K_{BB} = 0$



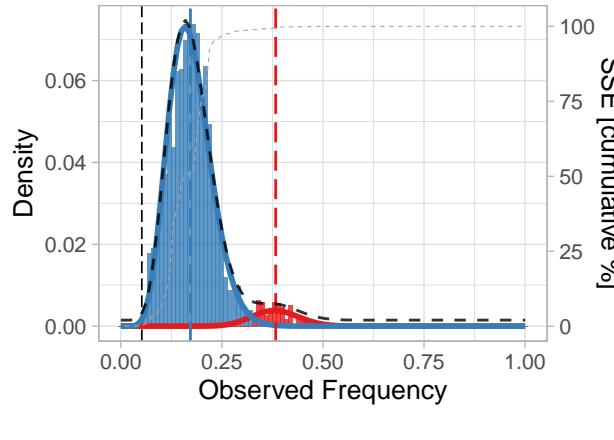
Karyotype: 2:1
N = 3304; Tail 4.49%, C1 4.83%, C2 90.67%



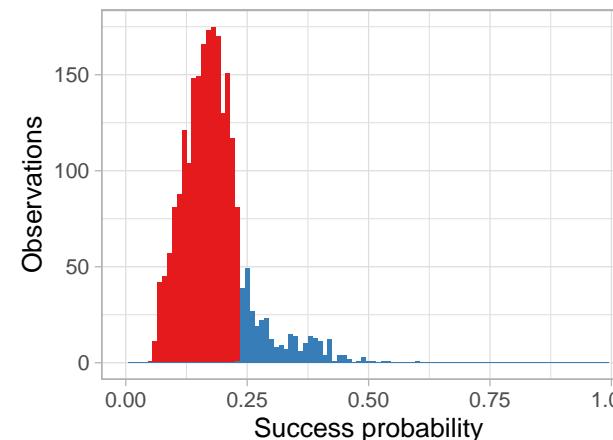
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



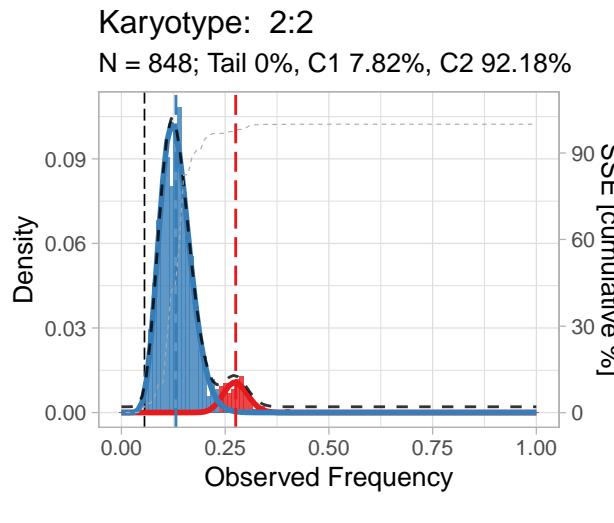
Karyotype: 2:0
N = 2376; Tail 0%, C1 5.42%, C2 94.58%



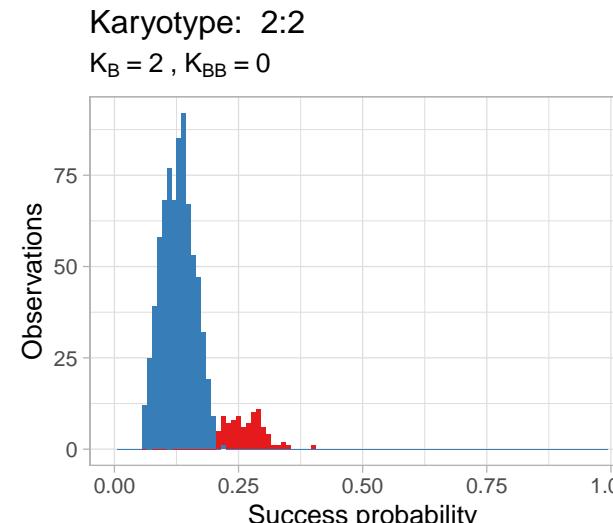
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 848; Tail 0%, C1 7.82%, C2 92.18%



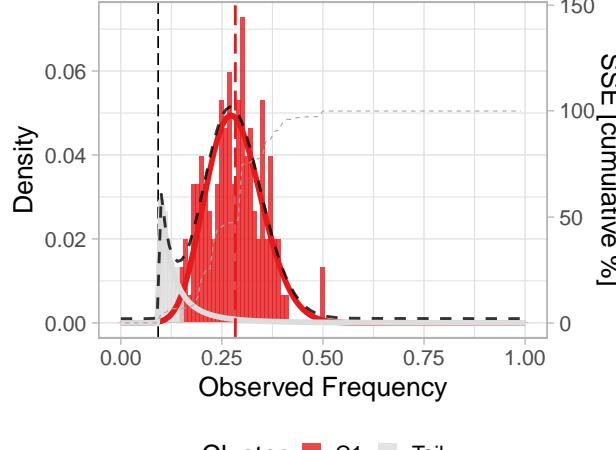
Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$



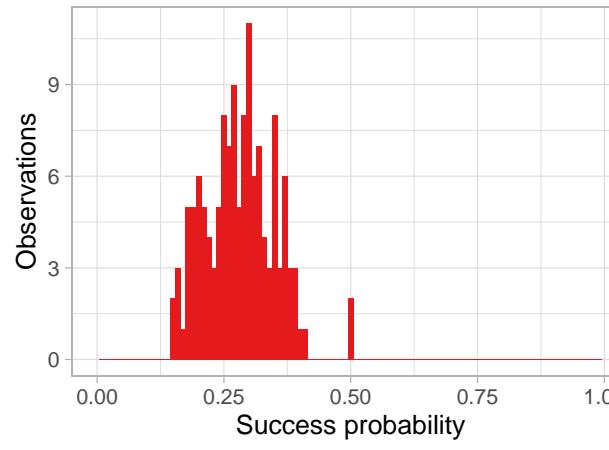
161108_HMFregCPCT_FR12244778_FR13272013_CPCT02020382

ONLY SNVs (min 150 – max 50000)

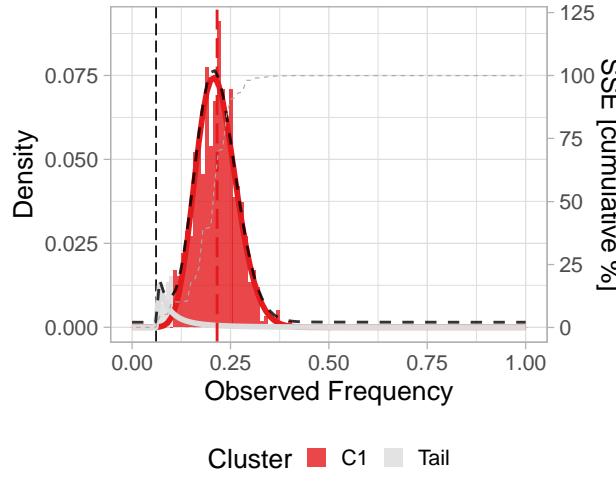
Karyotype: 1:0
N = 151; Tail 14.71%, C1 85.29%



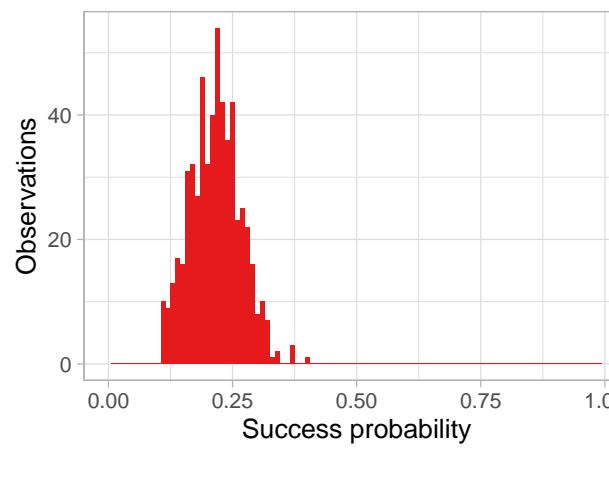
Karyotype: 1:0
 $K_B = 1$, $K_{BB} = 0$



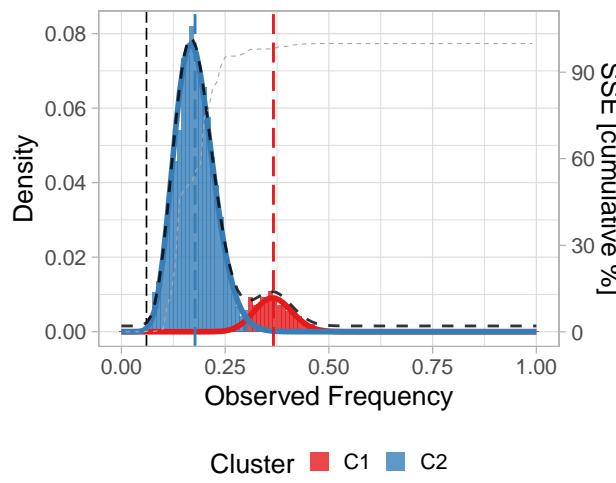
Karyotype: 1:1
N = 593; Tail 6.25%, C1 93.75%



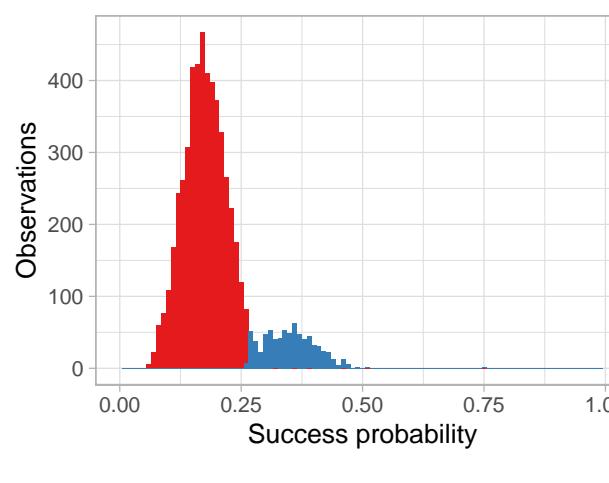
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



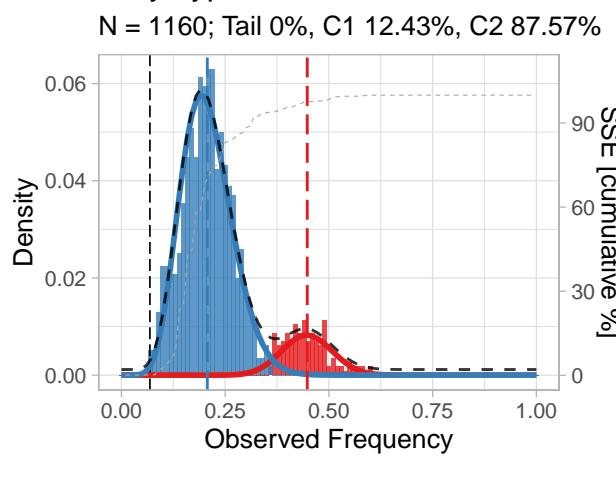
Karyotype: 2:1
N = 5691; Tail 0%, C1 10.22%, C2 89.78%



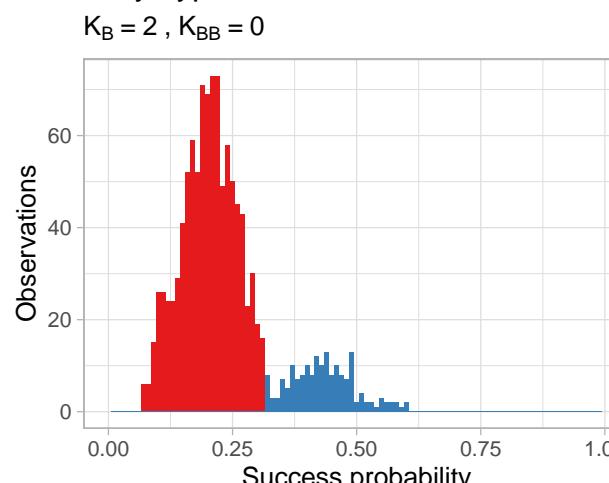
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



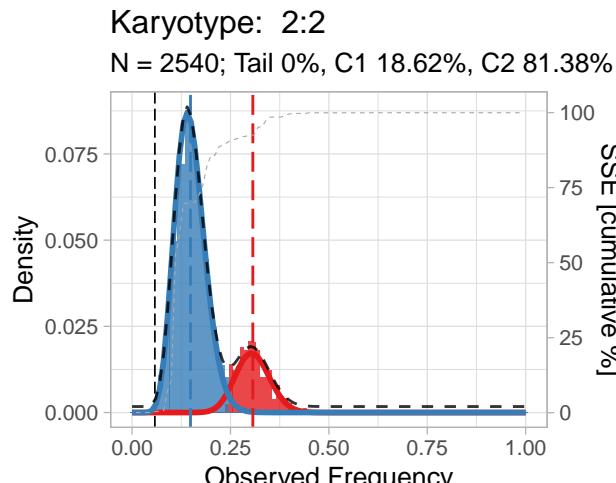
Karyotype: 2:0
N = 1160; Tail 0%, C1 12.43%, C2 87.57%



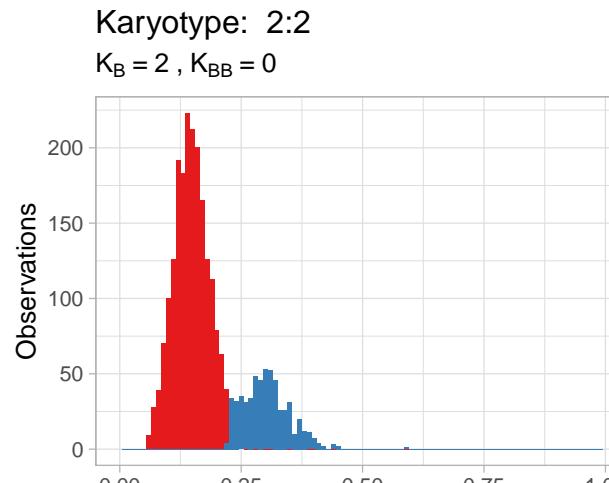
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 2540; Tail 0%, C1 18.62%, C2 81.38%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

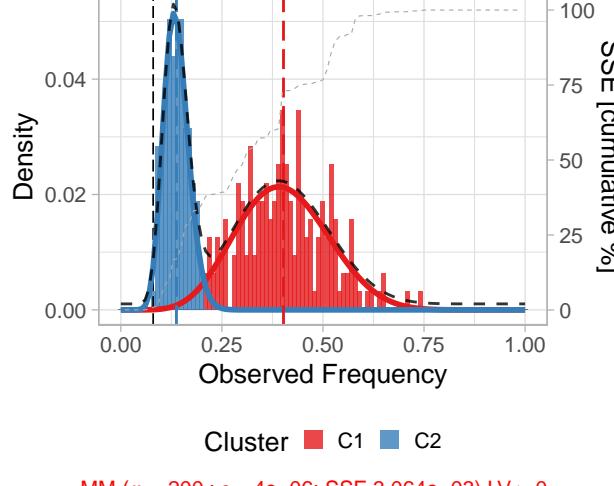


161112_HMFregCPCT_FR12244777_FR13272008_CPCT02020388

ONLY SNVs (min 150 – max 50000)

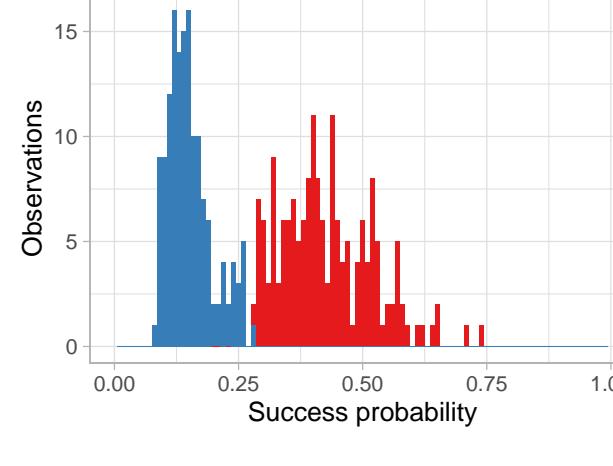
Karyotype: 1:0

N = 318; Tail 0%, C2 38.97%, C1 61.03%



Karyotype: 1:0

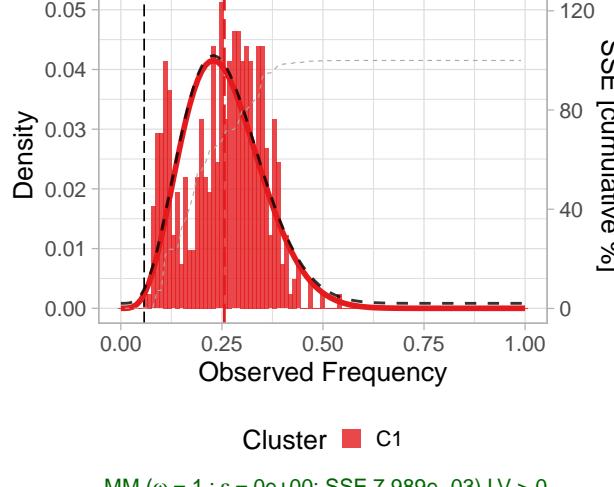
$K_B = 2, K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 4e-06$; SSE 3.064e-03) LV > 0

Karyotype: 1:1

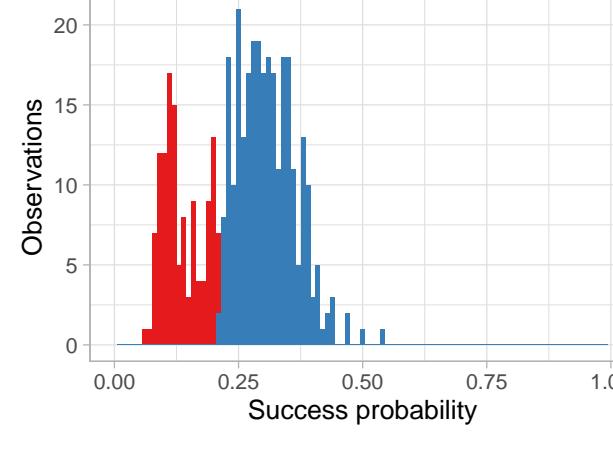
N = 410; Tail 0%, C1 100%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

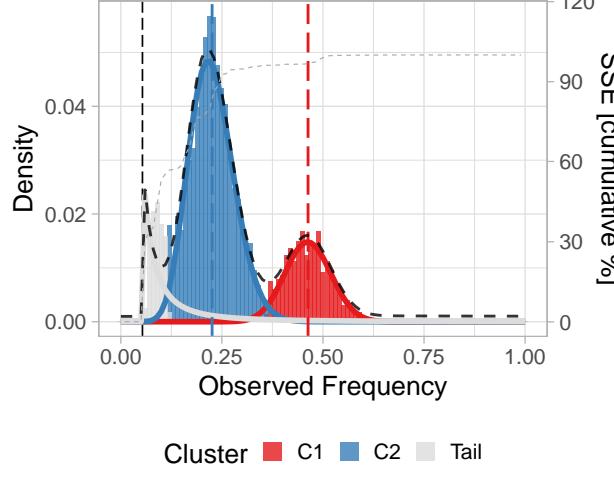
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

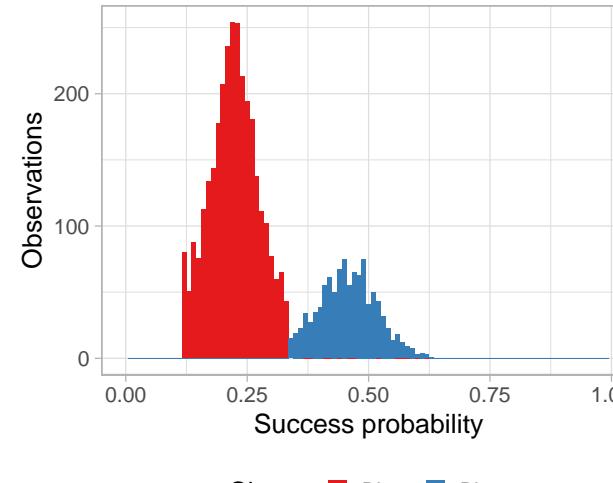
Karyotype: 2:1

N = 4473; Tail 12.73%, C1 20.99%, C2 66.28%



Karyotype: 2:1

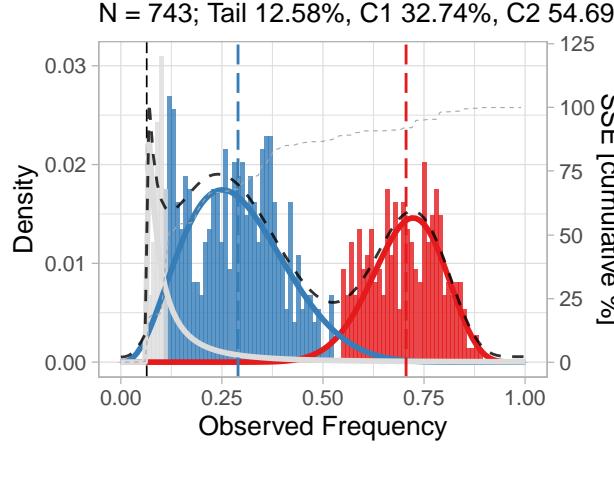
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

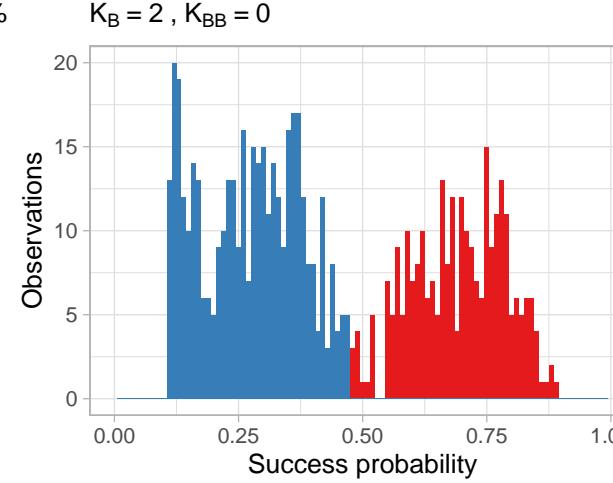
Karyotype: 2:0

N = 743; Tail 12.58%, C1 32.74%, C2 54.69%



Karyotype: 2:0

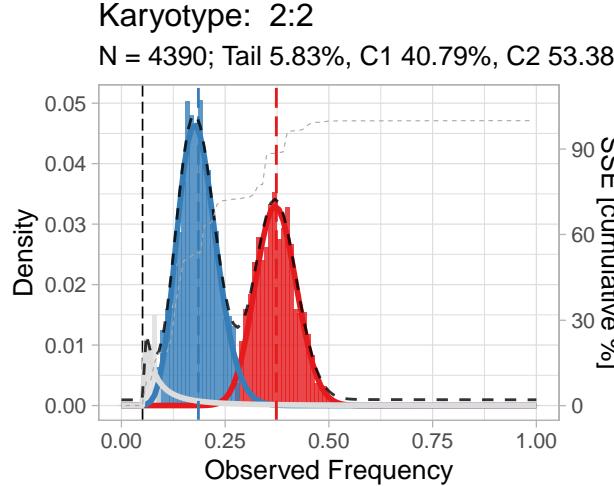
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

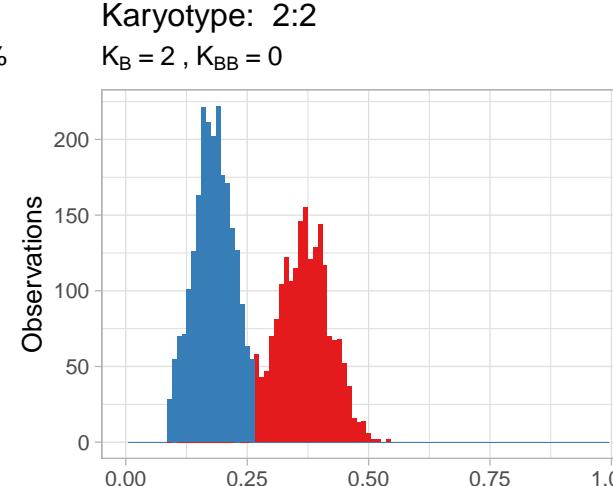
Karyotype: 2:2

N = 4390; Tail 5.83%, C1 40.79%, C2 53.38%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

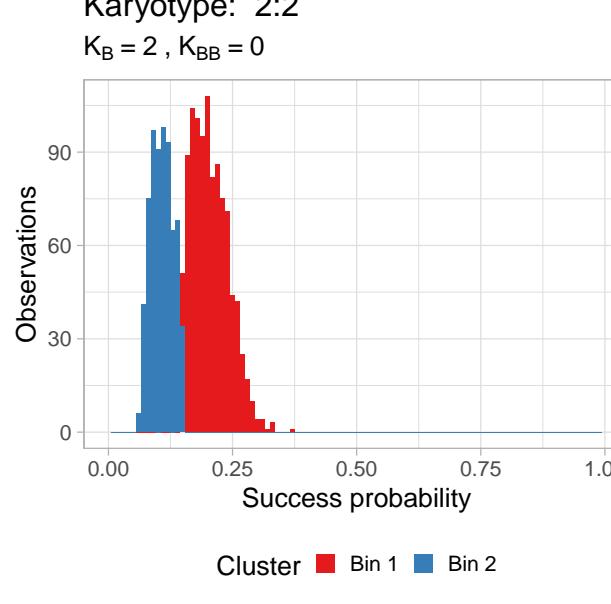
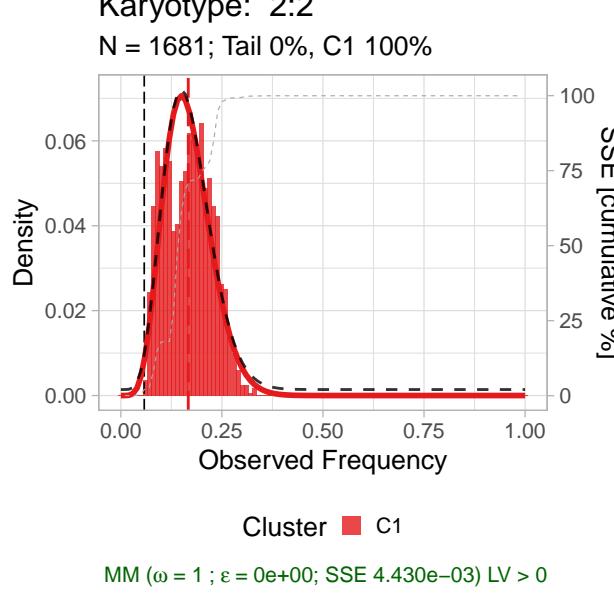
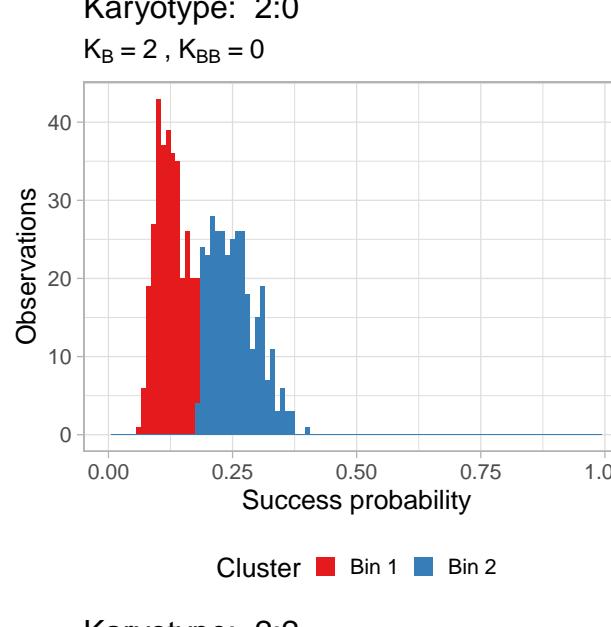
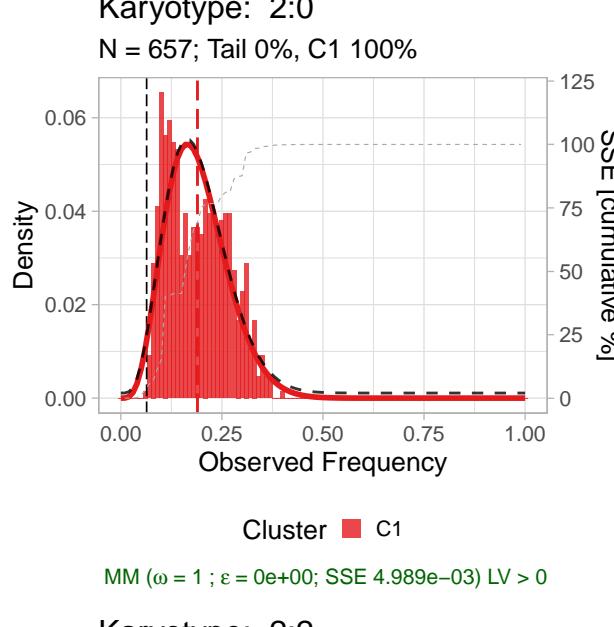
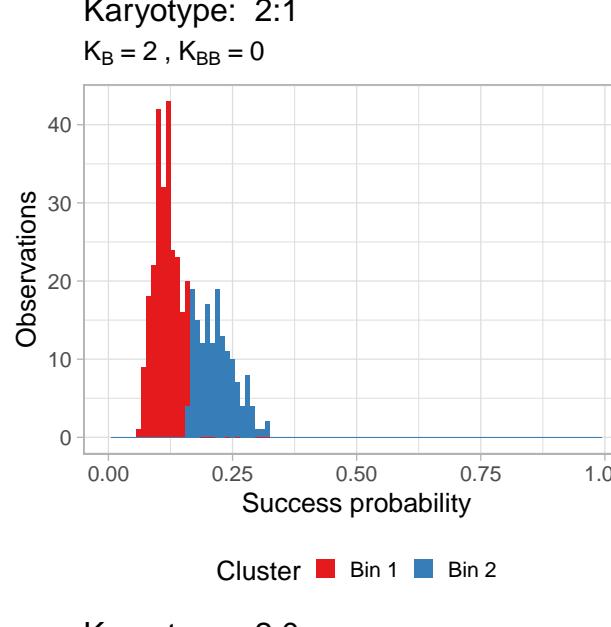
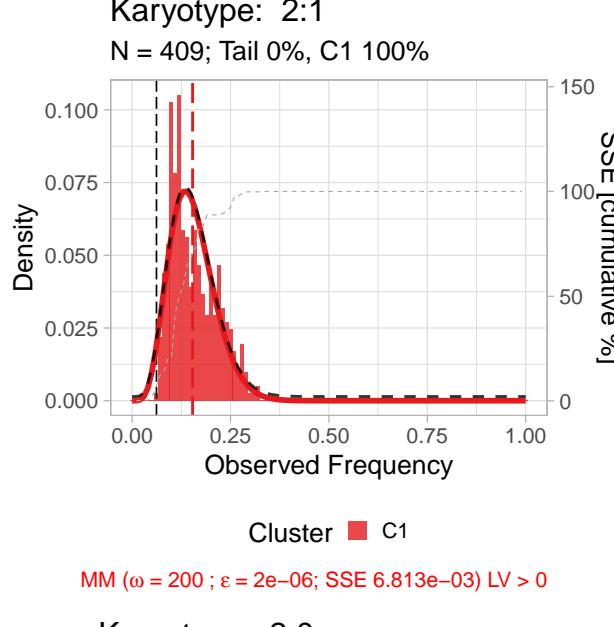
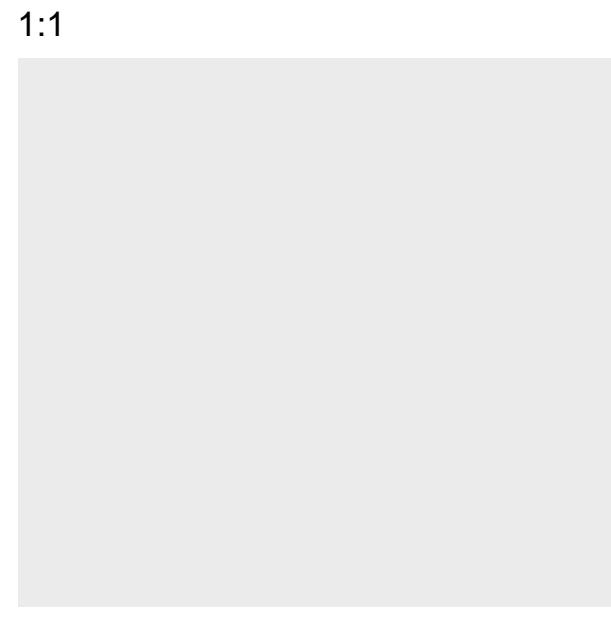
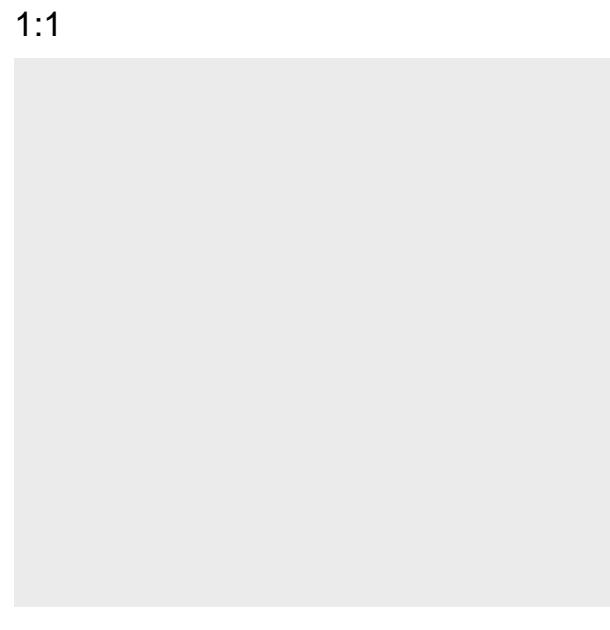
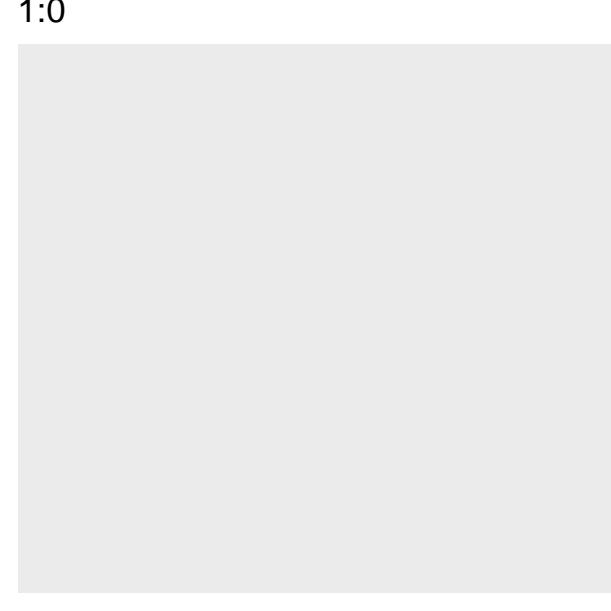
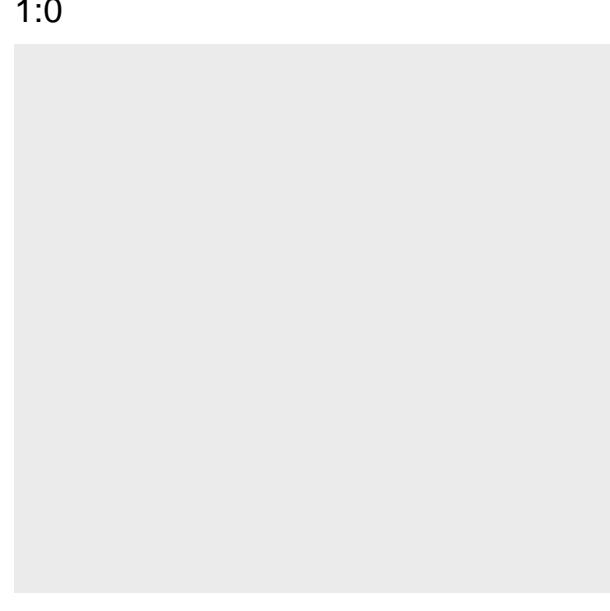


Cluster ■ Bin 1 ■ Bin 2

MM ($\omega = 102$; $\epsilon = 1e-05$; SSE 5.877e-04) LV > 0

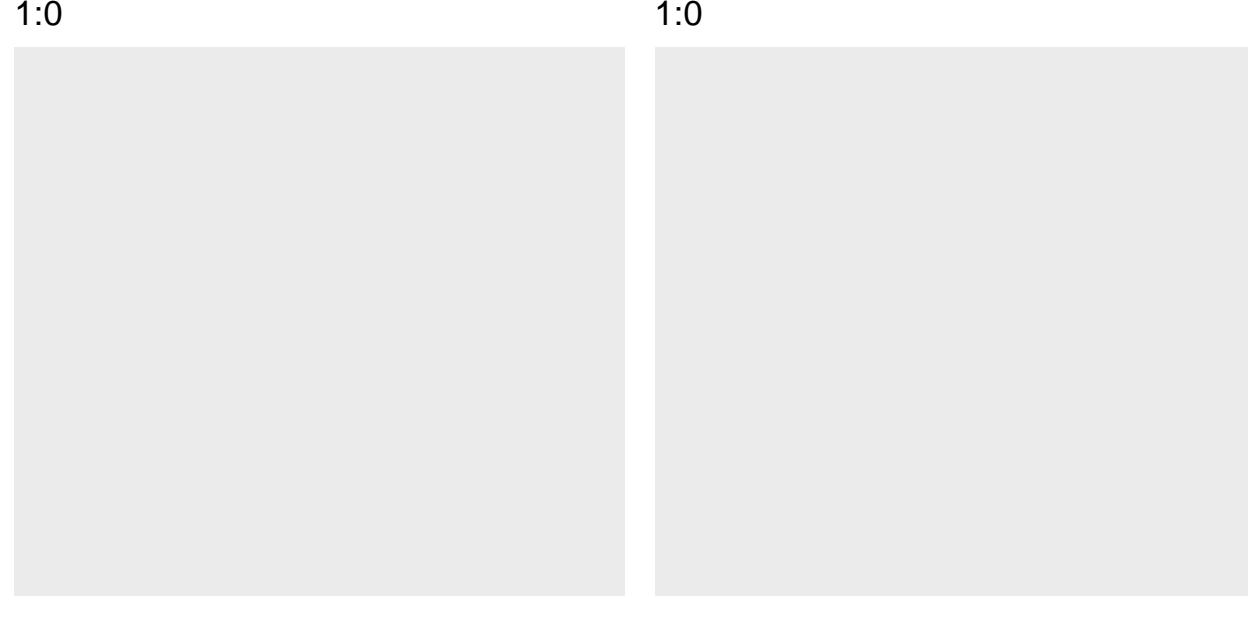
161112_HMFregCPCT_FR12244785_FR12251557_CPCT02190002

ONLY SNVs (min 150 – max 50000)



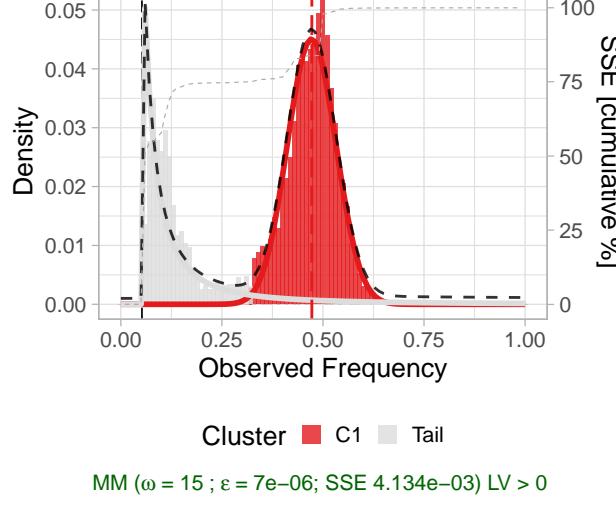
161112_HMFregCPCT_FR13271922_FR13272015_CPCT02020393

ONLY SNVs (min 150 – max 50000)



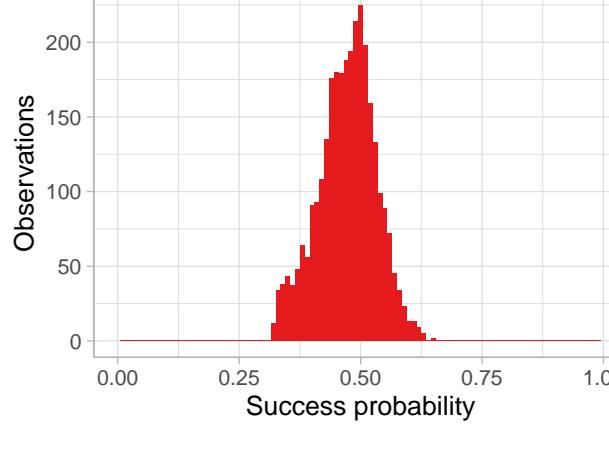
Karyotype: 1:1

N = 4331; Tail 32.74%, C1 67.26%



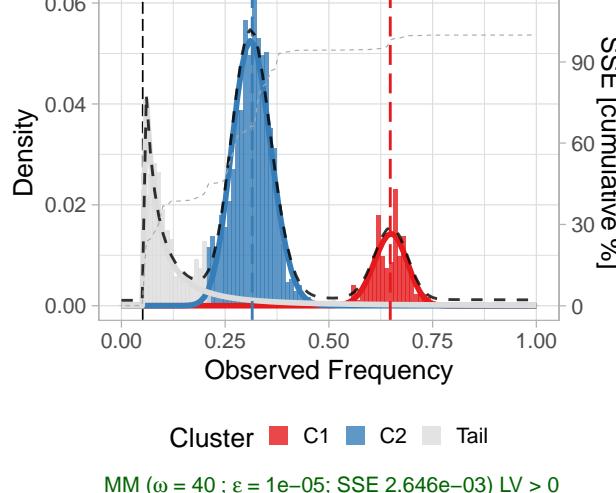
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



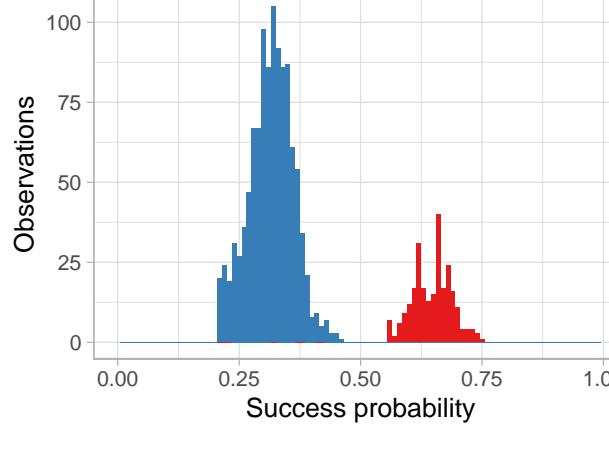
Karyotype: 2:1

N = 1732; C1 14.14%, Tail 24.72%, C2 61.13%



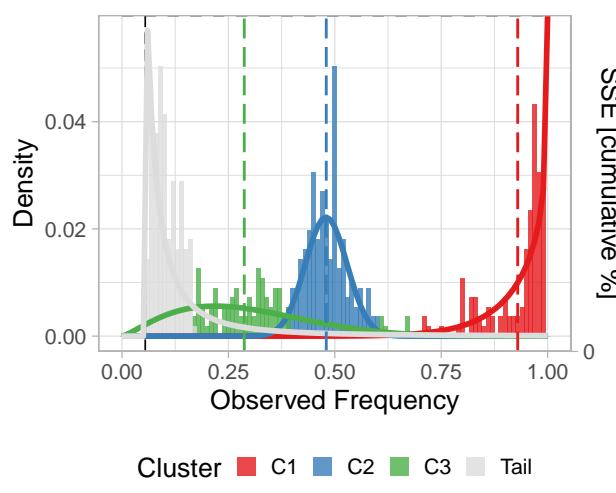
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



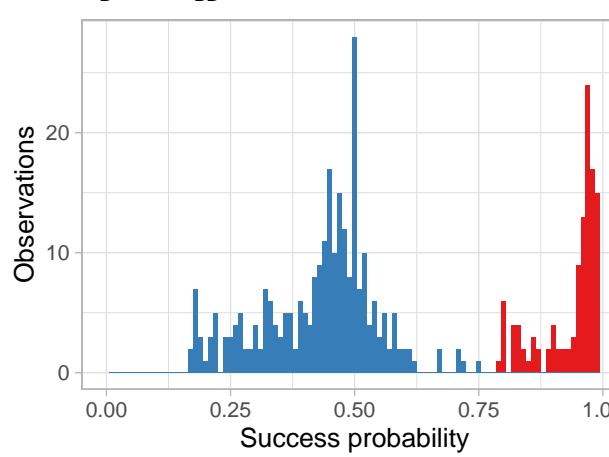
Karyotype: 2:0

N = 556; C1 21.19%, C3 21.36%, C2 27.12%,



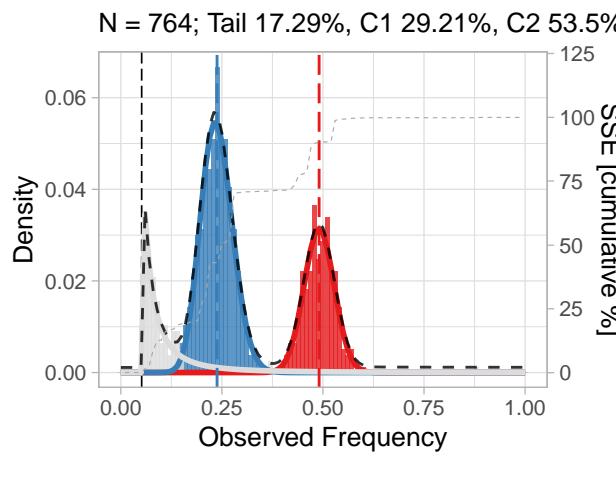
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



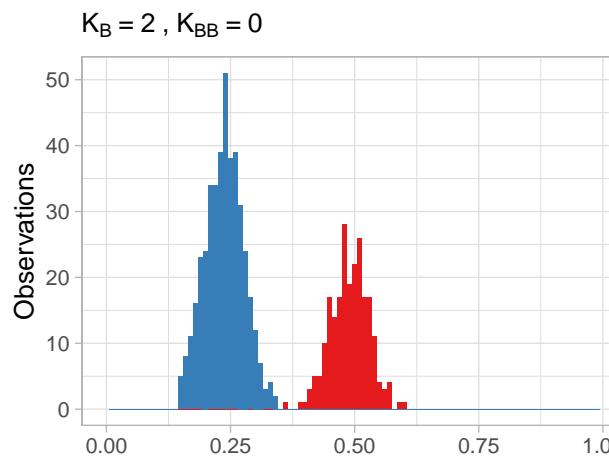
Karyotype: 2:2

N = 764; Tail 17.29%, C1 29.21%, C2 53.5%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

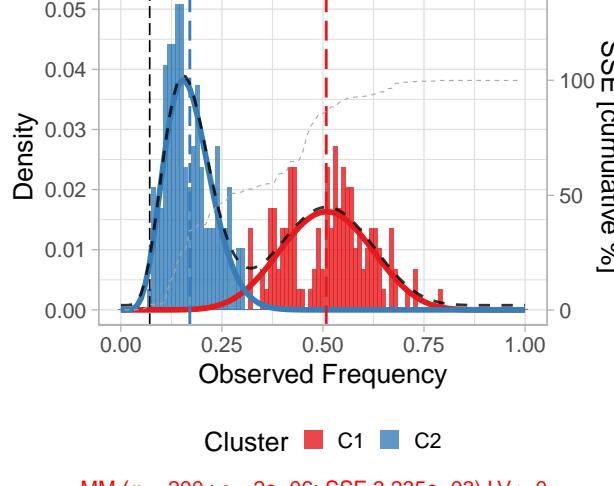


161112_HMFregCPCT_FR13271923_FR12251586_CPCT02040046

ONLY SNVs (min 150 – max 50000)

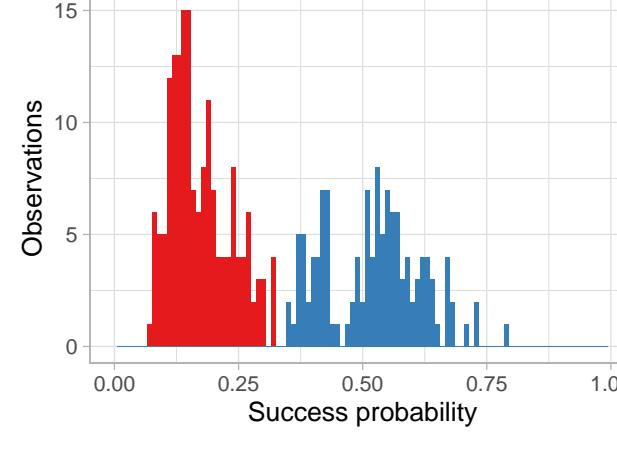
Karyotype: 1:0

N = 295; Tail 0%, C1 45.77%, C2 54.23%



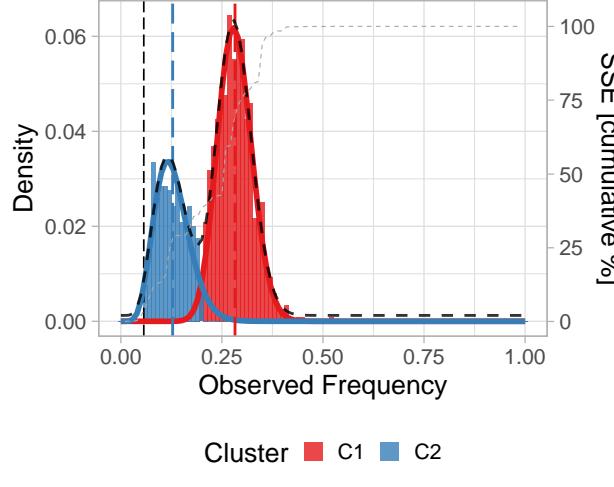
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



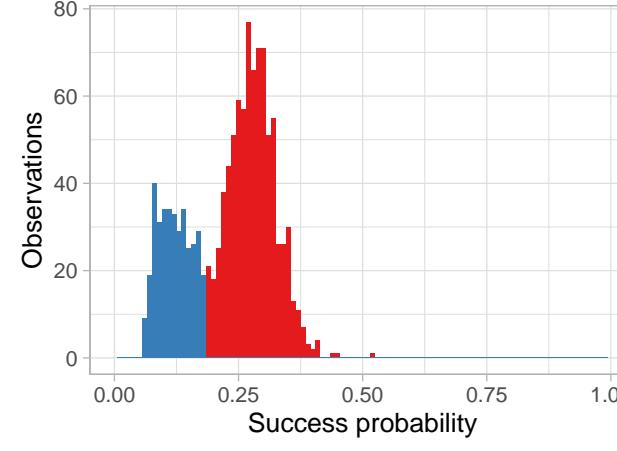
Karyotype: 1:1

N = 1196; Tail 0%, C2 34.86%, C1 65.14%



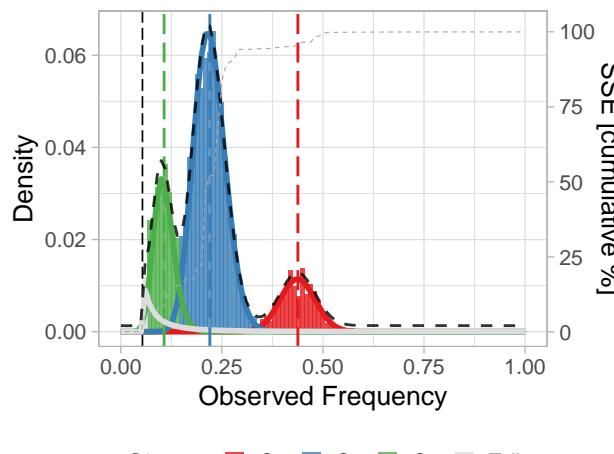
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



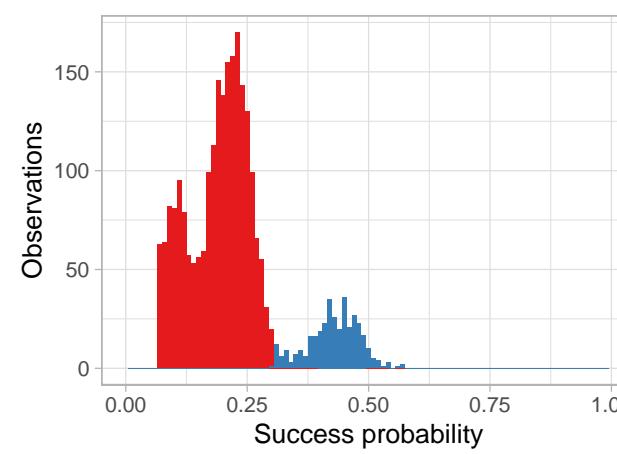
Karyotype: 2:1

N = 2608; Tail 4.41%, C1 12.42%, C3 20.28%



Karyotype: 2:1

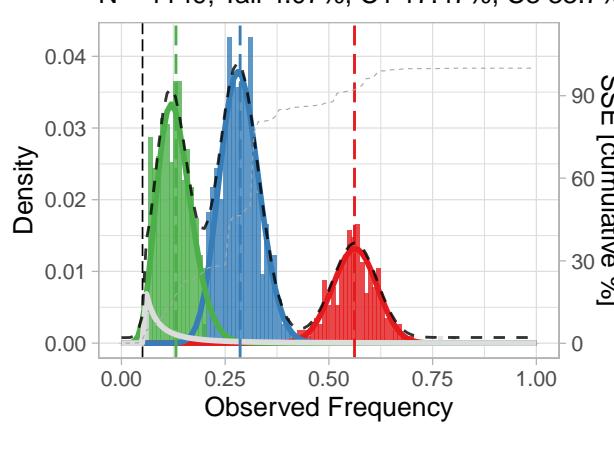
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 3e-06$; SSE 9.046e-04) LV > 0

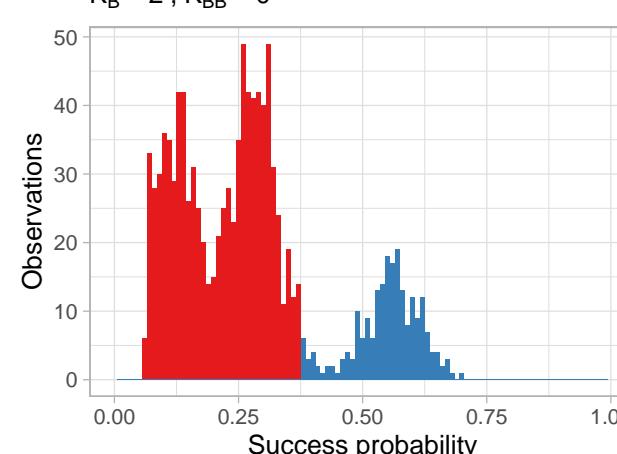
Karyotype: 2:0

N = 1149; Tail 4.07%, C1 17.47%, C3 33.7%, C2 48.8%



Karyotype: 2:0

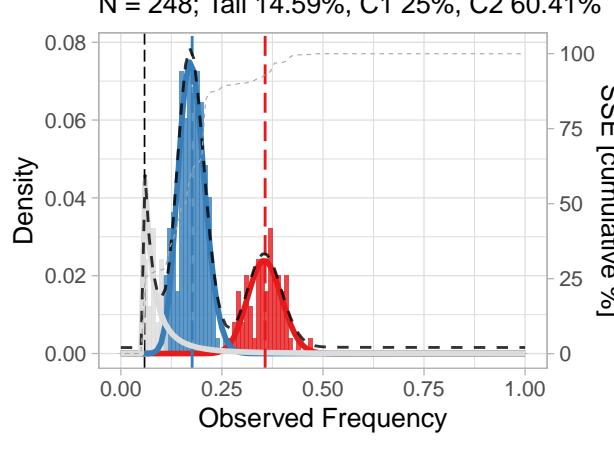
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 3e-06$; SSE 9.046e-04) LV > 0

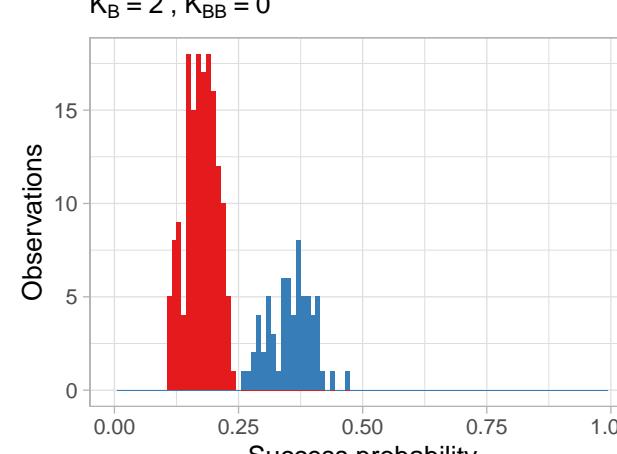
Karyotype: 2:2

N = 248; Tail 14.59%, C1 25%, C2 60.41%



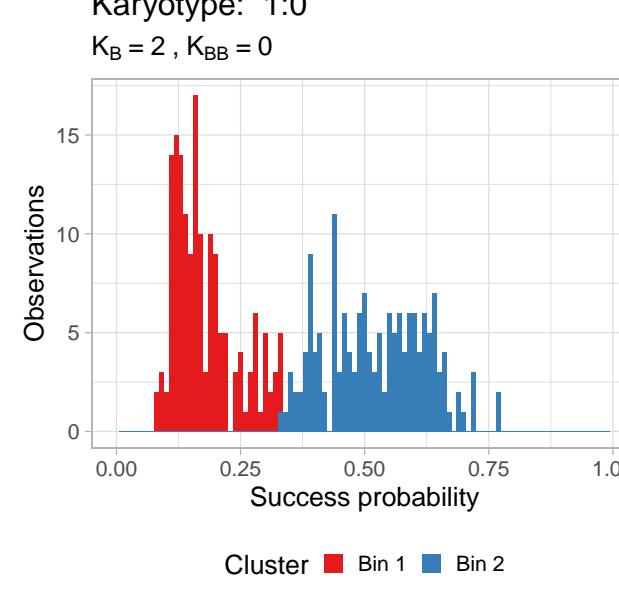
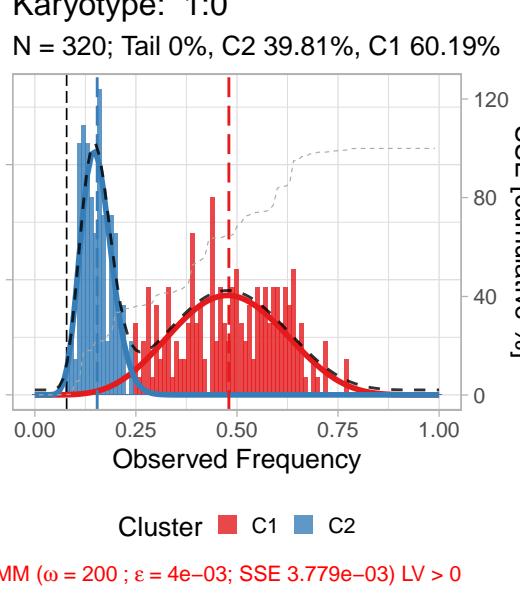
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

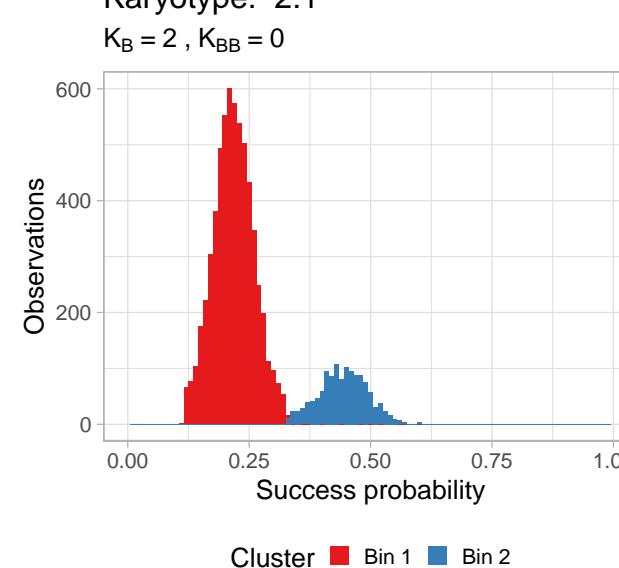
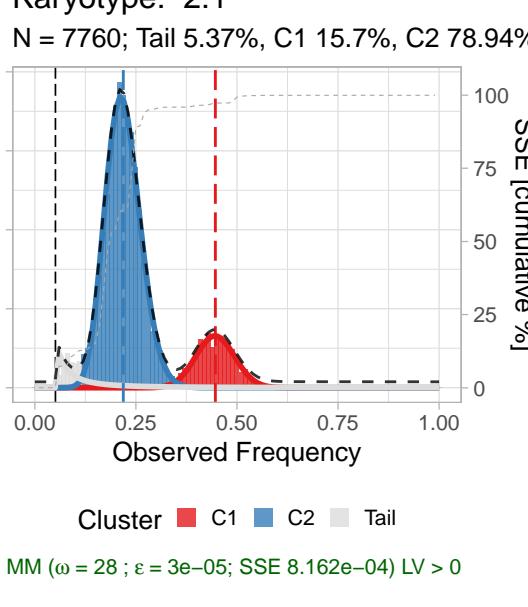
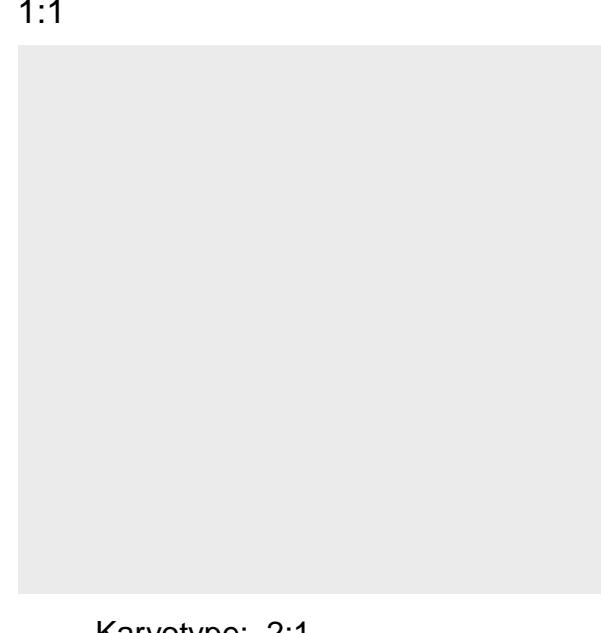


161112_HMFregCPCT_FR13271926_FR13272007_CPCT02020383

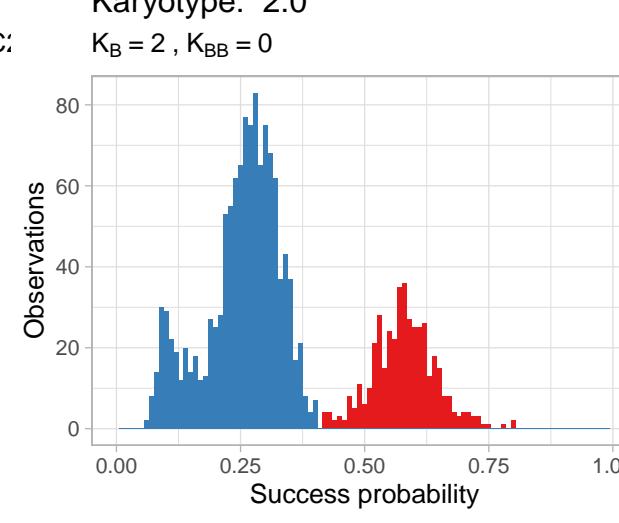
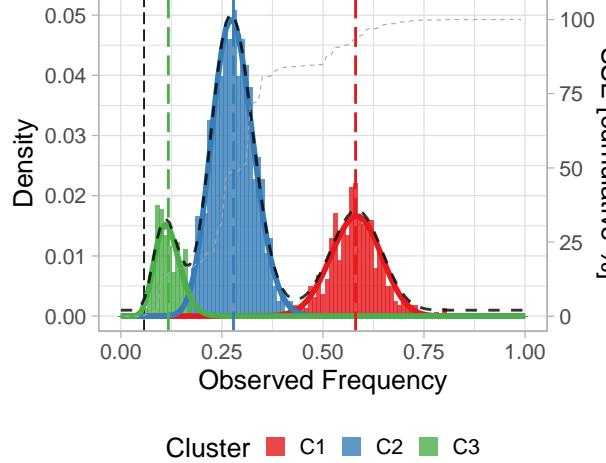
ONLY SNVs (min 150 – max 50000)



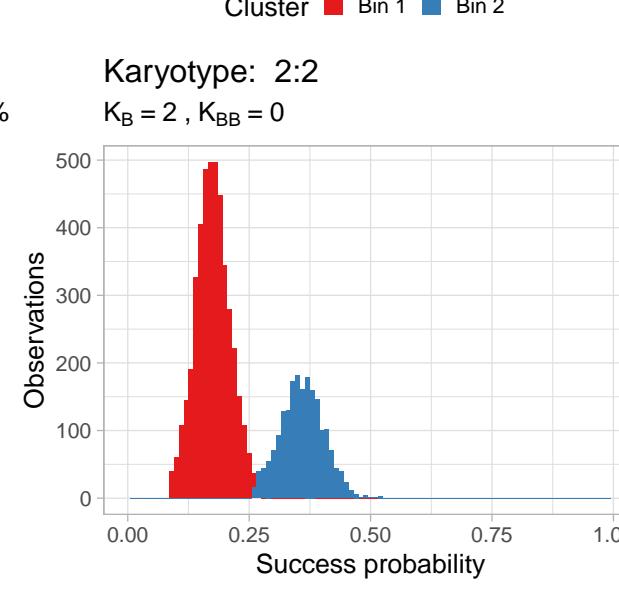
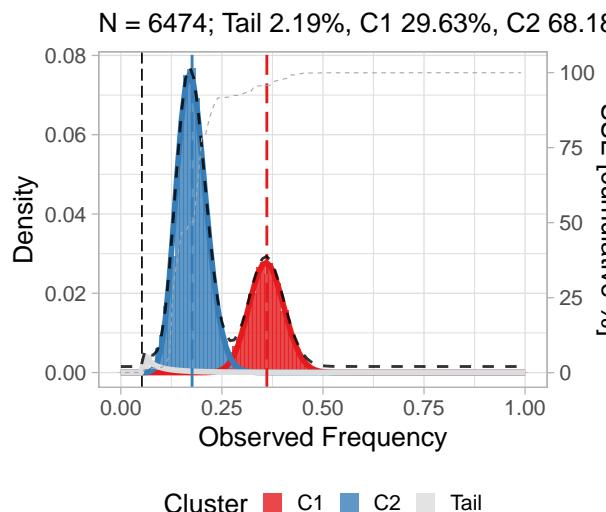
1:1



Karyotype: 2:0
N = 1634; Tail 0%, C3 11.65%, C1 25.85%, C2 62.50%



Karyotype: 2:2
N = 6474; Tail 2.19%, C1 29.63%, C2 68.18%

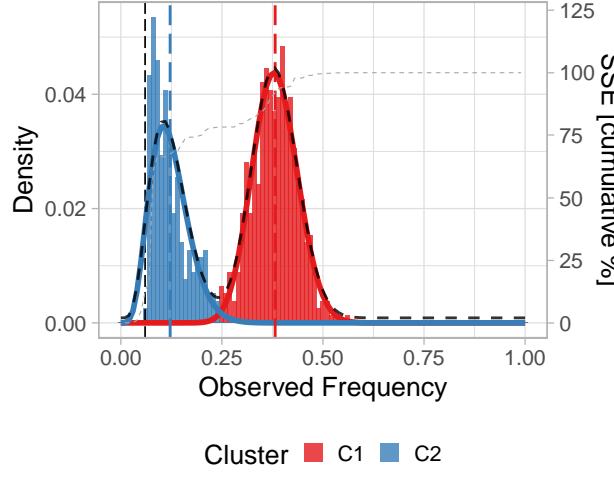


161112_HMFregCPCT_FR13271927_FR13271998_CPCT02080039

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

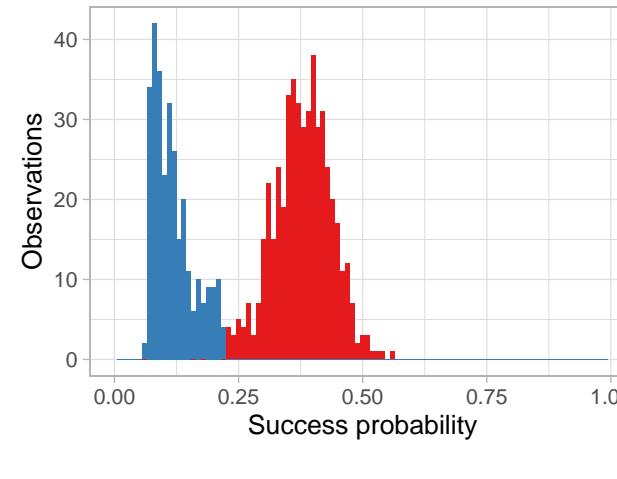
N = 785; Tail 0%, C2 38.88%, C1 61.12%



MM ($\omega = 46$; $\epsilon = 3e-05$; SSE 3.283e-03) LV > 0

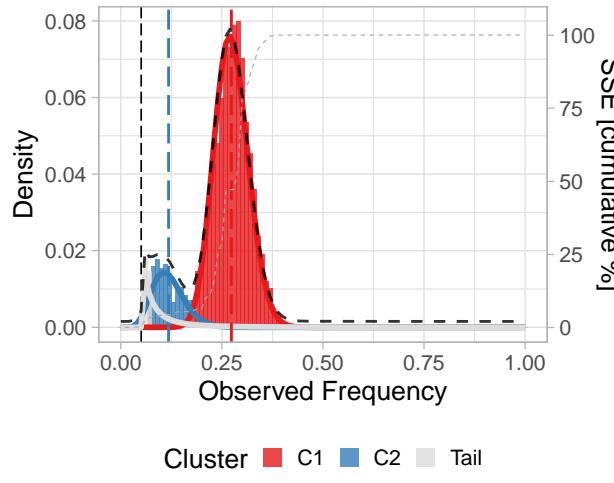
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

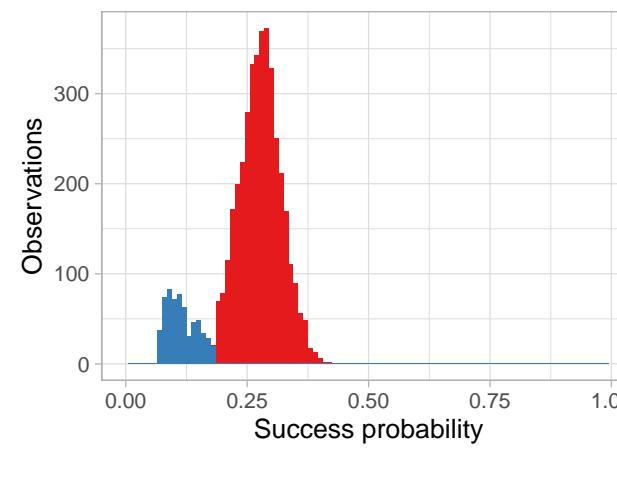
N = 4671; Tail 6.4%, C2 13.65%, C1 79.94%



MM ($\omega = 200$; $\epsilon = 2e-01$; SSE 2.108e-03) LV > 0

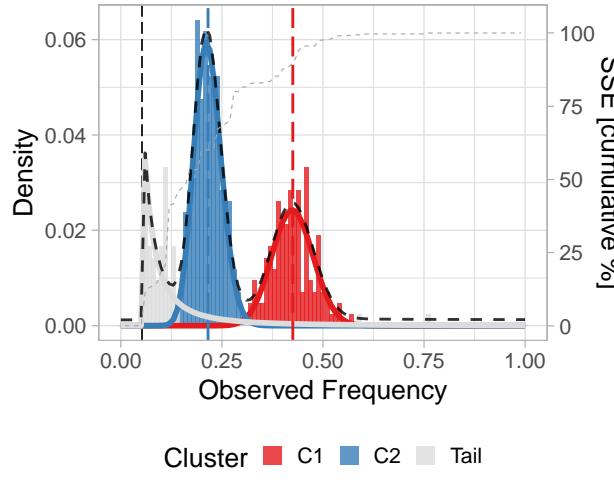
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

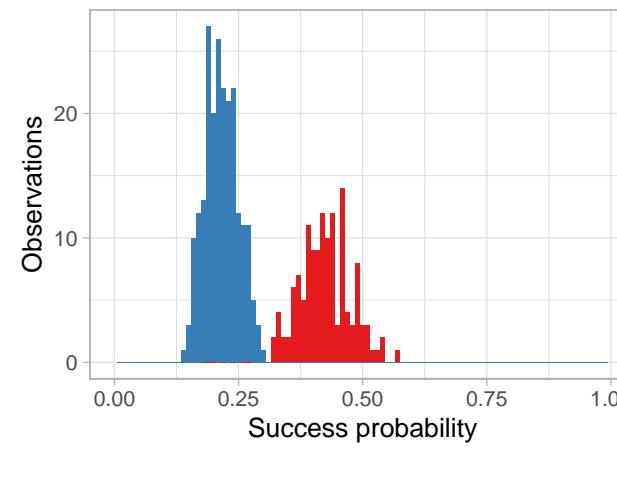
N = 421; Tail 19.37%, C1 30.85%, C2 49.78%



MM ($\omega = 41$; $\epsilon = 4e-07$; SSE 1.672e-03) LV > 0

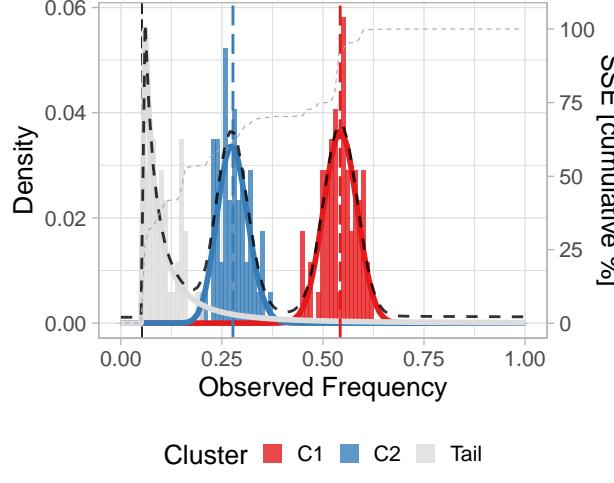
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

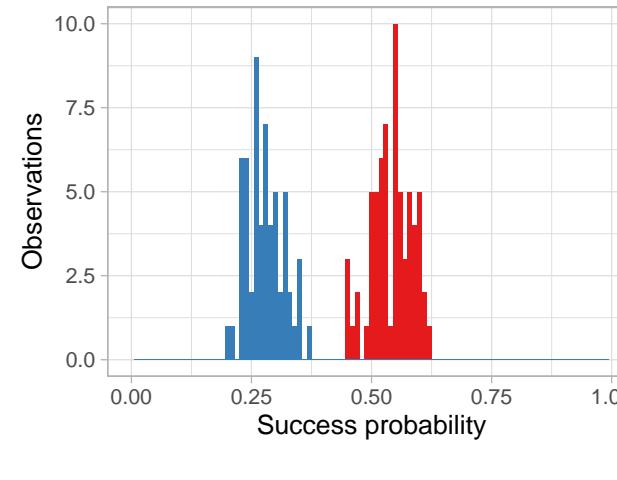
N = 172; Tail 30.82%, C2 31.67%, C1 37.51%



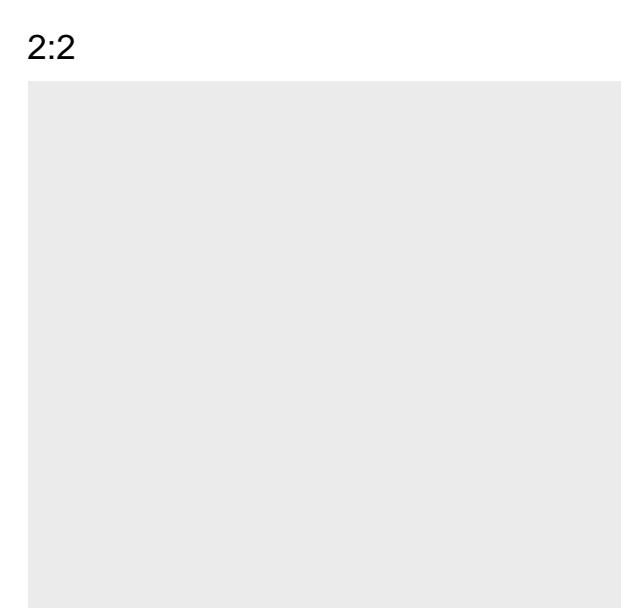
MM ($\omega = 35$; $\epsilon = 1e-07$; SSE 7.241e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

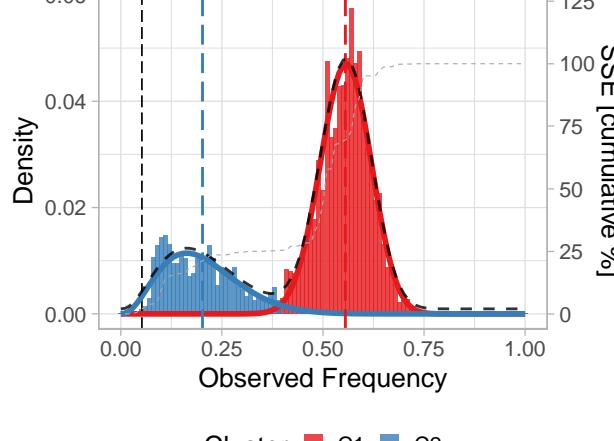


161113_HMFregCPCT_FR13271934_FR12251524_CPCT02030279

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

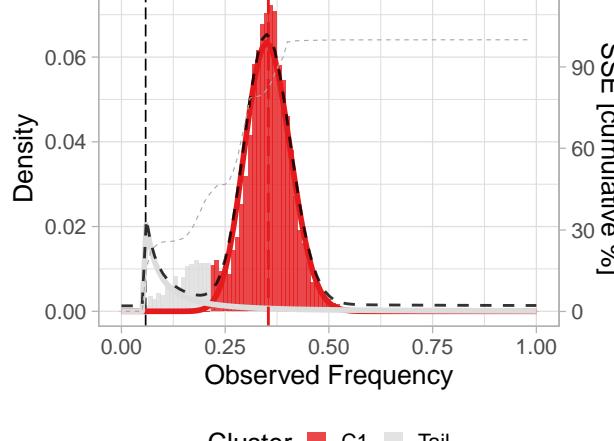
N = 3668; Tail 0%, C2 26.35%, C1 73.65%



MM ($\omega = 200$; $\epsilon = 4e-04$; SSE $8.831e-04$) LV > 0

Karyotype: 1:1

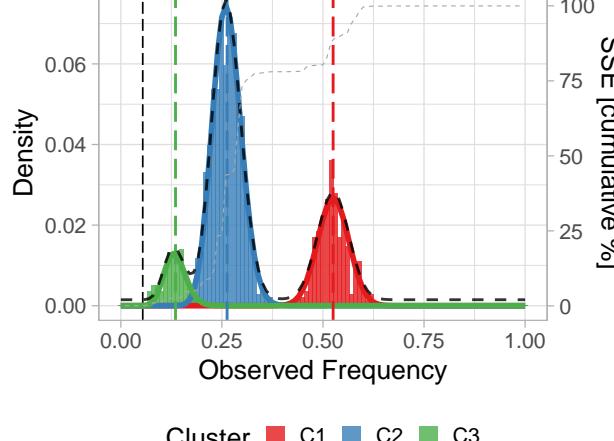
N = 11500; Tail 13.49%, C1 86.51%



MM ($\omega = 41$; $\epsilon = 7e-05$; SSE $2.641e-03$) LV > 0

Karyotype: 2:1

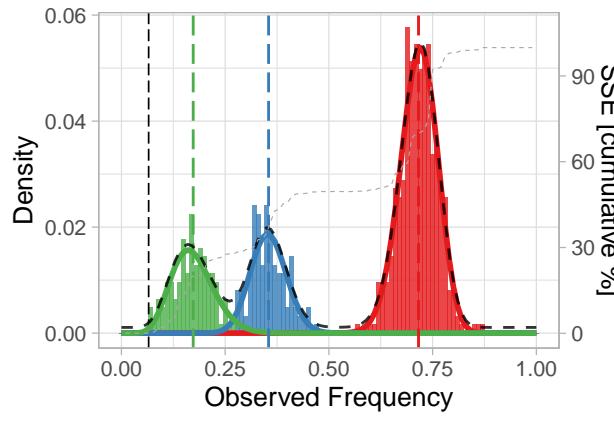
N = 1360; Tail 0%, C3 8.45%, C1 25.76%, C2



MM ($\omega = 162$; $\epsilon = 3e-06$; SSE $1.579e-03$) LV > 0

Karyotype: 2:0

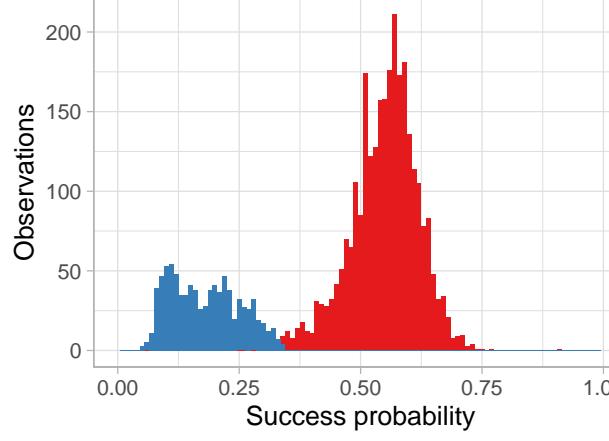
N = 624; Tail 0%, C3 19.5%, C2 20.24%, C1 6



MM ($\omega = 90$; $\epsilon = 5e-06$; SSE $1.266e-03$) LV > 0

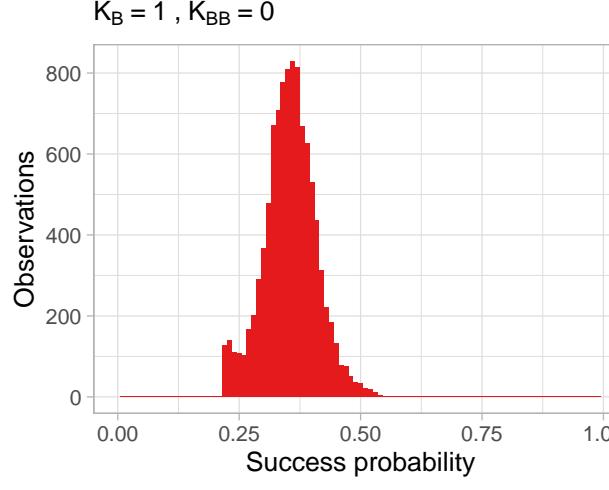
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



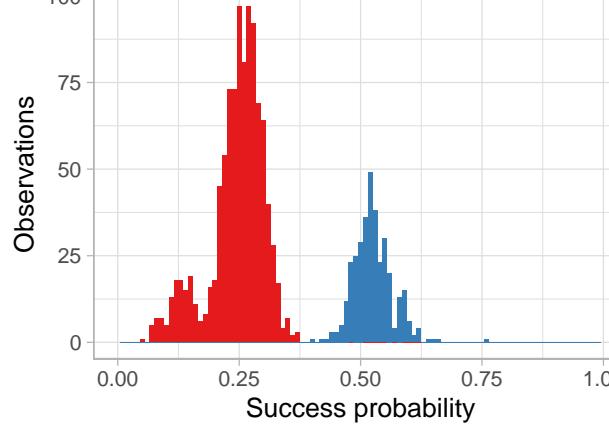
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



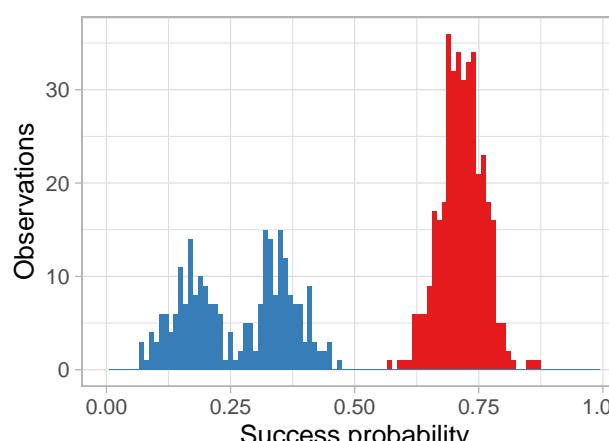
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



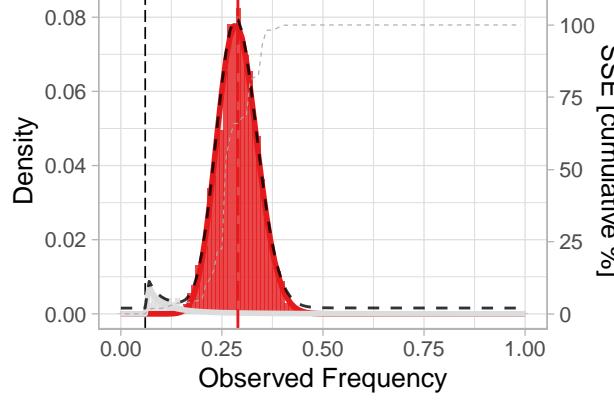
2:2

161113_HMFregCPCT_FR13271935_FR12251591_CPCT02040045

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 4220; Tail 4.47%, C1 95.53%



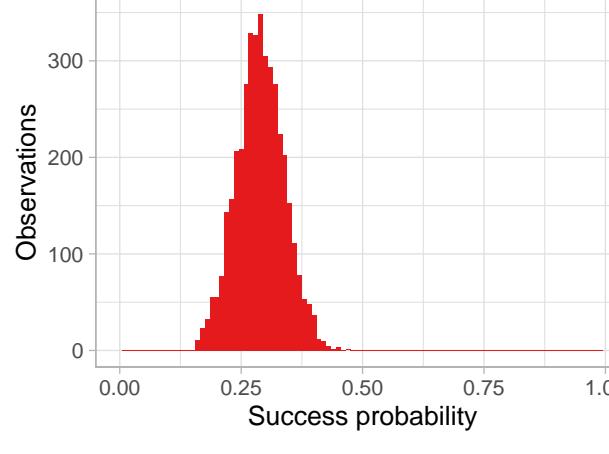
Karyotype: 1:0

N = 4220; Tail 4.47%, C1 95.53%

MM ($\omega = 23$; $\epsilon = 1e-05$; SSE 1.028e-03) LV > 0

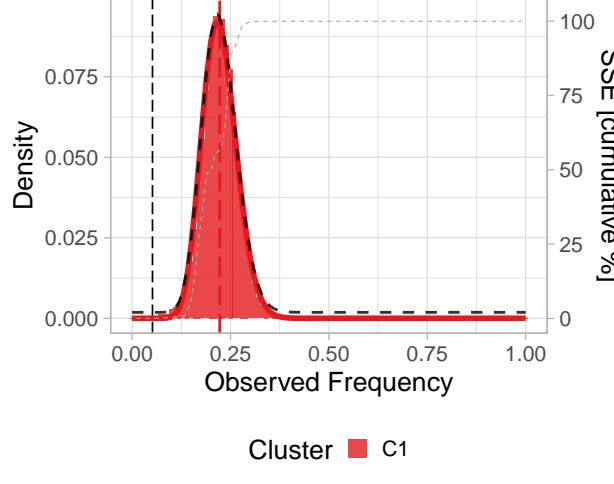
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

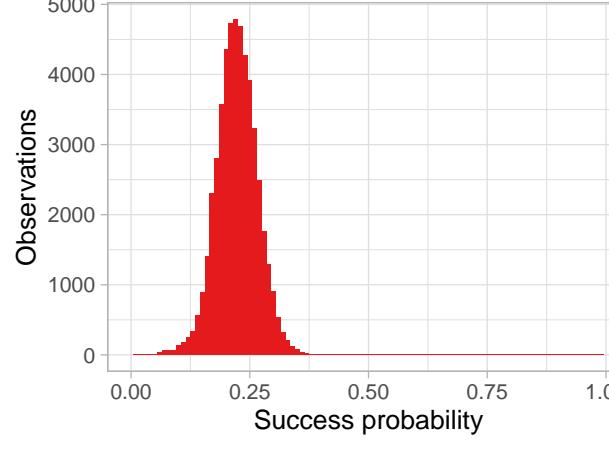
N = 50472; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.499e-03) LV > 0

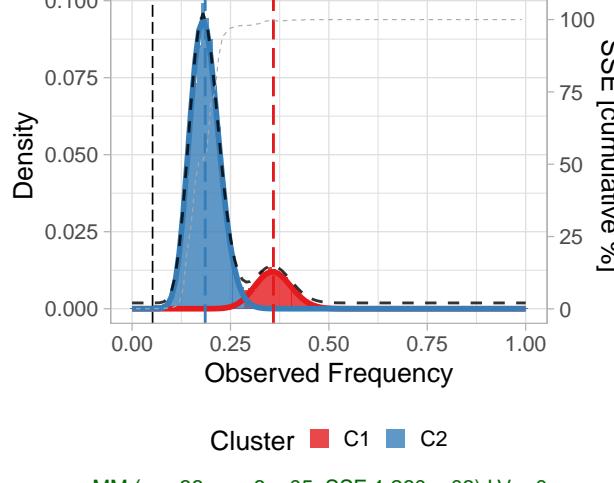
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

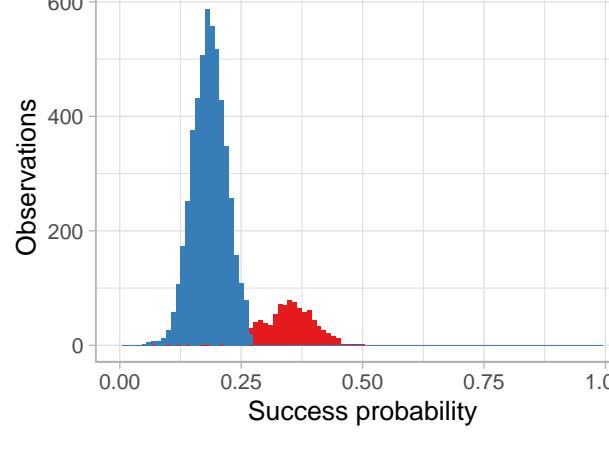
N = 5913; Tail 0%, C1 13.78%, C2 86.22%



MM ($\omega = 38$; $\epsilon = 6e-05$; SSE 1.260e-03) LV > 0

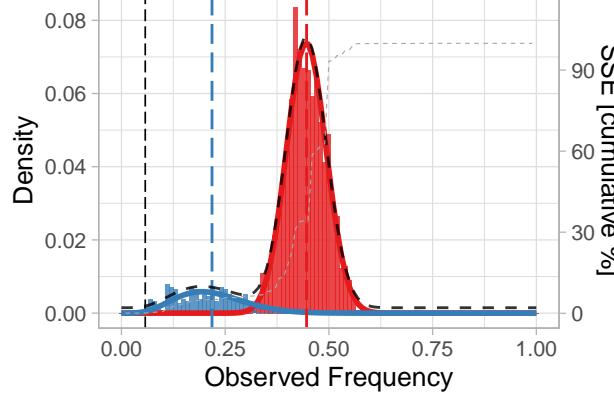
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

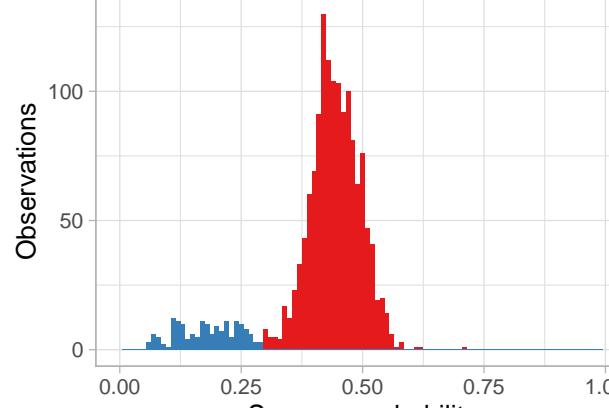
N = 1556; Tail 0%, C2 11.73%, C1 88.27%



MM ($\omega = 200$; $\epsilon = 6e-06$; SSE 1.414e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

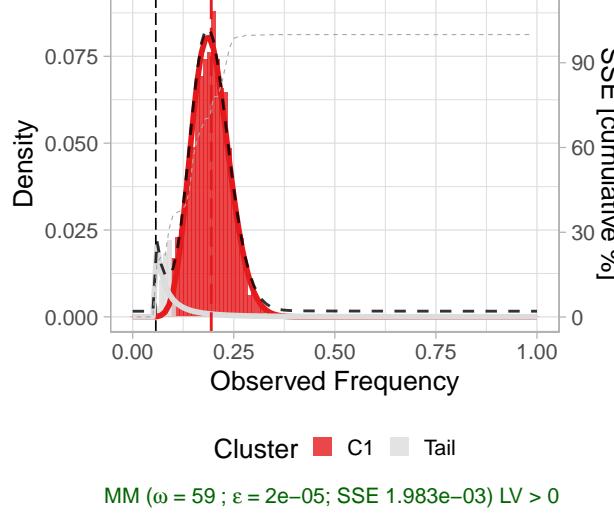
2:2

161113_HMFregCPCT_FR13271938_FR12254262_CPCT02030280

ONLY SNVs (min 150 – max 50000)

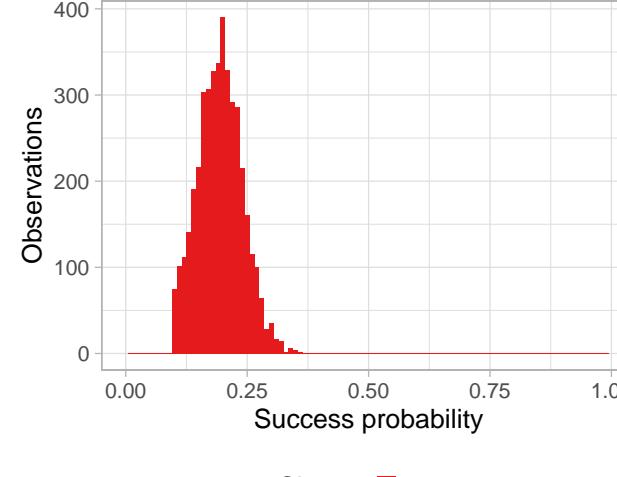
Karyotype: 1:0

N = 4431; Tail 7.54%, C1 92.46%



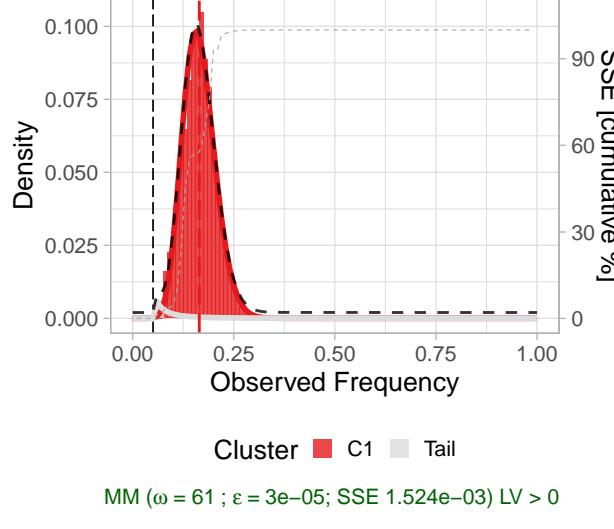
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



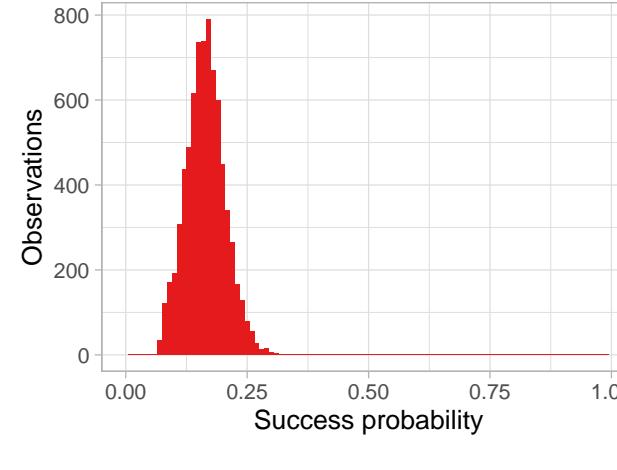
Karyotype: 1:1

N = 7552; Tail 2.74%, C1 97.26%



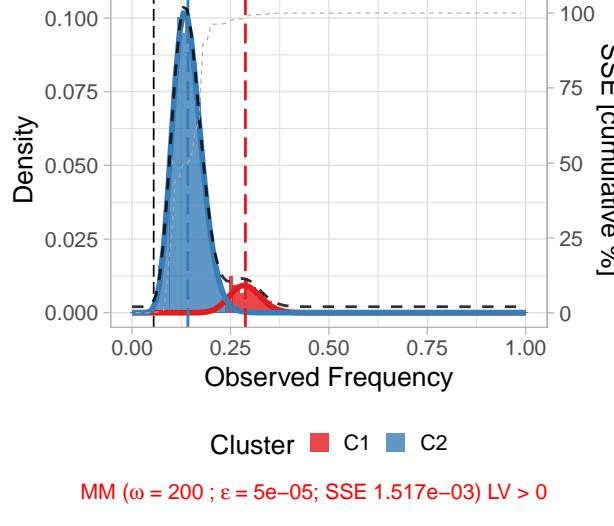
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



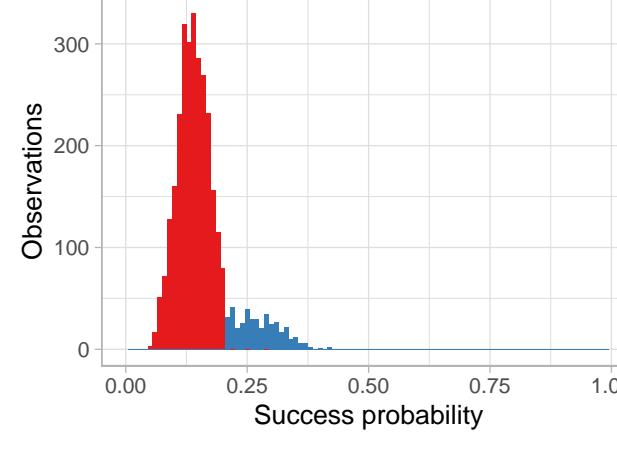
Karyotype: 2:1

N = 3180; Tail 0%, C1 9.05%, C2 90.95%



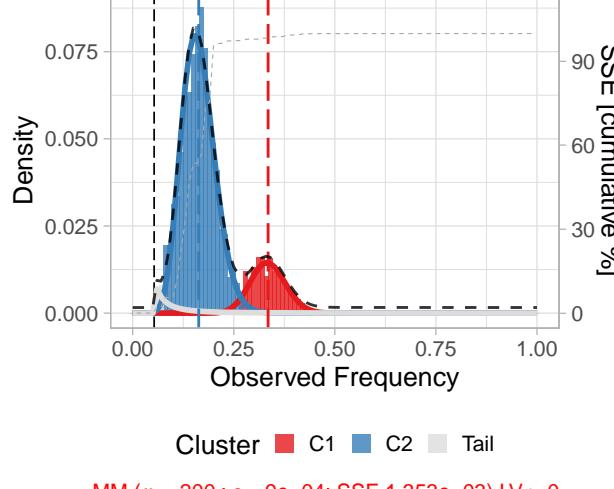
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



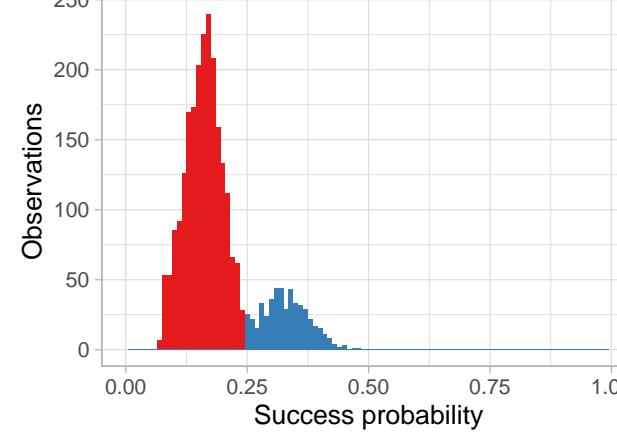
Karyotype: 2:0

N = 2736; Tail 3.32%, C1 15.64%, C2 81.04%



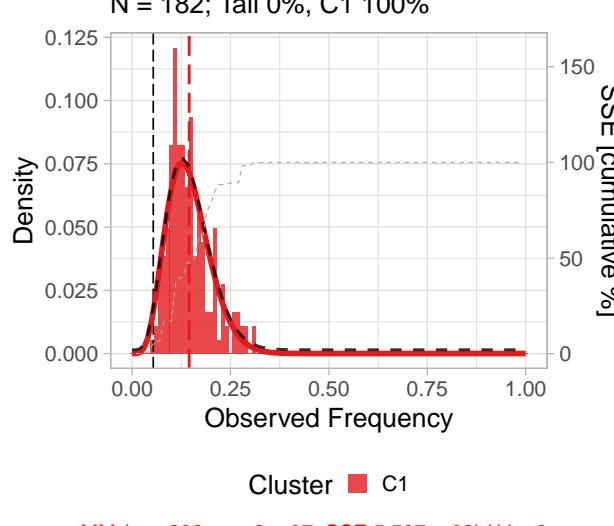
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



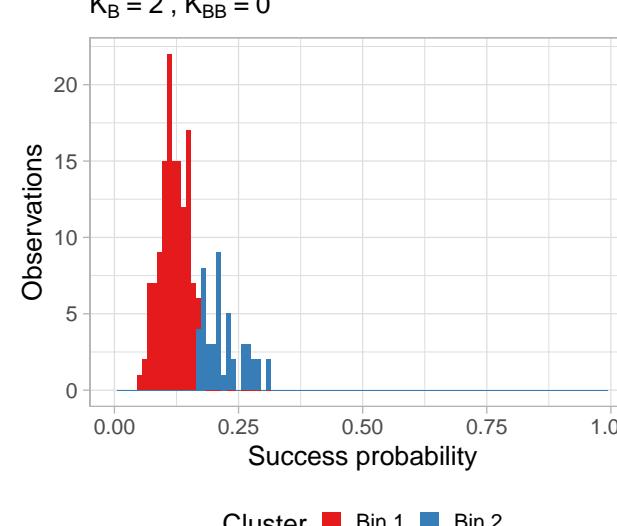
Karyotype: 2:2

N = 182; Tail 0%, C1 100%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

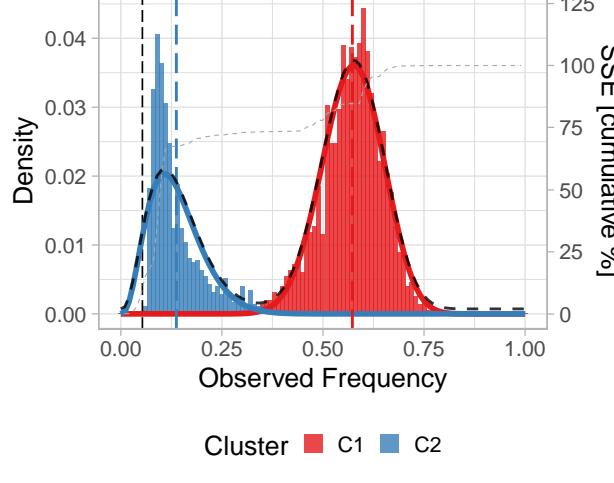


161113_HMFregCPCT_FR13271942_FR13271999_CPCT02030278

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

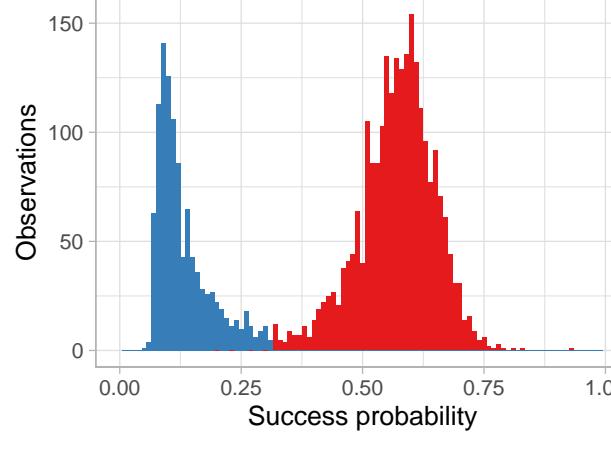
N = 3470; Tail 0%, C2 31.37%, C1 68.63%



MM ($\omega = 44$; $\epsilon = 5e-04$; SSE 2.233e-03) LV > 0

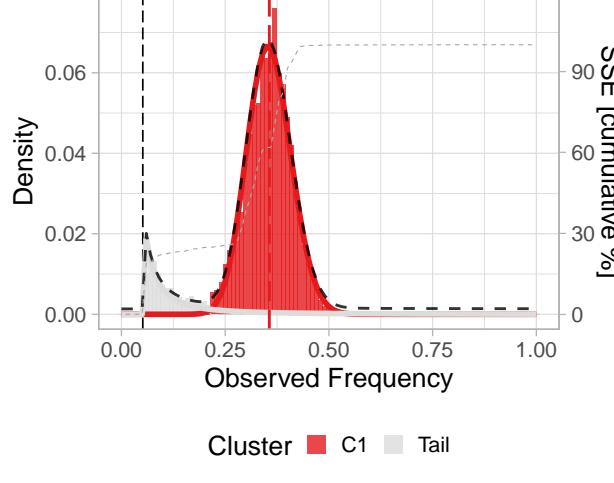
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

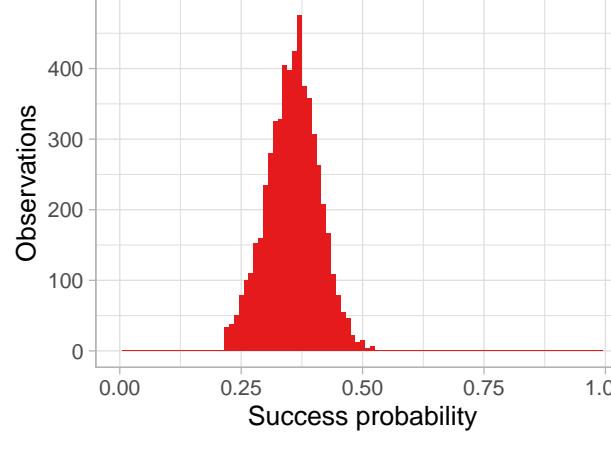
N = 6266; Tail 11.83%, C1 88.17%



MM ($\omega = 19$; $\epsilon = 2e-05$; SSE 1.112e-03) LV > 0

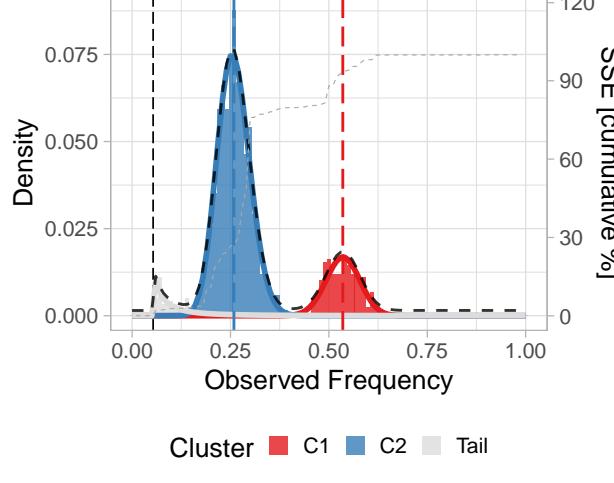
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

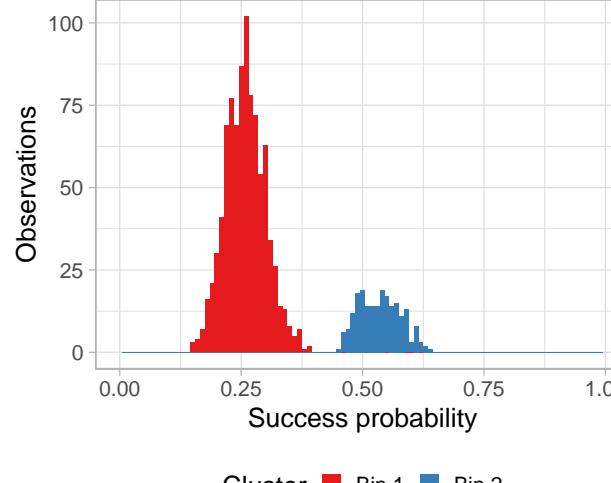
N = 1162; Tail 5.01%, C1 18.05%, C2 76.94%



MM ($\omega = 21$; $\epsilon = 4e-07$; SSE 1.146e-03) LV > 0

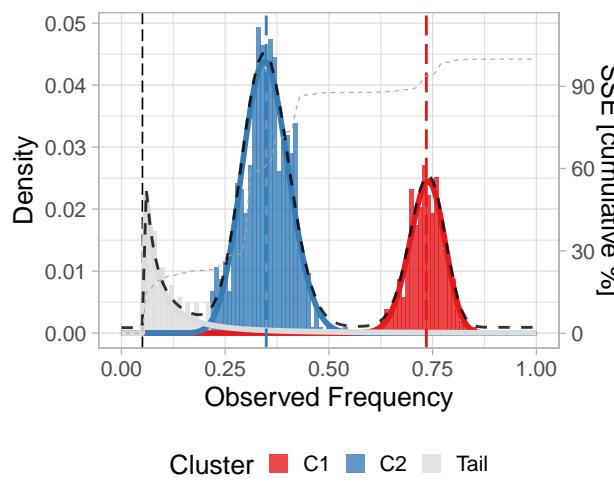
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

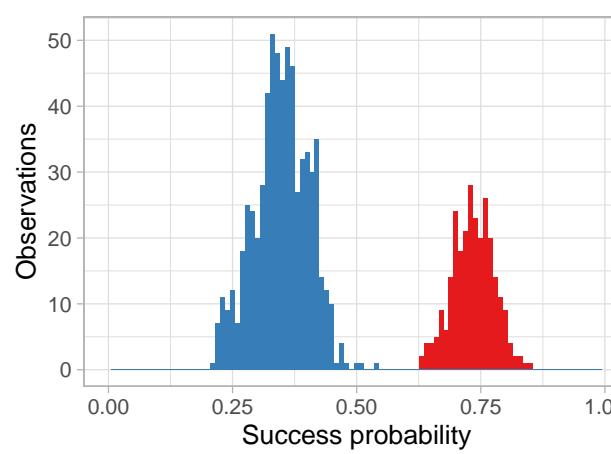
N = 1034; Tail 13.47%, C1 25.69%, C2 60.84%



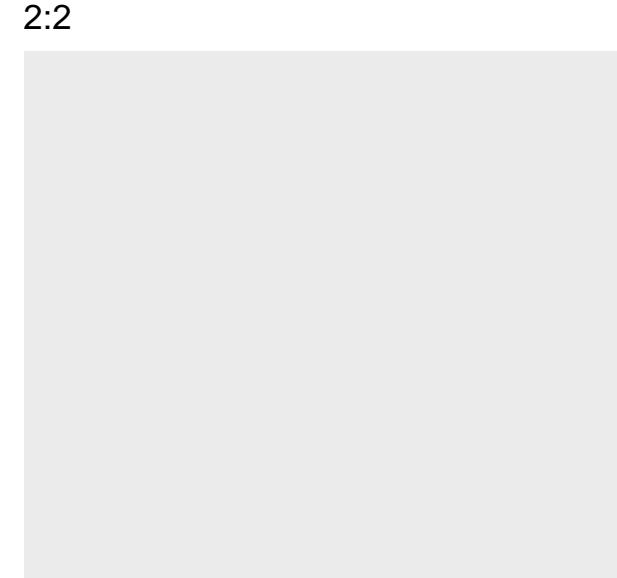
MM ($\omega = 37$; $\epsilon = 3e-06$; SSE 1.613e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

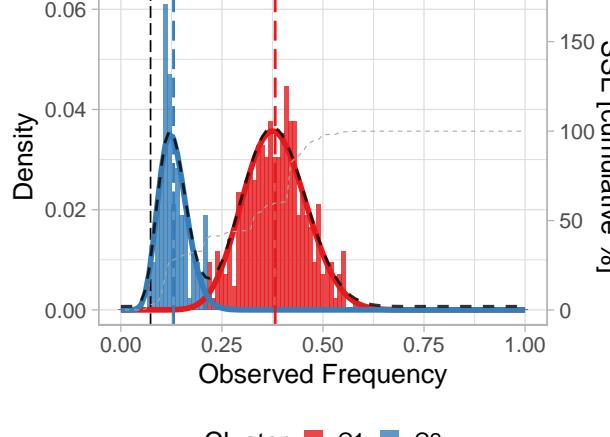


161113_HMFregCPCT_FR13271953_FR12251600_CPCT02040047

ONLY SNVs (min 150 – max 50000)

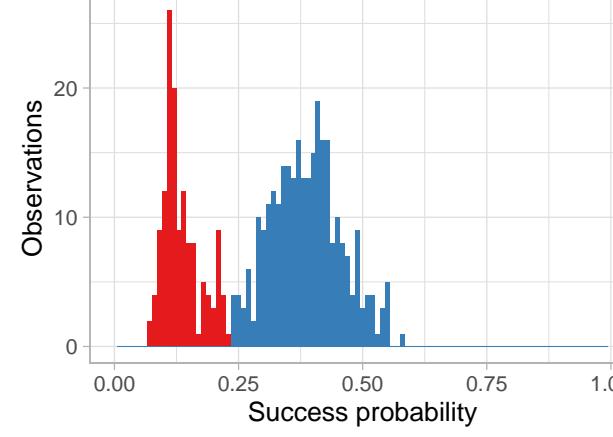
Karyotype: 1:0

N = 426; Tail 0%, C2 30.27%, C1 69.73%



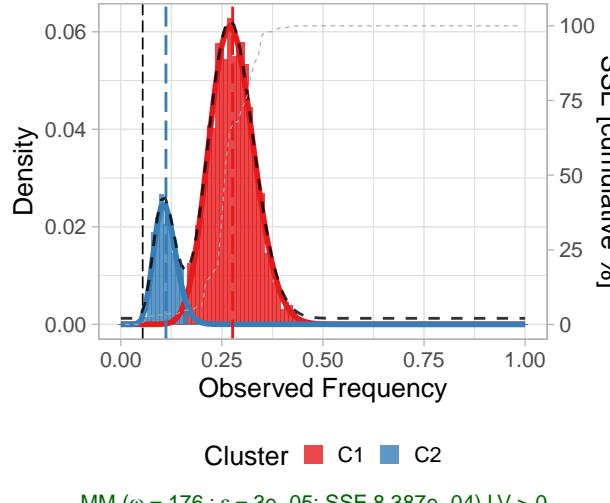
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



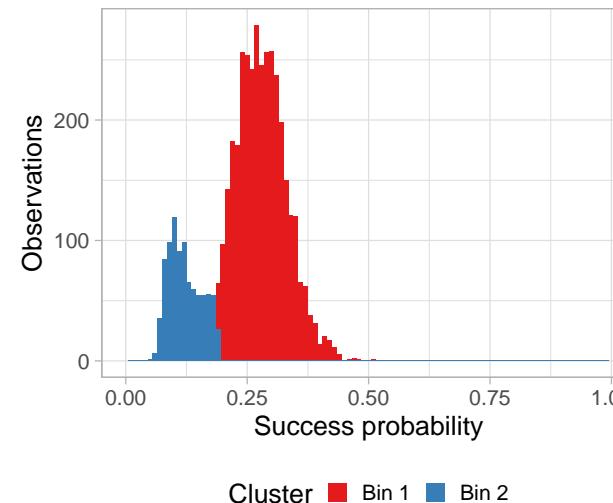
Karyotype: 1:1

N = 4448; Tail 0%, C2 16.59%, C1 83.41%



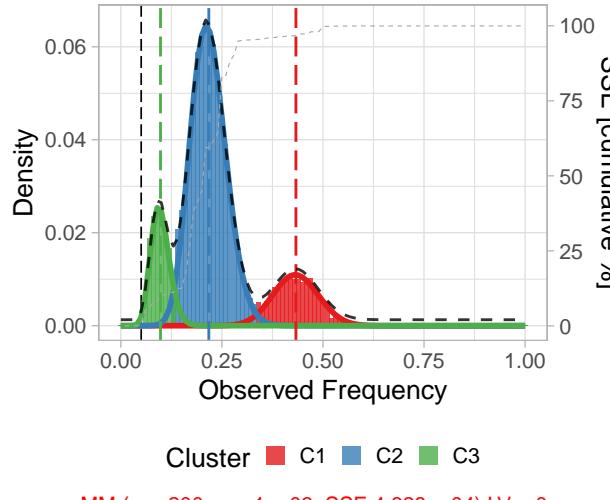
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



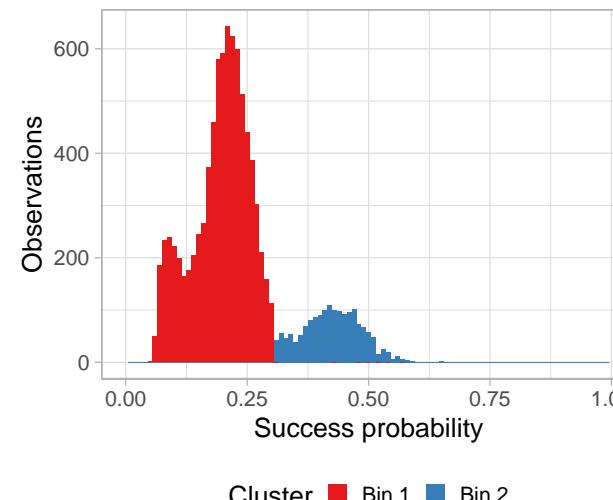
Karyotype: 2:1

N = 9891; Tail 0%, C3 14.41%, C1 15.3%, C2



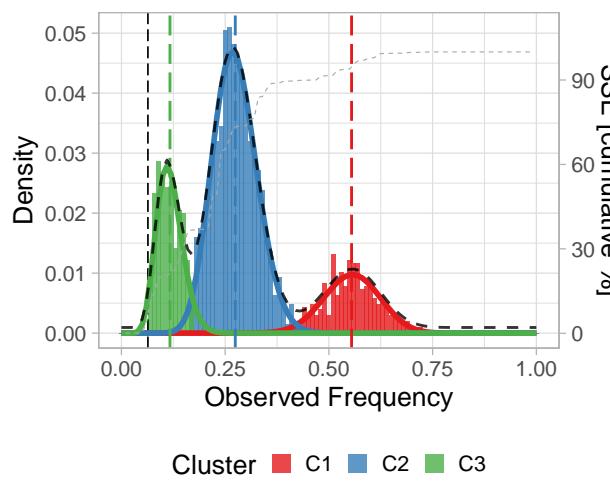
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



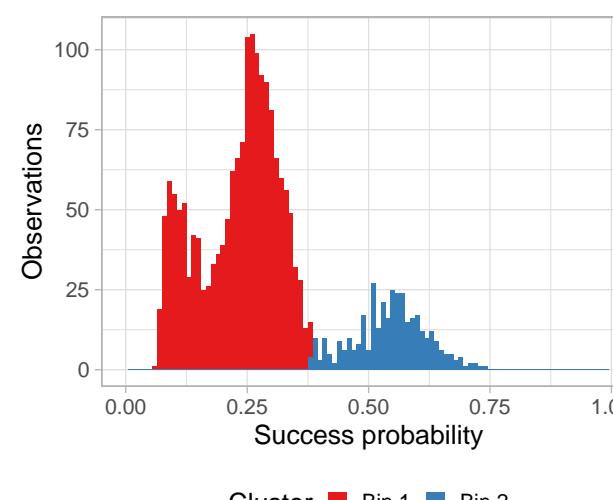
Karyotype: 2:0

N = 2060; Tail 0%, C1 16.46%, C3 21.21%, C2



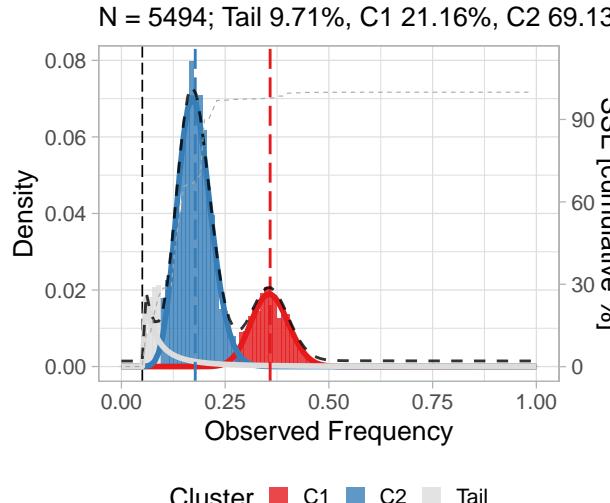
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



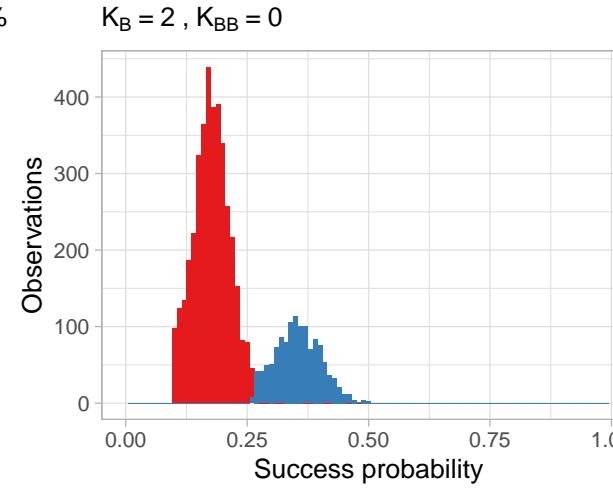
Karyotype: 2:2

N = 5494; Tail 9.71%, C1 21.16%, C2 69.13%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

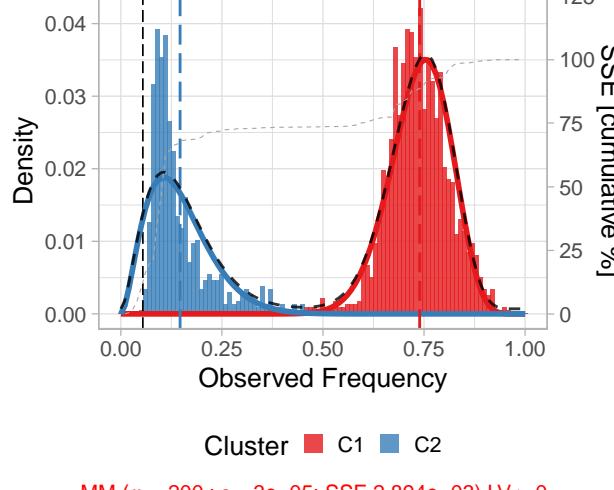


161113_HMFregCPCT_FR13271954_FR12251963_CPCT02040048

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

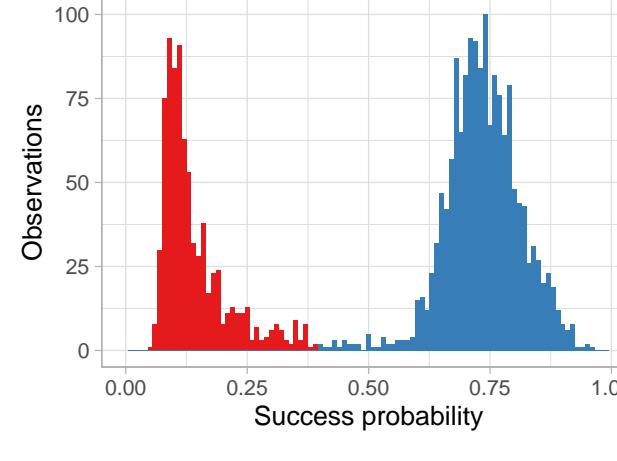
N = 2373; Tail 0%, C2 34.38%, C1 65.62%



MM ($\omega = 200$; $\epsilon = 3e-05$; SSE 2.894e-03) LV > 0

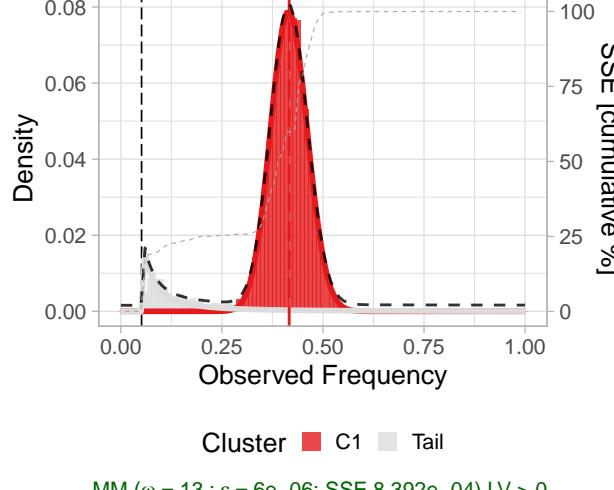
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

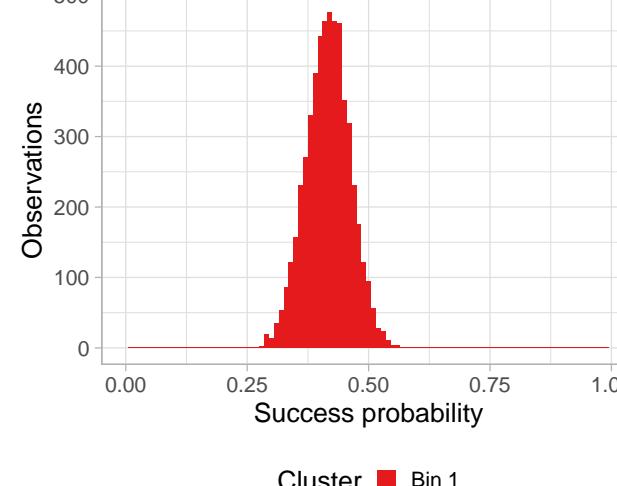
N = 6010; Tail 10.41%, C1 89.59%



MM ($\omega = 13$; $\epsilon = 6e-06$; SSE 8.392e-04) LV > 0

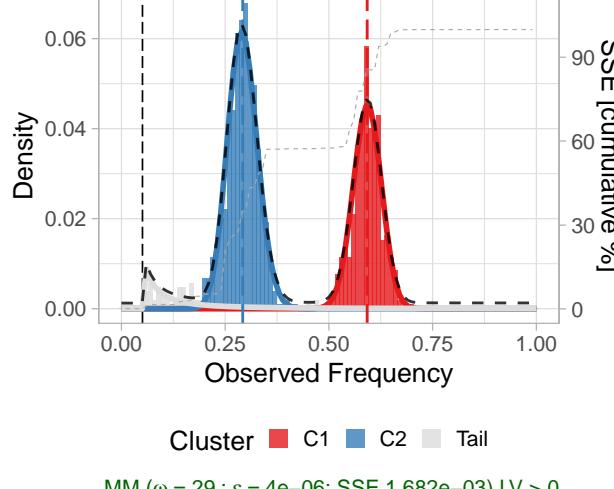
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

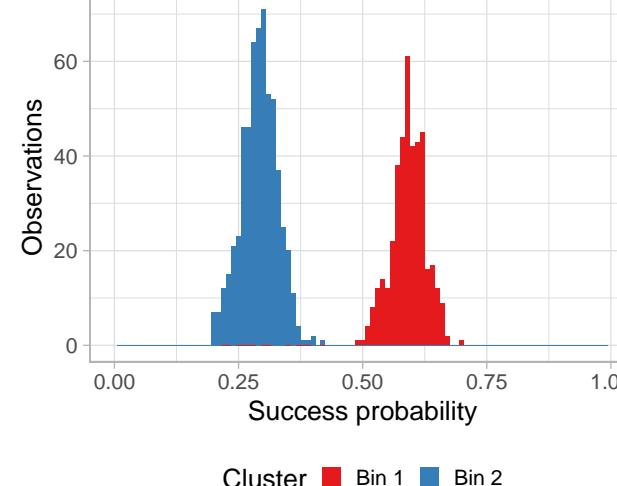
N = 1045; Tail 6.34%, C1 38.52%, C2 55.13%



MM ($\omega = 29$; $\epsilon = 4e-06$; SSE 1.682e-03) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

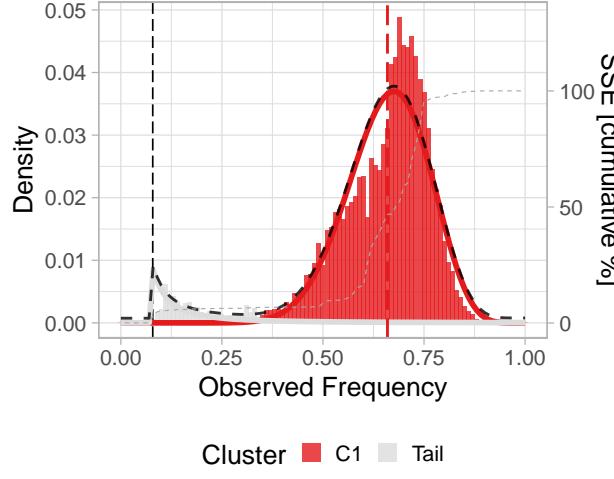
2:2

161117_HMFregCPCT_FR03631803_FR12244642_CPCT02020320

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

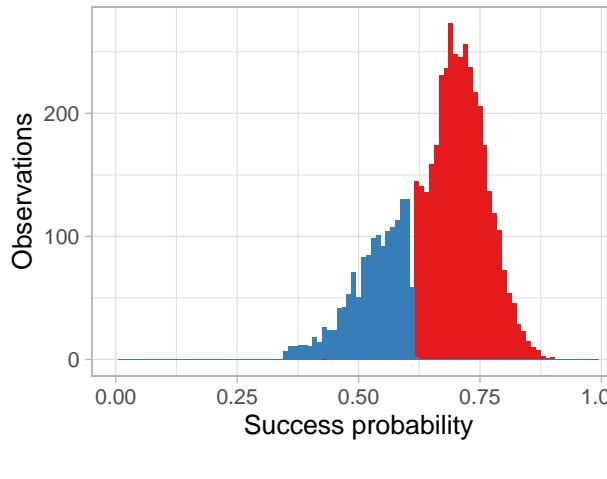
N = 5588; Tail 6.18%, C1 93.82%



MM ($\omega = 20$; $\epsilon = 6e-05$; SSE 2.068e-03) LV > 0

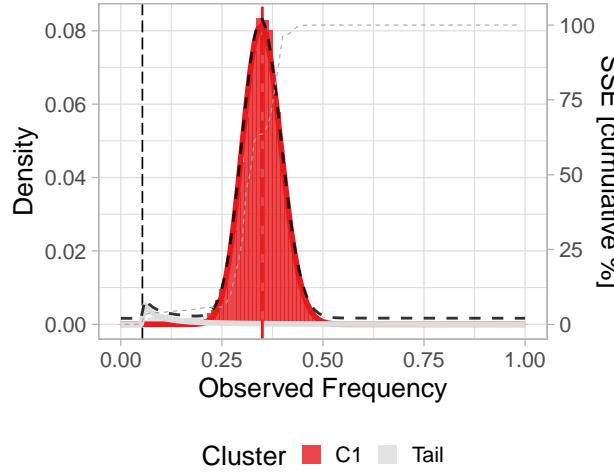
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

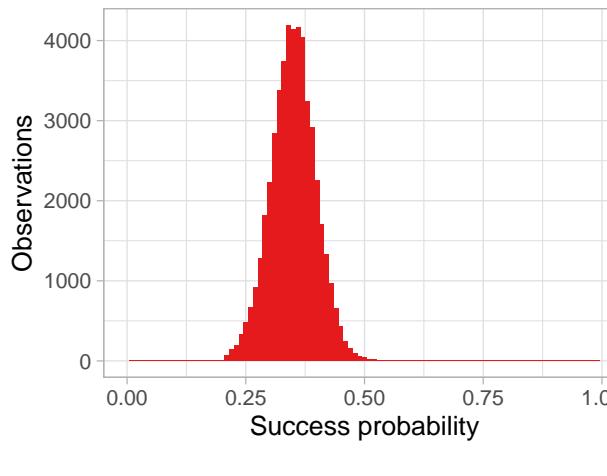
N = 50344; Tail 3.67%, C1 96.33%



MM ($\omega = 17$; $\epsilon = 1e-04$; SSE 7.922e-04) LV > 0

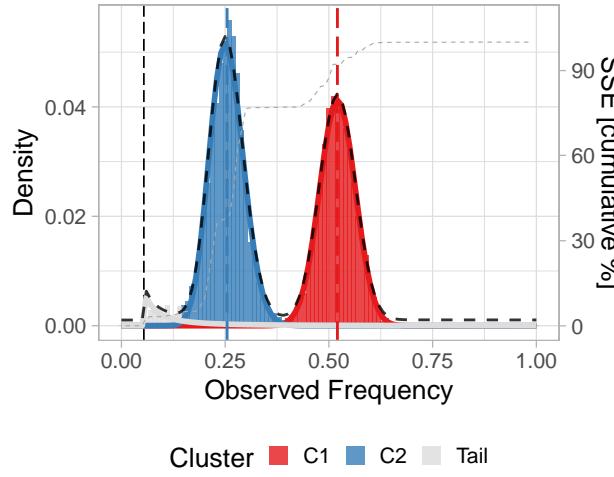
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

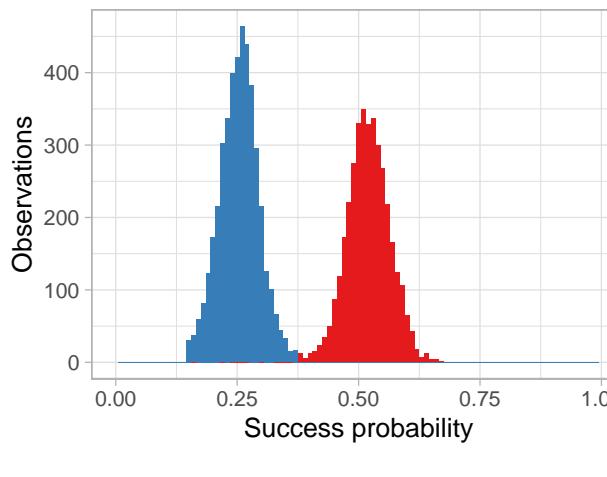
N = 8301; Tail 3.45%, C1 44.32%, C2 52.23%



MM ($\omega = 35$; $\epsilon = 2e-05$; SSE 7.138e-04) LV > 0

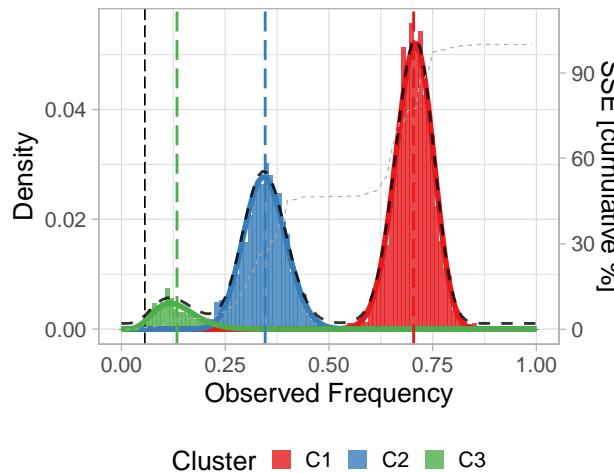
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

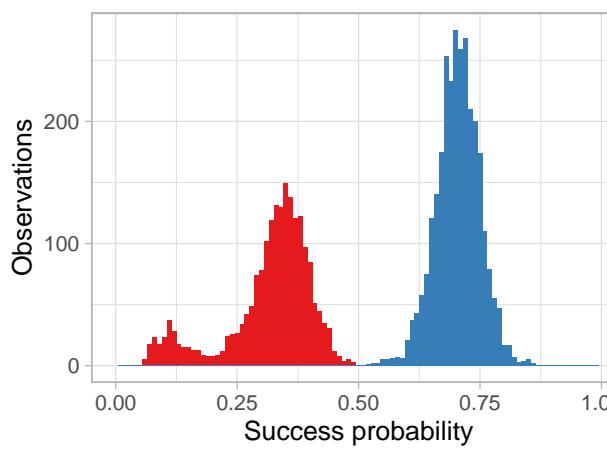
N = 4936; Tail 0%, C3 5.7%, C2 35.15%, C1 5



MM ($\omega = 194$; $\epsilon = 8e-05$; SSE 4.270e-04) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



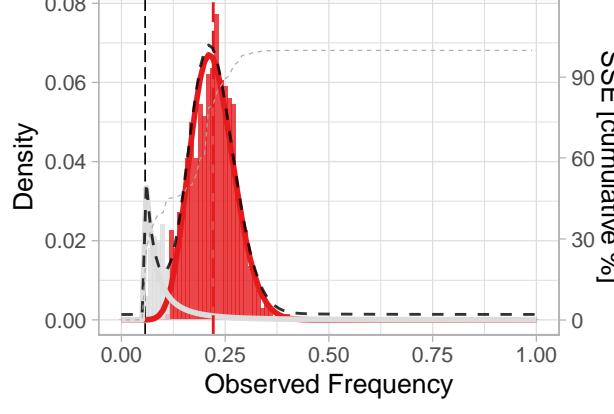
2:2

161117_HMFregCPCT_FR12245855_FR12251962_CPCT02100032

ONLY SNVs (min 150 – max 50000)

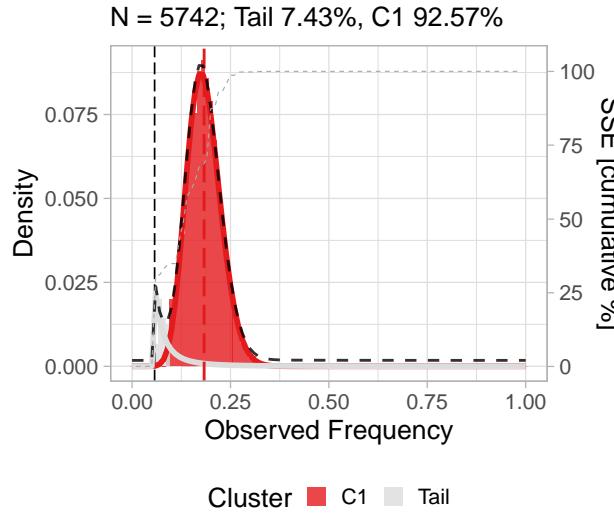
Karyotype: 1:0

N = 660; Tail 12.77%, C1 87.23%



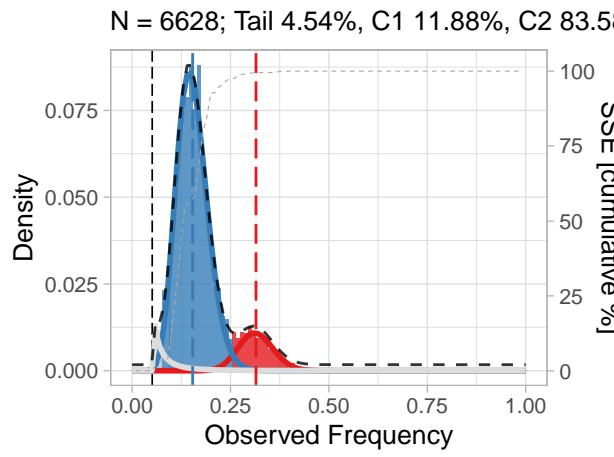
Karyotype: 1:1

N = 5742; Tail 7.43%, C1 92.57%



Karyotype: 2:1

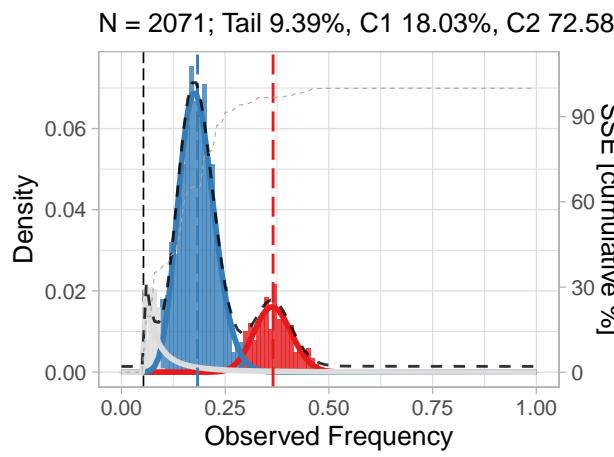
N = 6628; Tail 4.54%, C1 11.88%, C2 83.58%



MM ($\omega = 200$; $\epsilon = 8e-03$; SSE 9.353e-04) LV > 0

Karyotype: 2:0

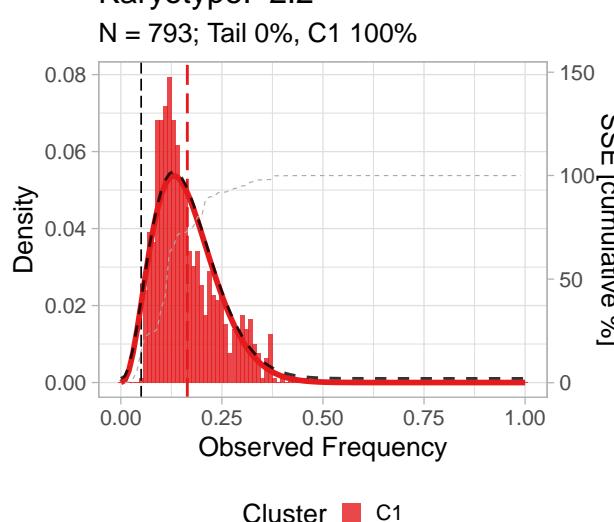
N = 2071; Tail 9.39%, C1 18.03%, C2 72.58%



MM ($\omega = 132$; $\epsilon = 4e-06$; SSE 1.462e-03) LV > 0

Karyotype: 2:2

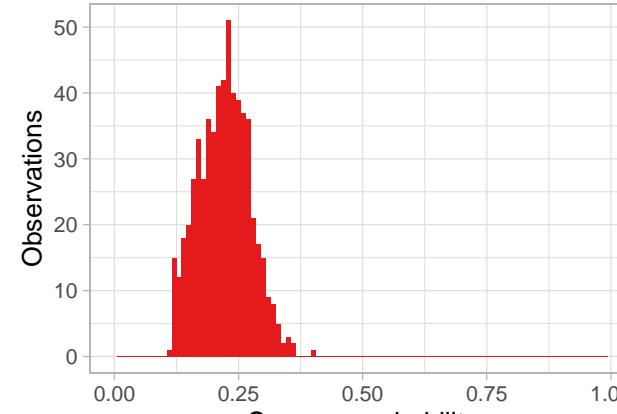
N = 793; Tail 0%, C1 100%



MM ($\omega = 140$; $\epsilon = 2e-06$; SSE 4.342e-03) LV > 0

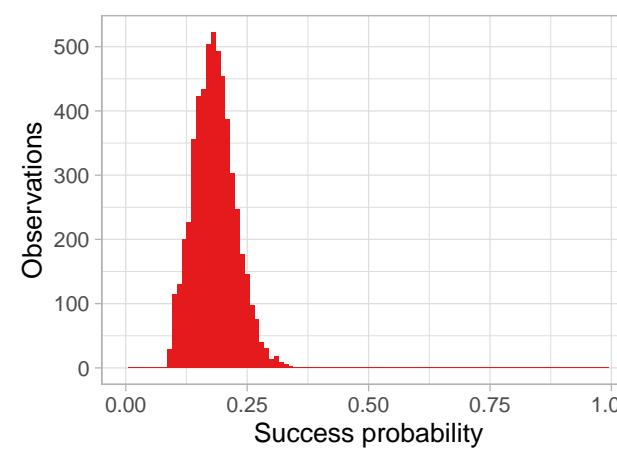
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



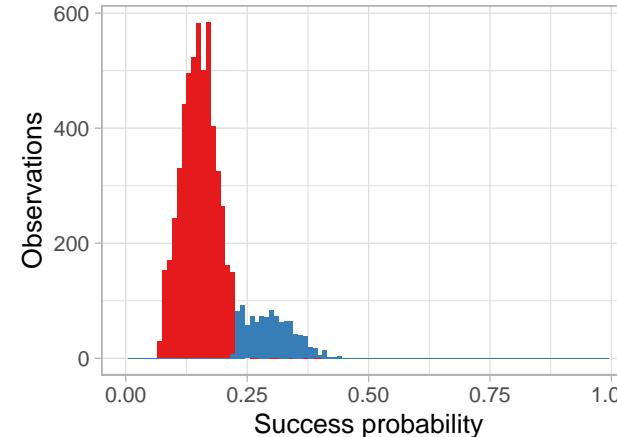
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



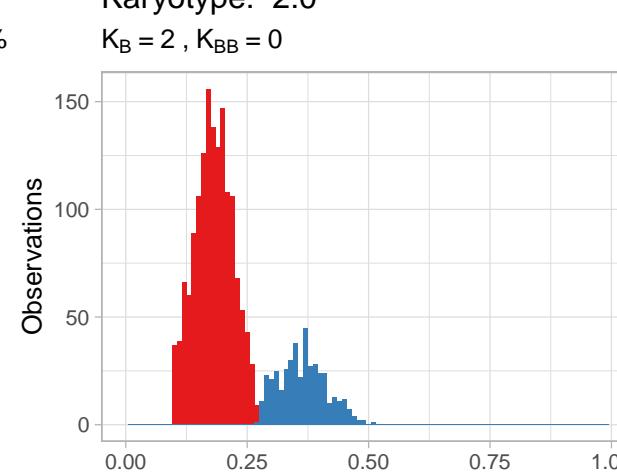
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



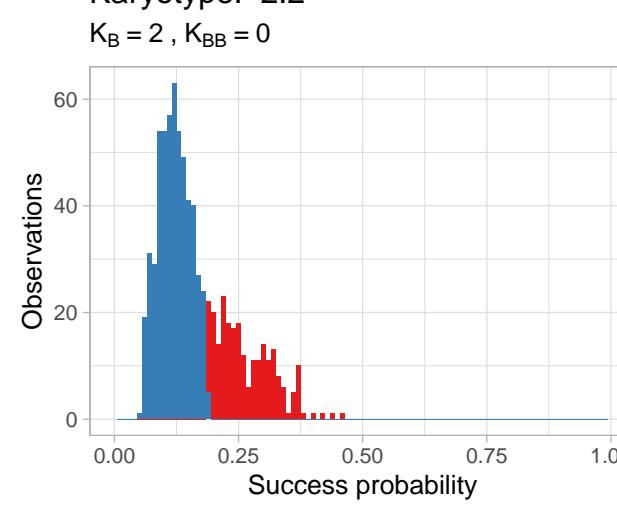
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



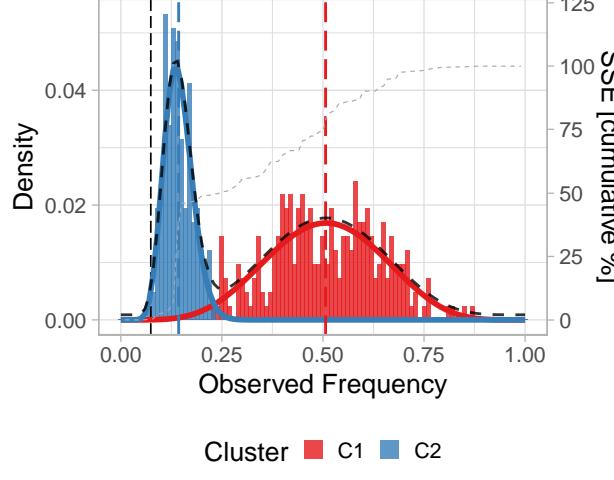
MM ($\omega = 140$; $\epsilon = 2e-06$; SSE 4.342e-03) LV > 0

161118_HMFregCPCT_FR12244404_FR13272005_CPCT02070036

ONLY SNVs (min 150 – max 50000)

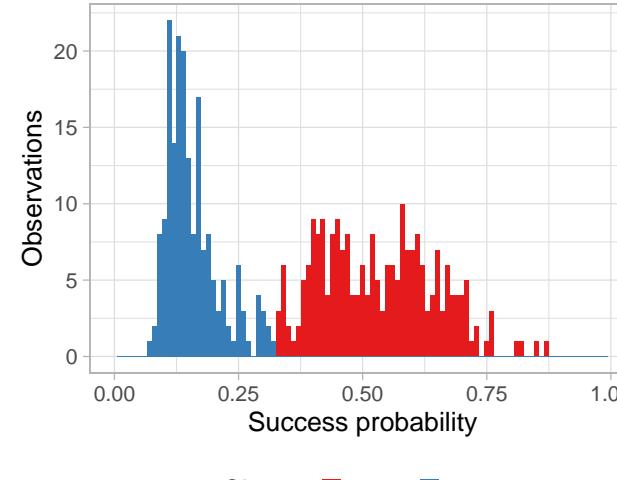
Karyotype: 1:0

N = 413; Tail 0%, C2 38.2%, C1 61.8%



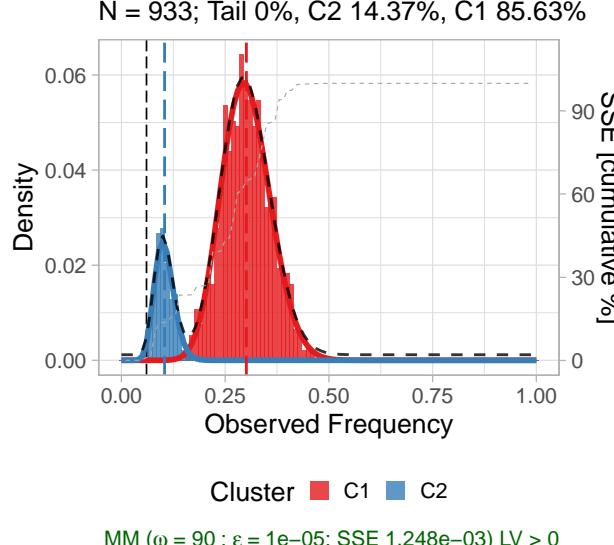
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



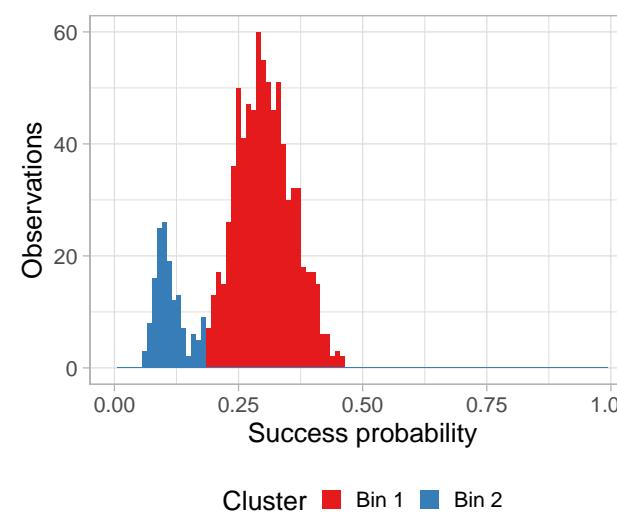
Karyotype: 1:1

N = 933; Tail 0%, C2 14.37%, C1 85.63%



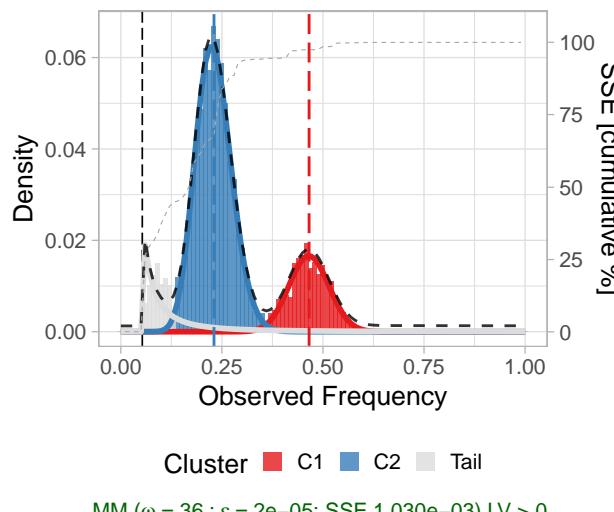
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



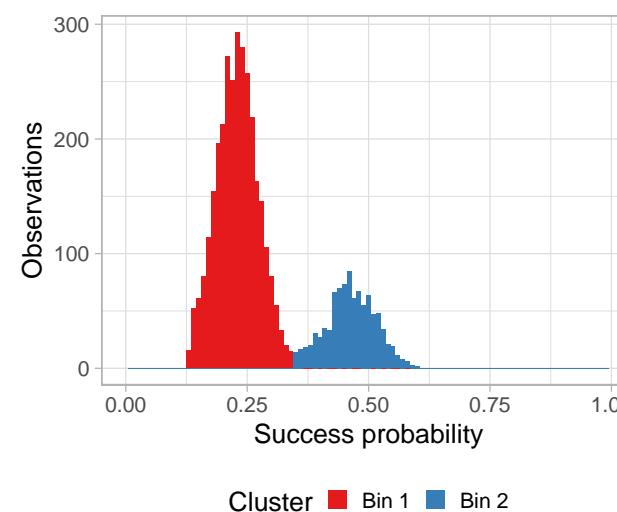
Karyotype: 2:1

N = 4378; Tail 10.47%, C1 20.46%, C2 69.06%



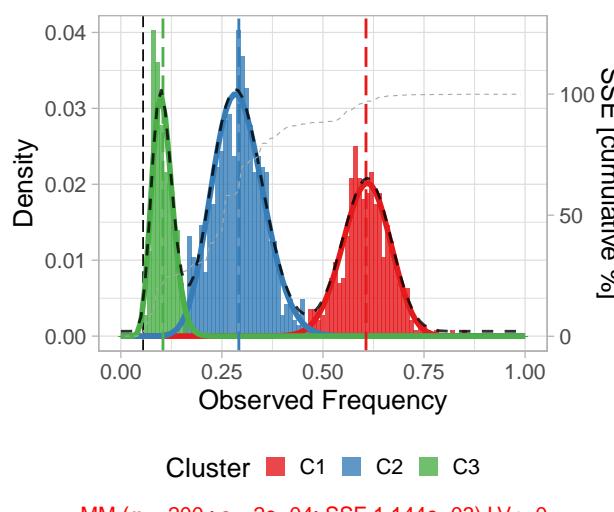
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



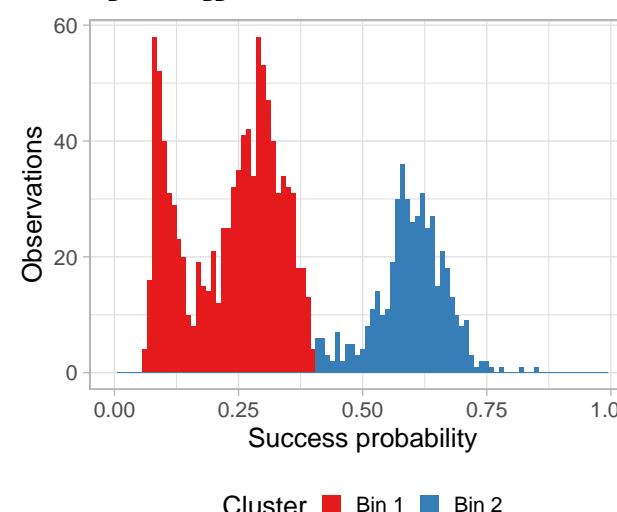
Karyotype: 2:0

N = 1440; Tail 0%, C3 19.86%, C1 29.78%, C2 50.36%



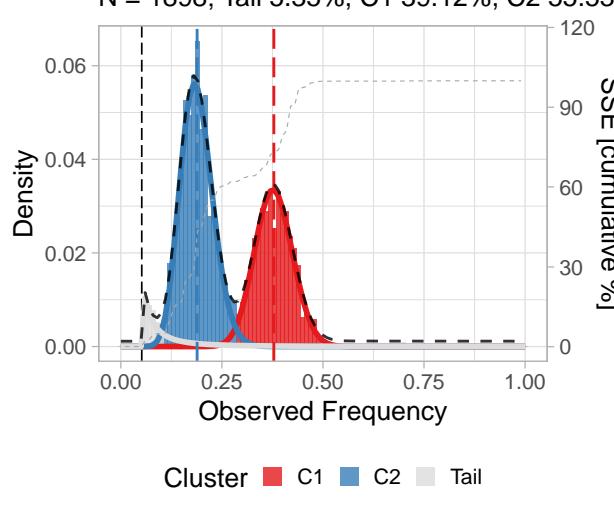
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



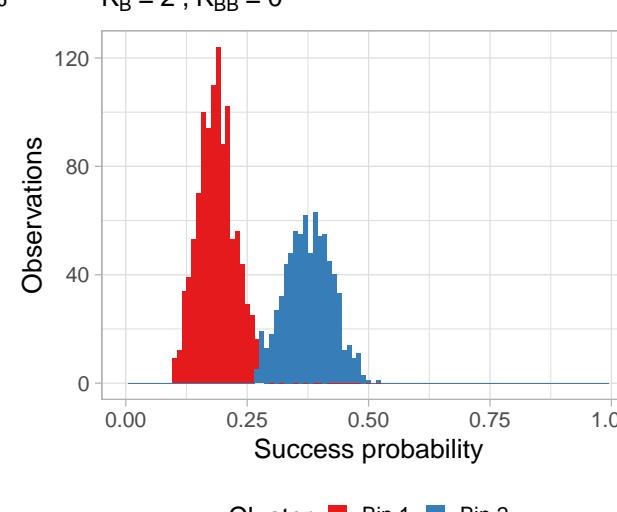
Karyotype: 2:2

N = 1898; Tail 5.35%, C1 39.12%, C2 55.53%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

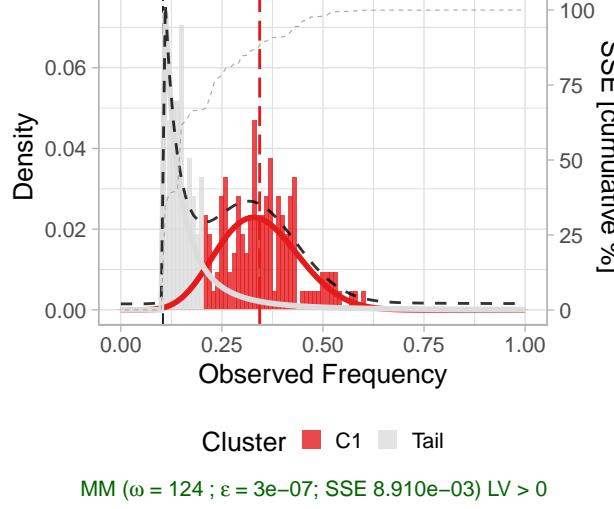


161118_HMFregCPCT_FR13271956_FR13272000_CPCT02070029

ONLY SNVs (min 150 – max 50000)

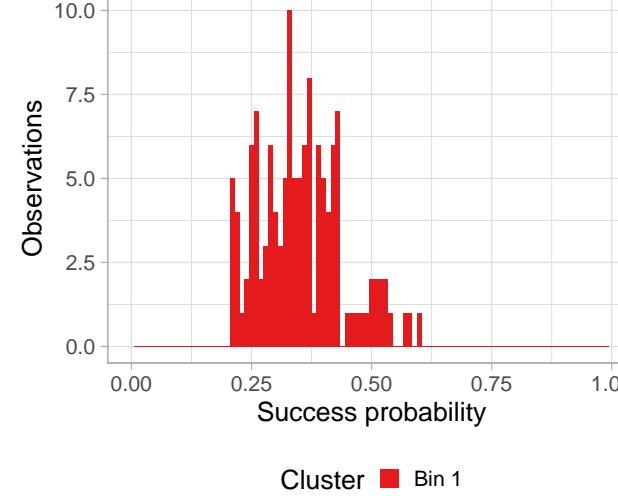
Karyotype: 1:0

N = 213; Tail 42.76%, C1 57.24%

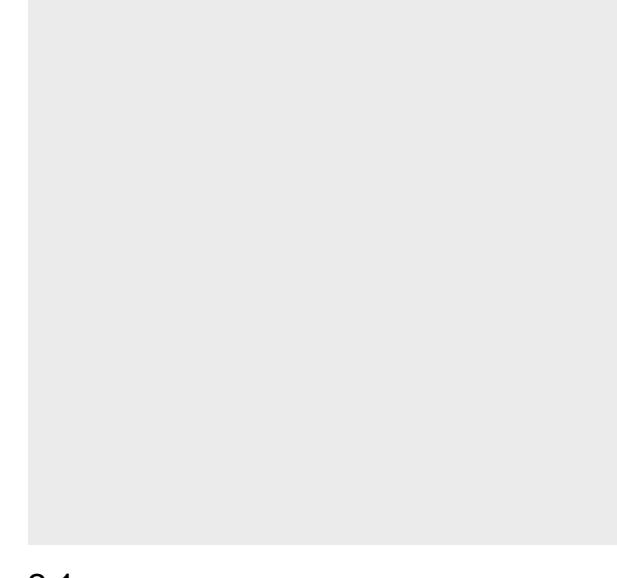


Karyotype: 1:0

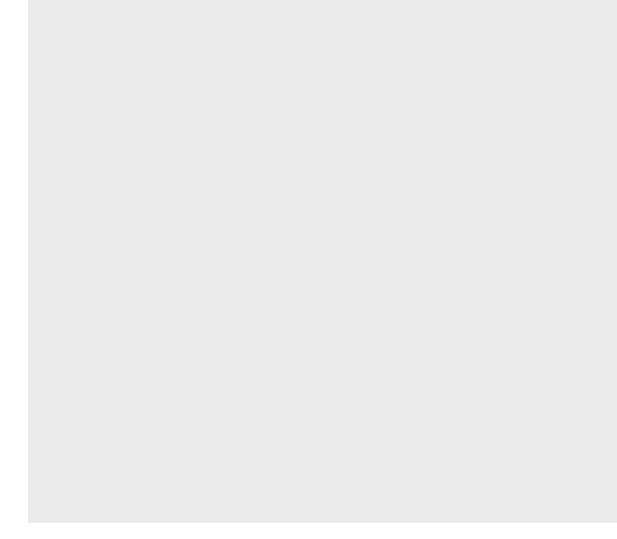
$K_B = 1, K_{BB} = 0$



1:1

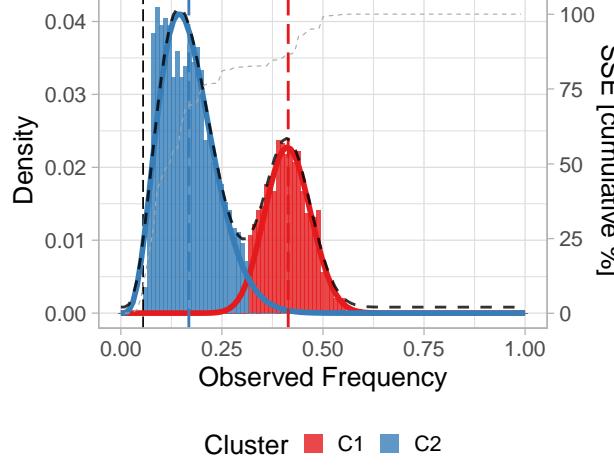


2:1



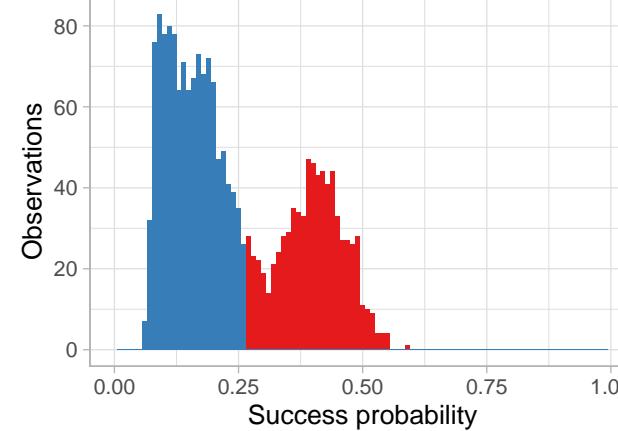
Karyotype: 2:0

N = 1979; Tail 0%, C1 32.15%, C2 67.85%



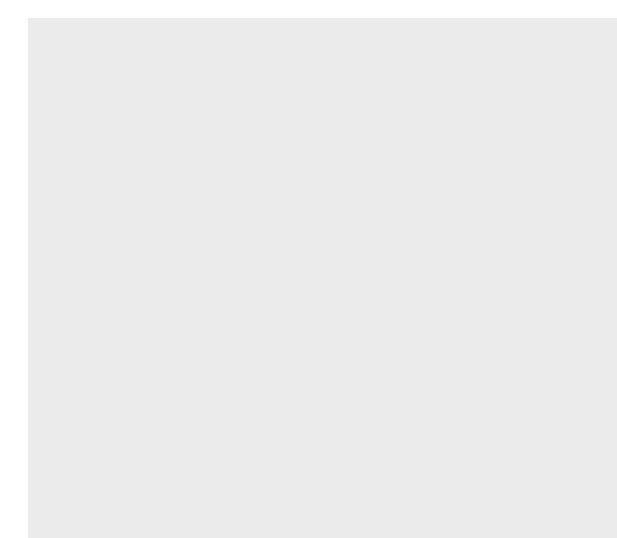
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

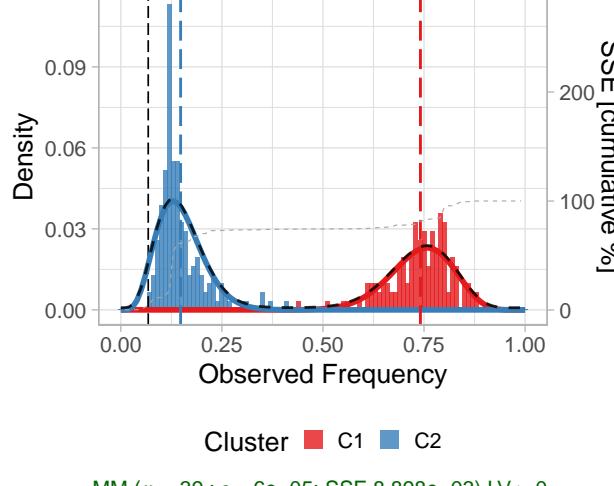


161118_HMFregCPCT_FR13271966_FR13272002_CPCT02070033

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

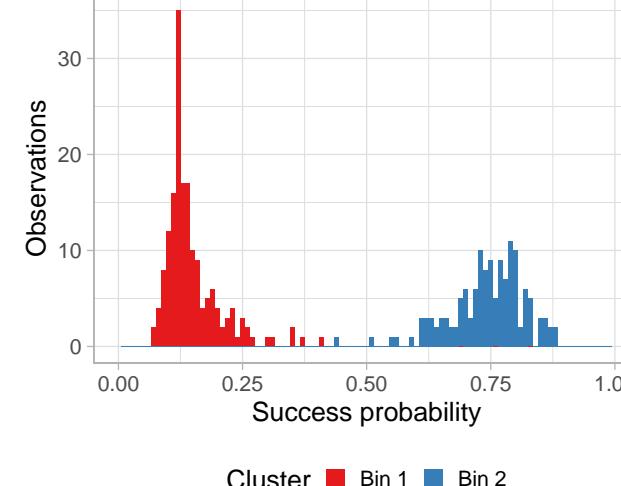
N = 309; Tail 0%, C1 44.72%, C2 55.28%



MM ($\omega = 39$; $\varepsilon = 6e-05$; SSE 8.898e-03) LV > 0

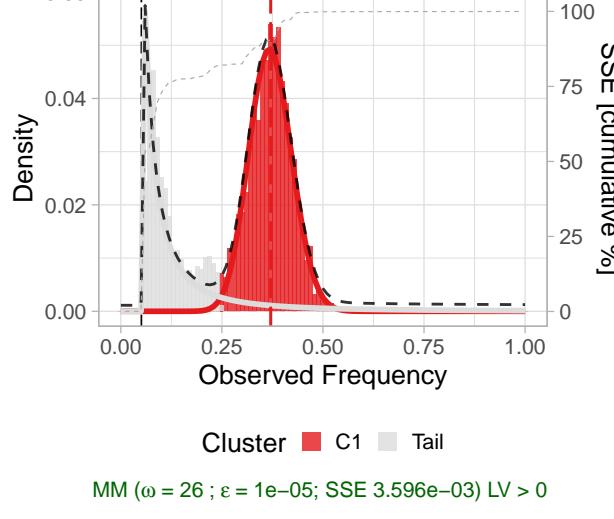
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

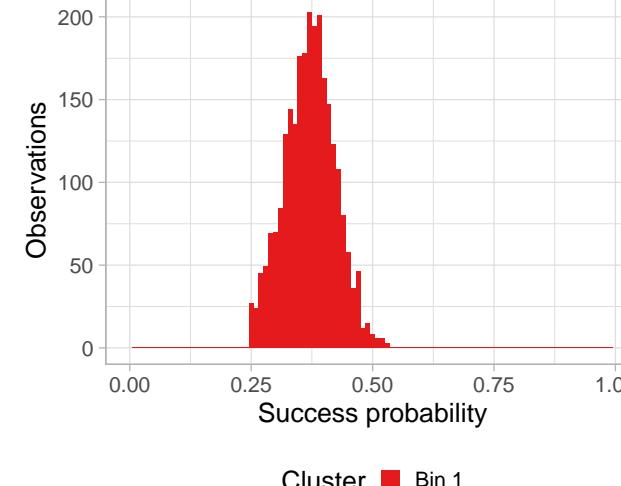
N = 3767; Tail 35.12%, C1 64.88%



MM ($\omega = 26$; $\varepsilon = 1e-05$; SSE 3.596e-03) LV > 0

Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

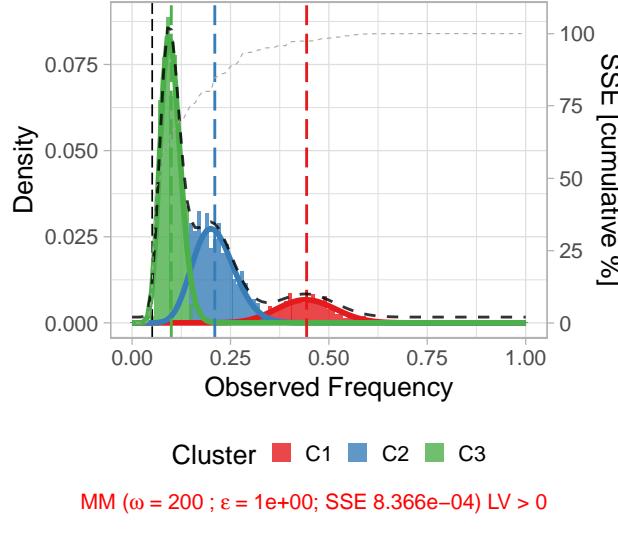
2:2

161120_HMFregCPCT_FR12244410_FR12251875_CPCT02080047

ONLY SNVs (min 150 – max 50000)

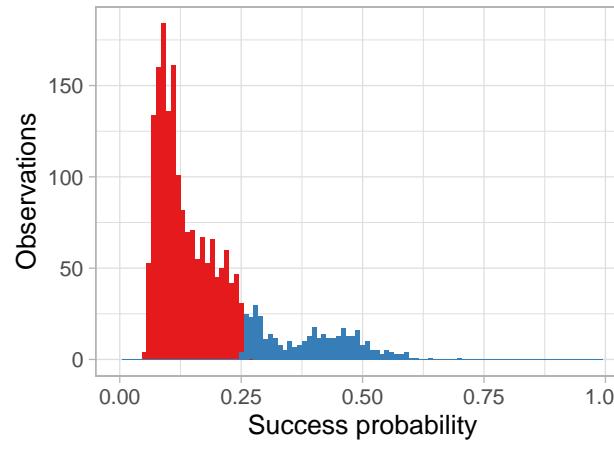
Karyotype: 1:0

N = 2073; Tail 0%, C1 12.35%, C2 35.53%, C



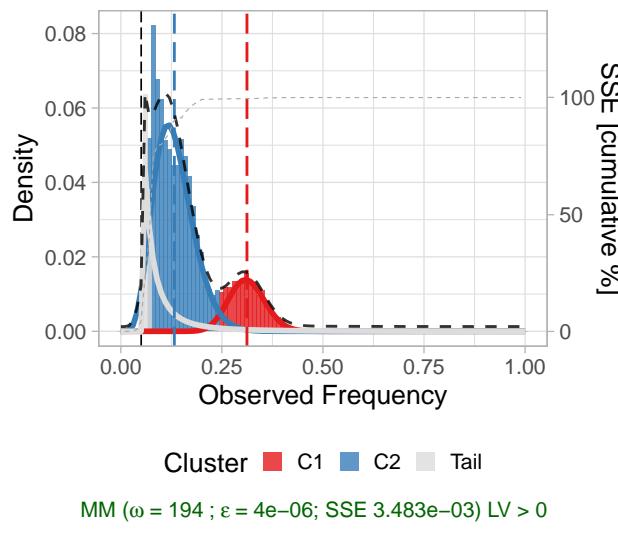
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



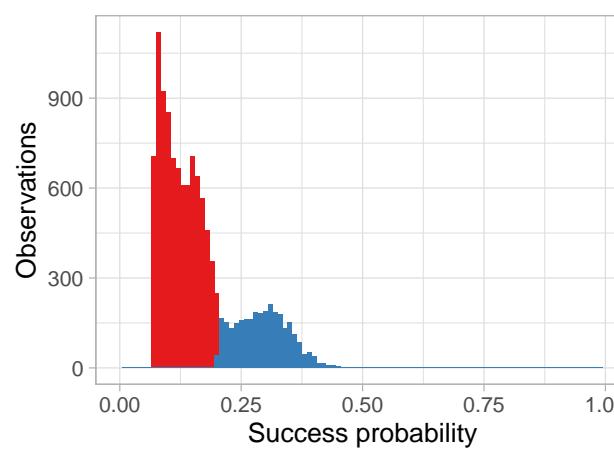
Karyotype: 1:1

N = 13644; C1 15.36%, Tail 19.72%, C2 64.92



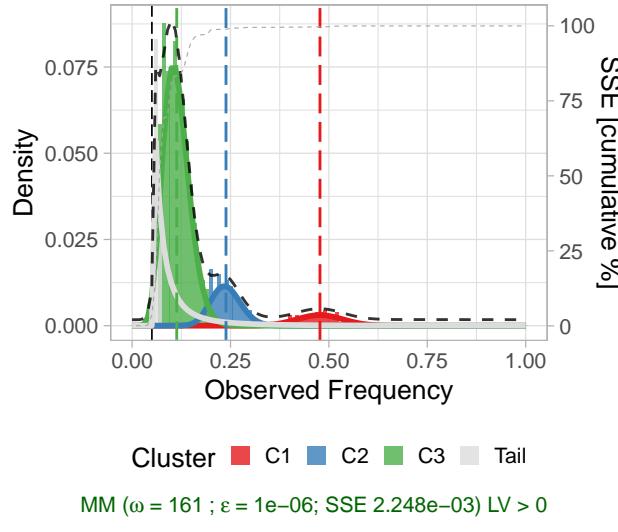
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



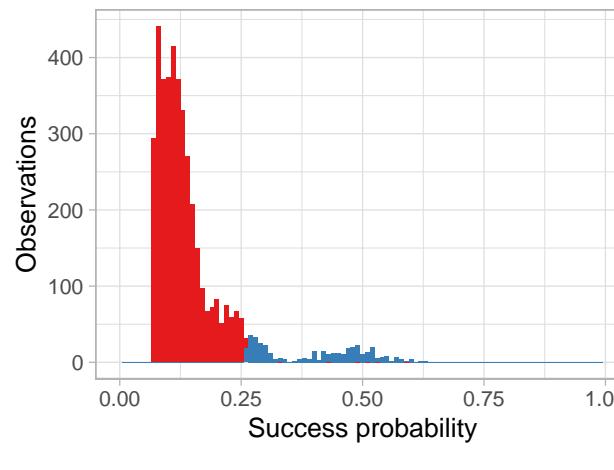
Karyotype: 2:1

N = 5036; C1 4.46%, C2 10.71%, Tail 23.72%



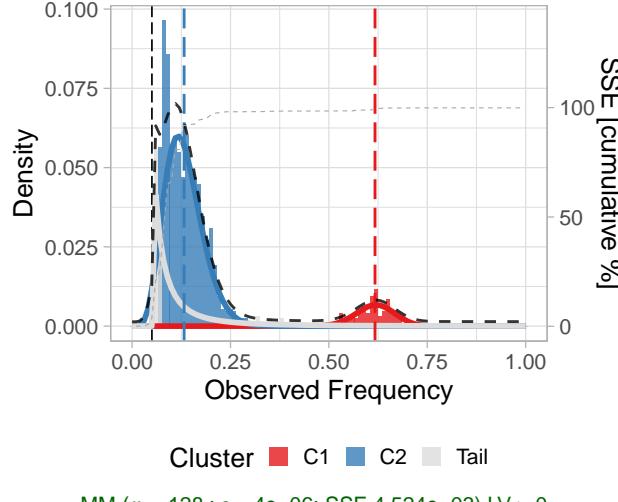
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



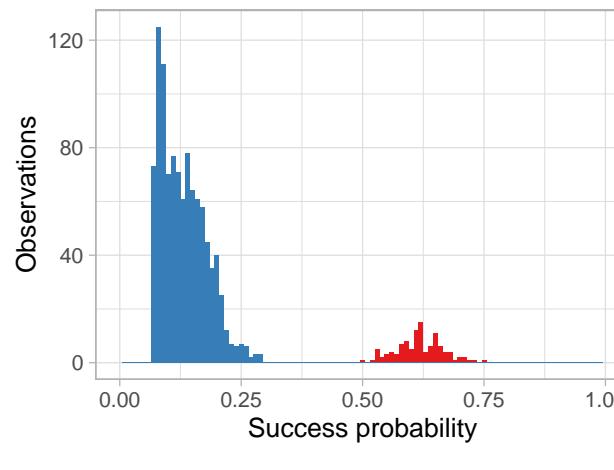
Karyotype: 2:0

N = 1296; C1 8.07%, Tail 22.33%, C2 69.6%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

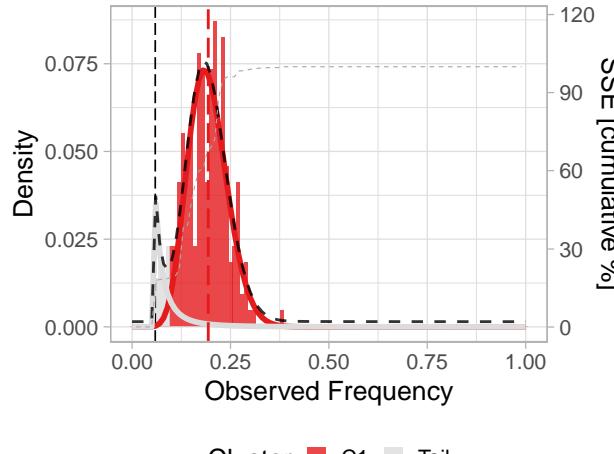
2:2

161120_HMFregCPCT_FR12245852_FR12254140_CPCT02010414

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

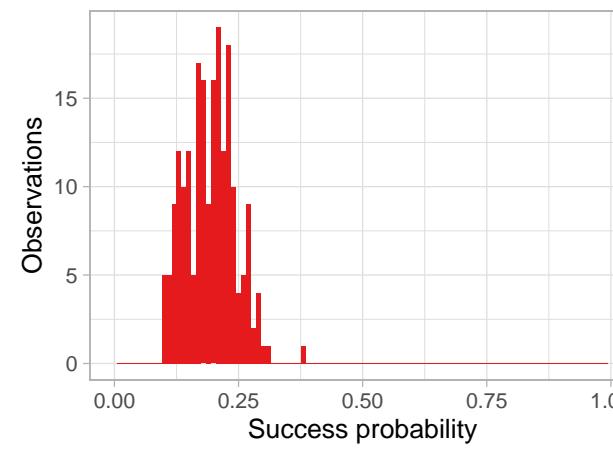
N = 218; Tail 9.85%, C1 90.15%



MM ($\omega = 81$; $\epsilon = 9e-07$; SSE 5.447e-03) LV > 0

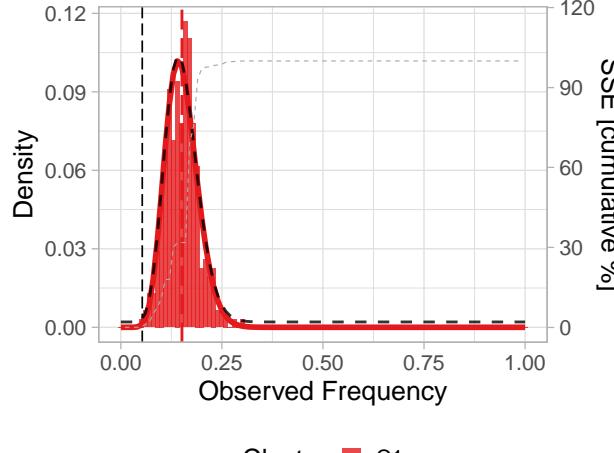
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

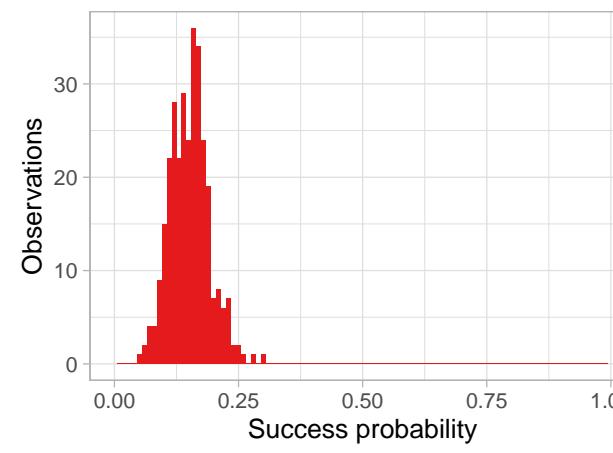
N = 308; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 4.030e-03) LV > 0

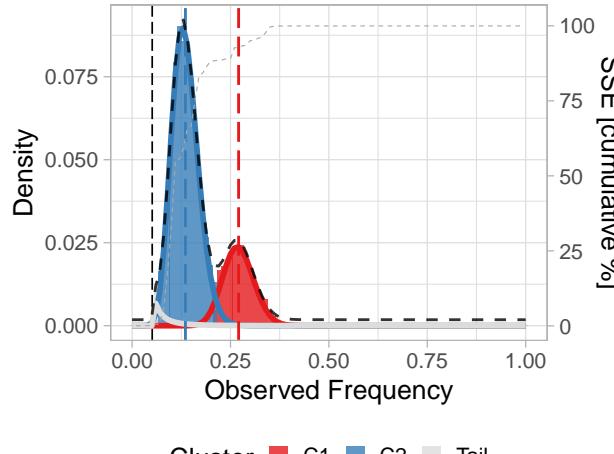
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

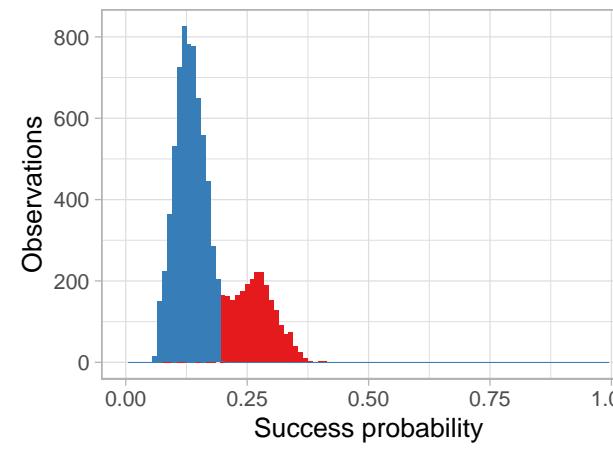
N = 9150; Tail 2.68%, C1 23.08%, C2 74.24%



MM ($\omega = 200$; $\epsilon = 5e-06$; SSE 6.799e-04) LV > 0

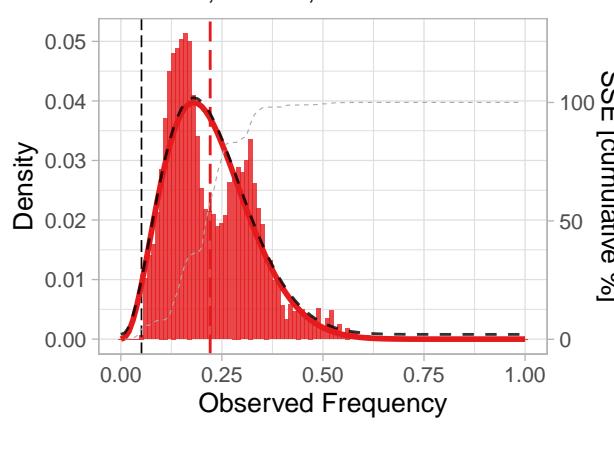
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

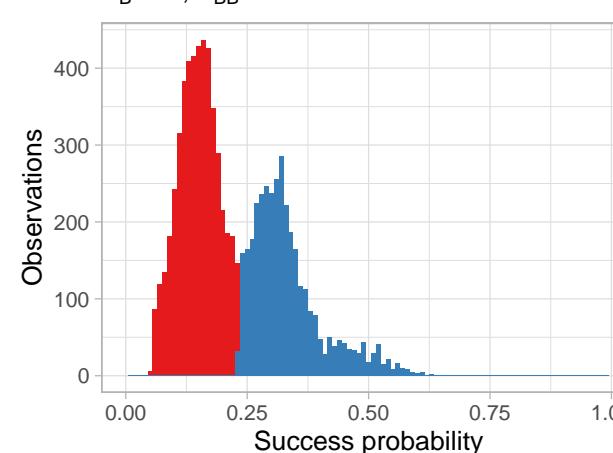
N = 8510; Tail 0%, C1 100%



MM ($\omega = 115$; $\epsilon = 3e-05$; SSE 3.088e-03) LV > 0

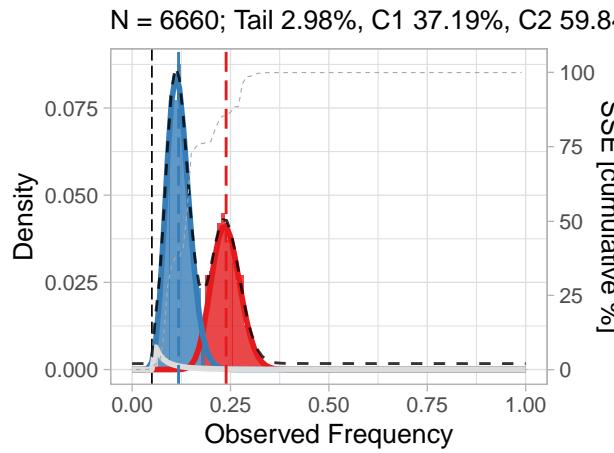
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

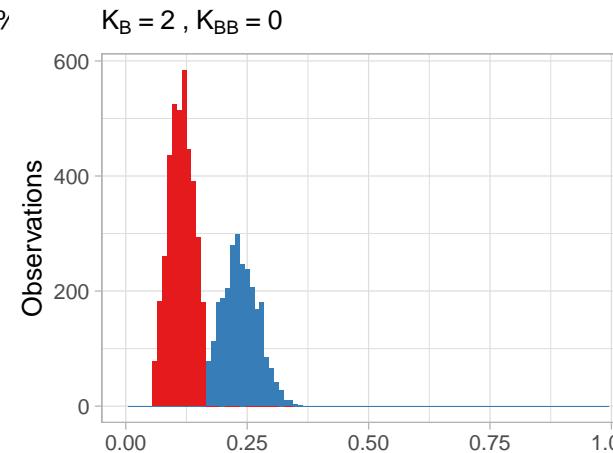
N = 6660; Tail 2.98%, C1 37.19%, C2 59.84%



MM ($\omega = 122$; $\epsilon = 2e-06$; SSE 7.082e-04) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

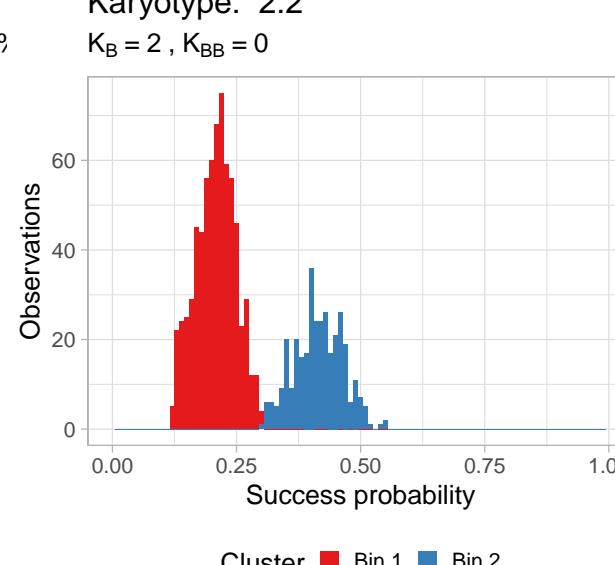
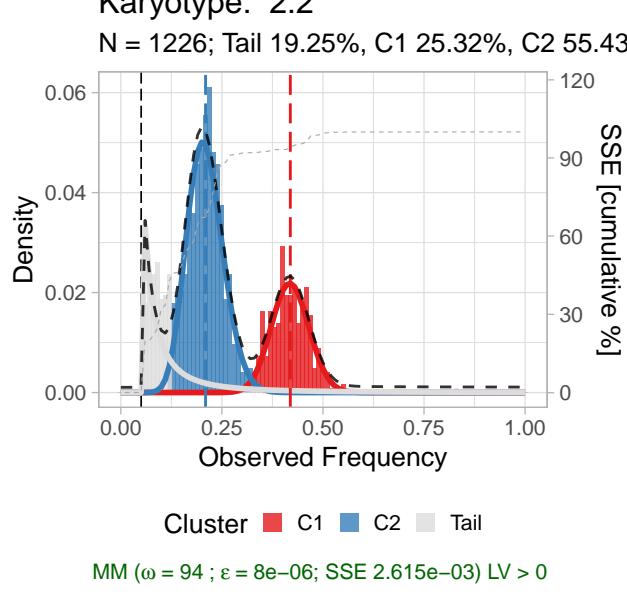
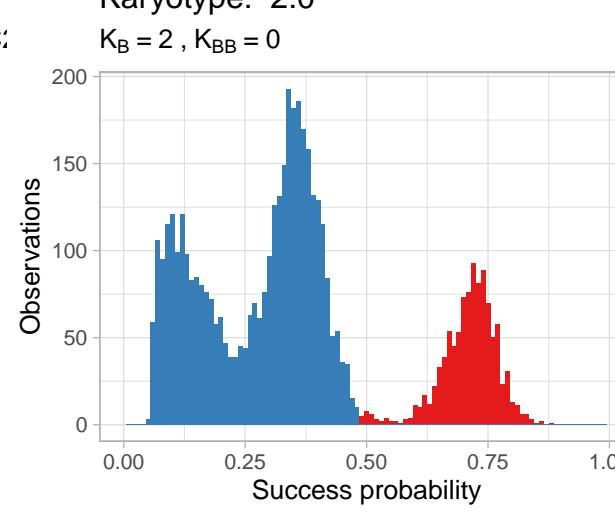
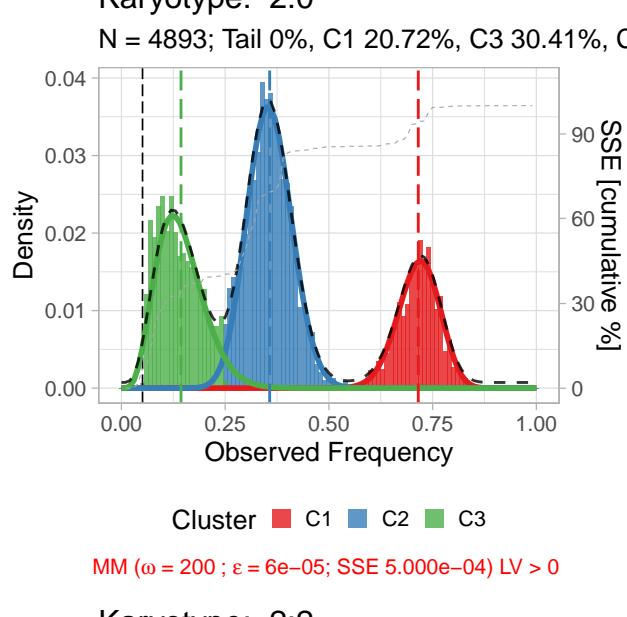
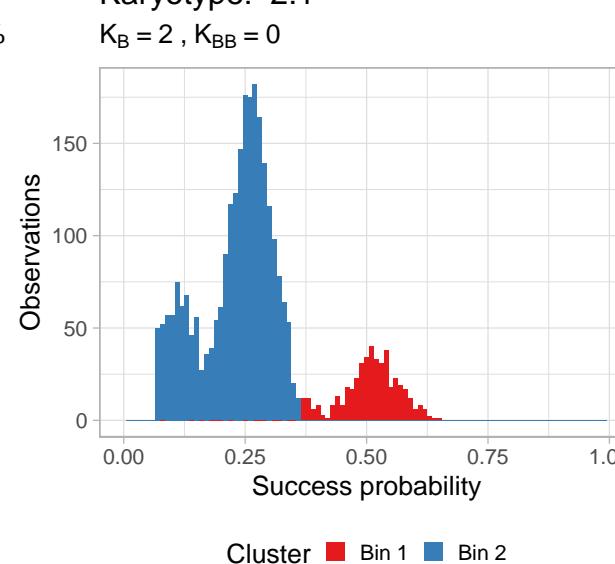
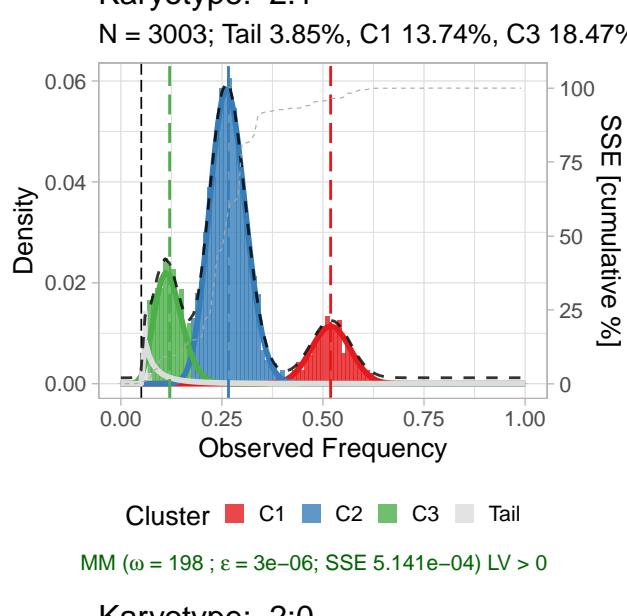
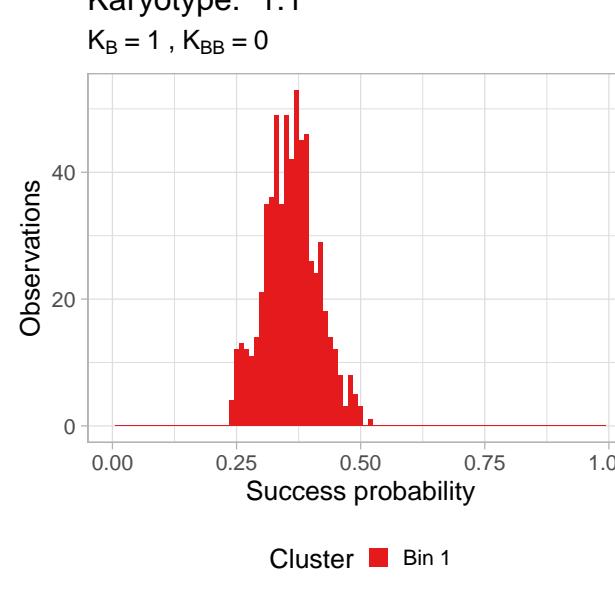
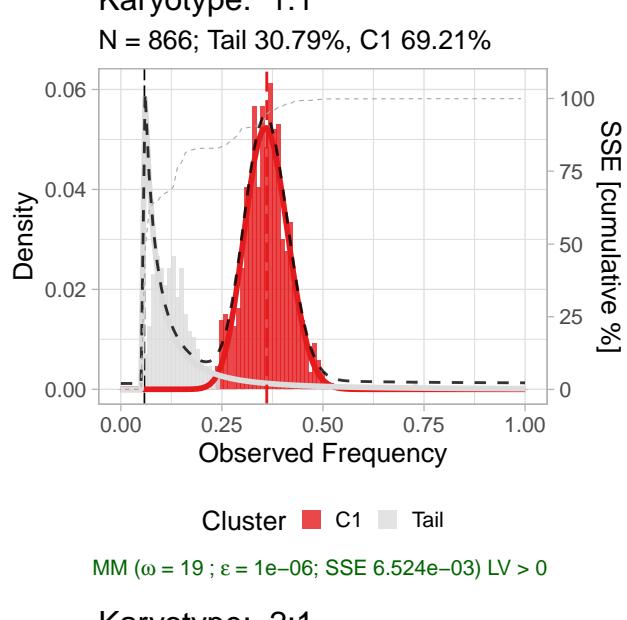
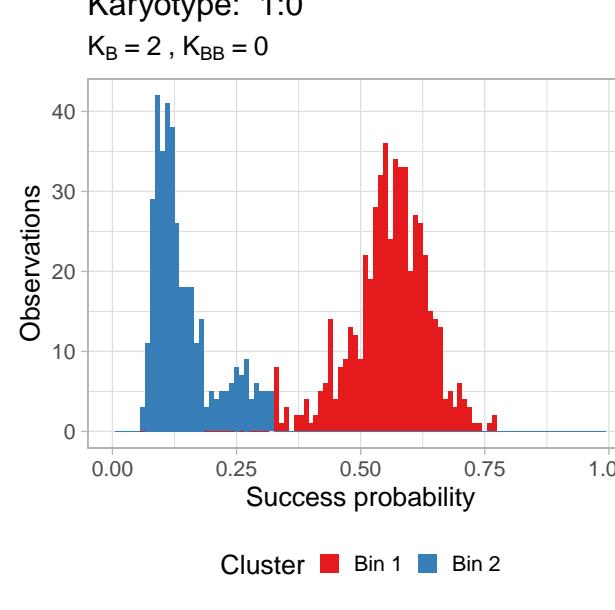
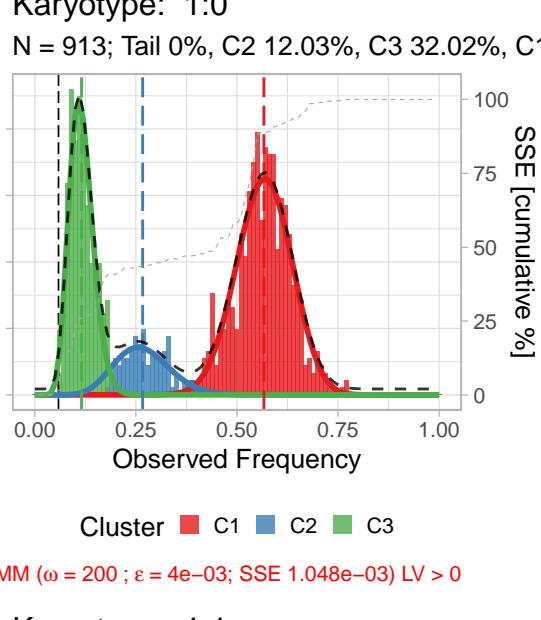


MM ($\omega = 122$; $\epsilon = 2e-06$; SSE 7.082e-04) LV > 0

MM ($\omega = 122$; $\epsilon = 2e-06$; SSE 7.082e-04) LV > 0

161120_HMFregCPCT_FR13271980_FR12251921_CPCT02080045

ONLY SNVs (min 150 – max 50000)

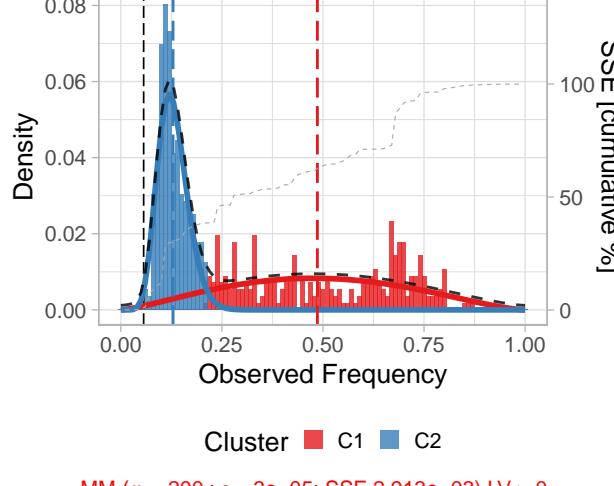


161123_HMFregCPCT_FR12244703_FR13275494_CPCT02060029

ONLY SNVs (min 150 – max 50000)

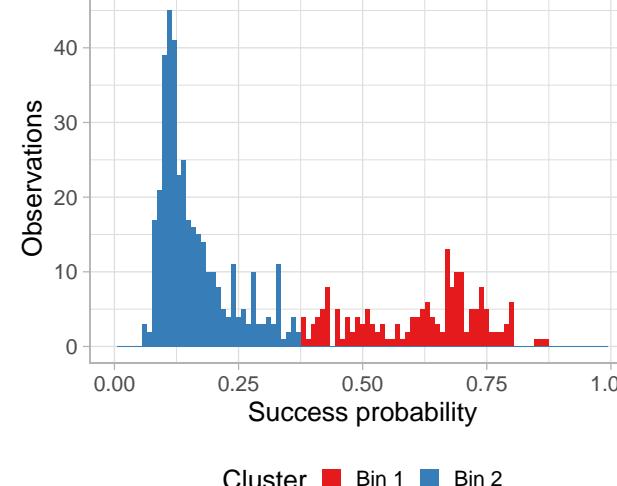
Karyotype: 1:0

N = 560; Tail 0%, C1 49.22%, C2 50.78%



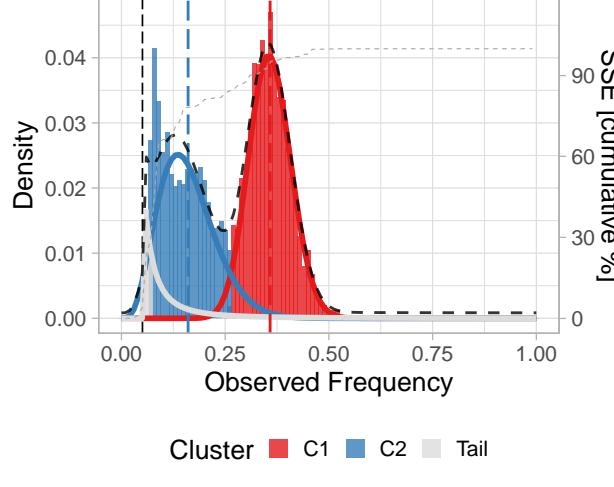
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



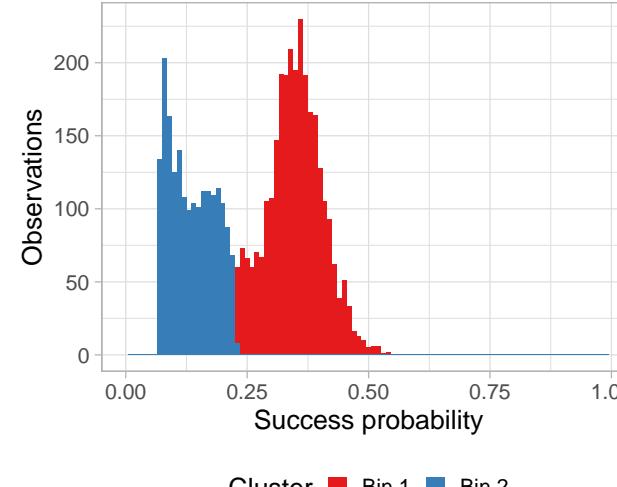
Karyotype: 1:1

N = 4898; Tail 8.05%, C2 40.71%, C1 51.24%



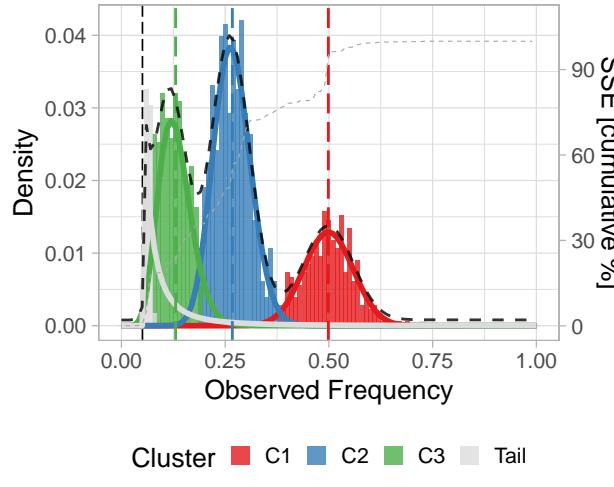
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



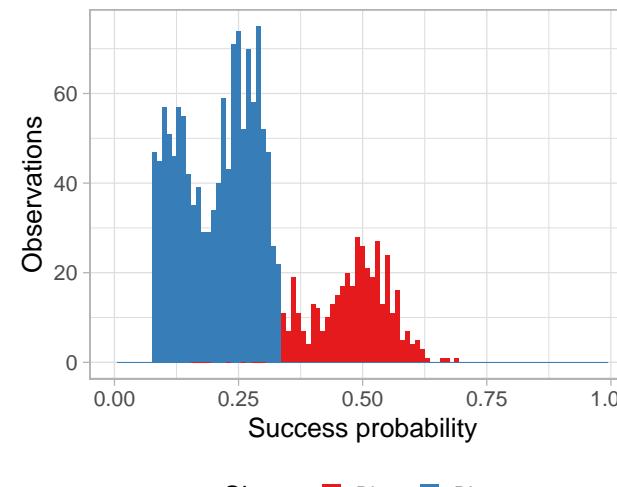
Karyotype: 2:1

N = 1781; Tail 10.81%, C1 19.18%, C3 26.98%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

2:2

161123_HMFregCPCT_FR12244704_FR13275493_CPCT02060033

ONLY SNVs (min 150 – max 50000)

1:0

1:0

1:1

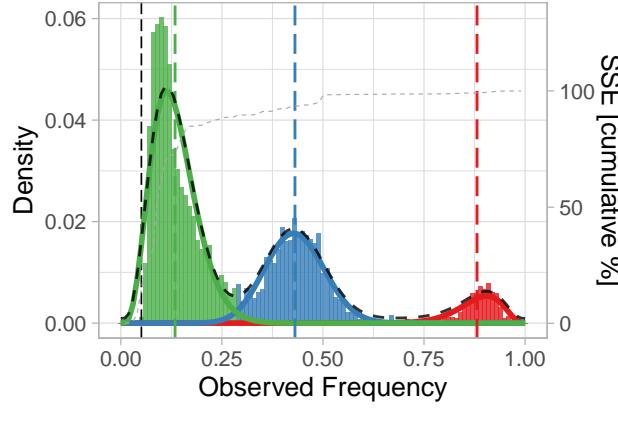
1:1

2:1

2:1

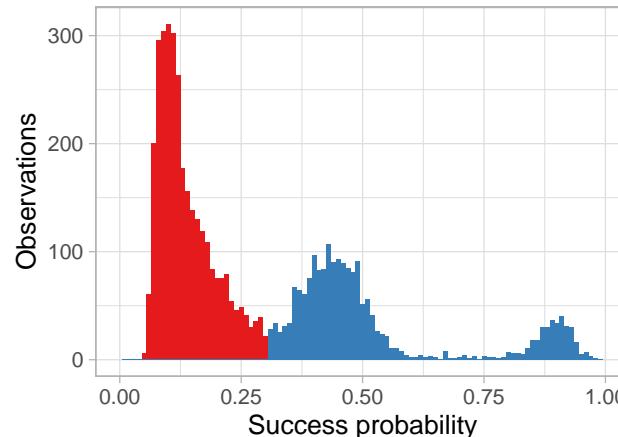
Karyotype: 2:0

N = 5162; Tail 0%, C1 6.95%, C2 32.24%, C3



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

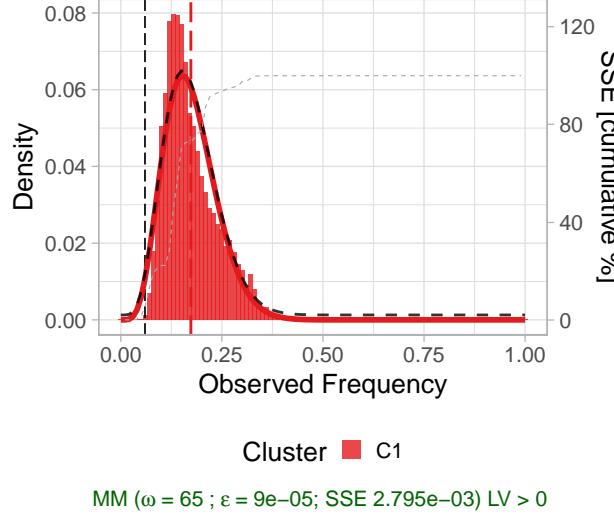
2:2

161123_HMFregCPCT_FR12244741_FR12251619_CPCT02100033

ONLY SNVs (min 150 – max 50000)

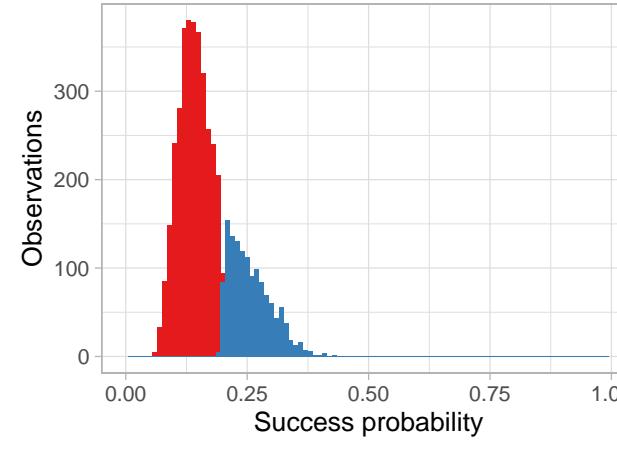
Karyotype: 1:0

N = 4767; Tail 0%, C1 100%



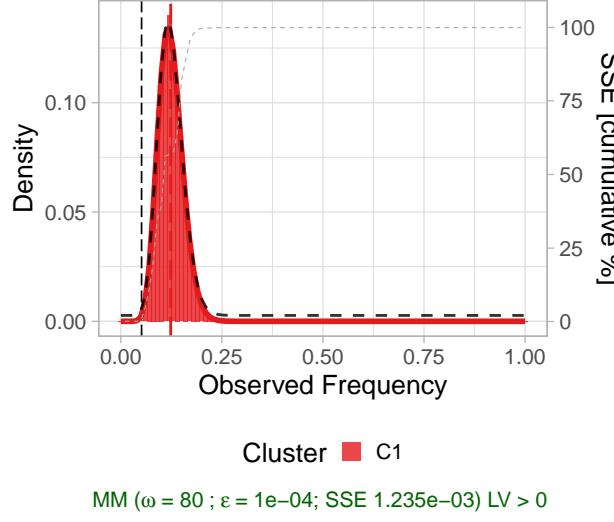
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



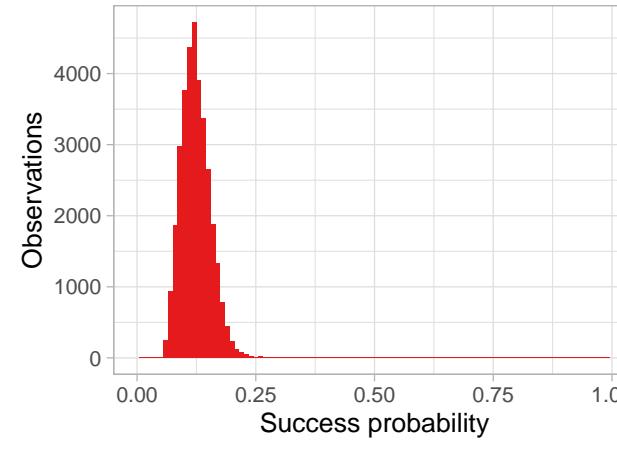
Karyotype: 1:1

N = 33792; Tail 0%, C1 100%



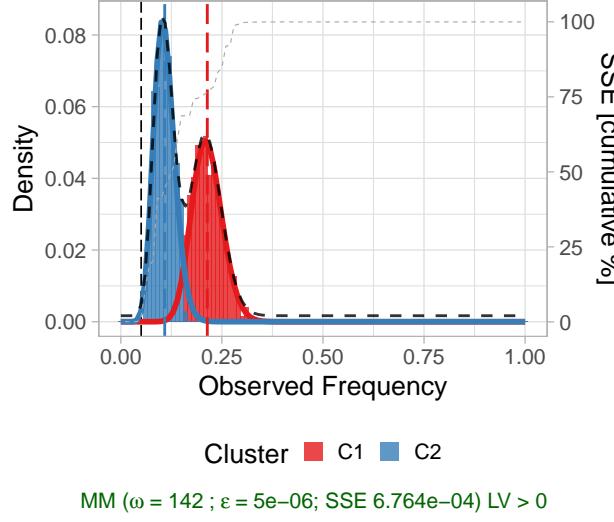
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



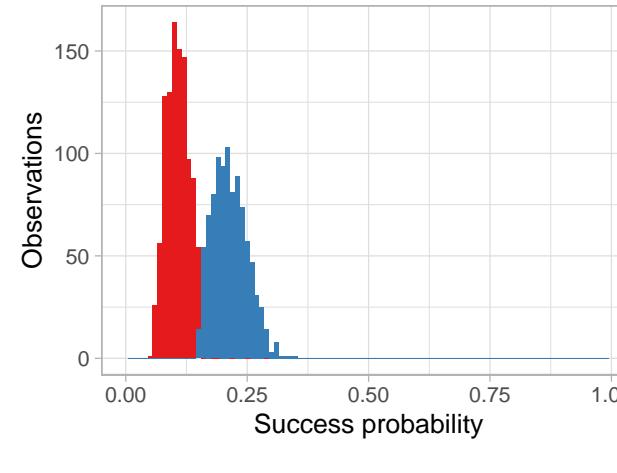
Karyotype: 2:1

N = 1988; Tail 0%, C1 46.81%, C2 53.19%



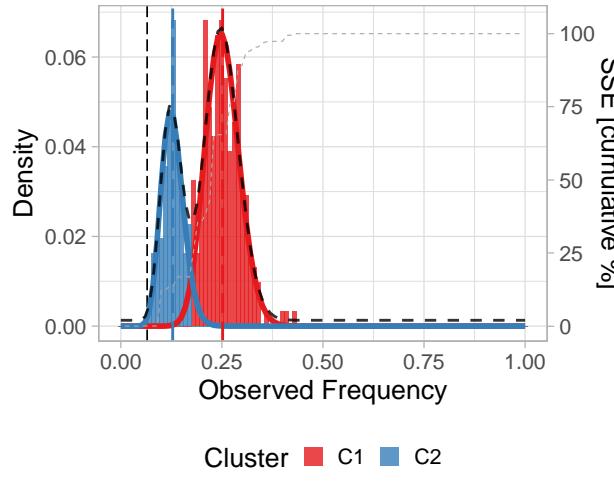
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



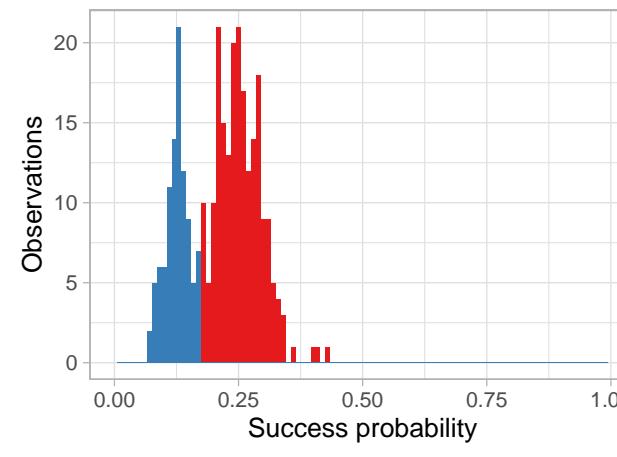
Karyotype: 2:0

N = 308; Tail 0%, C2 32.5%, C1 67.5%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

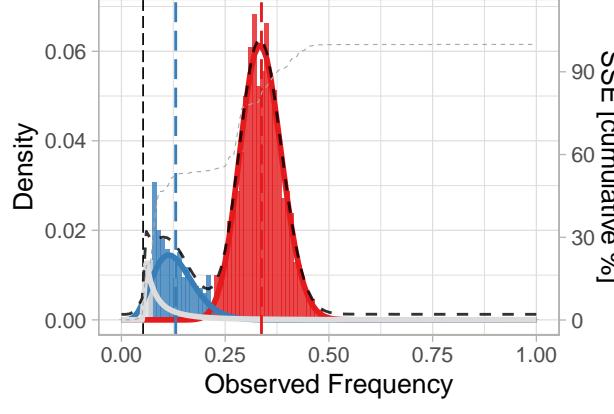
2:2

161123_HMFregCPCT_FR12244764_FR13275498_CPCT02010422

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

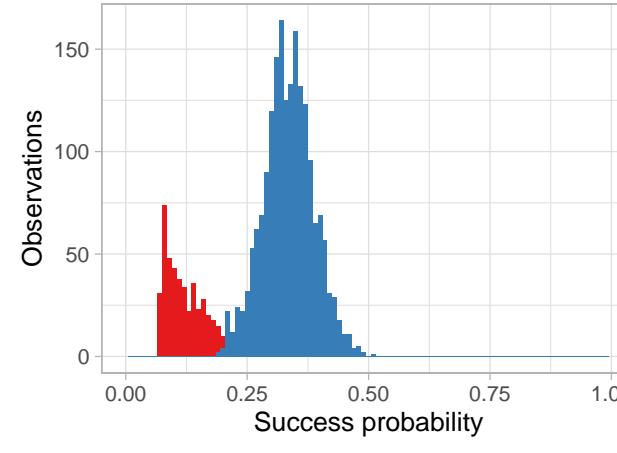
N = 2401; Tail 6.01%, C2 17.38%, C1 76.61%



MM ($\omega = 200$; $\epsilon = 1e-03$; SSE $8.033e-04$) LV > 0

Karyotype: 1:0

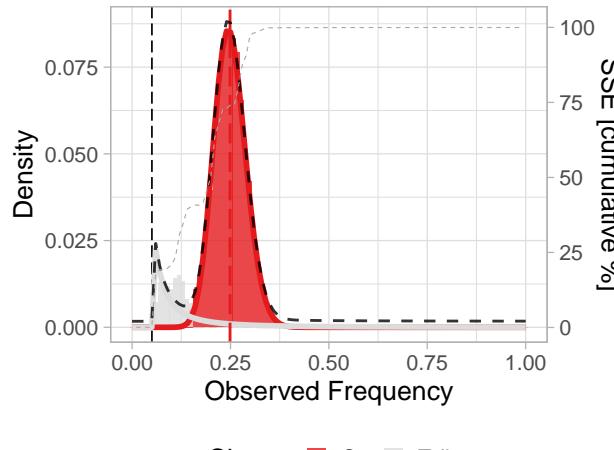
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

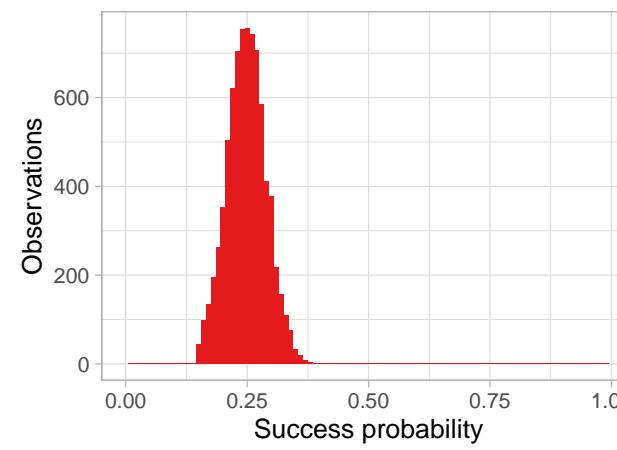
N = 8927; Tail 13.68%, C1 86.32%



MM ($\omega = 27$; $\epsilon = 5e-05$; SSE $1.589e-03$) LV > 0

Karyotype: 1:1

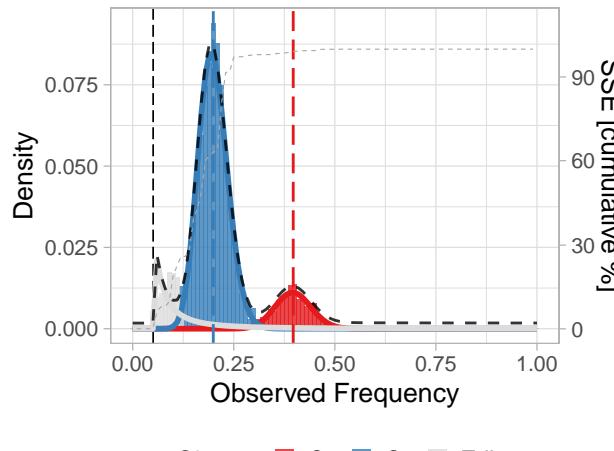
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

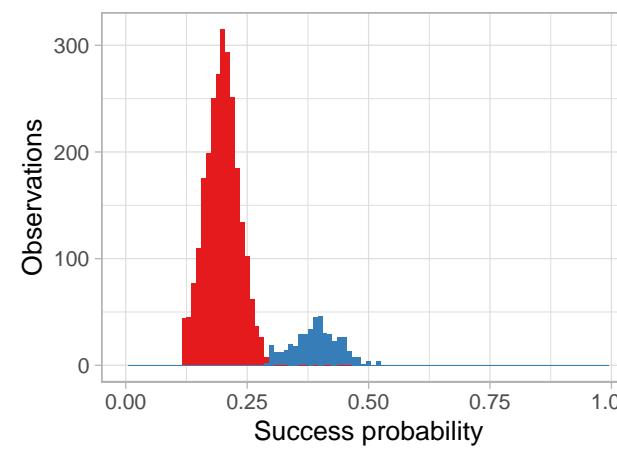
N = 3350; Tail 11.87%, C1 12.28%, C2 75.86



MM ($\omega = 41$; $\epsilon = 1e-05$; SSE $1.684e-03$) LV > 0

Karyotype: 2:1

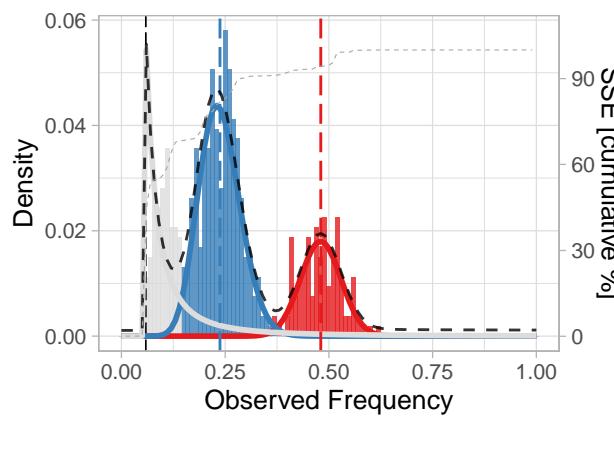
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

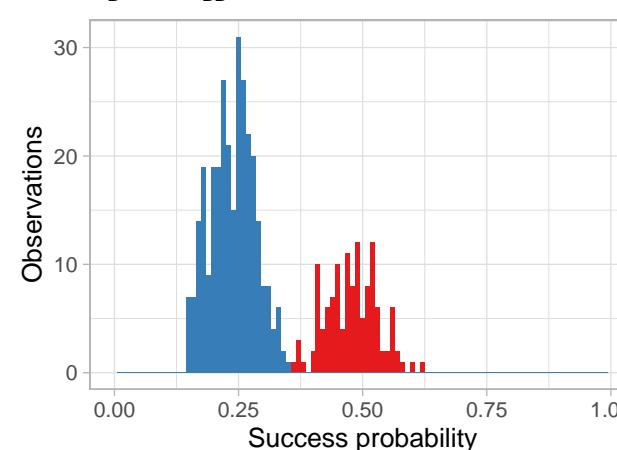
N = 534; C1 21.92%, Tail 24.01%, C2 54.07%



MM ($\omega = 85$; $\epsilon = 3e-06$; SSE $6.206e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

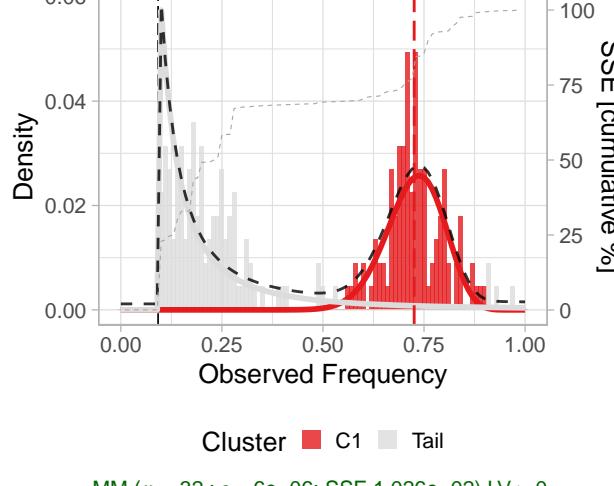
2:2

161123_HMFregCPCT_FR12251913_FR12251590_CPCT02100030

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

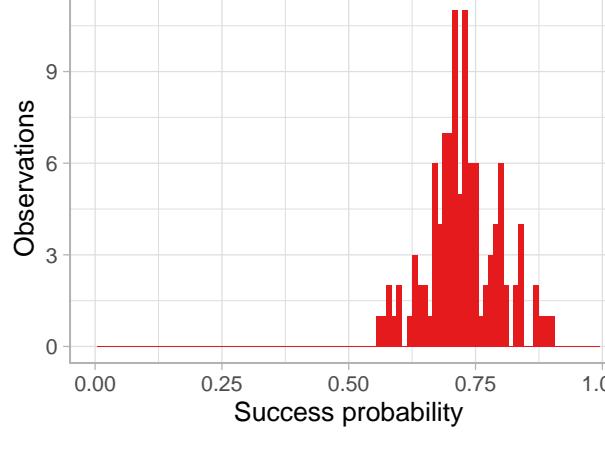
N = 223; C1 45.85%, Tail 54.15%



MM ($\omega = 32$; $\epsilon = 6e-06$; SSE 1.026e-02) LV > 0

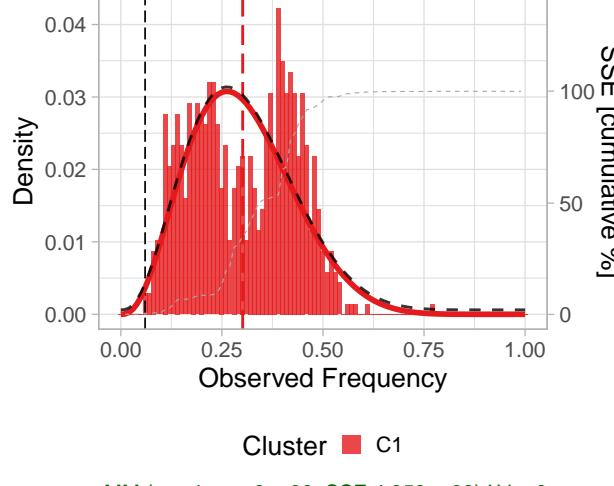
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



Karyotype: 1:1

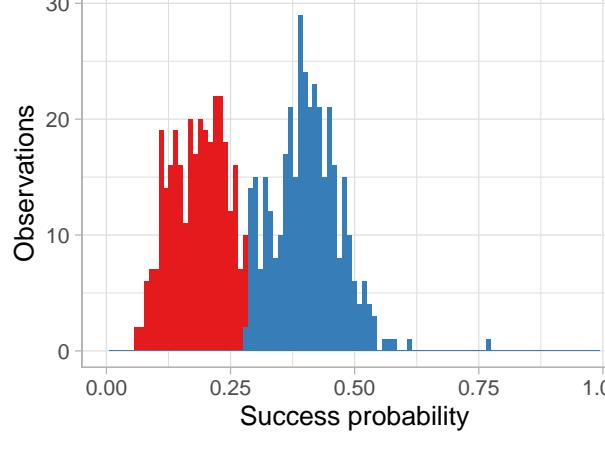
N = 687; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 4.353e-03) LV > 0

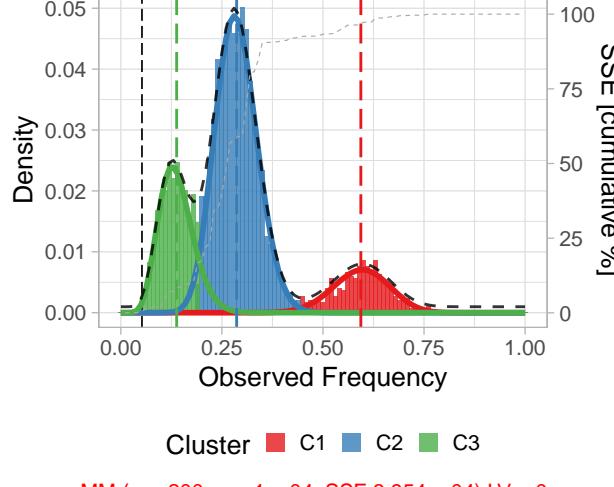
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:1

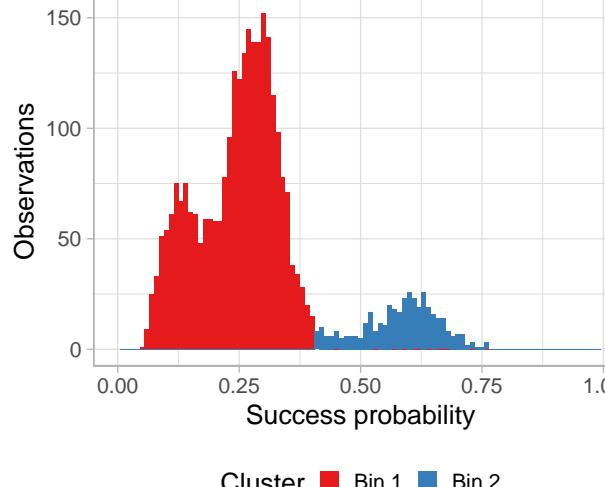
N = 3027; Tail 0%, C1 12.24%, C3 24.66%, C2 63.1%



MM ($\omega = 200$; $\epsilon = 1e-04$; SSE 3.954e-04) LV > 0

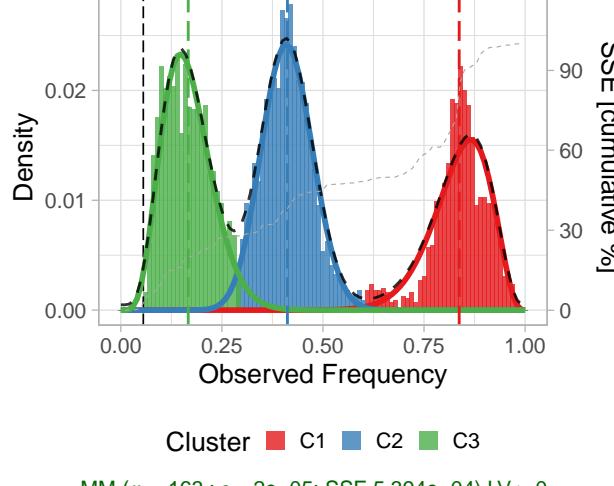
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

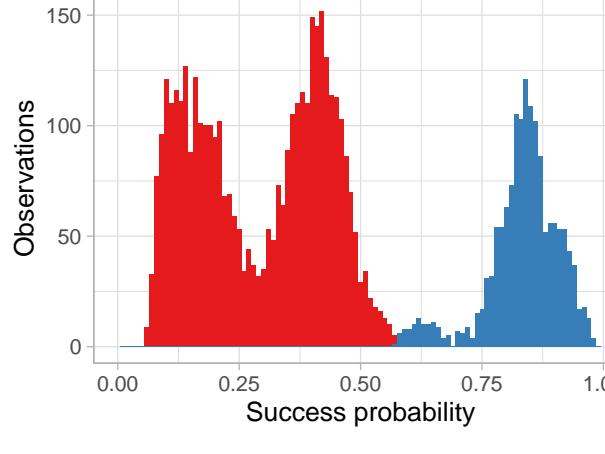
N = 5460; Tail 0%, C1 26.87%, C3 34.9%, C2 38.23%



MM ($\omega = 163$; $\epsilon = 2e-05$; SSE 5.394e-04) LV > 0

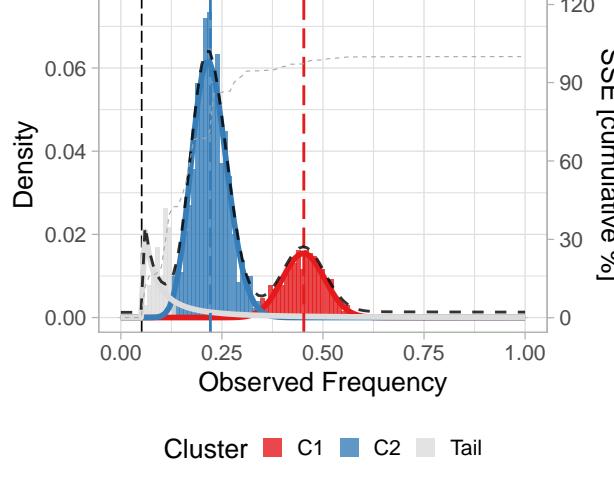
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

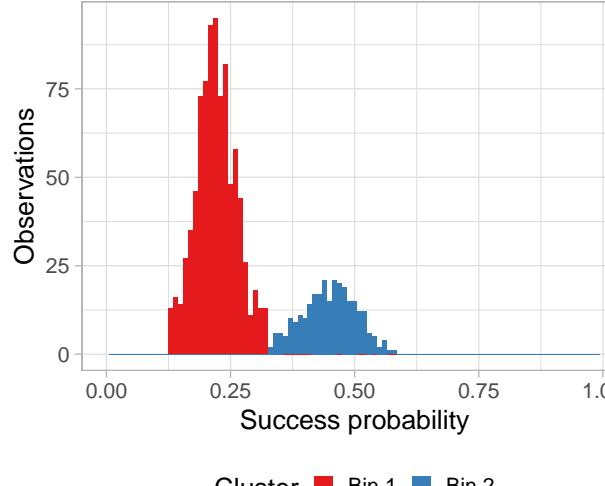
N = 1292; Tail 13.15%, C1 20.07%, C2 66.78%



MM ($\omega = 72$; $\epsilon = 7e-06$; SSE 2.208e-03) LV > 0

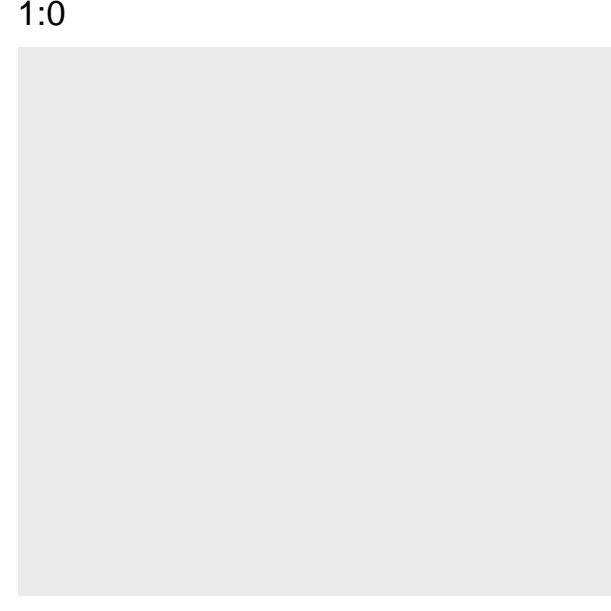
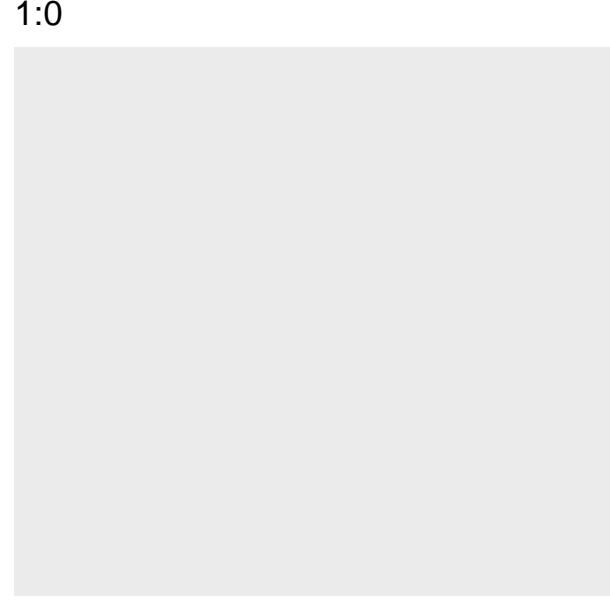
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



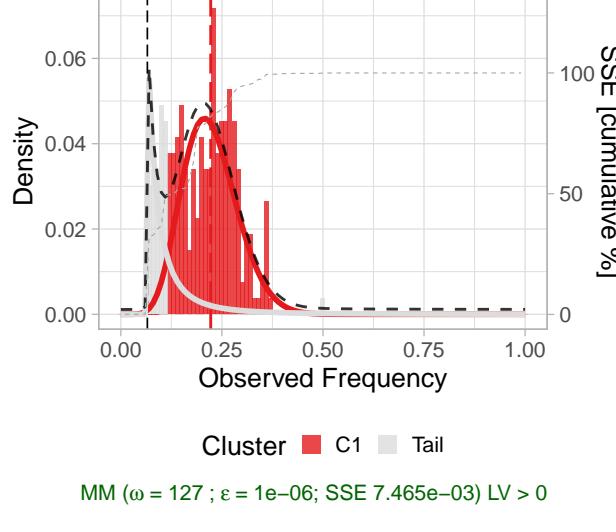
161123_HMFregCPCT_FR12254657_FR13275495_CPCT02060011

ONLY SNVs (min 150 – max 50000)



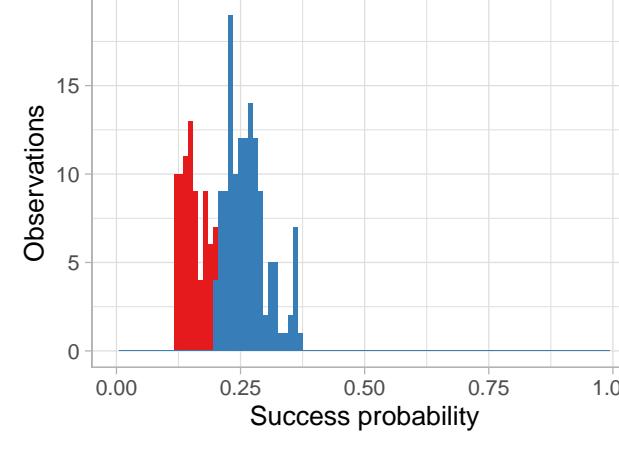
Karyotype: 1:1

N = 265; Tail 23.45%, C1 76.55%



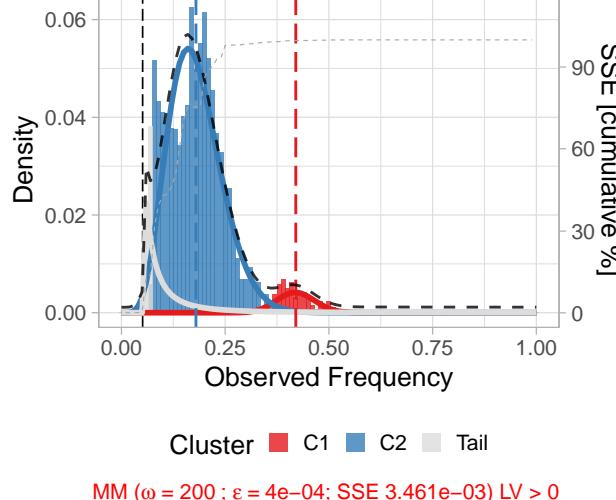
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



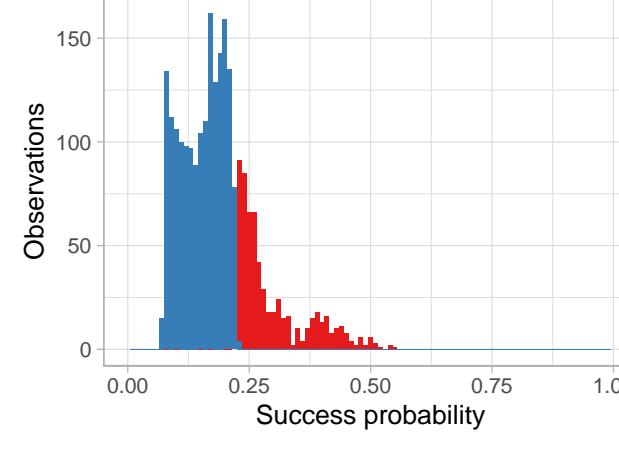
Karyotype: 2:1

N = 2588; C1 4.71%, Tail 10.9%, C2 84.38%



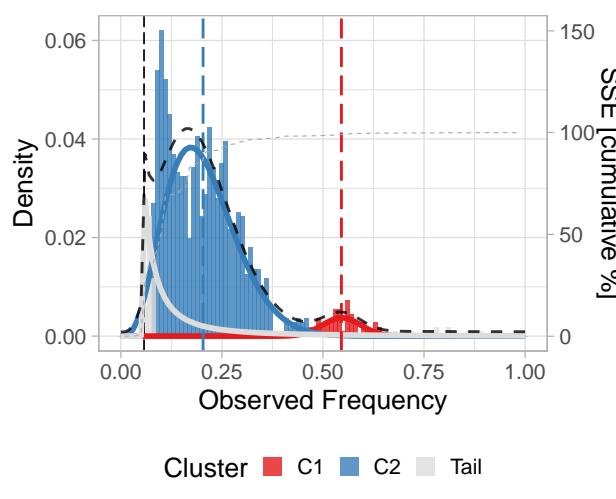
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



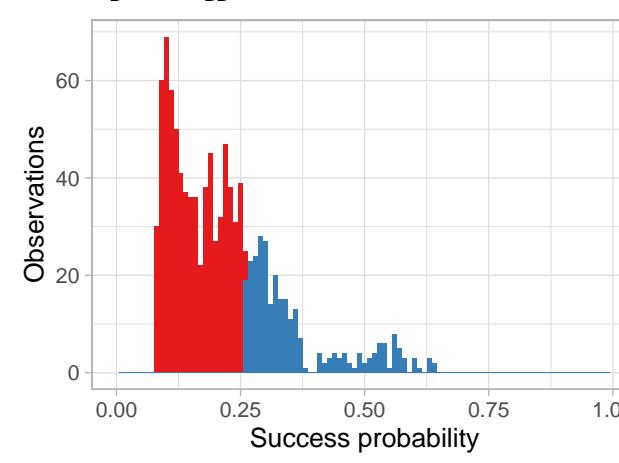
Karyotype: 2:0

N = 1112; C1 4.38%, Tail 15.37%, C2 80.25%



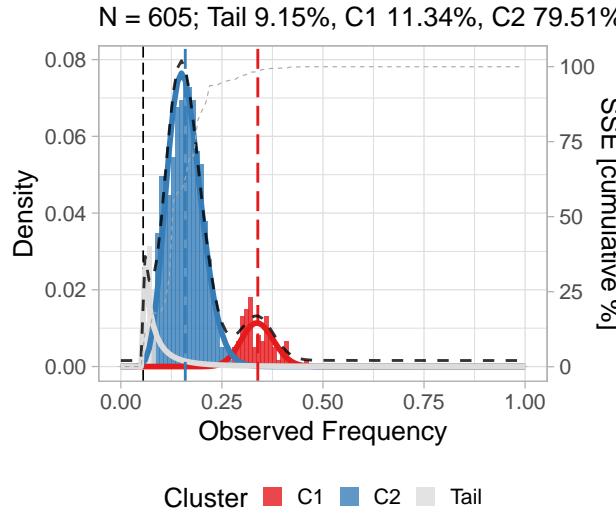
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



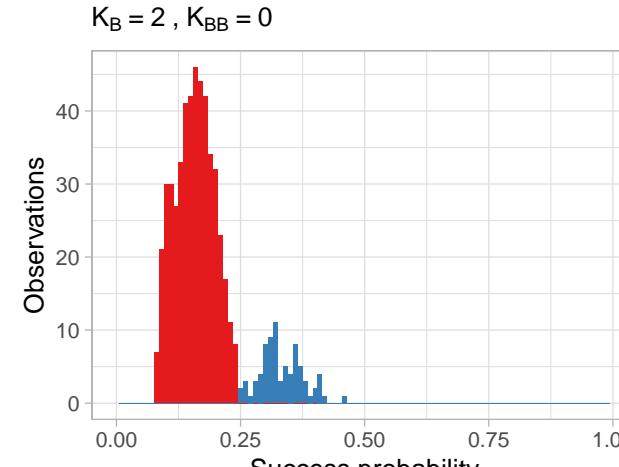
Karyotype: 2:2

N = 605; Tail 9.15%, C1 11.34%, C2 79.51%



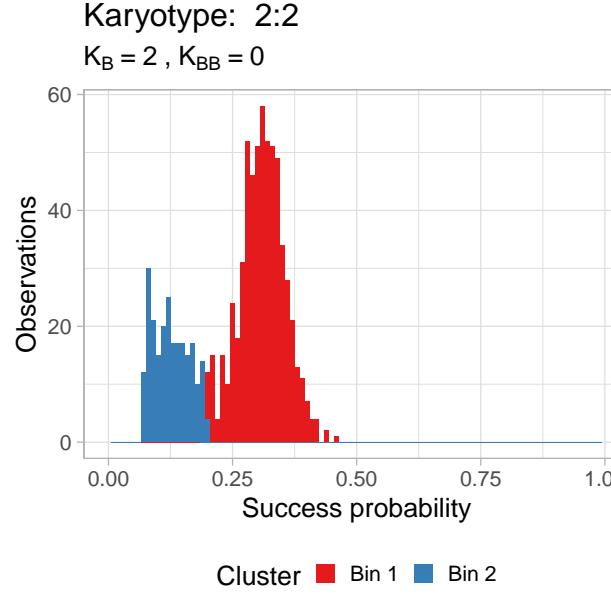
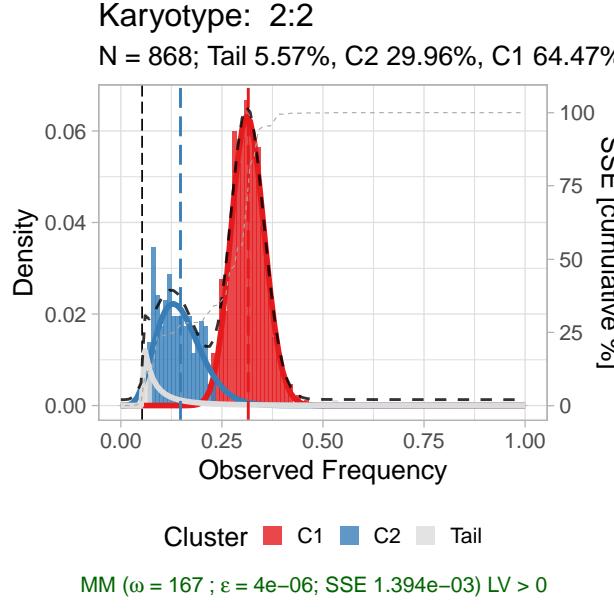
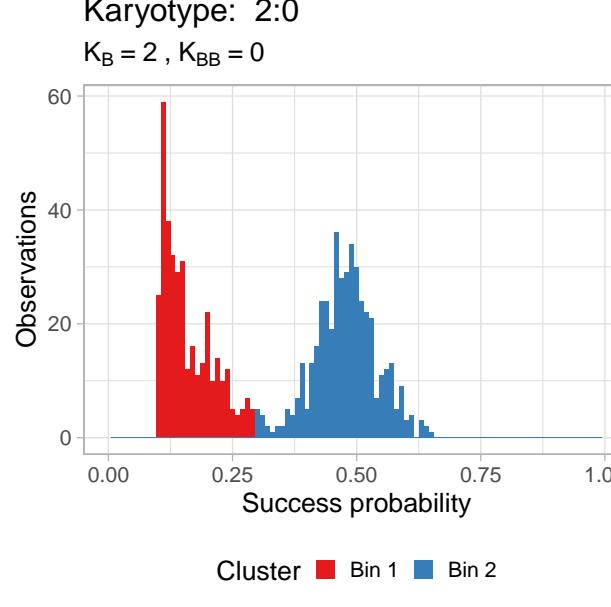
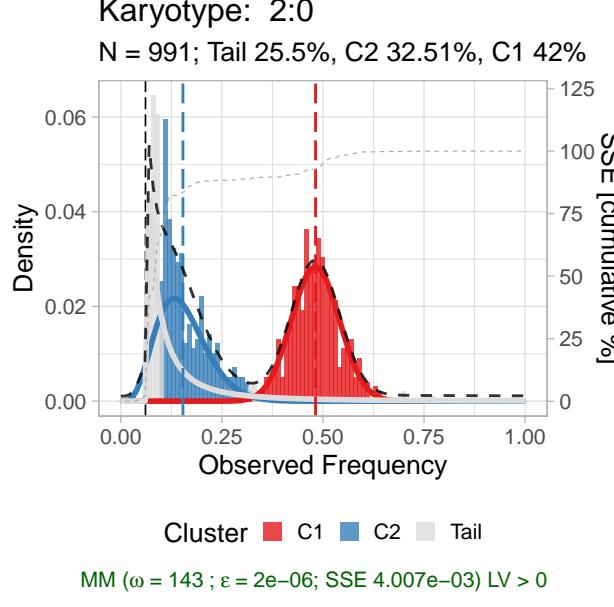
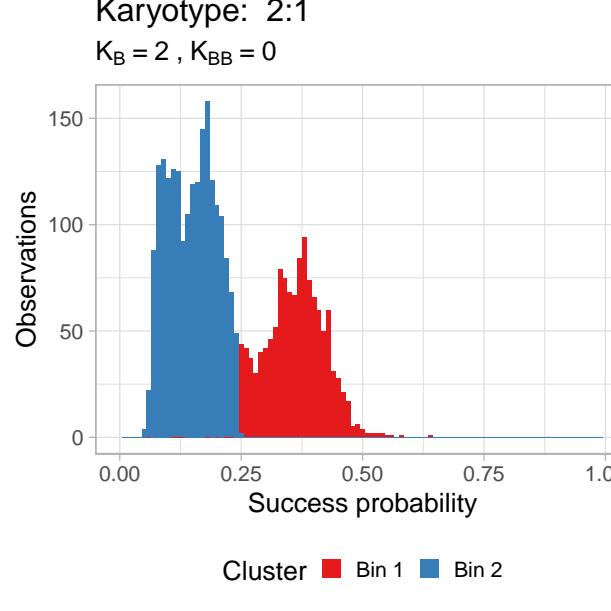
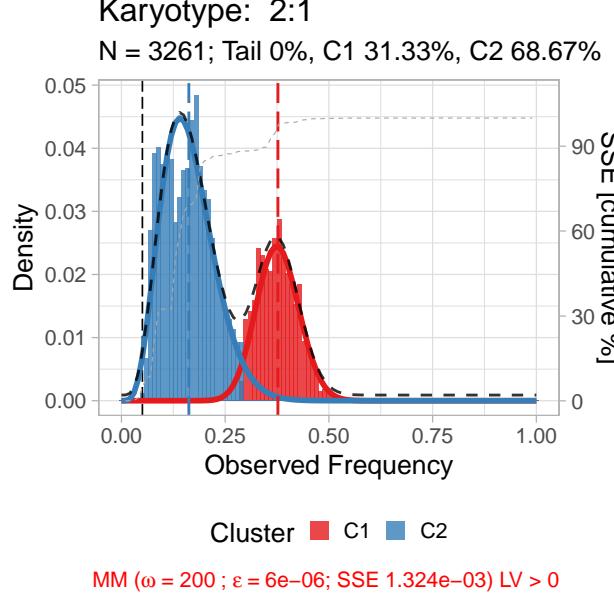
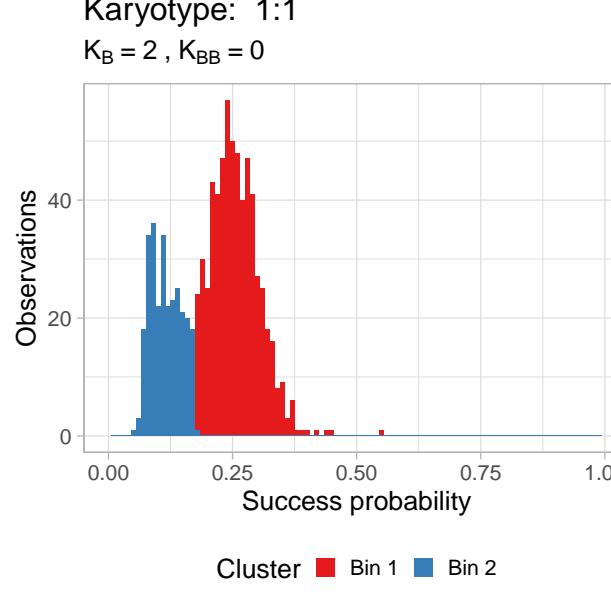
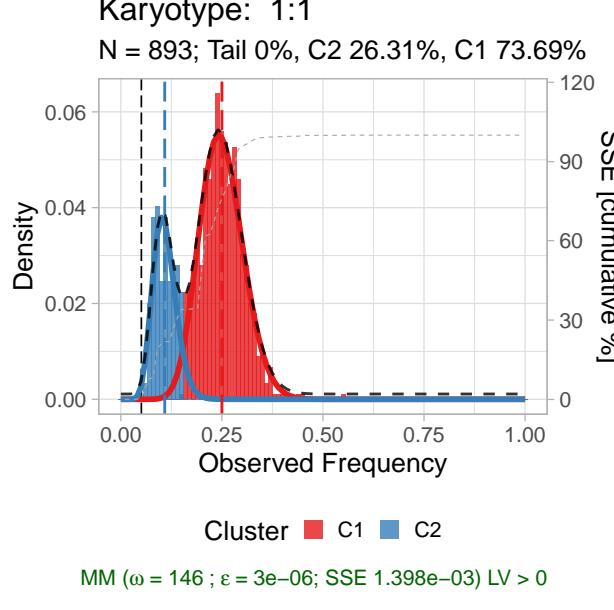
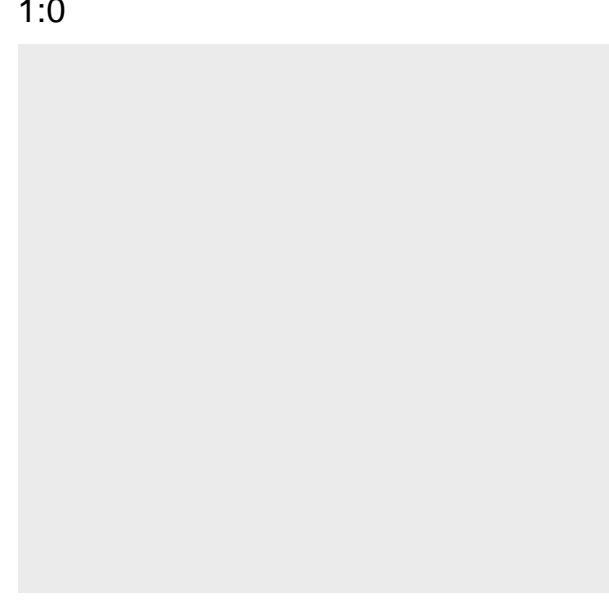
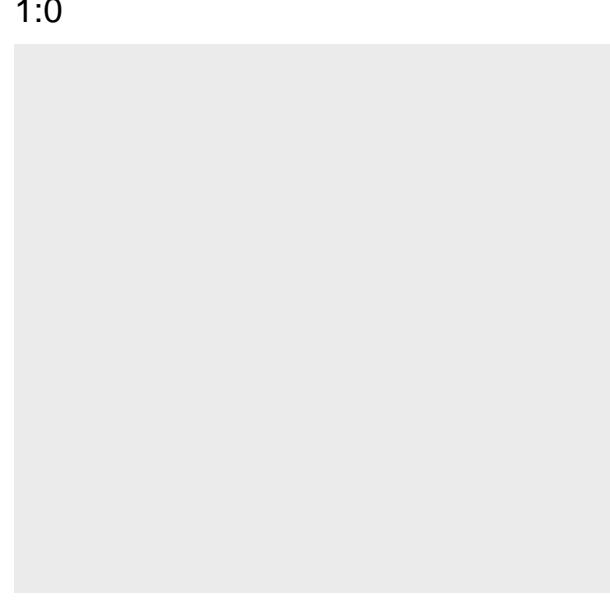
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



161128_HMFregCPCT_FR12244780_FR13275496_CPCT02020389

ONLY SNVs (min 150 – max 50000)

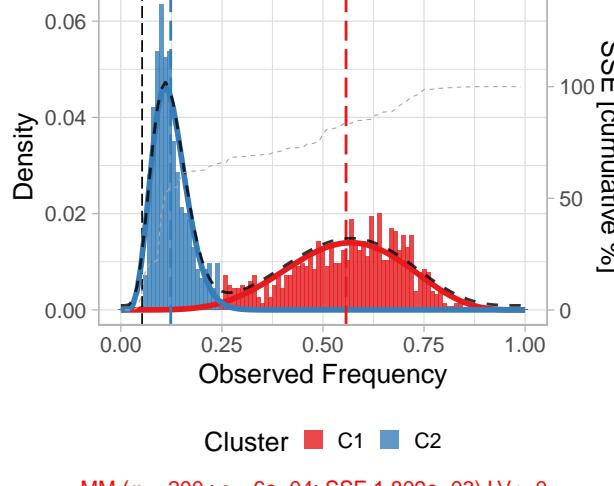


161128_HMFregCPCT_FR13271940_FR13275497_CPCT02070032

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

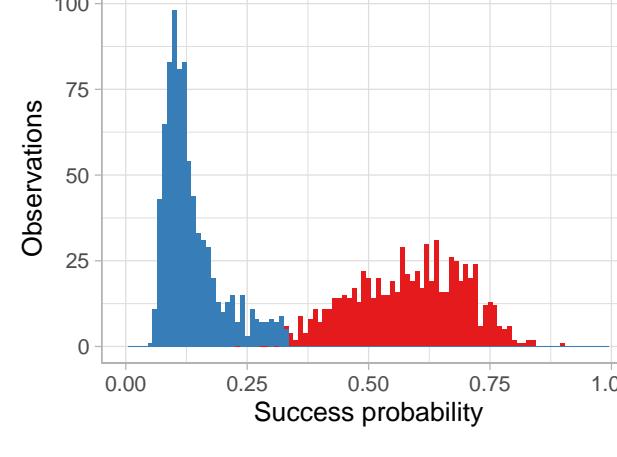
N = 1542; Tail 0%, C2 48.28%, C1 51.72%



MM ($\omega = 200$; $\epsilon = 6e-04$; SSE 1.809e-03) LV > 0

Karyotype: 1:0

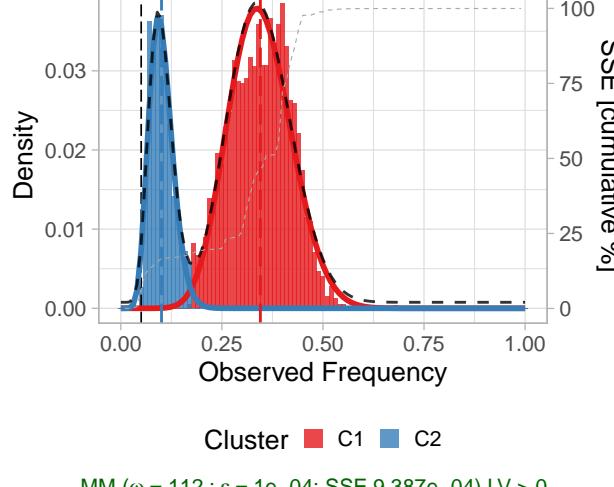
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

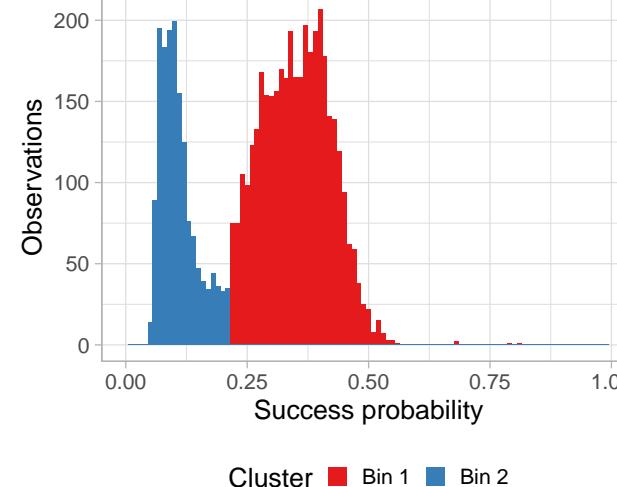
N = 5370; Tail 0%, C2 26.27%, C1 73.73%



MM ($\omega = 112$; $\epsilon = 1e-04$; SSE 9.387e-04) LV > 0

Karyotype: 1:1

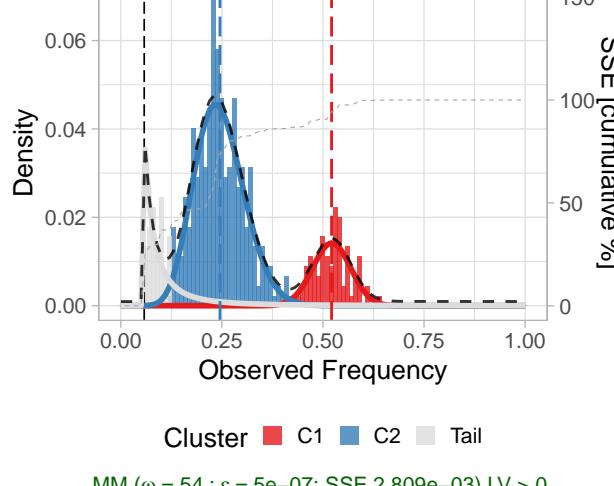
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

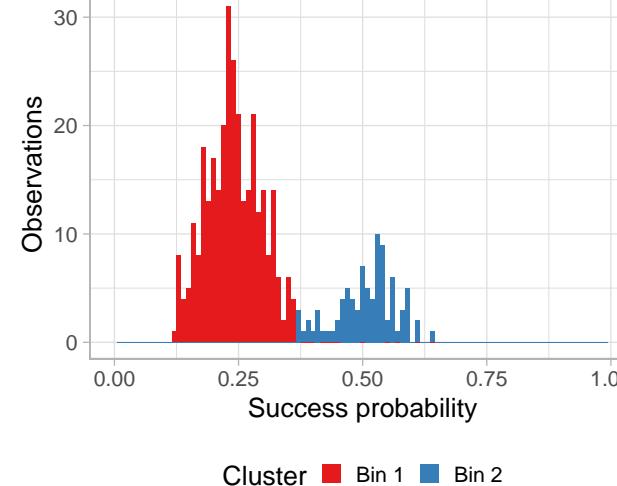
N = 448; Tail 13.82%, C1 16.6%, C2 69.58%



MM ($\omega = 54$; $\epsilon = 5e-07$; SSE 2.809e-03) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:0

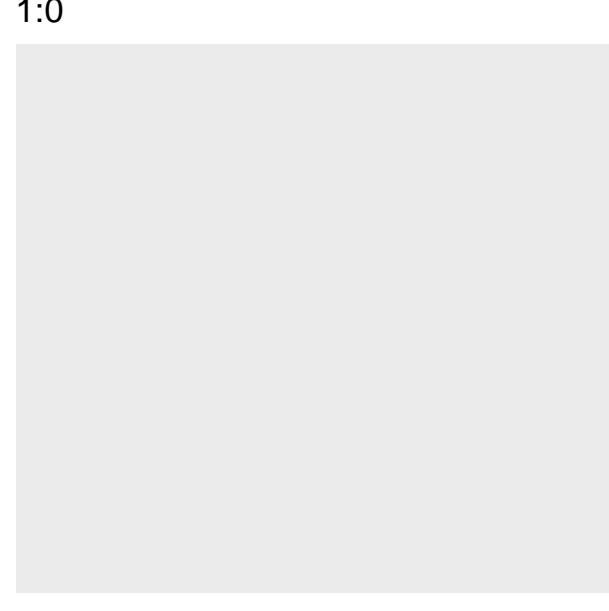
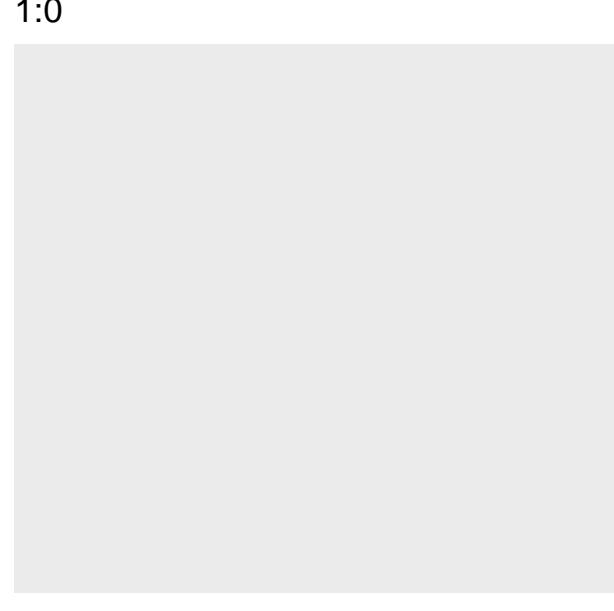
2:0

2:2

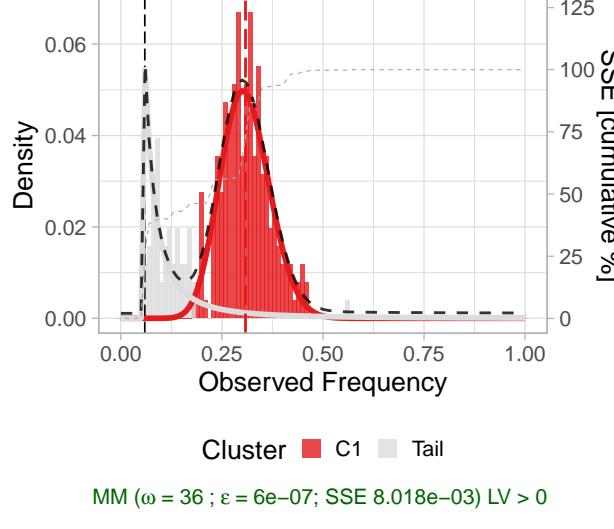
2:2

161128_HMFregCPCT_FR13271988_FR13275486_CPCT02060045

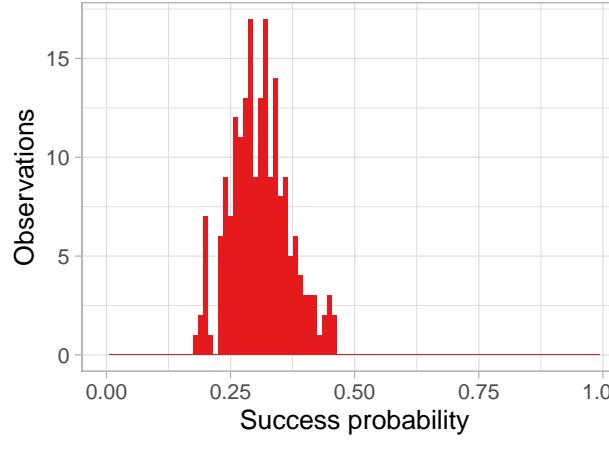
ONLY SNVs (min 150 – max 50000)



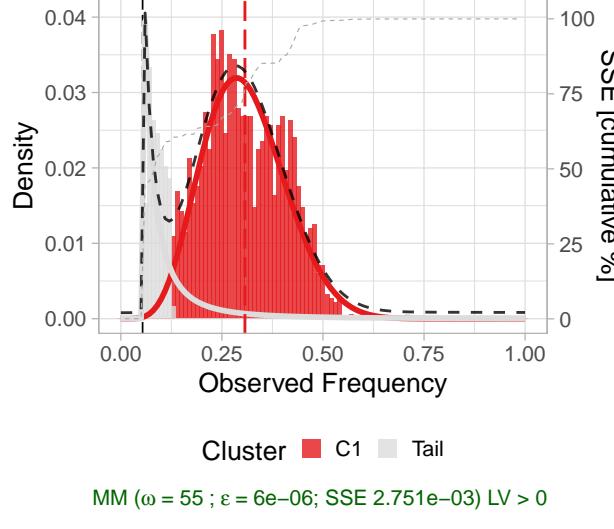
Karyotype: 1:1
N = 254; Tail 24.83%, C1 75.17%



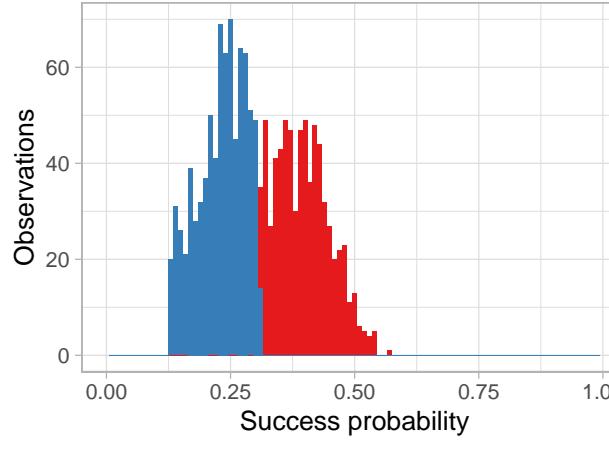
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



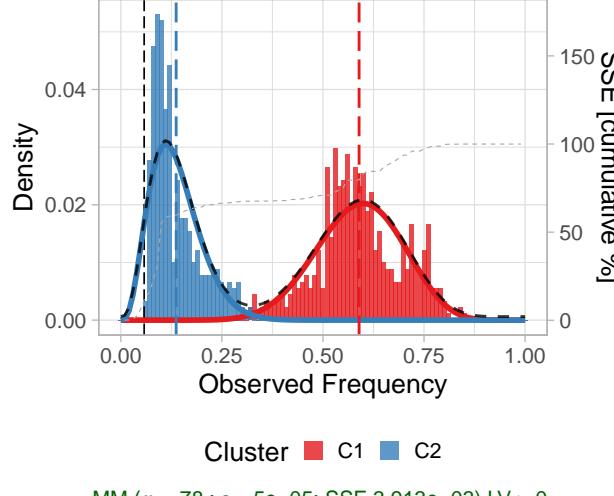
Karyotype: 2:1
N = 1827; Tail 18.63%, C1 81.37%



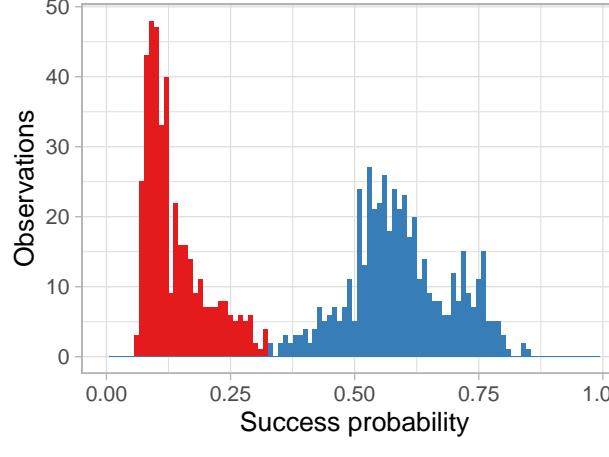
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



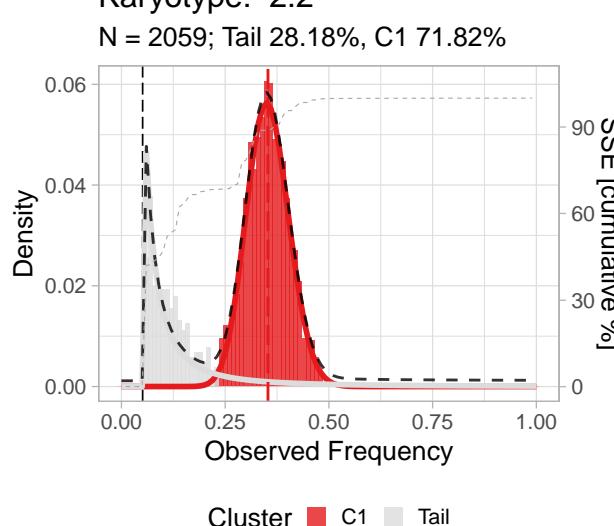
Karyotype: 2:0
N = 905; Tail 0%, C2 44.84%, C1 55.16%



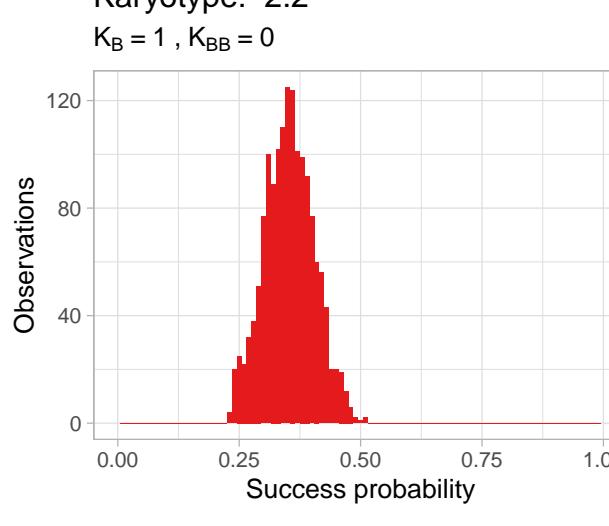
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 2059; Tail 28.18%, C1 71.82%

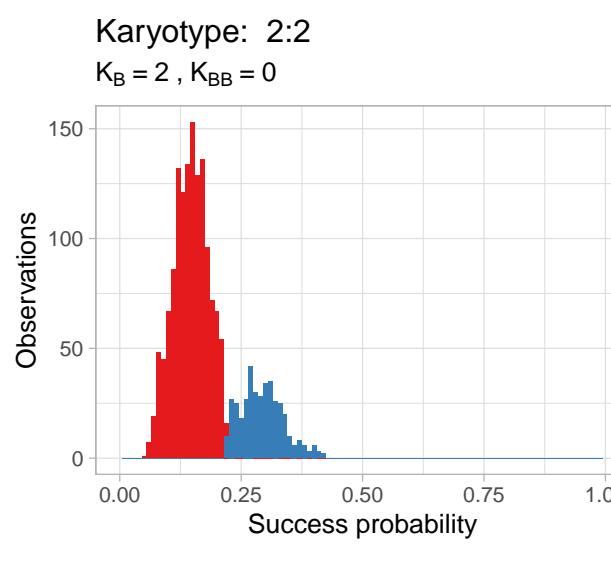
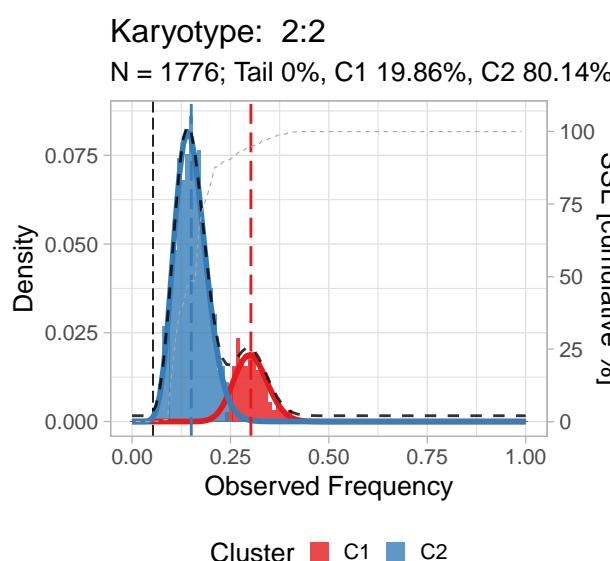
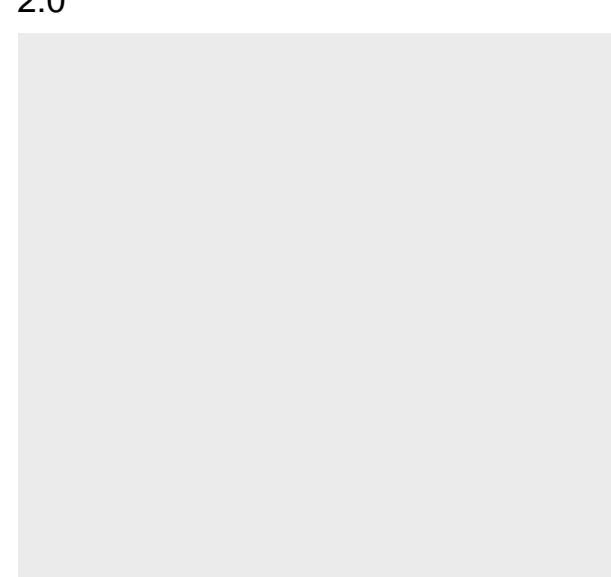
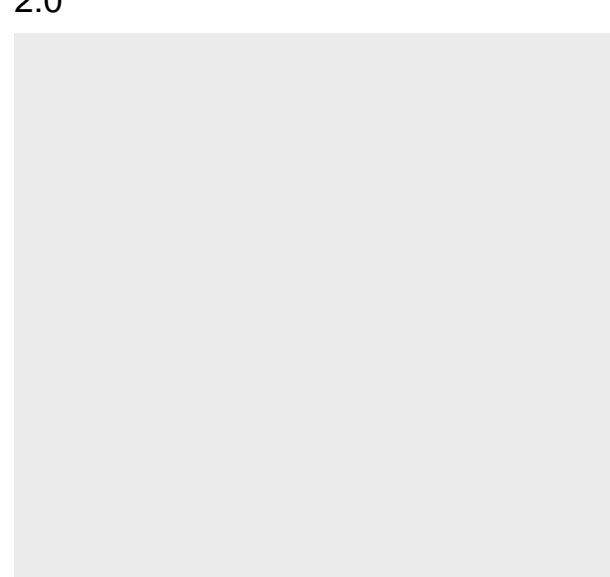
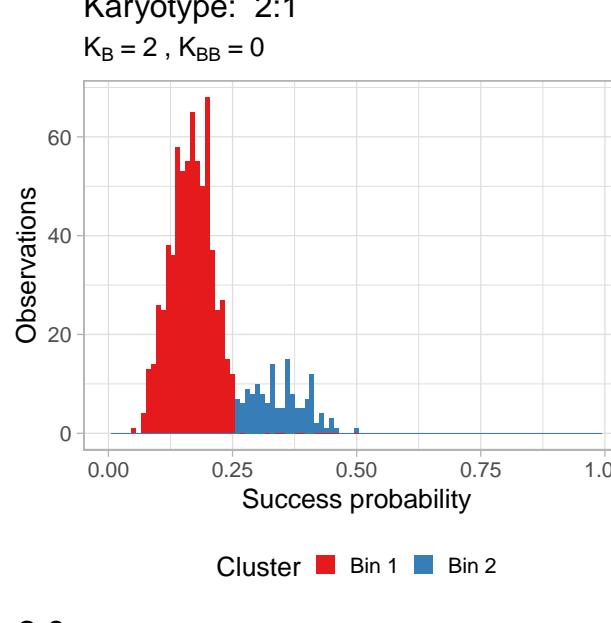
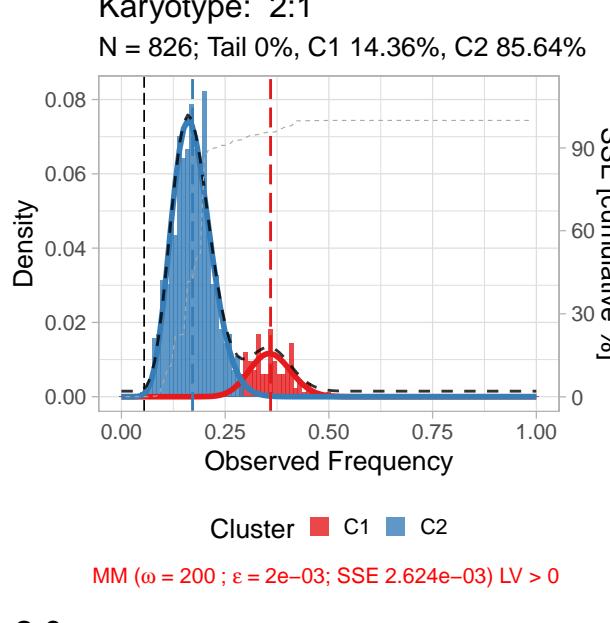
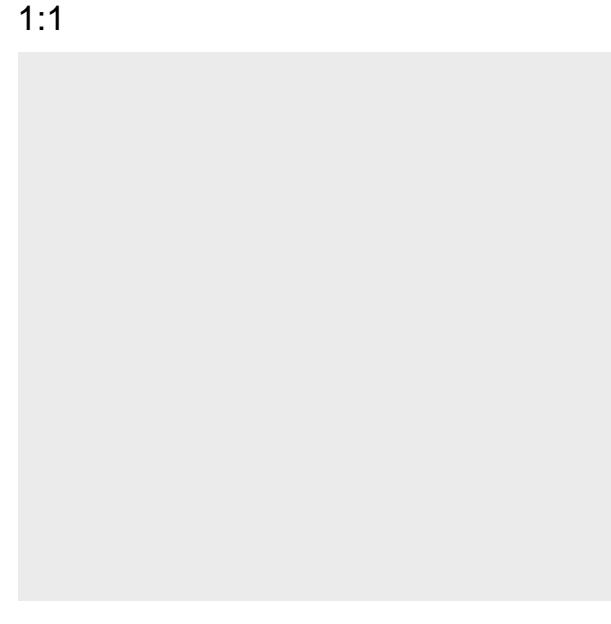
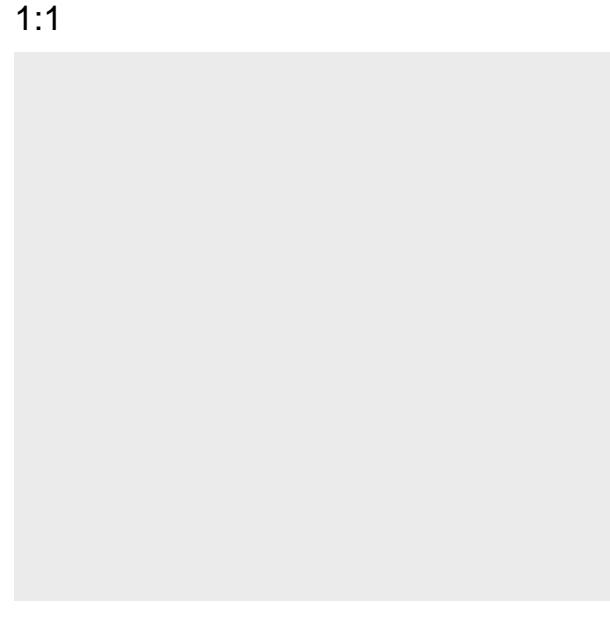
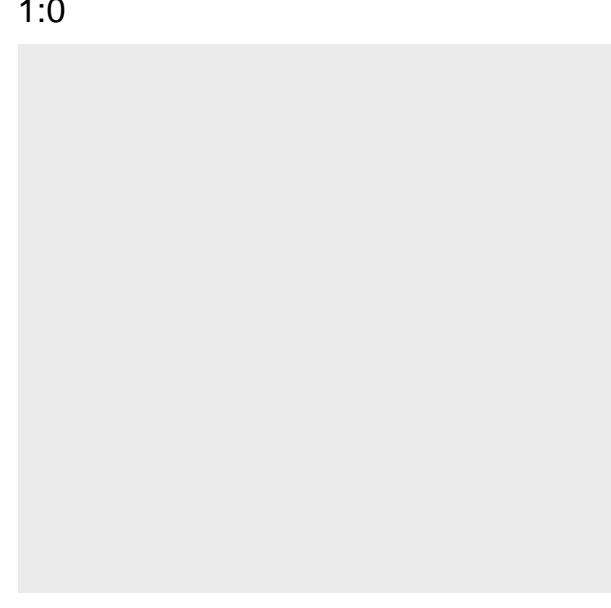
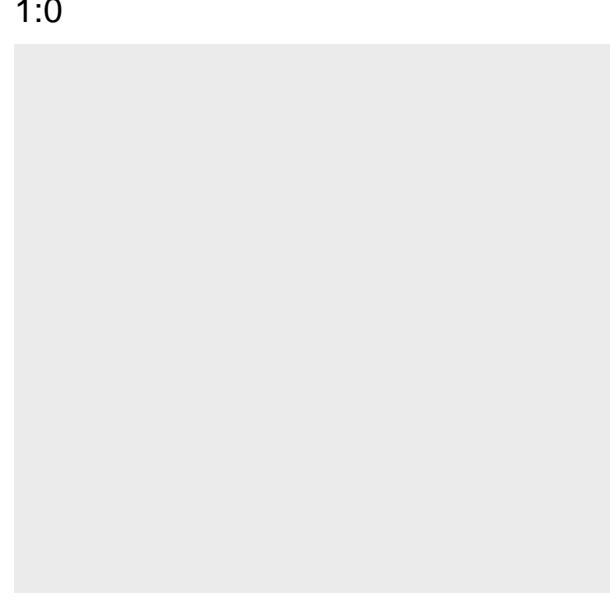


Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$



161128_HMFregDRUP_FR12244402_FR13271997_DRUP01010001

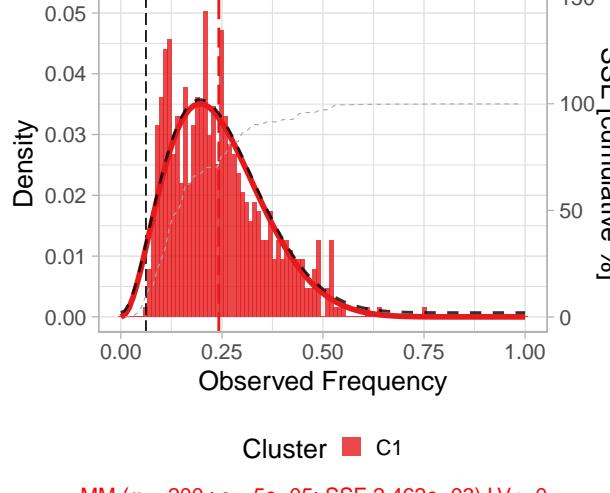
ONLY SNVs (min 150 – max 50000)



161128_HMFregDRUP_FR13271970_FR12254136_DRUP01010006

ONLY SNVs (min 150 – max 50000)

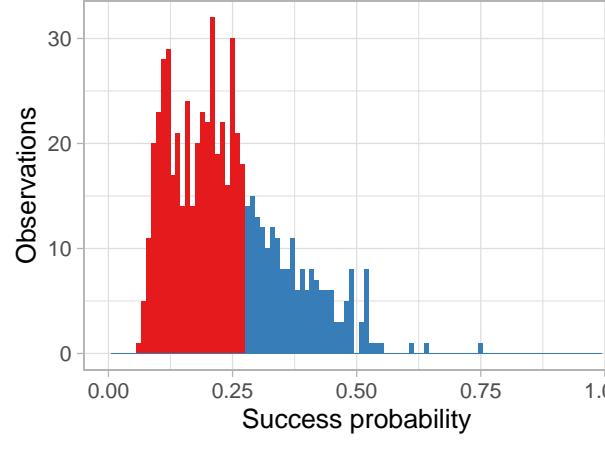
Karyotype: 1:0
N = 636; Tail 0%, C1 100%



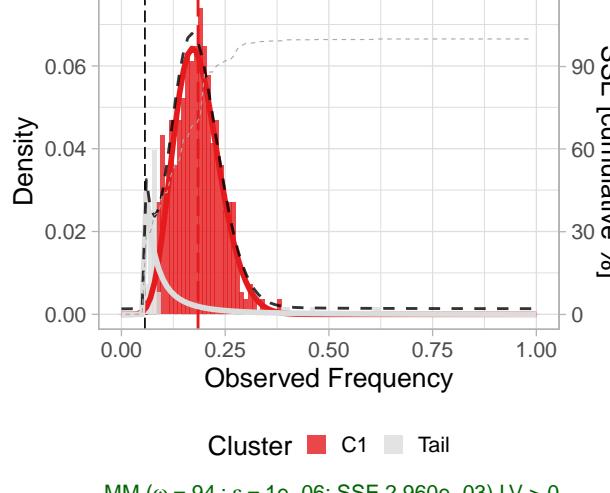
MM ($\omega = 200$; $\epsilon = 5e-05$; SSE 2.462e-03) LV > 0

Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



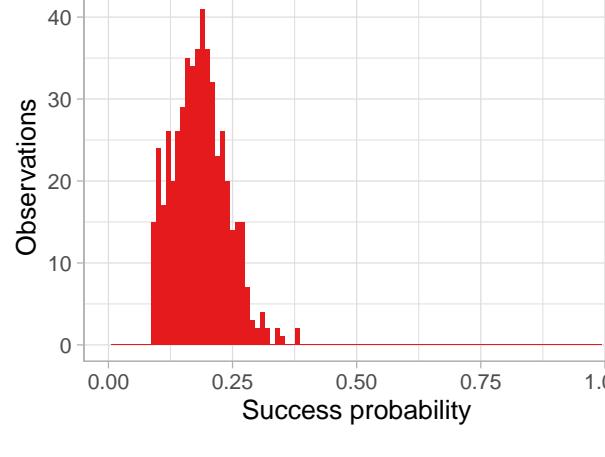
Karyotype: 1:1
N = 555; Tail 13.26%, C1 86.74%



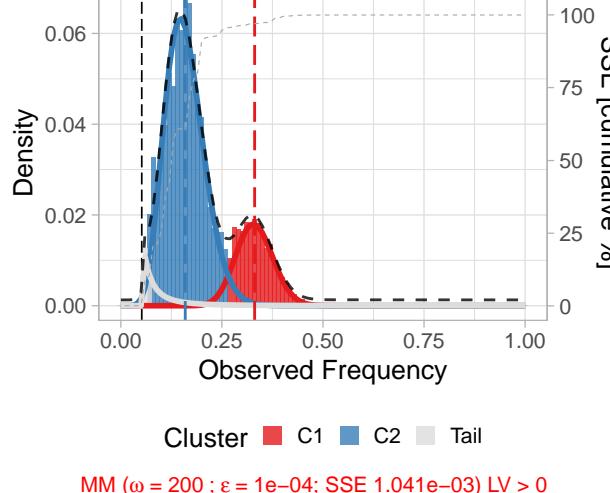
MM ($\omega = 94$; $\epsilon = 1e-06$; SSE 2.960e-03) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



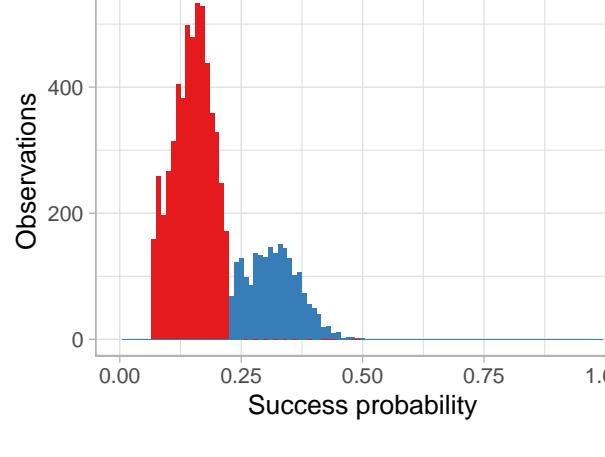
Karyotype: 2:1
N = 7910; Tail 4.68%, C1 20.52%, C2 74.81%



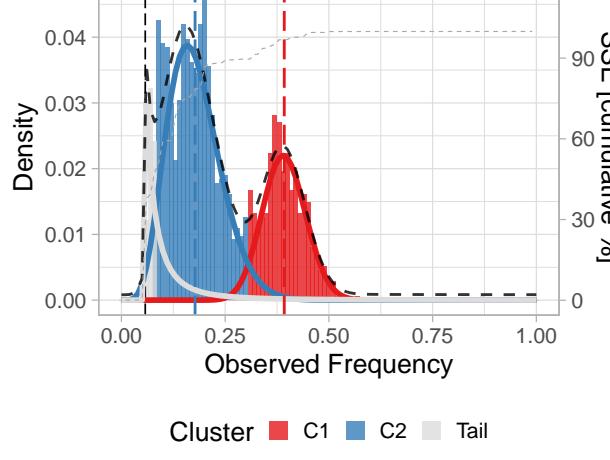
MM ($\omega = 200$; $\epsilon = 1e-04$; SSE 1.041e-03) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



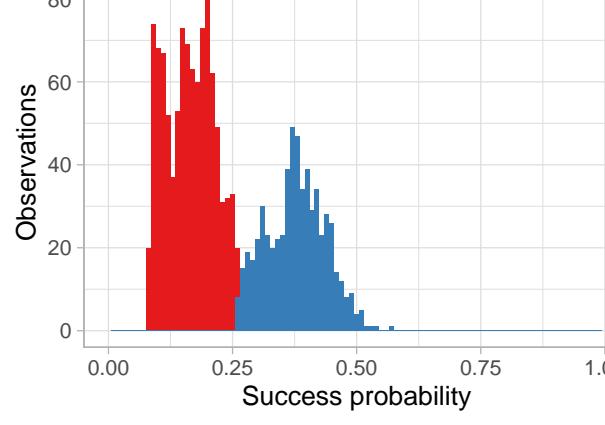
Karyotype: 2:0
N = 1741; Tail 11.25%, C1 28.55%, C2 60.2%



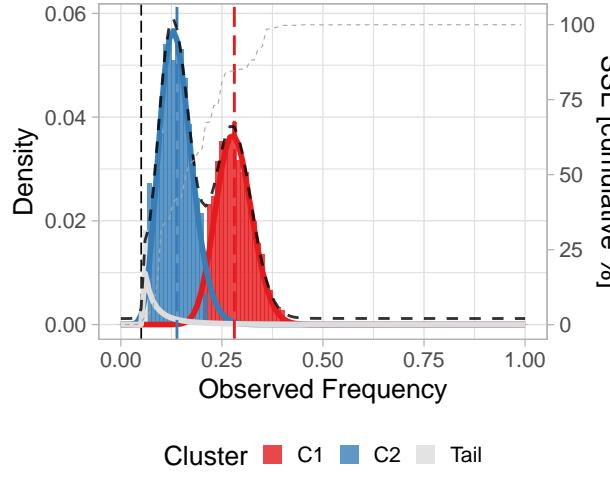
MM ($\omega = 123$; $\epsilon = 2e-06$; SSE 2.785e-03) LV > 0

Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



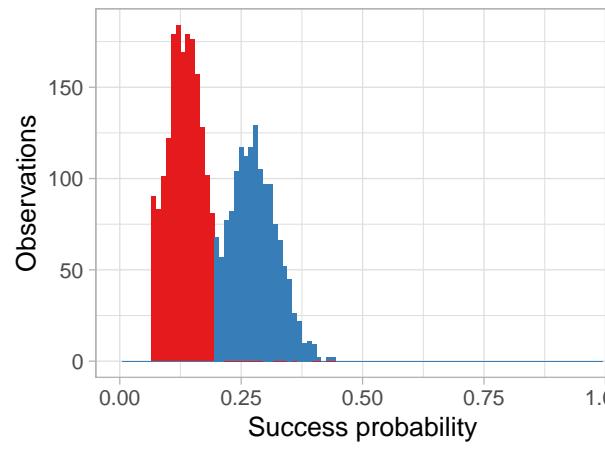
Karyotype: 2:2
N = 3308; Tail 4.55%, C1 40.27%, C2 55.18%



MM ($\omega = 200$; $\epsilon = 3e-03$; SSE 6.727e-04) LV > 0

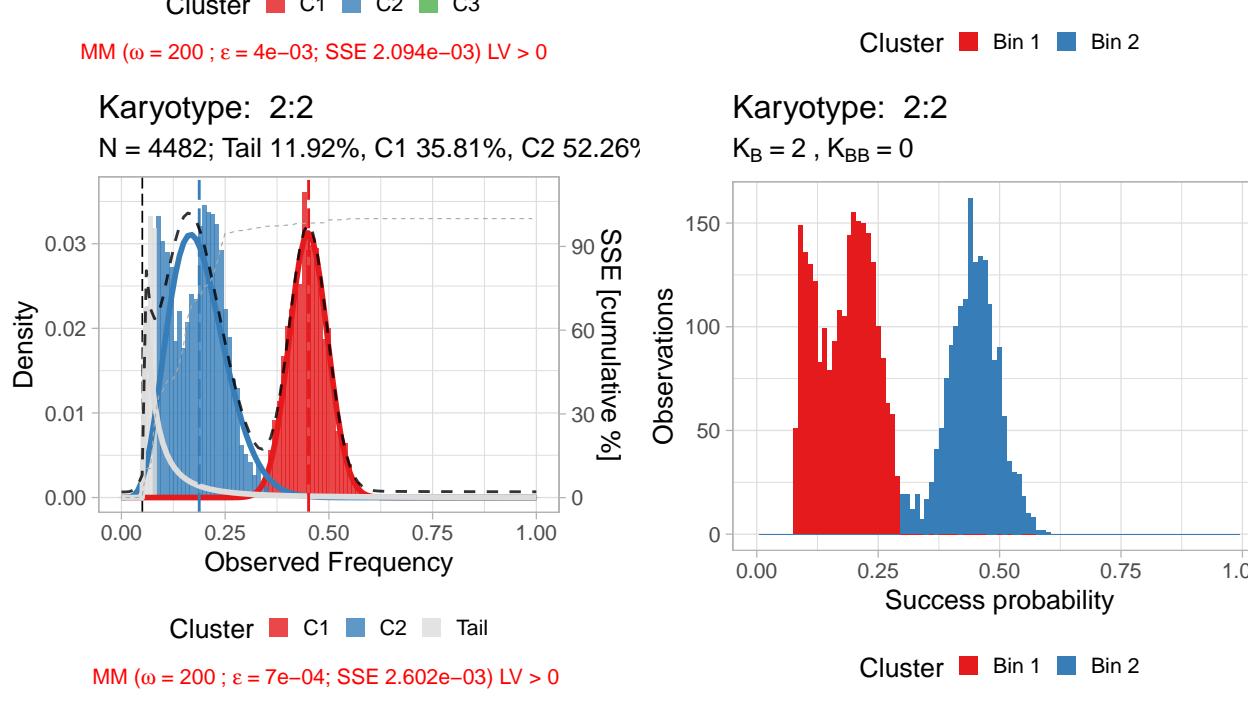
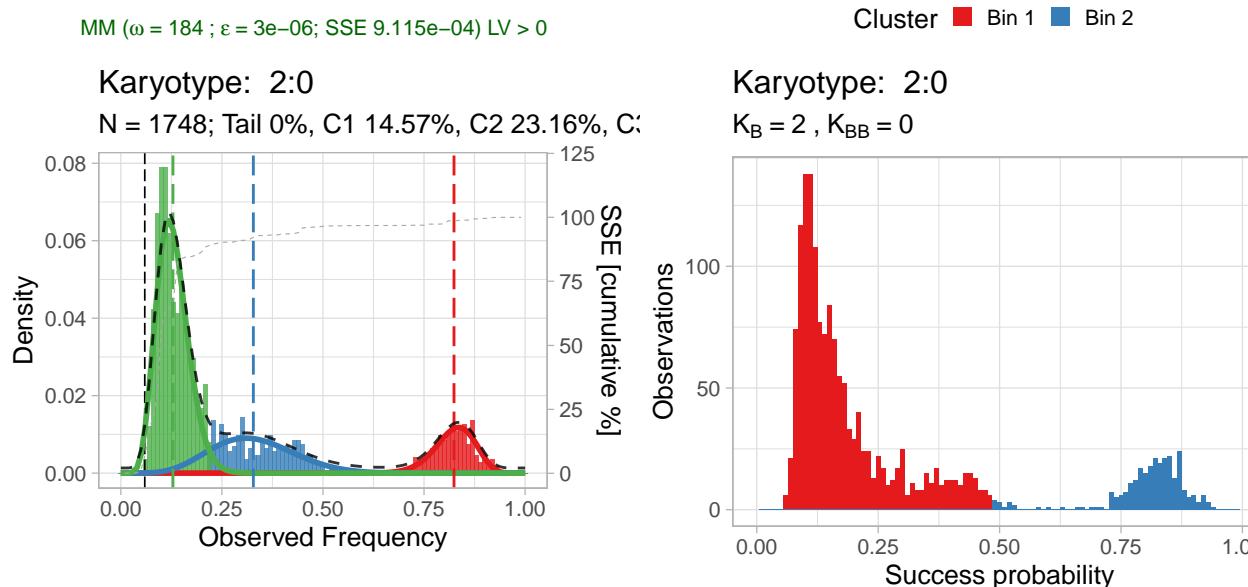
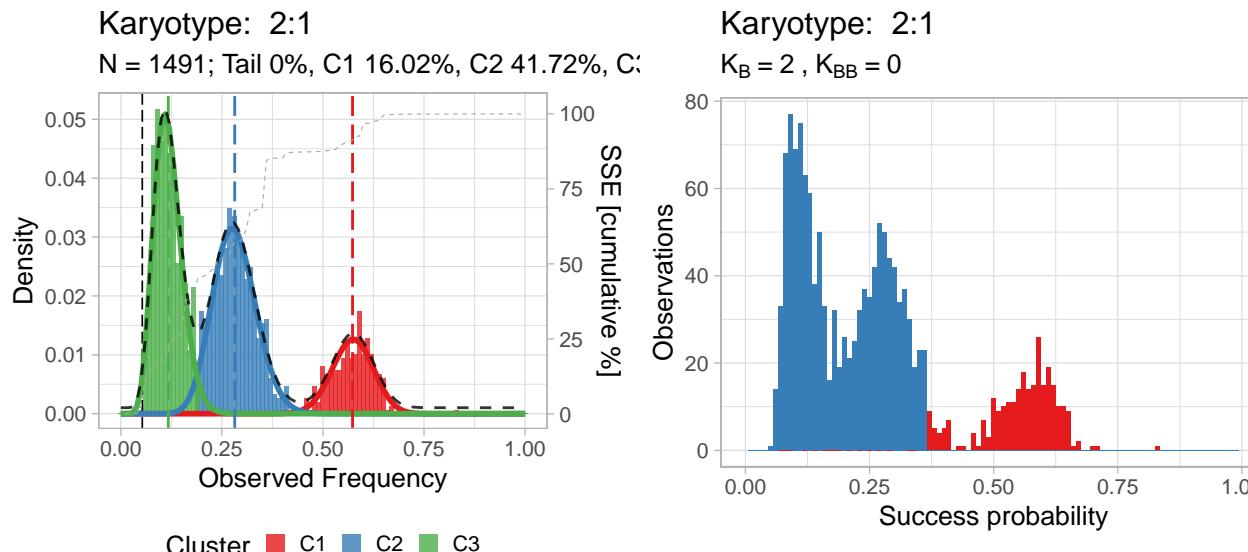
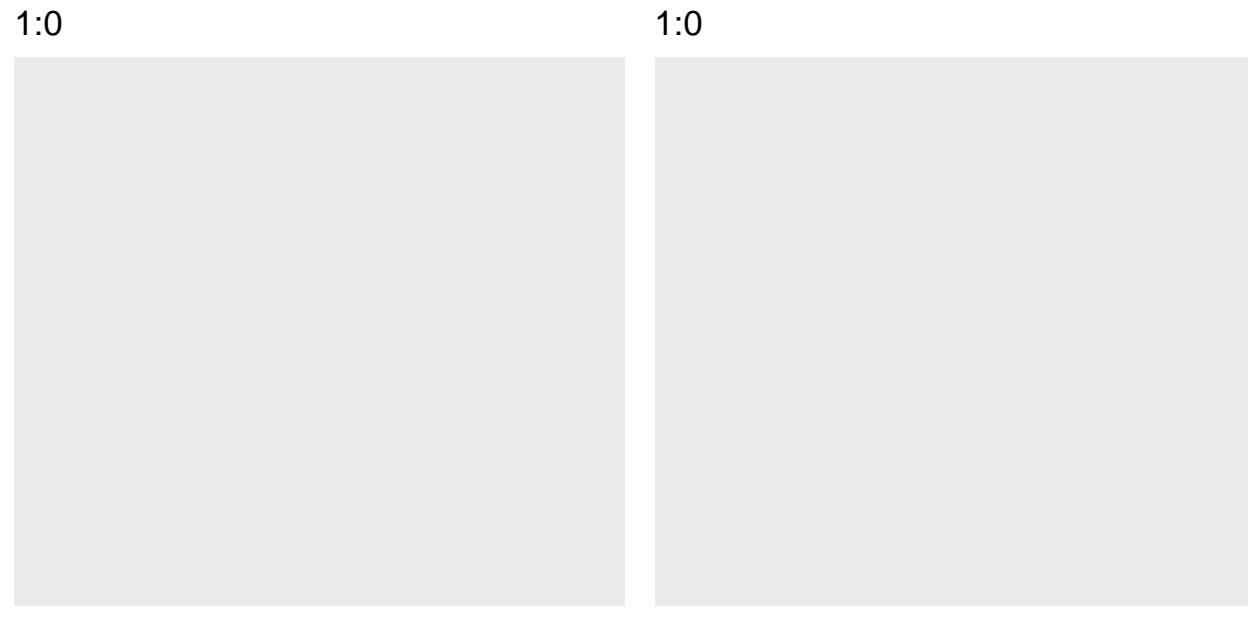
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



161130_HMFregCPCT_FR13271994_FR12244401_CPCT02010424

ONLY SNVs (min 150 – max 50000)

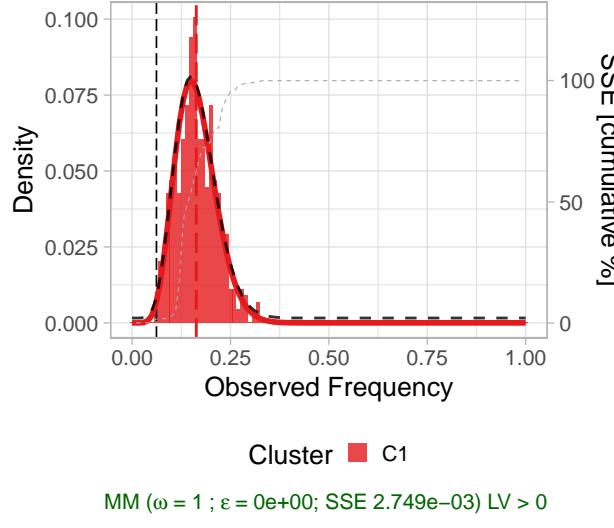


161201_HMFregCPCT_FR12244403_FR12245849_CPCT02020398

ONLY SNVs (min 150 – max 50000)

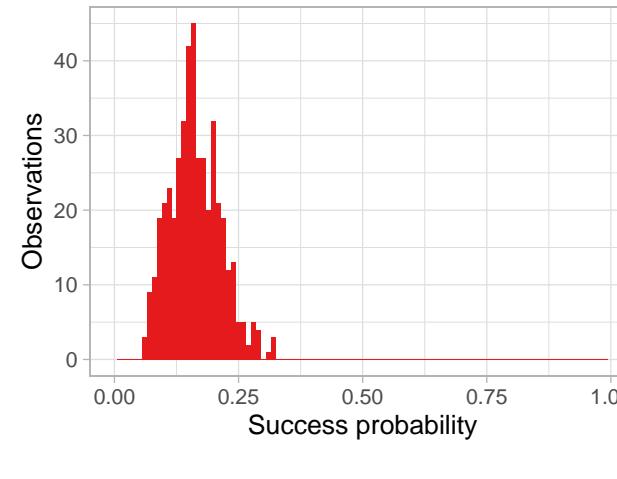
Karyotype: 1:0

N = 447; Tail 0%, C1 100%

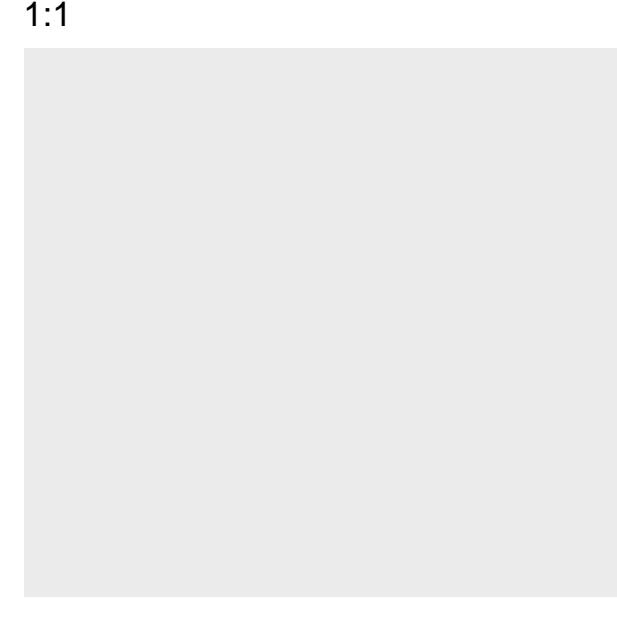


Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$

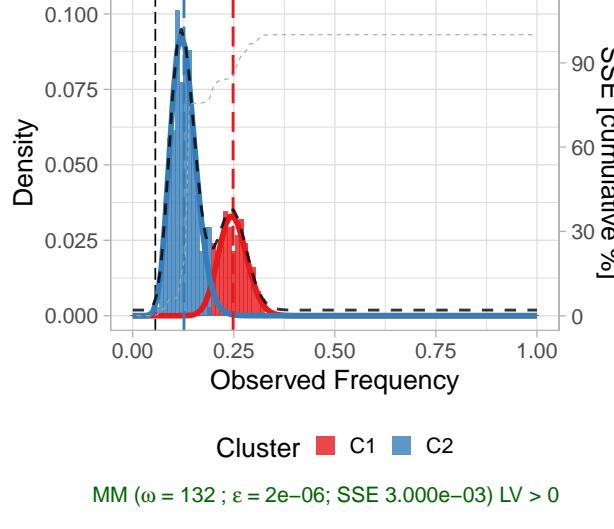


1:1



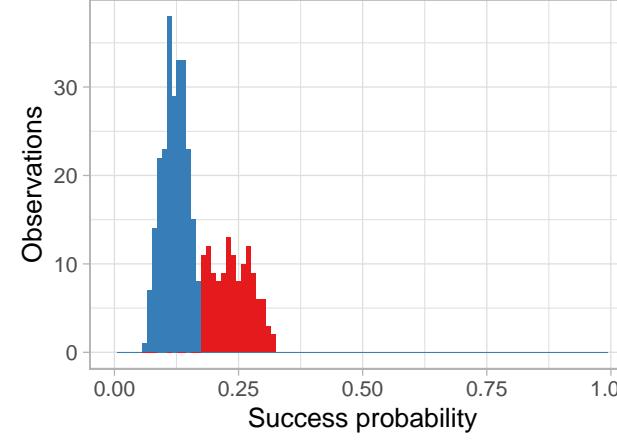
Karyotype: 2:1

N = 375; Tail 0%, C1 28.74%, C2 71.26%



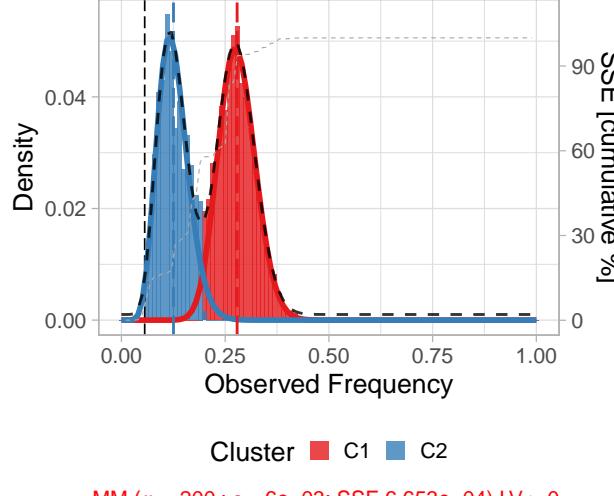
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



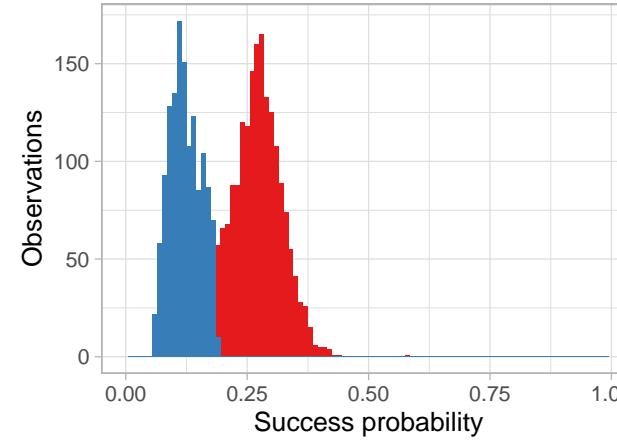
Karyotype: 2:0

N = 3139; Tail 0%, C2 45.79%, C1 54.21%



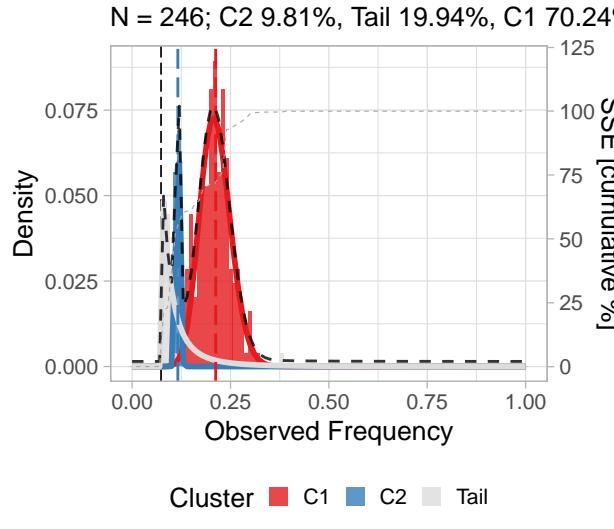
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



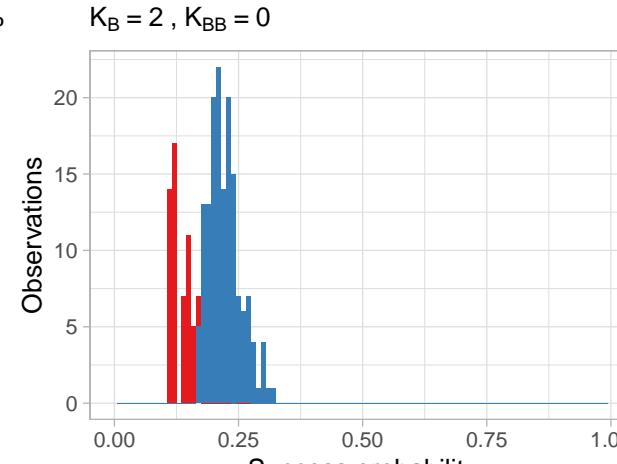
Karyotype: 2:2

N = 246; C2 9.81%, Tail 19.94%, C1 70.24%



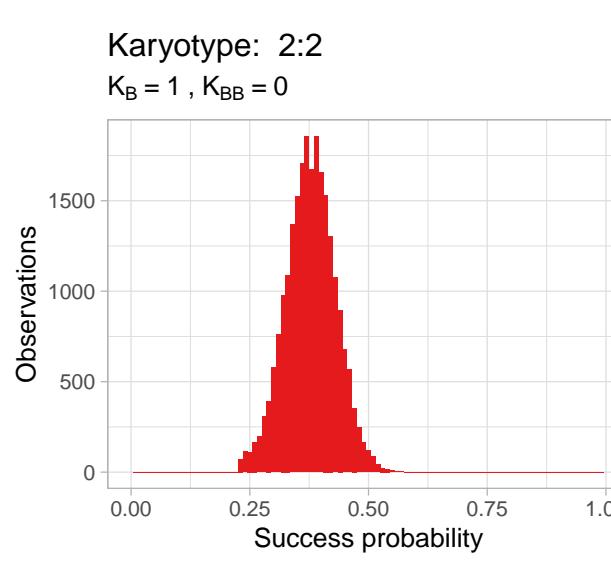
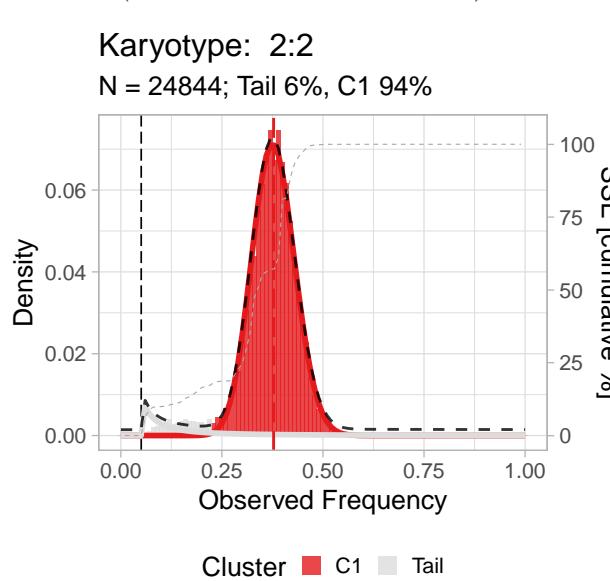
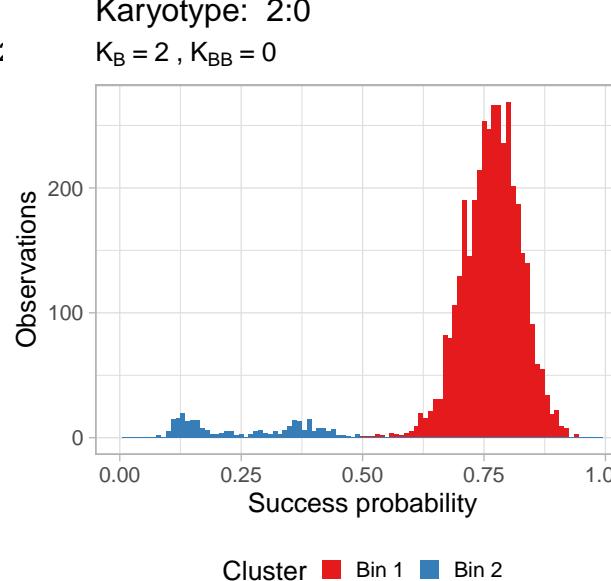
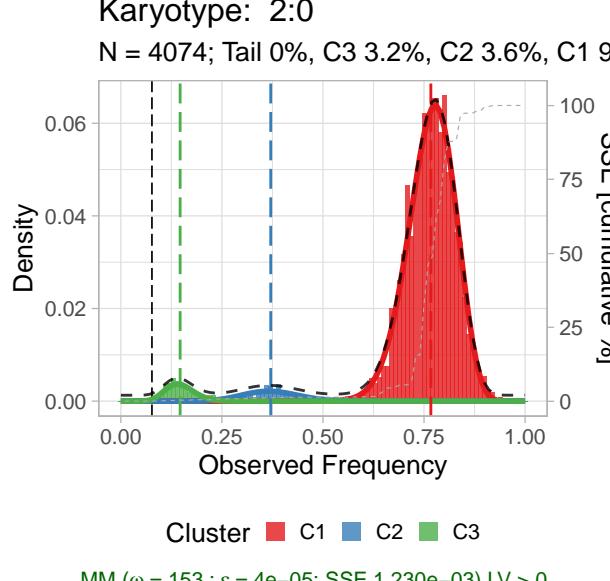
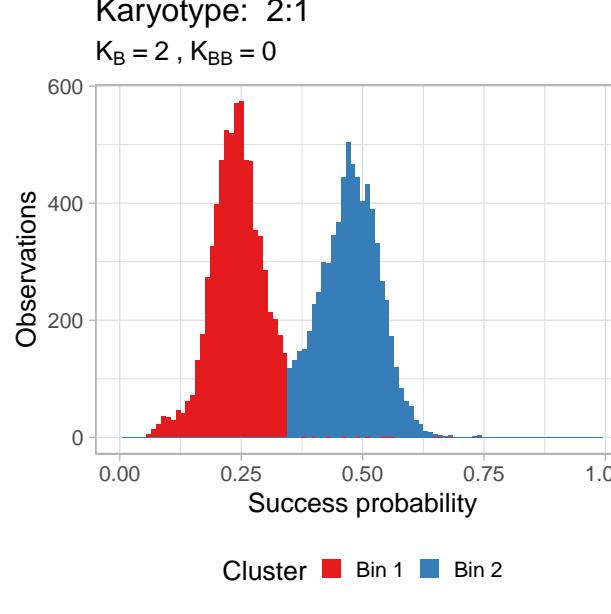
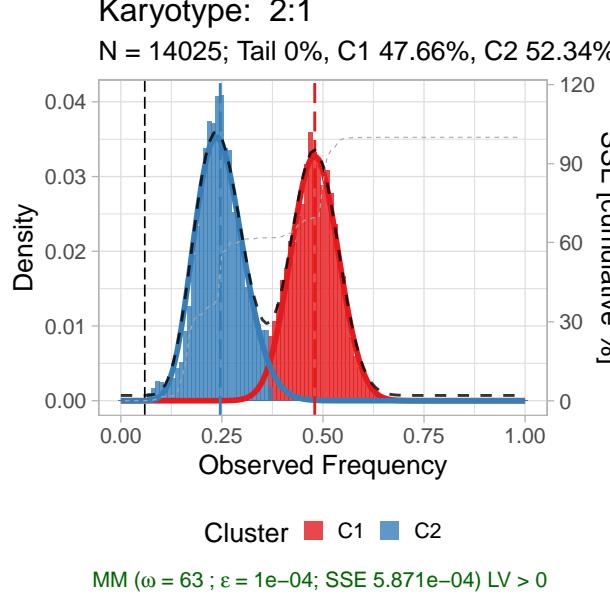
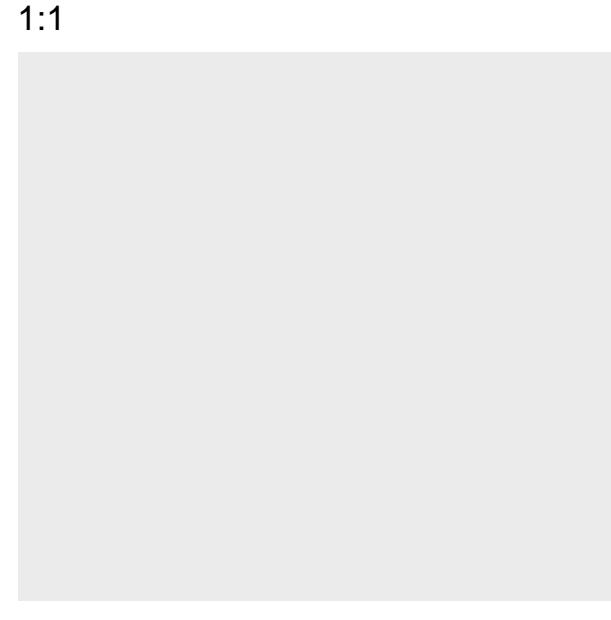
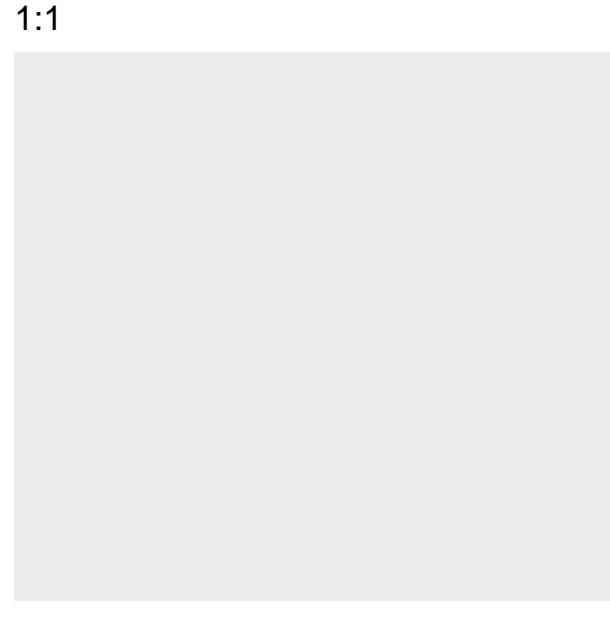
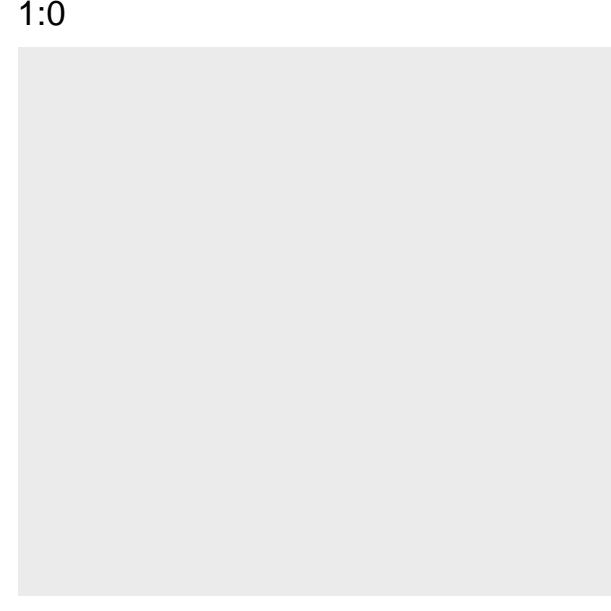
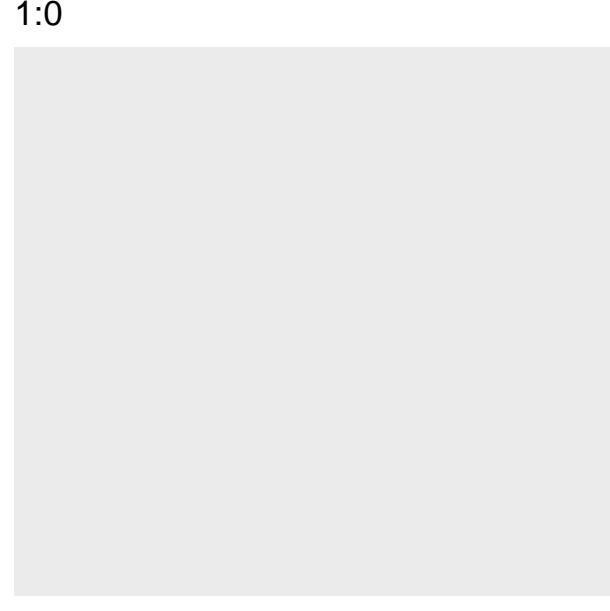
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



161201_HMFregCPCT_FR12251658_FR12244789_CPCT02010436

ONLY SNVs (min 150 – max 50000)

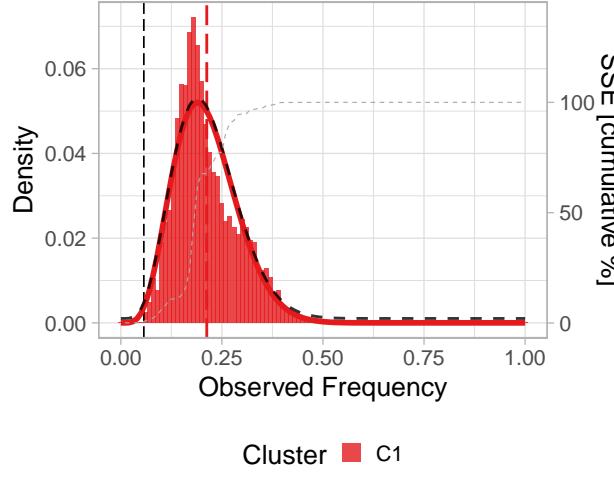


161201_HMFregCPCT_FR12251821_FR12244791_CPCT02010439

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

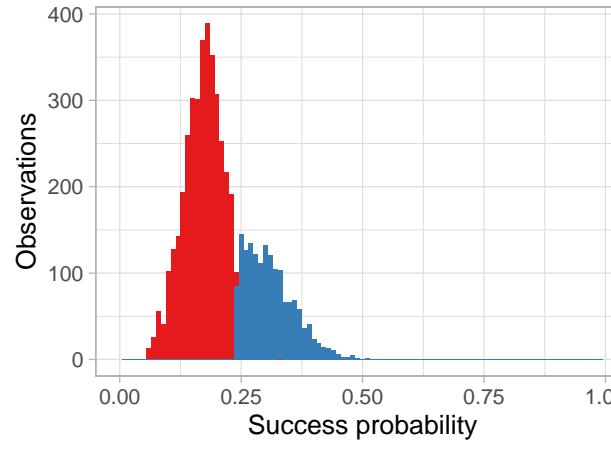
N = 5389; Tail 0%, C1 100%



MM ($\omega = 62$; $\epsilon = 9e-05$; SSE 2.258e-03) LV > 0

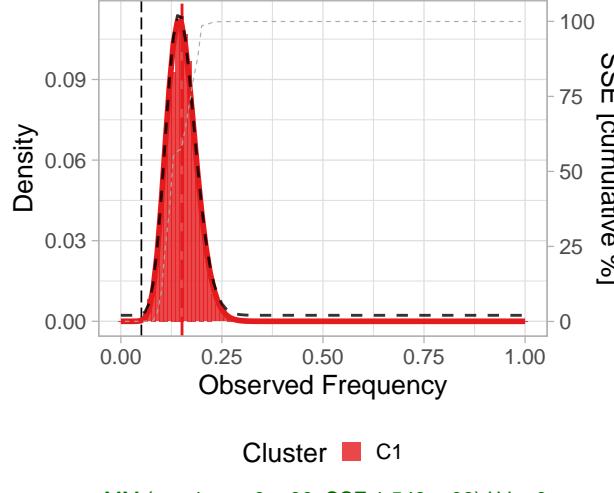
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

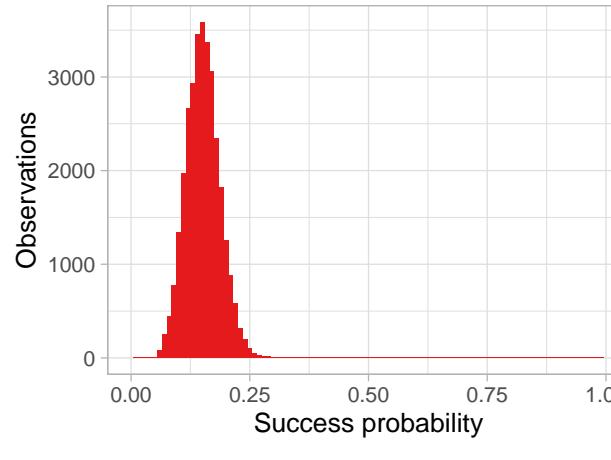
N = 31573; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.549e-03) LV > 0

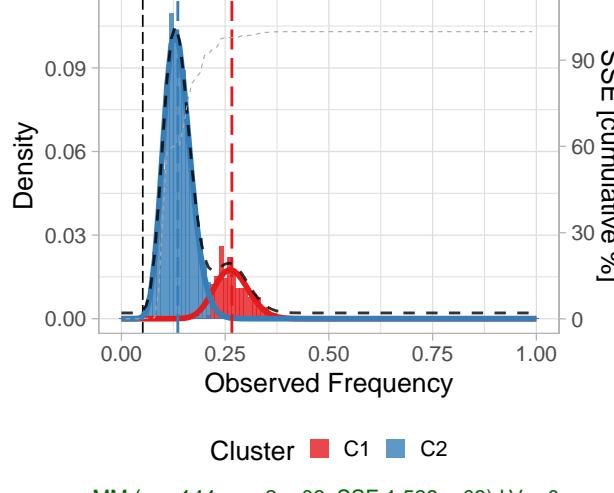
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

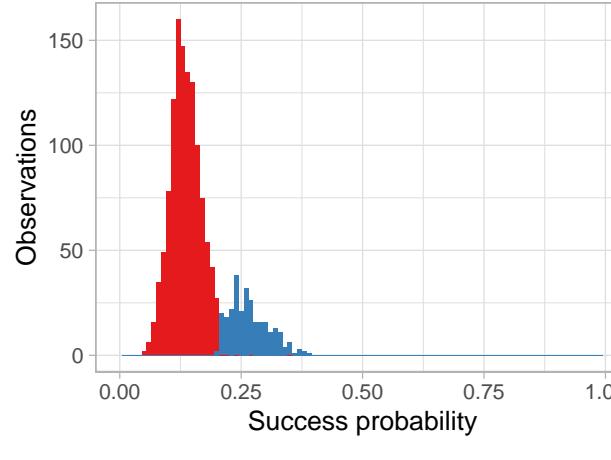
N = 1458; Tail 0%, C1 18.15%, C2 81.85%



MM ($\omega = 144$; $\epsilon = 2e-06$; SSE 1.539e-03) LV > 0

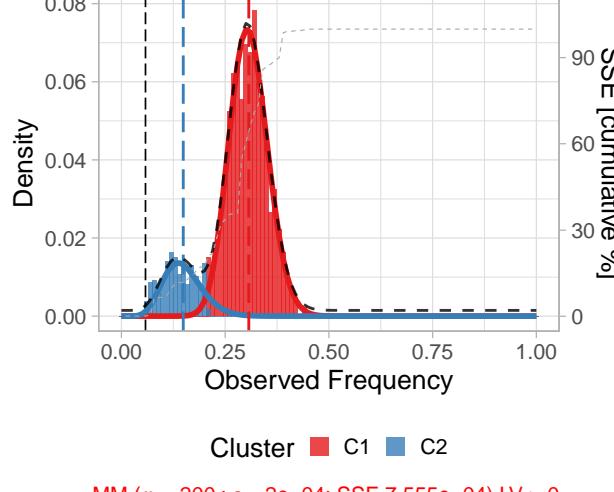
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

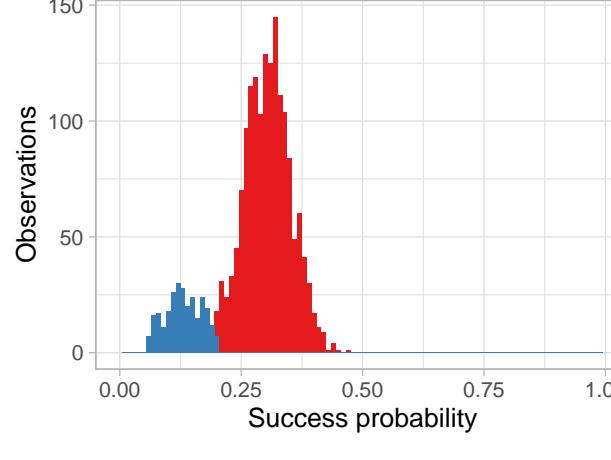
N = 1852; Tail 0%, C2 15.34%, C1 84.66%



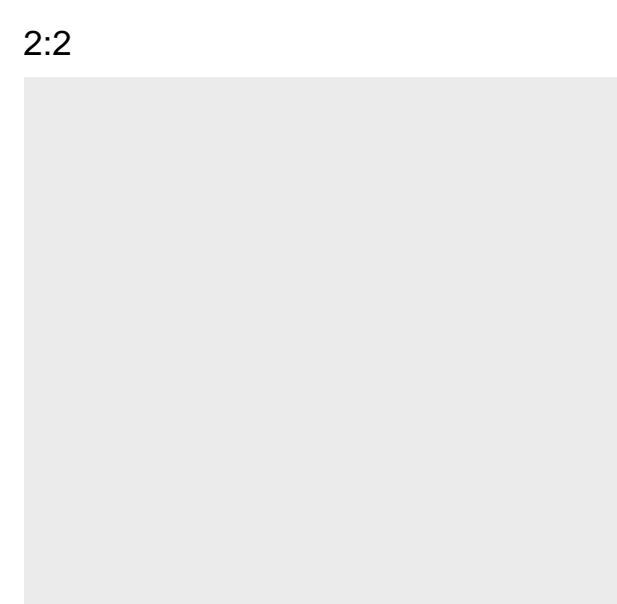
MM ($\omega = 200$; $\epsilon = 2e-04$; SSE 7.555e-04) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

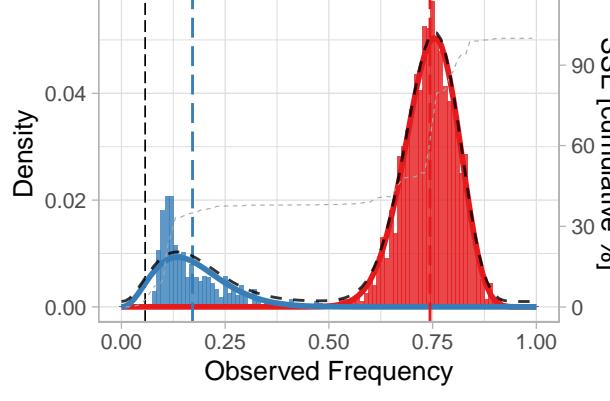


161201_HMFregCPCT_FR13271958_FR13275488_CPCT02060043

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 2759; Tail 0%, C2 18.37%, C1 81.63%



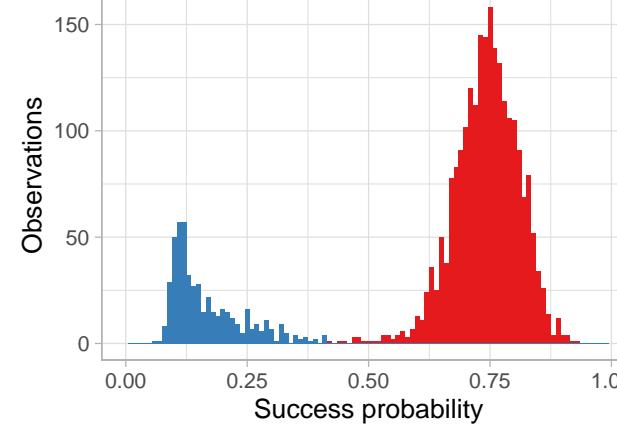
Karyotype: 1:0

N = 2759; Tail 0%, C2 18.37%, C1 81.63%

MM ($\omega = 37$; $\varepsilon = 7e-04$; SSE 1.319e-03) LV > 0

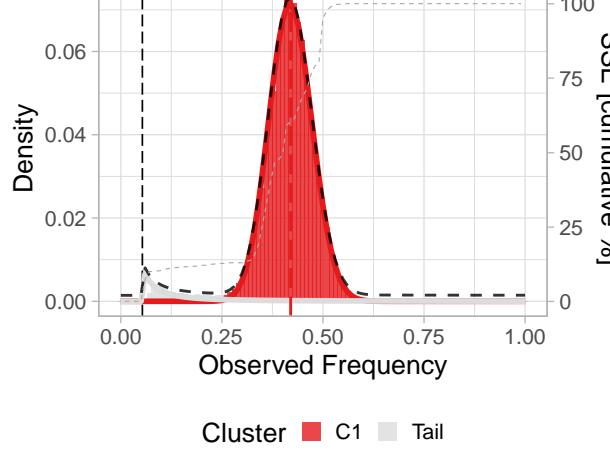
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

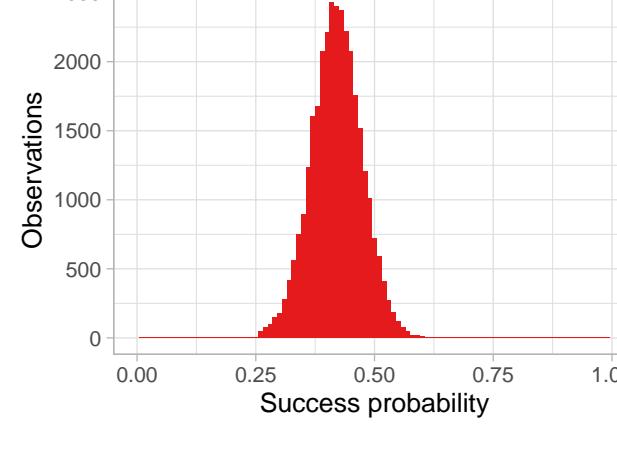
N = 33125; Tail 4.83%, C1 95.17%



MM ($\omega = 14$; $\varepsilon = 3e-05$; SSE 5.601e-04) LV > 0

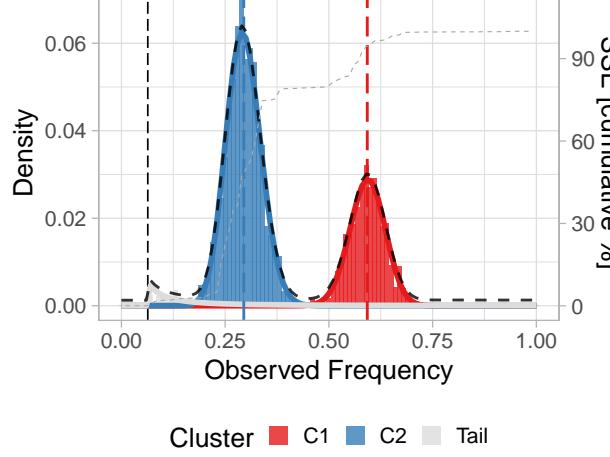
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

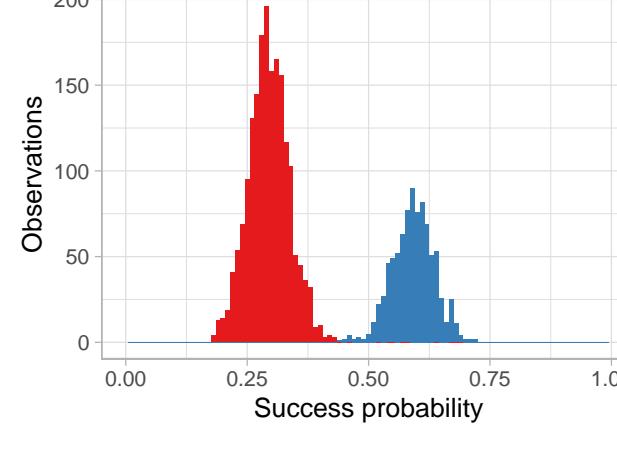
N = 2804; Tail 4.02%, C1 30.72%, C2 65.25%



MM ($\omega = 40$; $\varepsilon = 3e-06$; SSE 7.025e-04) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:2

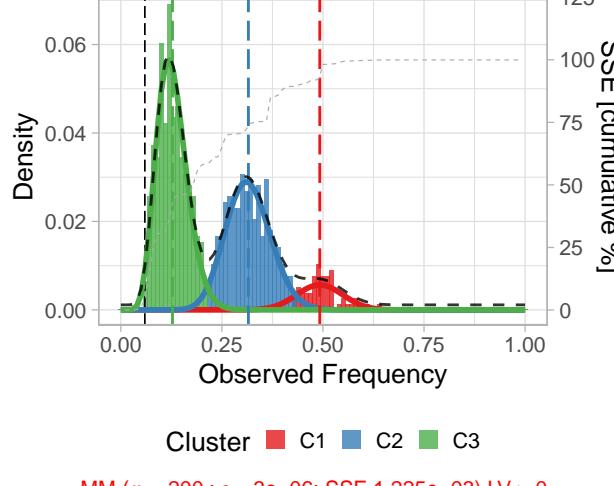
2:2

161201_HMFregCPCT_FR13271961_FR13275490_CPCT02060039

ONLY SNVs (min 150 – max 50000)

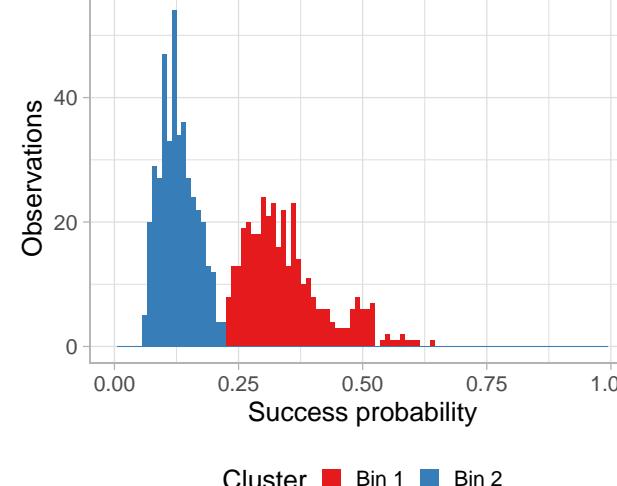
Karyotype: 1:0

N = 781; Tail 0%, C1 7.99%, C2 39.99%, C3 5



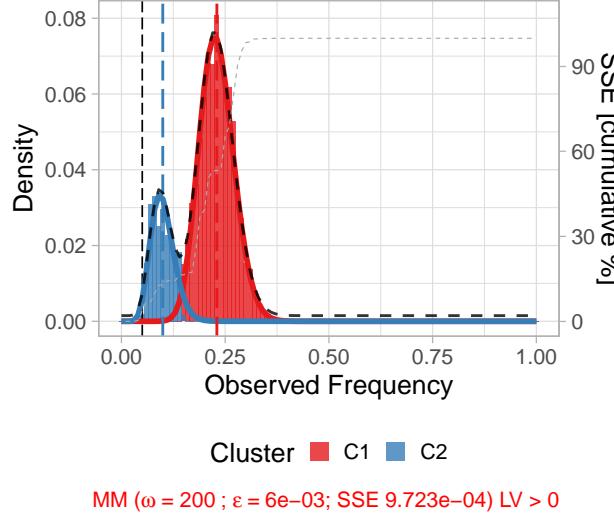
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



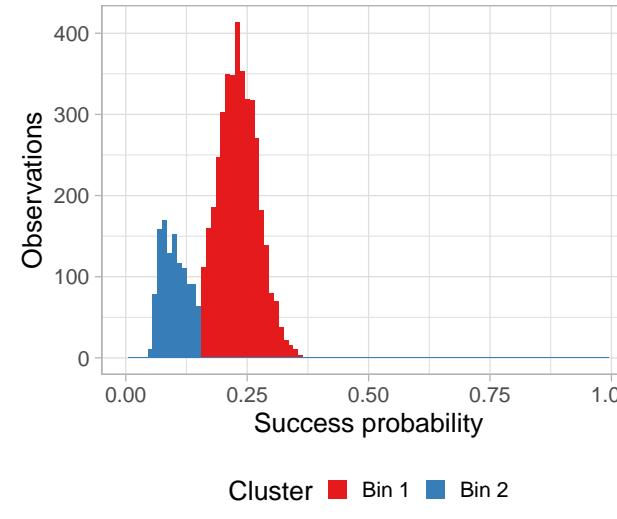
Karyotype: 1:1

N = 5129; Tail 0%, C2 22.69%, C1 77.31%



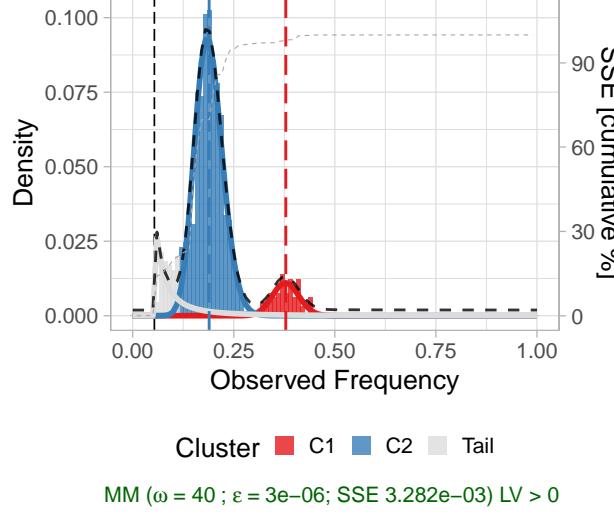
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



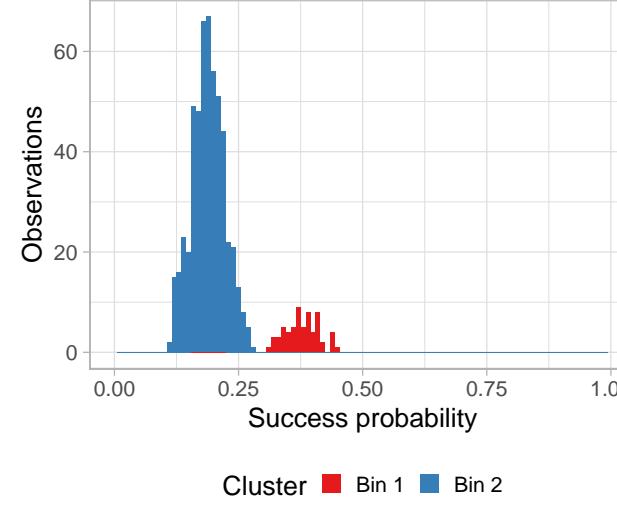
Karyotype: 2:1

N = 653; C1 9%, Tail 12.17%, C2 78.83%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

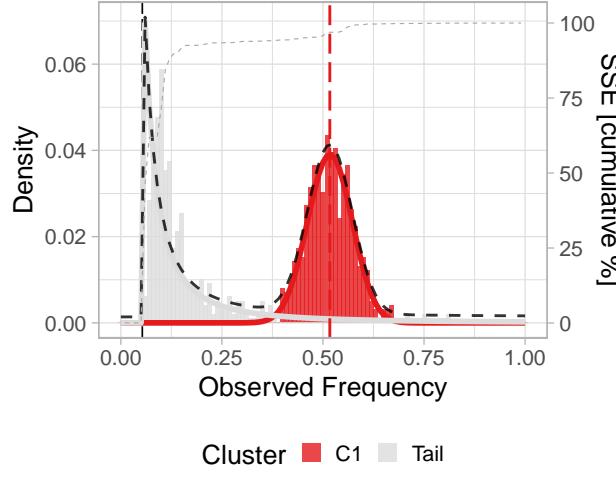
2:2

161201_HMFregCPCT_FR13271976_FR12245848_CPCT02020394

ONLY SNVs (min 150 – max 50000)

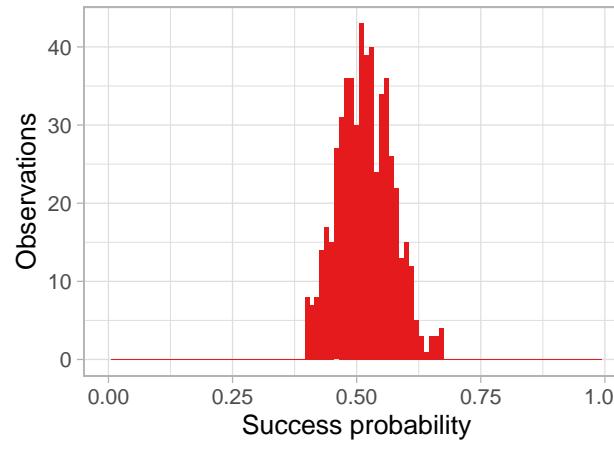
Karyotype: 1:0

N = 988; Tail 46.36%, C1 53.64%



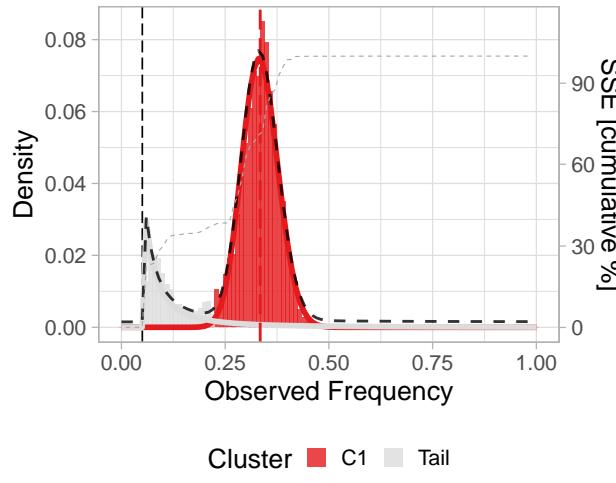
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



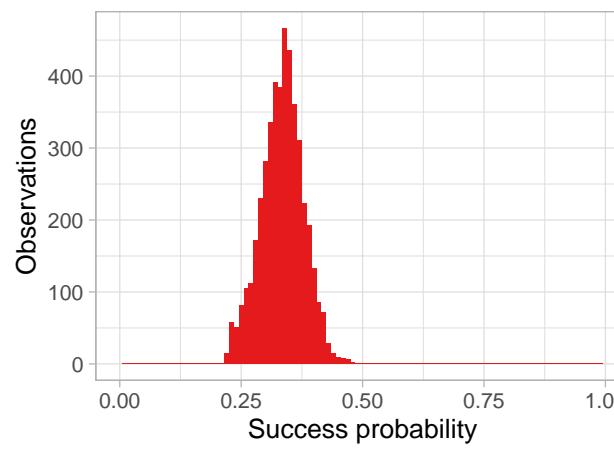
Karyotype: 1:1

N = 5491; Tail 18.6%, C1 81.4%



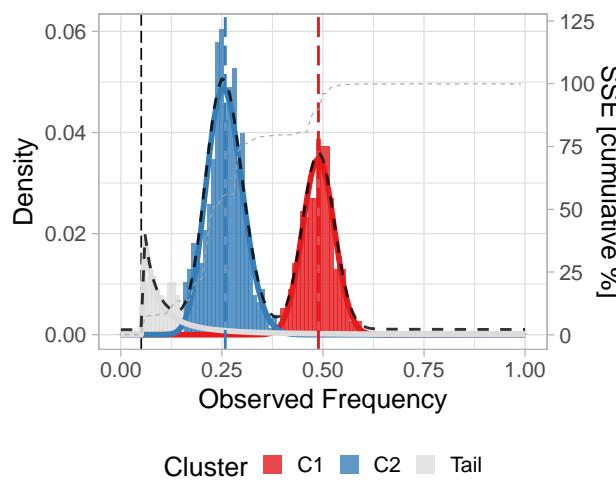
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



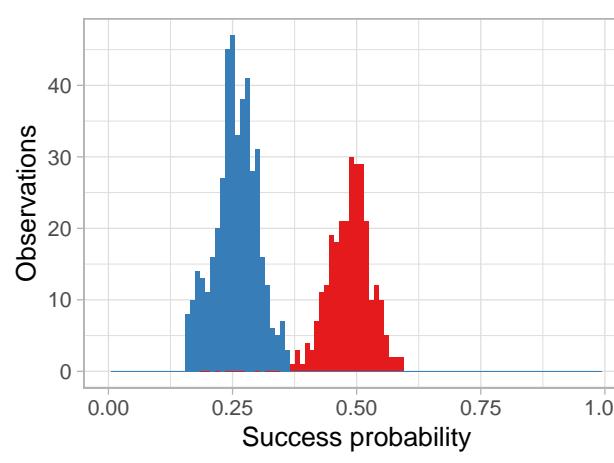
Karyotype: 2:1

N = 777; Tail 11.74%, C1 34.13%, C2 54.12%



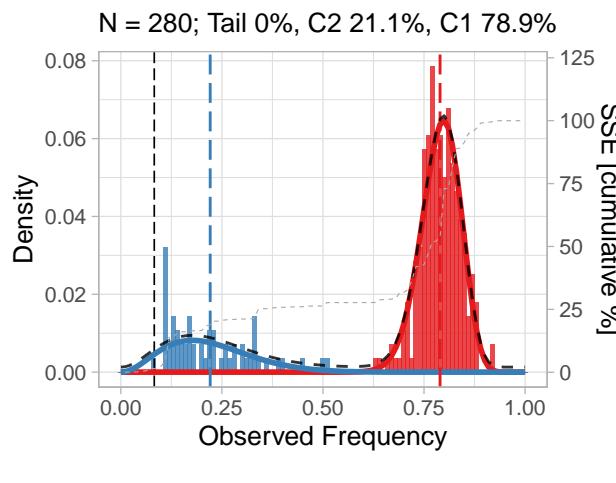
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



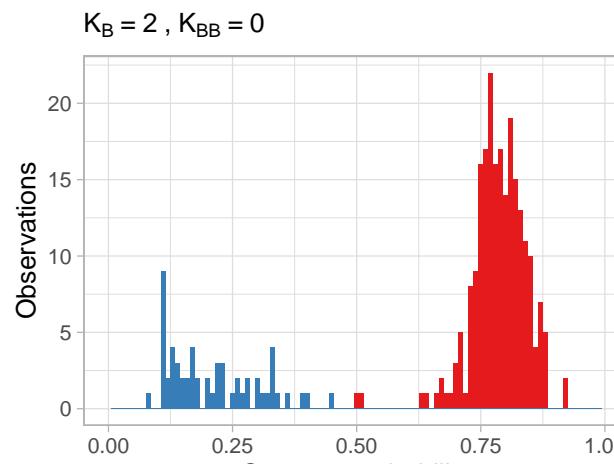
Karyotype: 2:0

N = 280; Tail 0%, C2 21.1%, C1 78.9%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

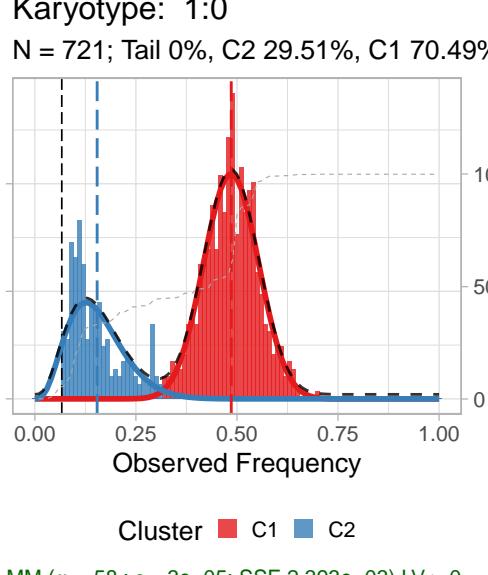


2:2

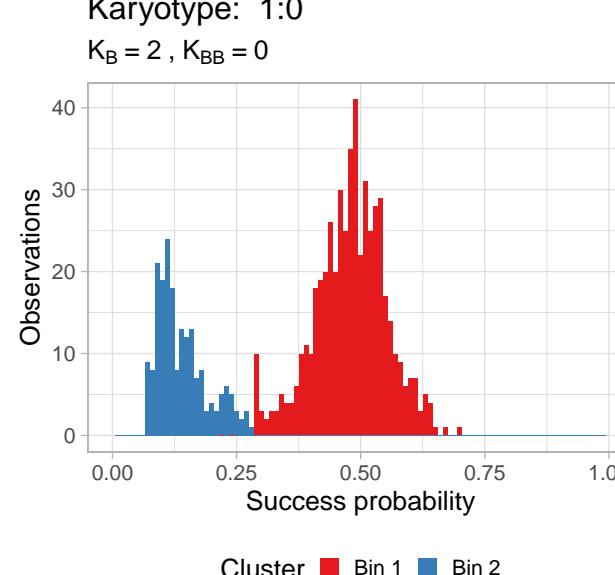
2:2

161201_HMFregCPCT_FR13271996_FR12245851_CPCT02020399

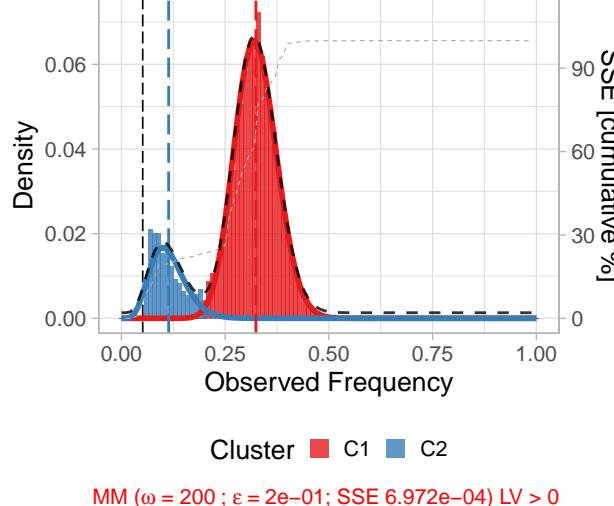
ONLY SNVs (min 150 – max 50000)



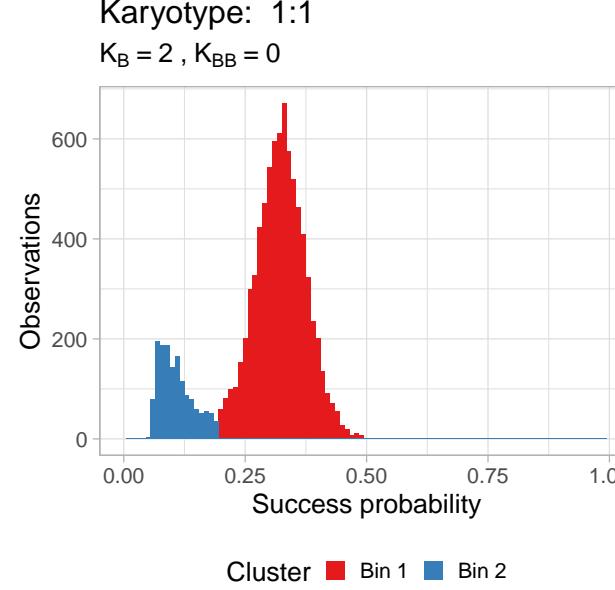
MM ($\omega = 58$; $\epsilon = 3e-05$; SSE 2.393e-03) LV > 0



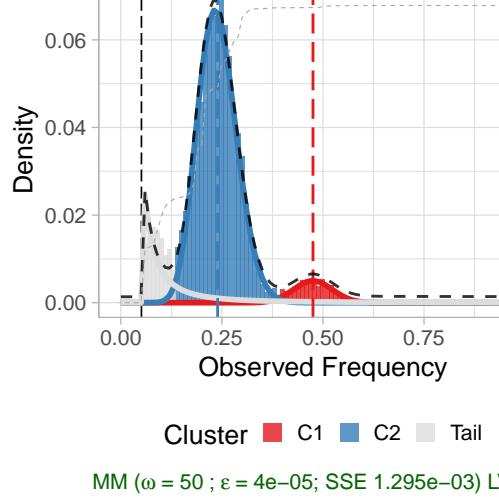
Karyotype: 1:1
N = 9303; Tail 0%, C2 16.9%, C1 83.1%



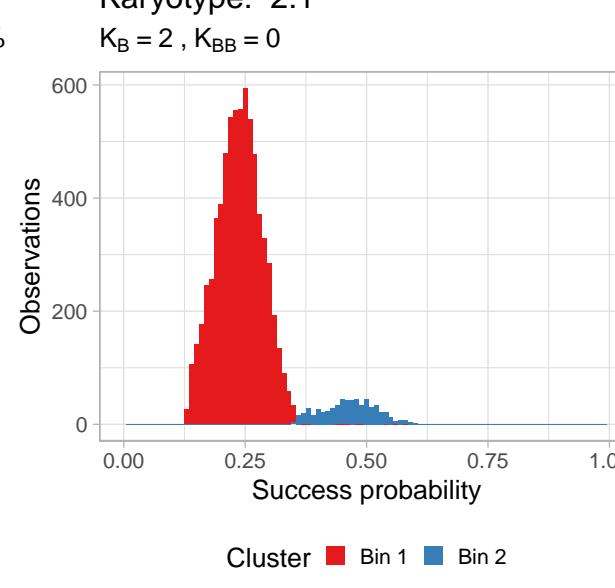
MM ($\omega = 200$; $\epsilon = 2e-01$; SSE 6.972e-04) LV > 0



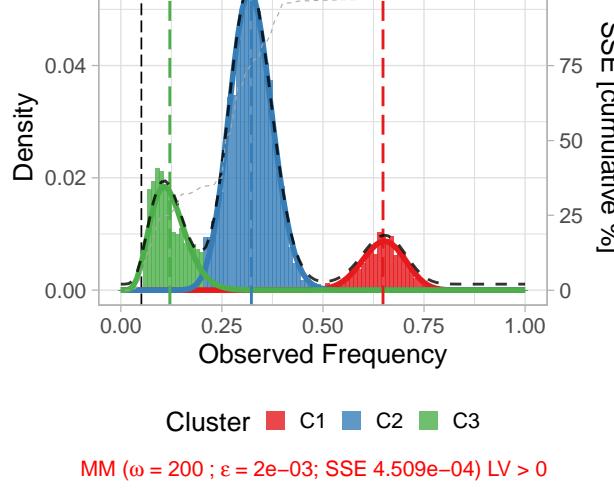
Karyotype: 2:1
N = 8510; C1 5.94%, Tail 13.93%, C2 80.13%



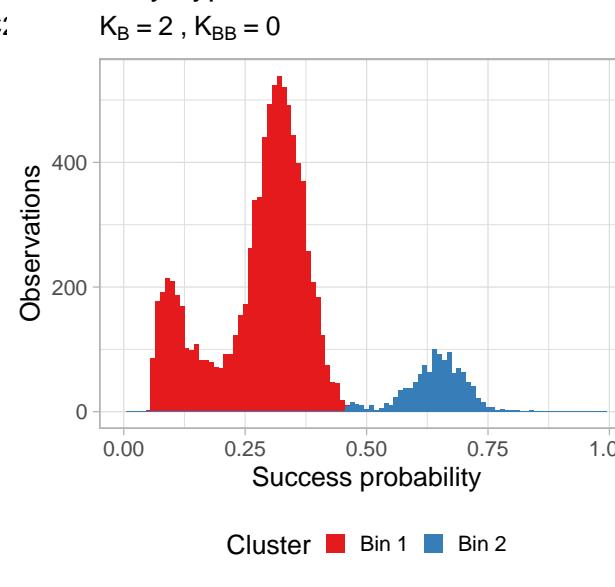
MM ($\omega = 50$; $\epsilon = 4e-05$; SSE 1.295e-03) LV > 0



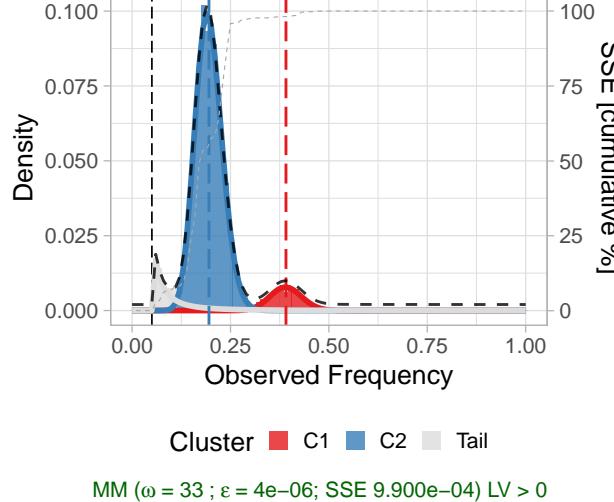
Karyotype: 2:0
N = 9897; Tail 0%, C1 11.62%, C3 19.44%, C2 78.94%



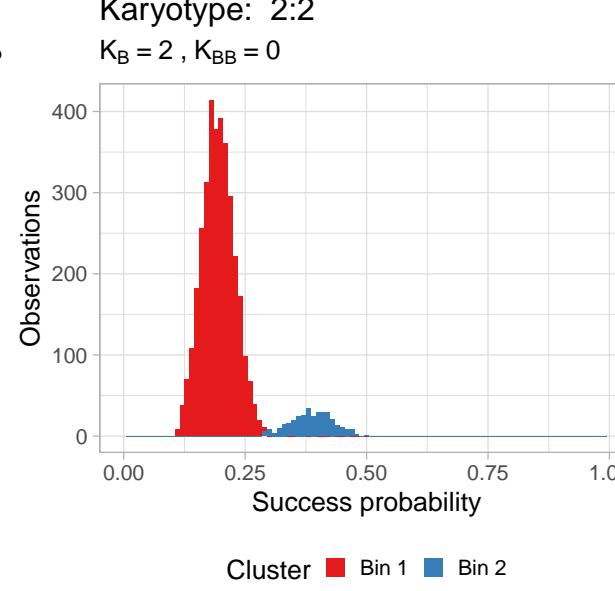
MM ($\omega = 200$; $\epsilon = 2e-03$; SSE 4.509e-04) LV > 0



Karyotype: 2:2
N = 4054; C1 7.79%, Tail 8.27%, C2 83.94%



MM ($\omega = 33$; $\epsilon = 4e-06$; SSE 9.900e-04) LV > 0

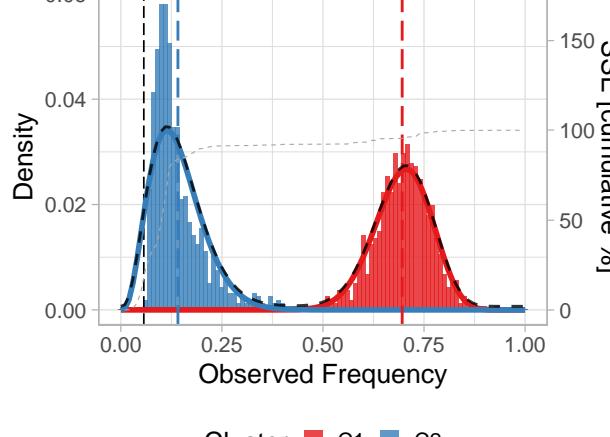


161201_HMFregCPCT_FR13275507_FR12244788_CPCT02010434

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

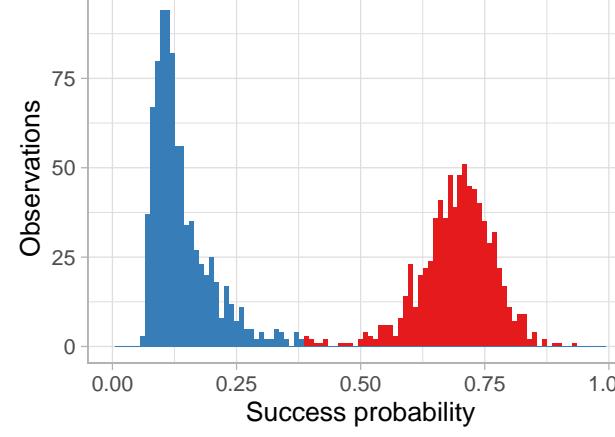
N = 1619; Tail 0%, C1 47.47%, C2 52.53%



MM ($\omega = 28$; $\epsilon = 4e-04$; SSE 3.256e-03) LV > 0

Karyotype: 1:0

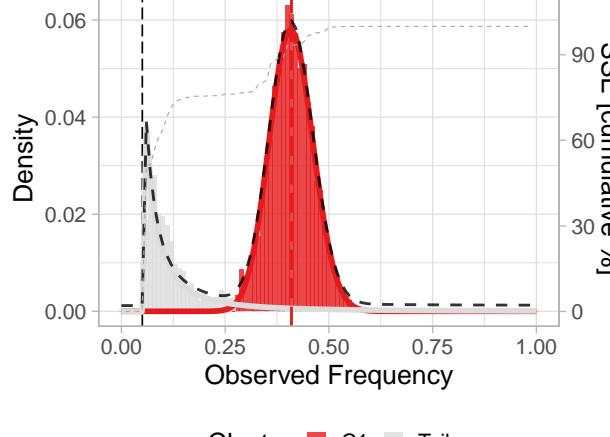
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 1:1

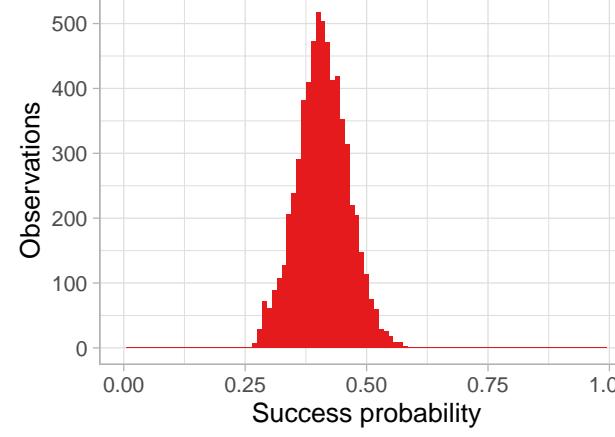
N = 8221; Tail 24.03%, C1 75.97%



MM ($\omega = 17$; $\epsilon = 5e-06$; SSE 1.576e-03) LV > 0

Karyotype: 1:1

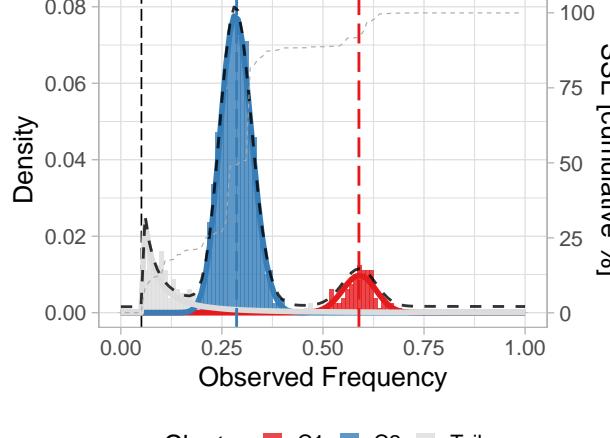
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 2:1

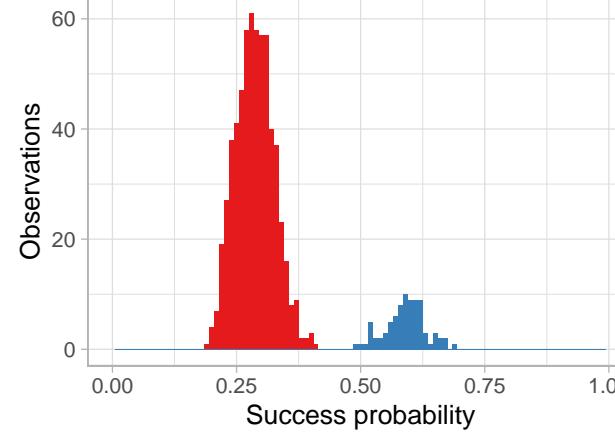
N = 804; C1 10.08%, Tail 14.67%, C2 75.26%



MM ($\omega = 32$; $\epsilon = 7e-08$; SSE 1.580e-03) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

2:0

2:0

2:2

2:2

161205_HMFregCPCT_FR12244768_FR12244794_CPCT02210001

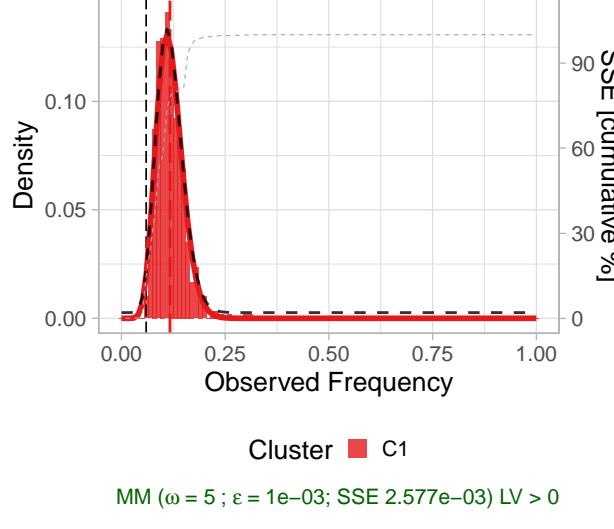
ONLY SNVs (min 150 – max 50000)

1:0

1:0

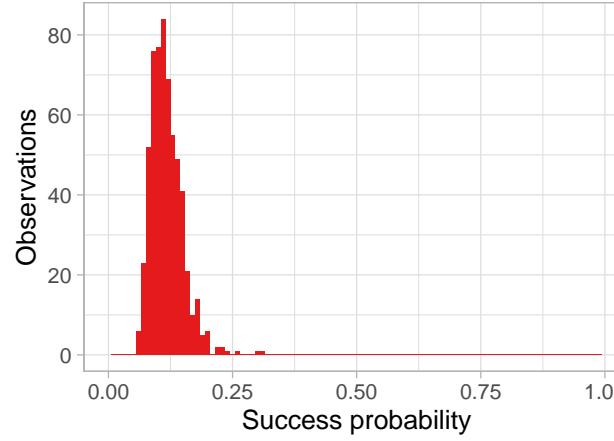
Karyotype: 1:1

N = 596; Tail 0%, C1 100%



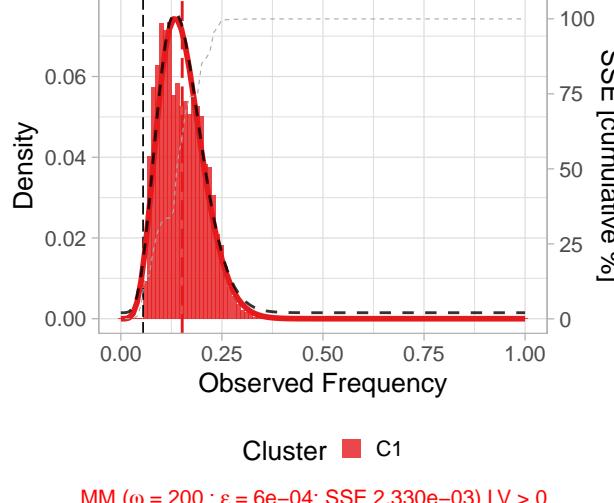
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



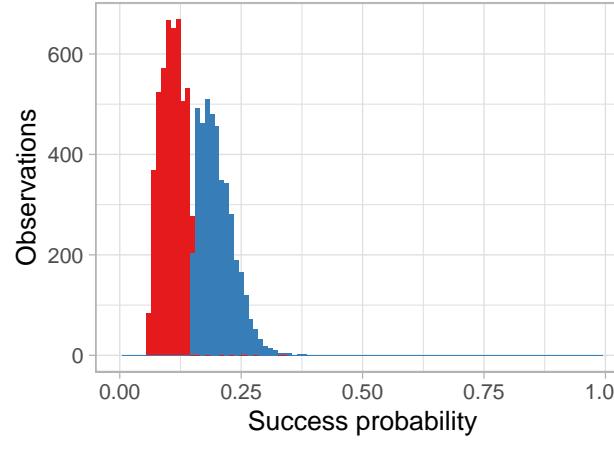
Karyotype: 2:1

N = 9119; Tail 0%, C1 100%



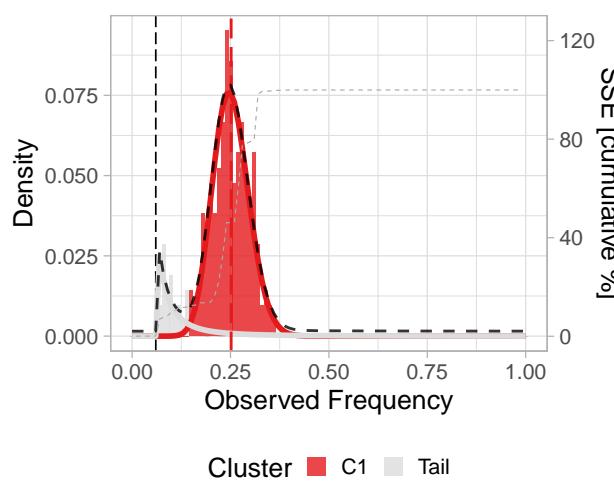
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



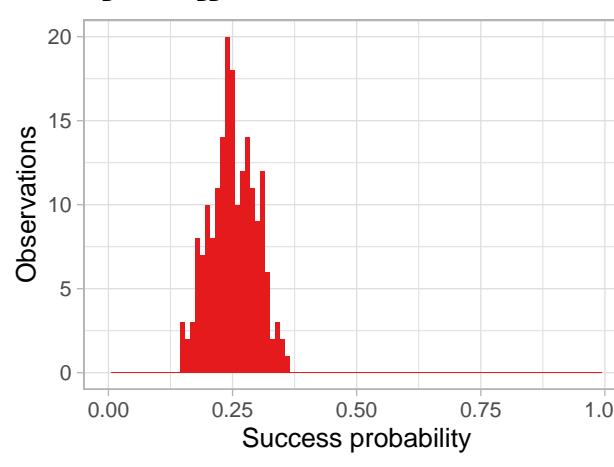
Karyotype: 2:0

N = 210; Tail 13.53%, C1 86.47%



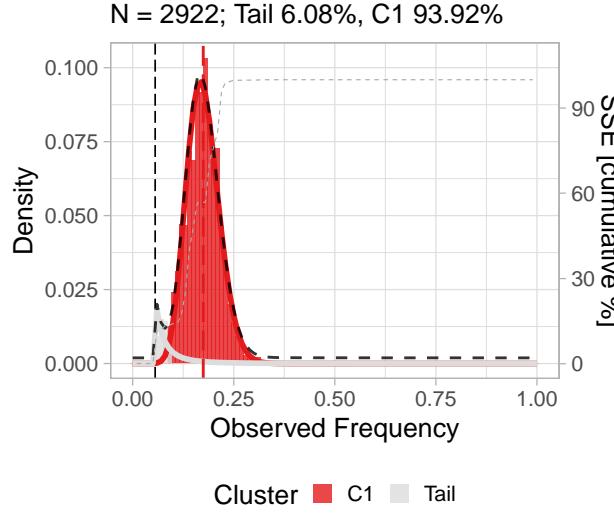
Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$



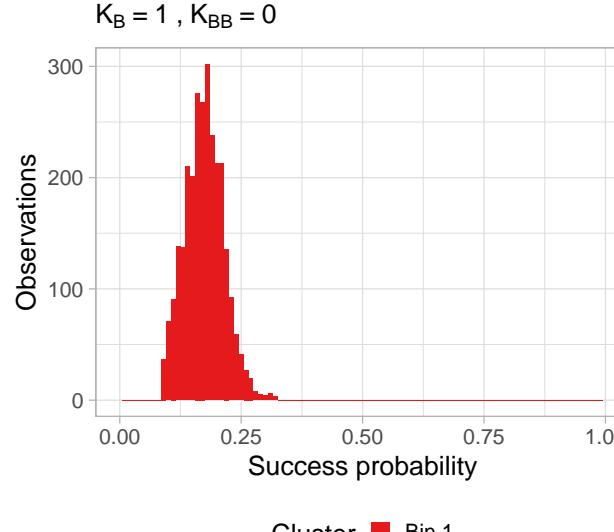
Karyotype: 2:2

N = 2922; Tail 6.08%, C1 93.92%



Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$

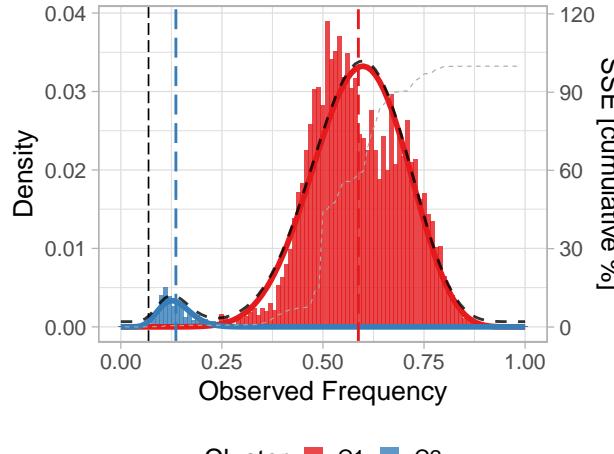


161205_HMFregCPCT_FR12251556_FR12251517_CPCT02030284

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

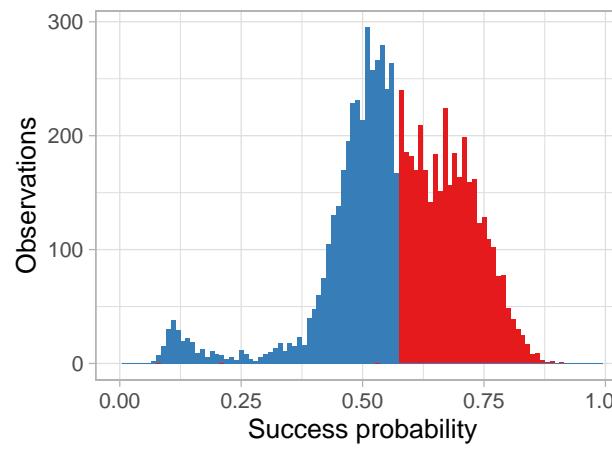
N = 7569; Tail 0%, C2 3.24%, C1 96.76%



MM ($\omega = 95$; $\epsilon = 2e-04$; SSE 1.695e-03) LV > 0

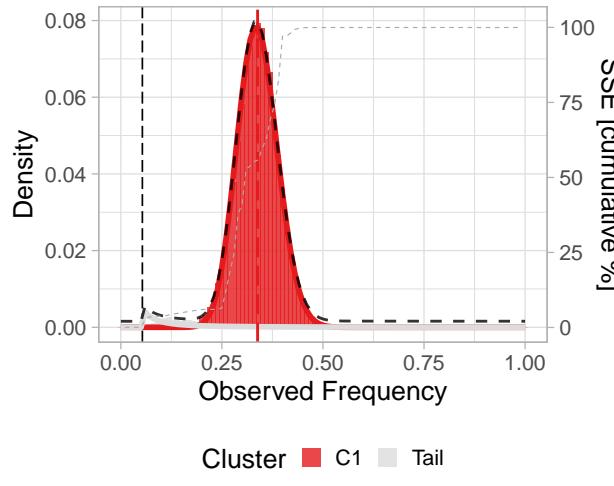
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

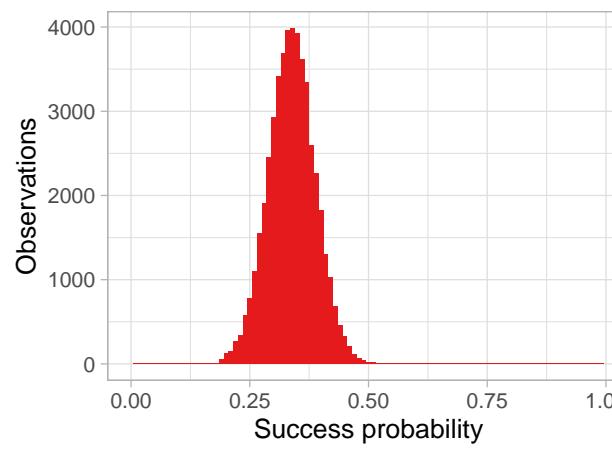
N = 50318; Tail 2.89%, C1 97.11%



MM ($\omega = 17$; $\epsilon = 2e-04$; SSE 6.215e-04) LV > 0

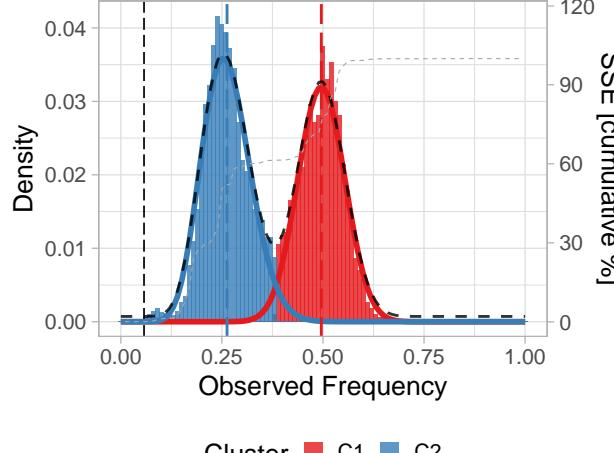
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

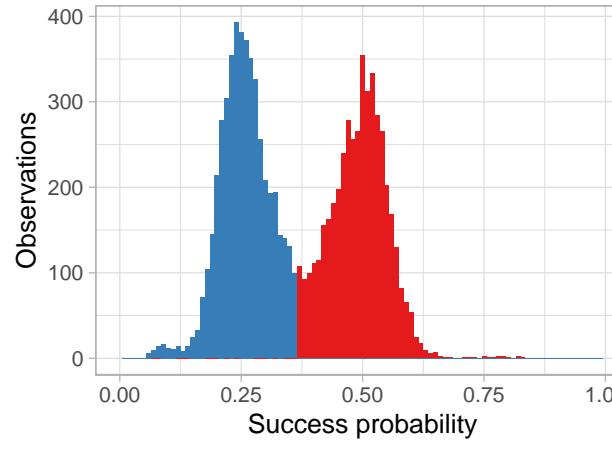
N = 9439; Tail 0%, C1 46.5%, C2 53.5%



MM ($\omega = 72$; $\epsilon = 6e-05$; SSE 5.970e-04) LV > 0

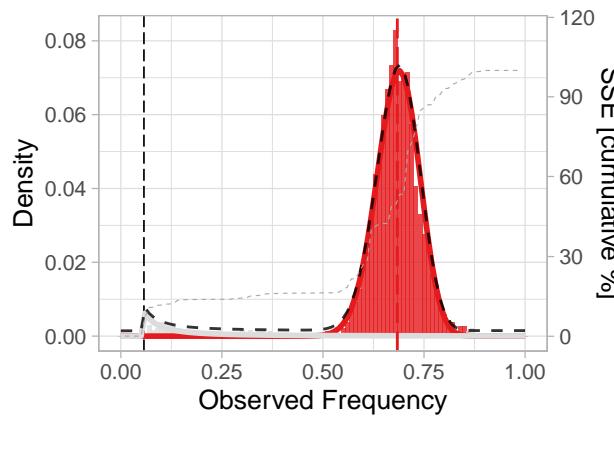
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

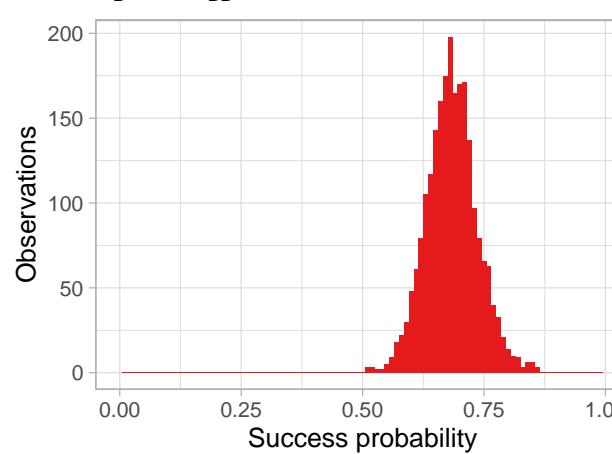
N = 2390; Tail 5.32%, C1 94.68%



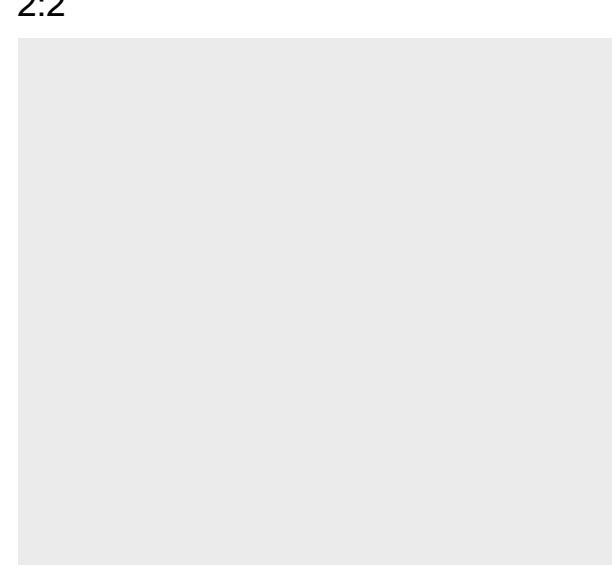
MM ($\omega = 14$; $\epsilon = 6e-05$; SSE 4.532e-04) LV > 0

Karyotype: 2:0

$K_B = 1$, $K_{BB} = 0$



2:2

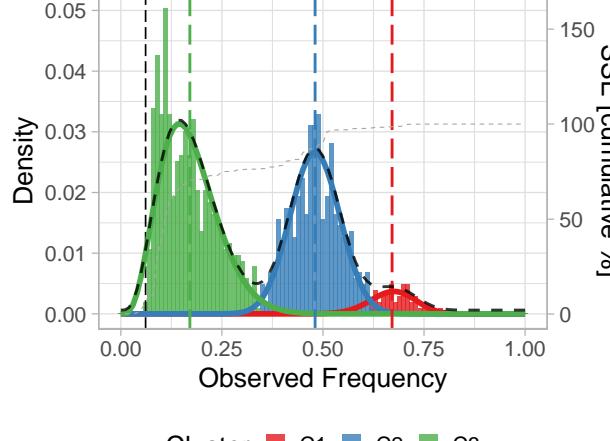


161205_HMFregCPCT_FR12251759_FR12251828_CPCT02060017

ONLY SNVs (min 150 – max 50000)

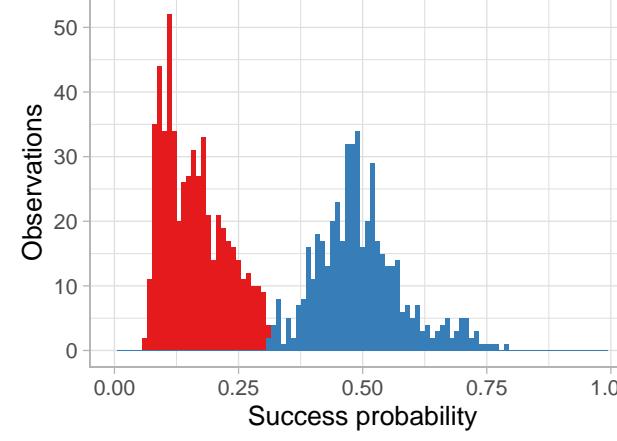
Karyotype: 1:0

N = 1032; Tail 0%, C1 5.12%, C2 40.85%, C3



Karyotype: 1:0

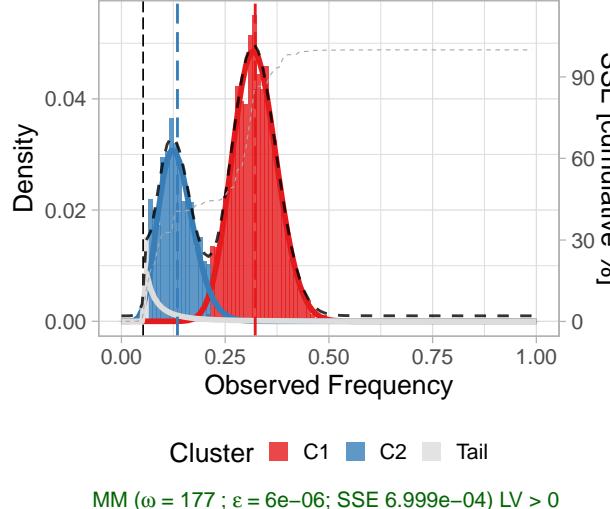
$K_B = 2, K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 4e-02$; SSE $2.541e-03$) LV > 0

Karyotype: 1:1

N = 3692; Tail 4.06%, C2 31.4%, C1 64.54%

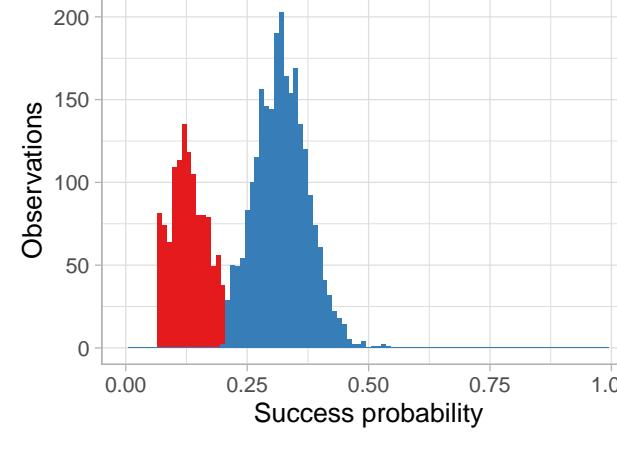


MM ($\omega = 177$; $\epsilon = 6e-06$; SSE $6.999e-04$) LV > 0

Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:1

2:1

2:0

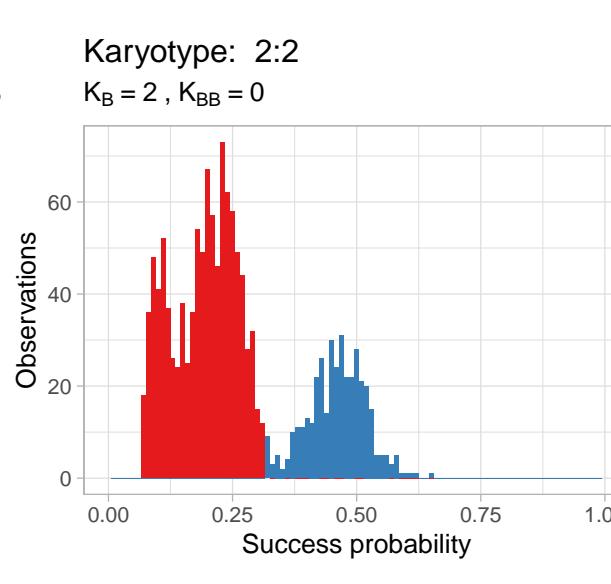
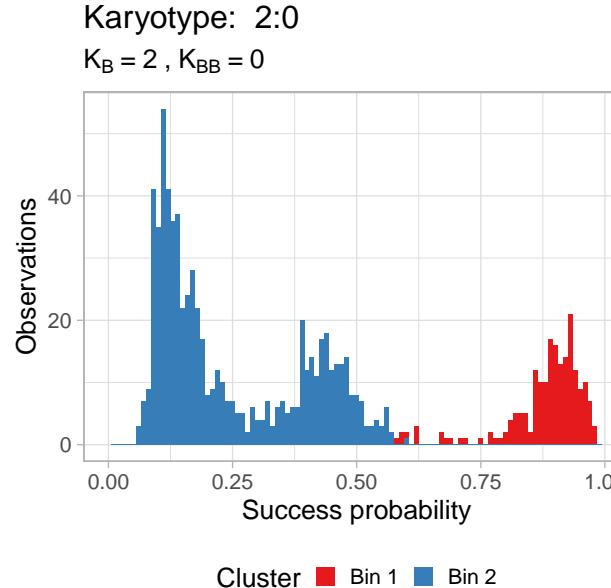
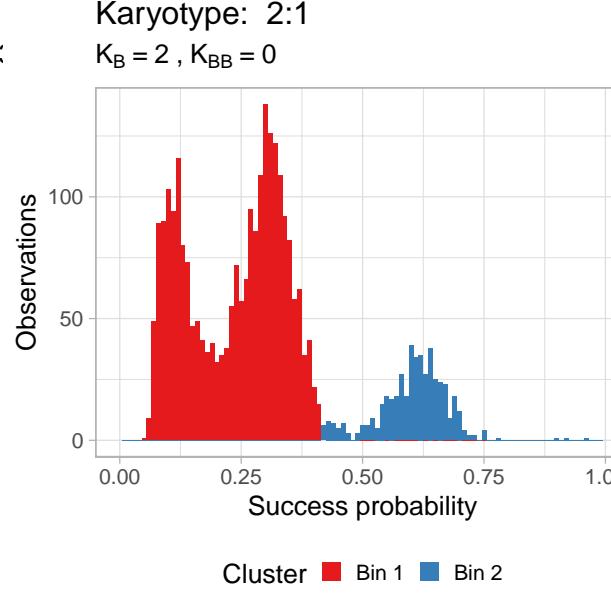
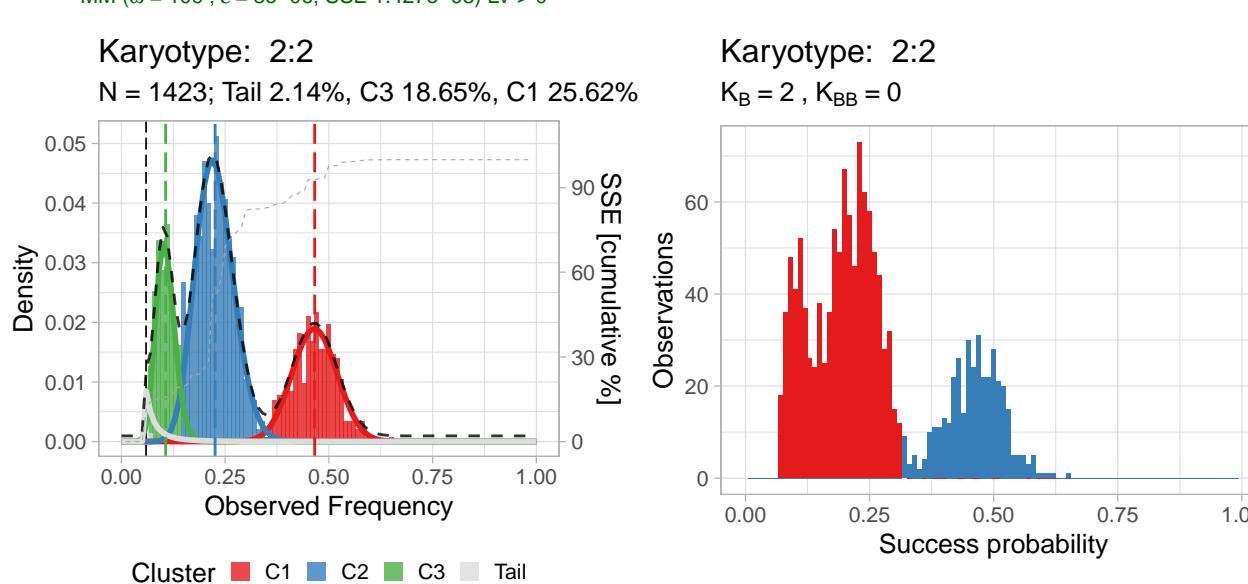
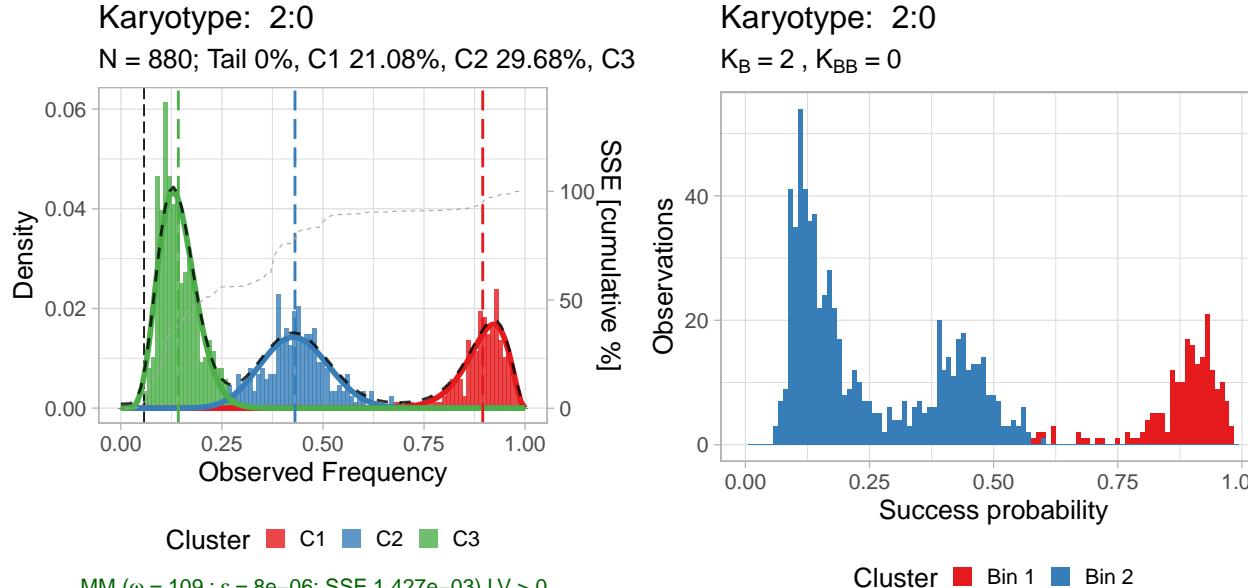
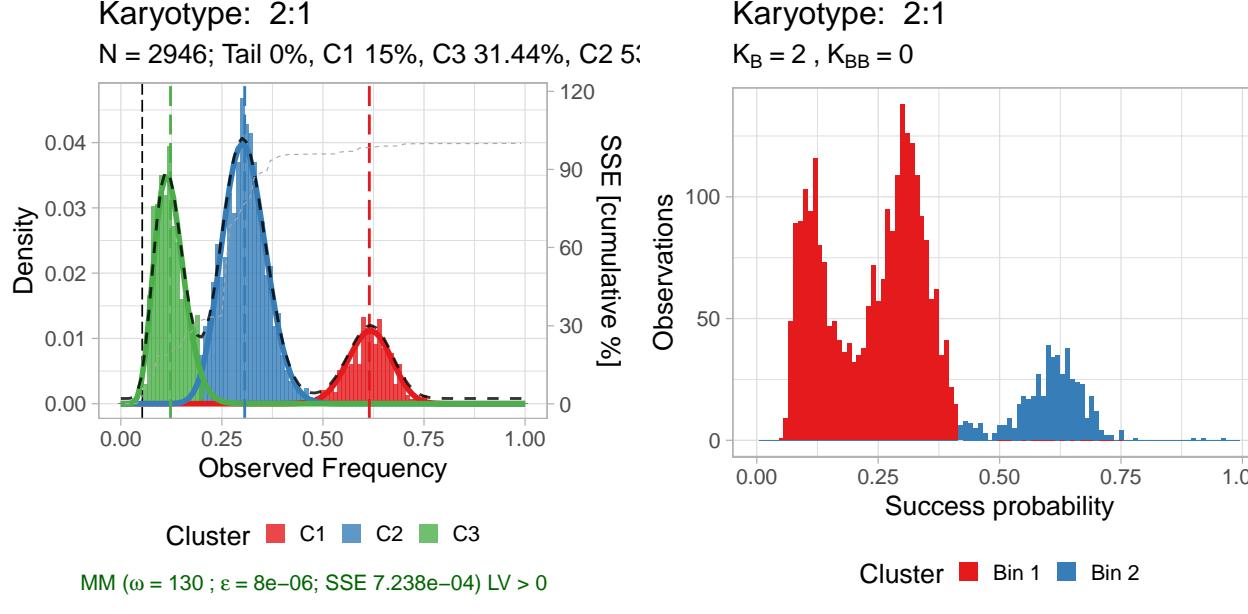
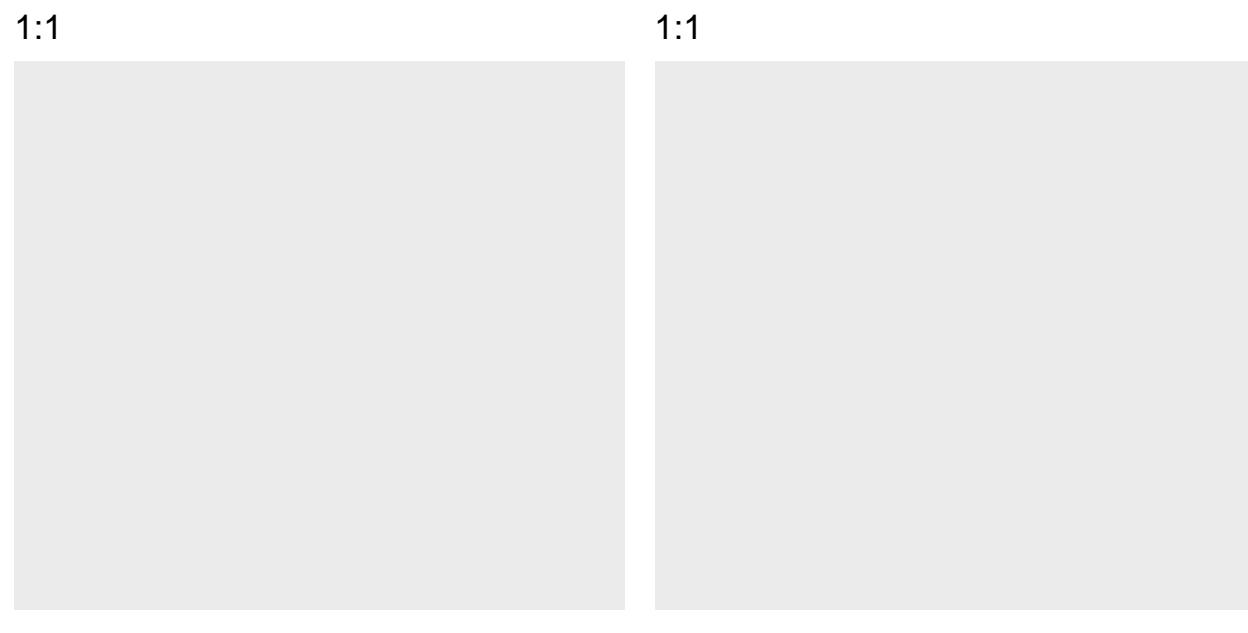
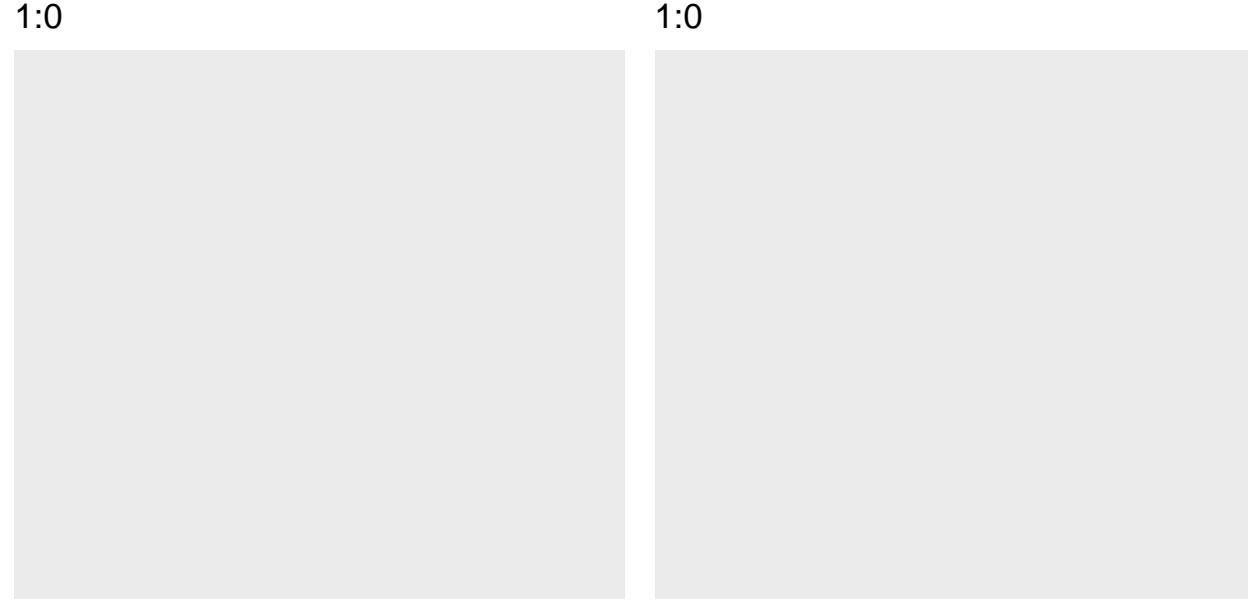
2:0

2:2

2:2

161205_HMFregCPCT_FR12254111_FR12244792_CPCT02080049

ONLY SNVs (min 150 – max 50000)

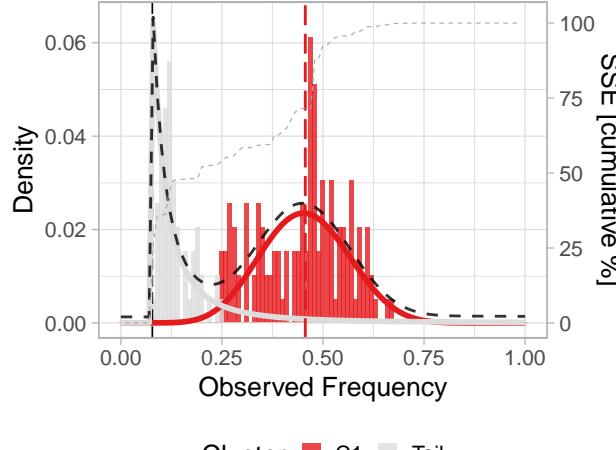


161205_HMFregCPCT_FR12254193_FR12244795_CPCT02210003

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

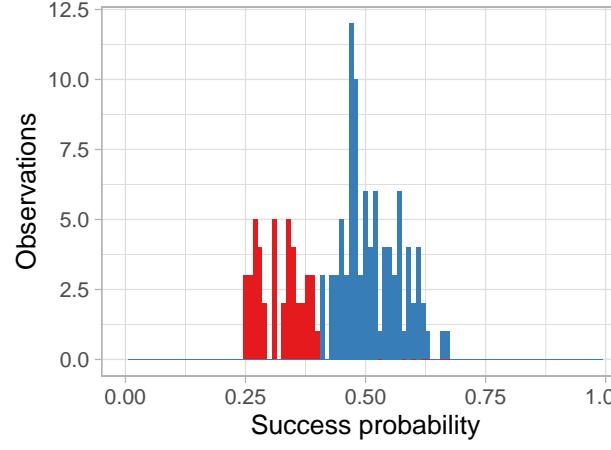
N = 196; Tail 35.44%, C1 64.56%



MM ($\omega = 50$; $\epsilon = 5e-07$; SSE 1.371e-02) LV > 0

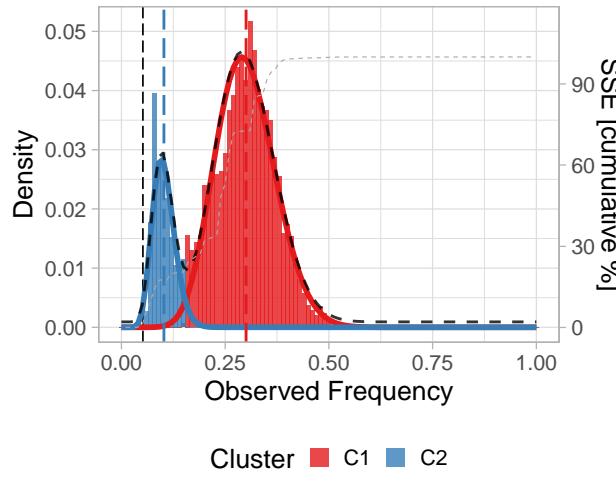
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

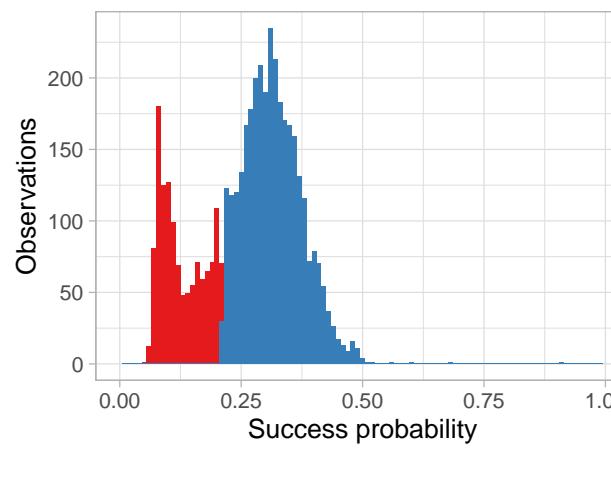
N = 4548; Tail 0%, C2 18.59%, C1 81.41%



MM ($\omega = 200$; $\epsilon = 1e-01$; SSE 1.005e-03) LV > 0

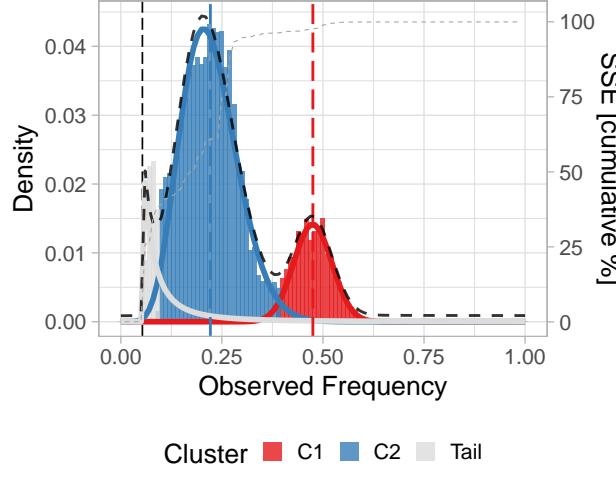
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:1

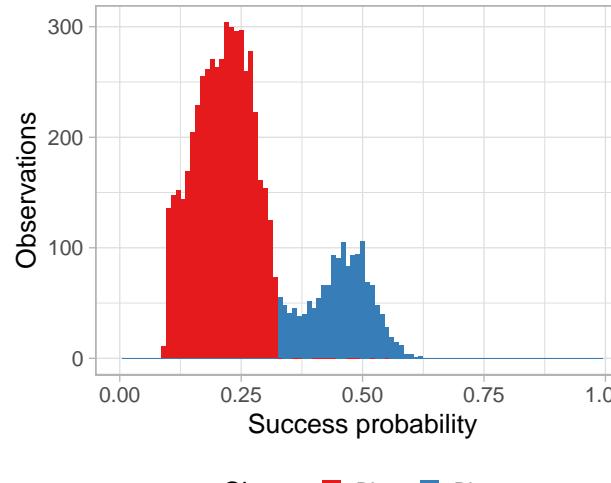
N = 7042; Tail 9.98%, C1 16.67%, C2 73.35%



MM ($\omega = 76$; $\epsilon = 3e-05$; SSE 1.319e-03) LV > 0

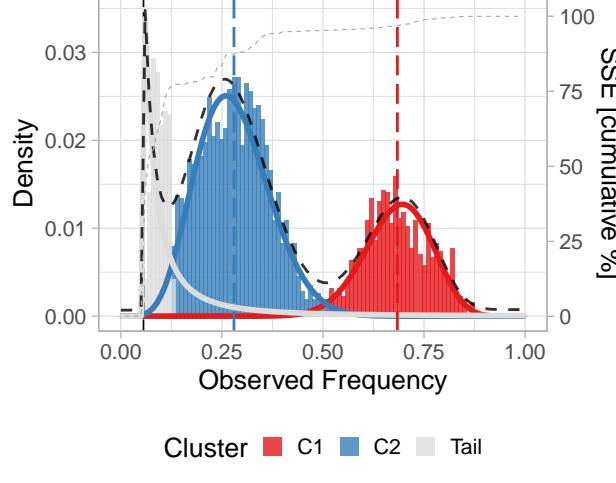
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

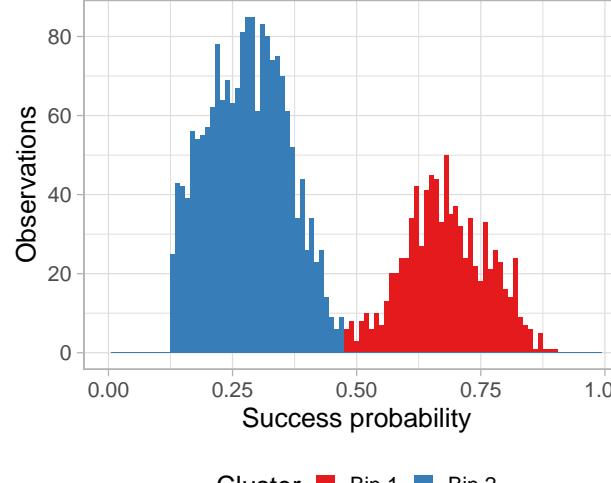
N = 3136; Tail 17.28%, C1 26.24%, C2 56.48%



MM ($\omega = 200$; $\epsilon = 1e-02$; SSE 2.664e-03) LV > 0

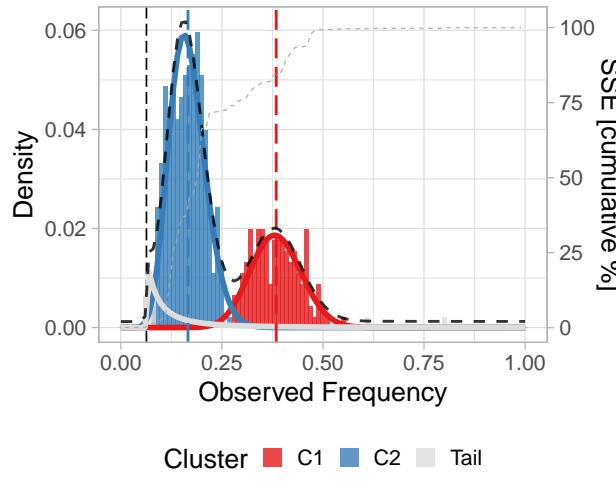
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

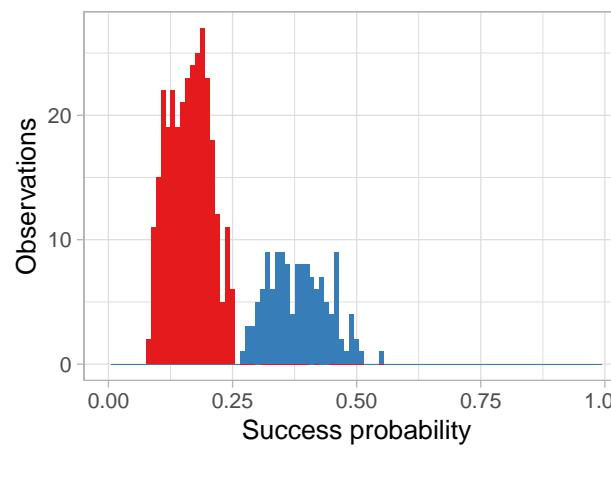
N = 452; Tail 6.46%, C1 29.16%, C2 64.38%



MM ($\omega = 46$; $\epsilon = 2e-06$; SSE 2.734e-03) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

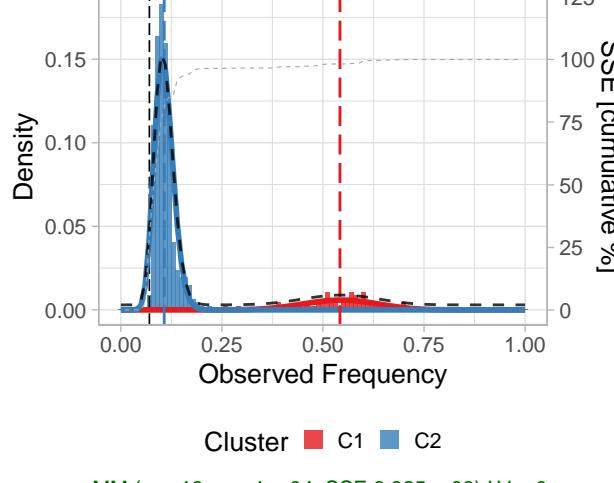


161205_HMFregCPCT_FR12254197_FR12251809_CPCT02010392

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

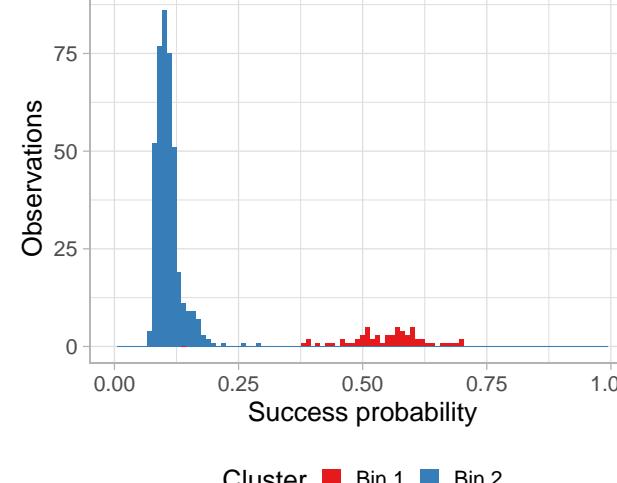
N = 470; Tail 0%, C1 13.42%, C2 86.58%



MM ($\omega = 13$; $\varepsilon = 1e-04$; SSE 6.925e-03) LV > 0

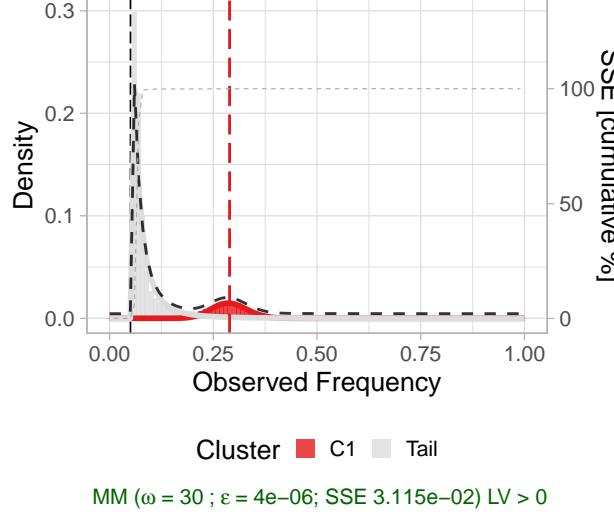
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

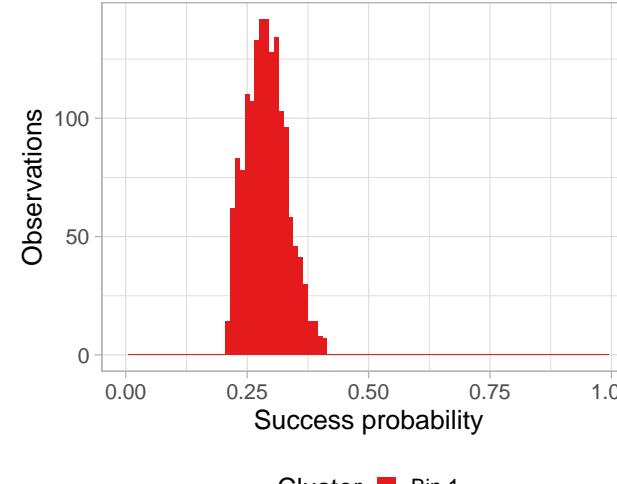
N = 8969; C1 15.76%, Tail 84.24%



MM ($\omega = 30$; $\varepsilon = 4e-06$; SSE 3.115e-02) LV > 0

Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

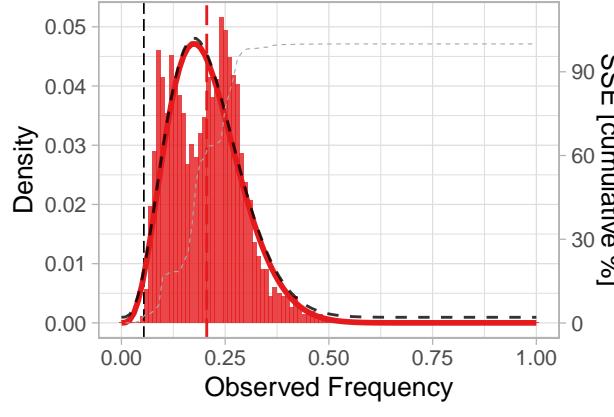
2:2

161205_HMFregCPCT_FR13271957_FR12245846_CPCT02160007

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

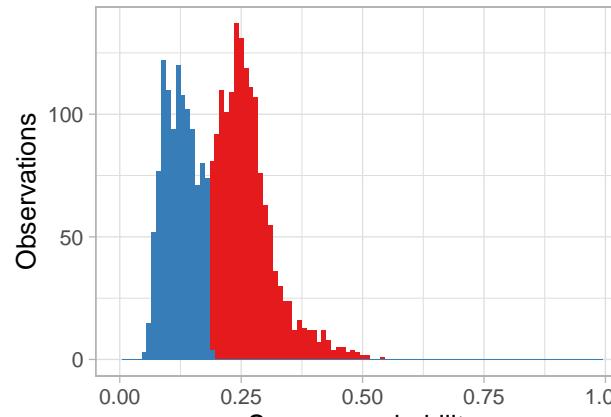
N = 2653; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $3.483e-03$) LV > 0

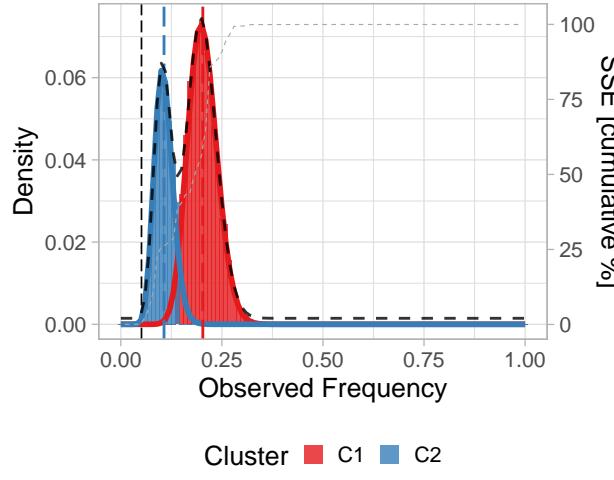
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

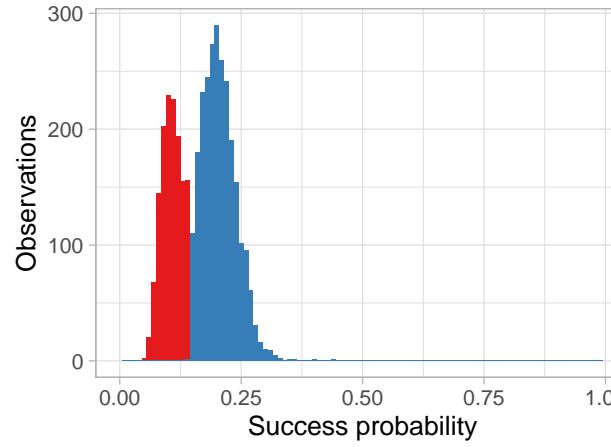
N = 3920; Tail 0%, C2 34.89%, C1 65.11%



MM ($\omega = 200$; $\epsilon = 3e-03$; SSE $8.326e-04$) LV > 0

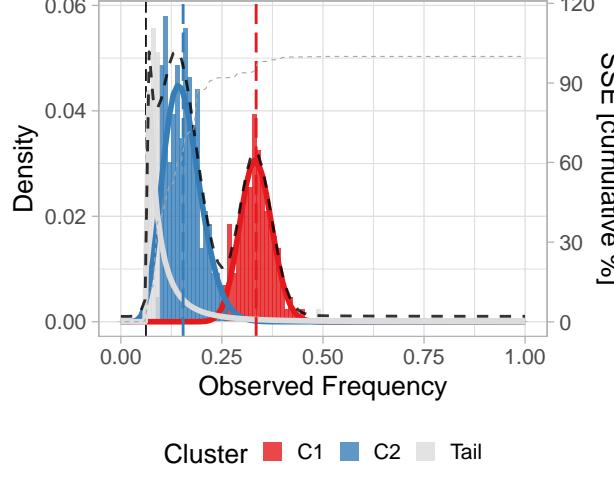
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

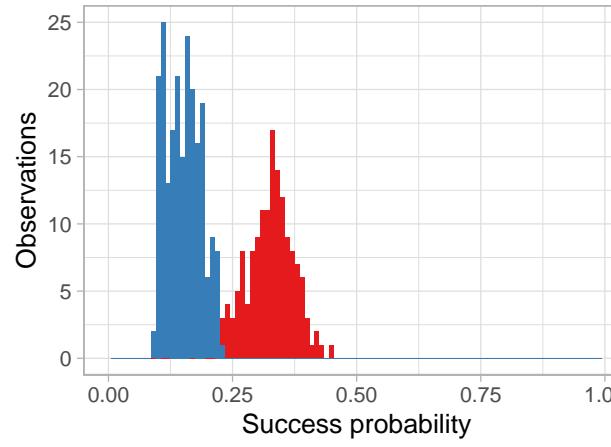
N = 431; Tail 19.5%, C1 30.02%, C2 50.47%



MM ($\omega = 97$; $\epsilon = 2e-07$; SSE $5.054e-03$) LV > 0

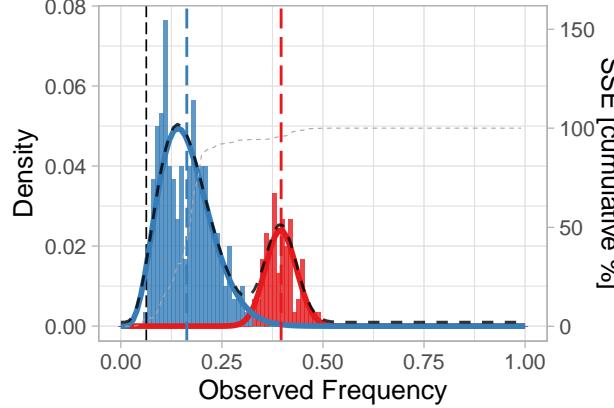
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

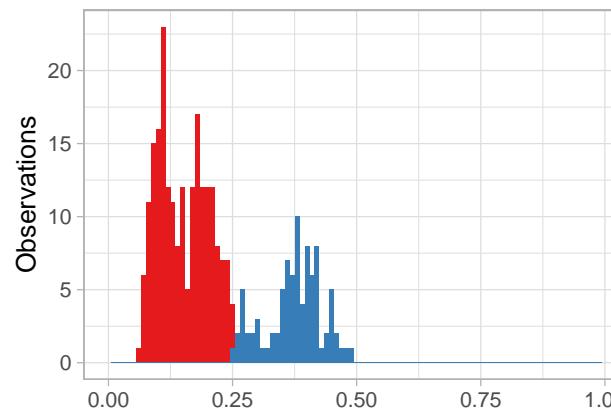
N = 301; Tail 0%, C1 22.96%, C2 77.04%



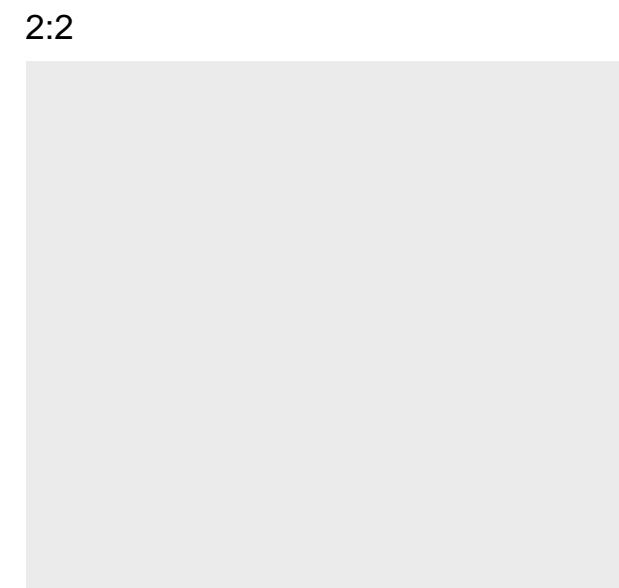
MM ($\omega = 35$; $\epsilon = 5e-06$; SSE $6.451e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

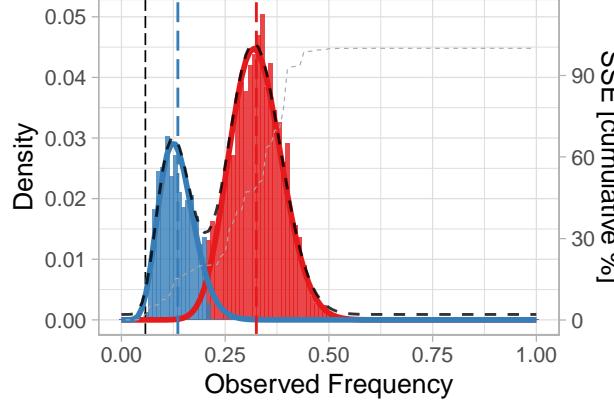


161205_HMFregCPCT_FR13271985_FR12245850_CPCT02020401

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 2577; Tail 0%, C2 30.14%, C1 69.86%

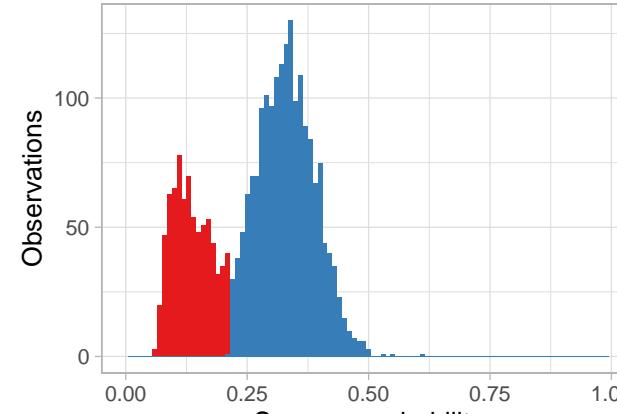


Cluster ■ C1 ■ C2

MM ($\omega = 200$; $\epsilon = 1e-02$; SSE $8.767e-04$) LV > 0

Karyotype: 1:0

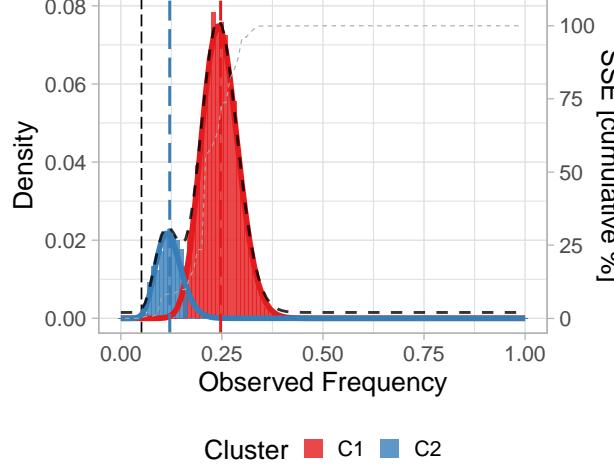
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 8774; Tail 0%, C2 16.77%, C1 83.23%

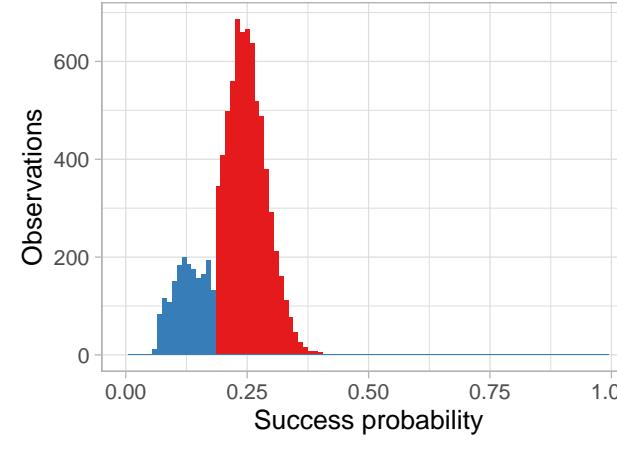


Cluster ■ C1 ■ C2

MM ($\omega = 134$; $\epsilon = 2e-06$; SSE $5.373e-04$) LV > 0

Karyotype: 1:1

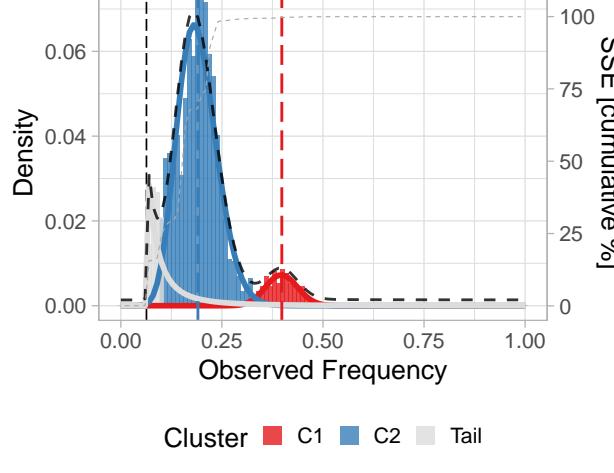
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

N = 1719; C1 7.16%, Tail 12.97%, C2 79.88%

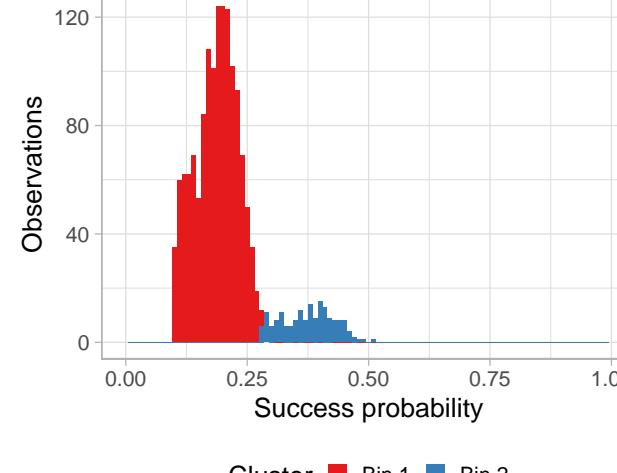


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 111$; $\epsilon = 8e-06$; SSE $3.580e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:0

2:0

2:2

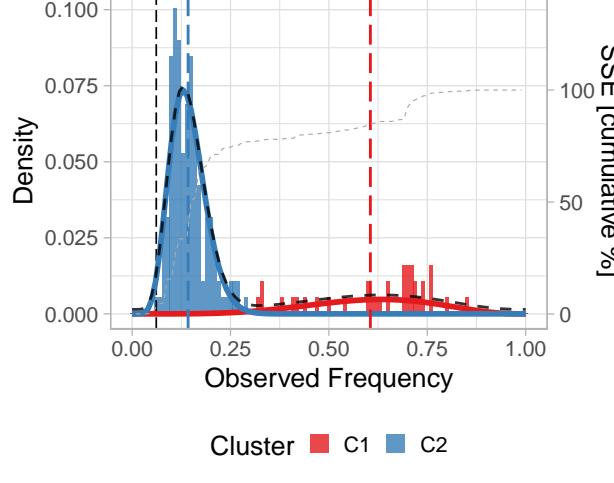
2:2

161205_HMFregCPCT_FR13275481_FR13275492_CPCT02060034

ONLY SNVs (min 150 – max 50000)

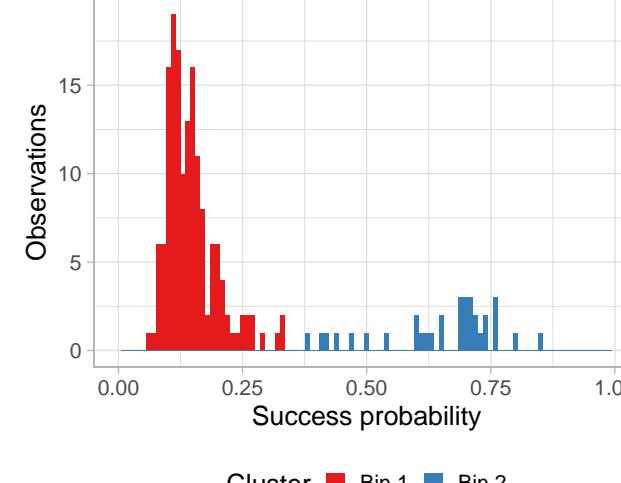
Karyotype: 1:0

N = 189; Tail 0%, C1 19.08%, C2 80.92%



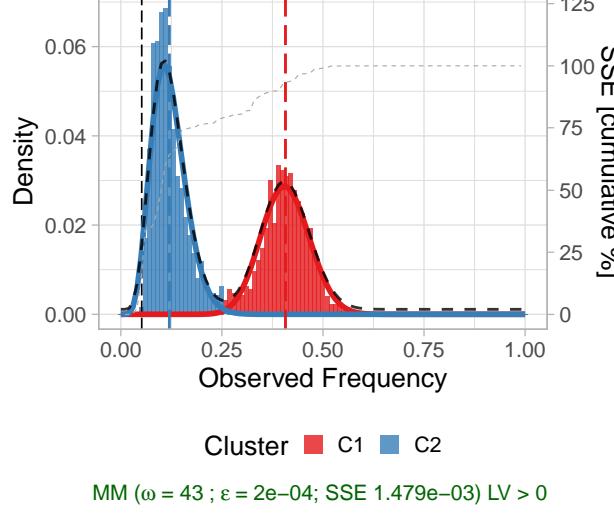
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



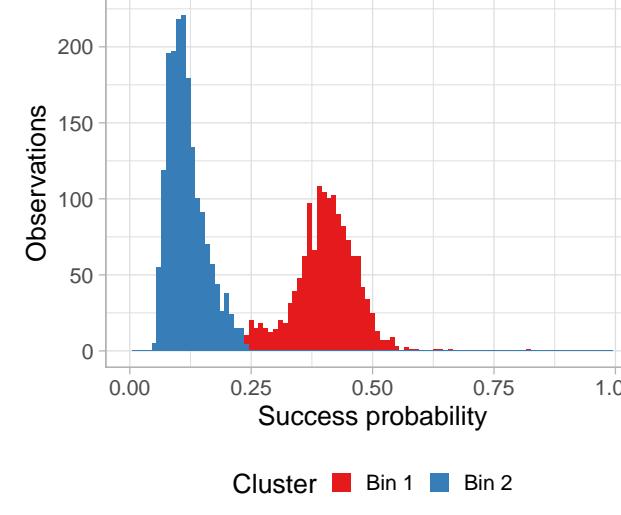
Karyotype: 1:1

N = 3224; Tail 0%, C1 42.84%, C2 57.16%



Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

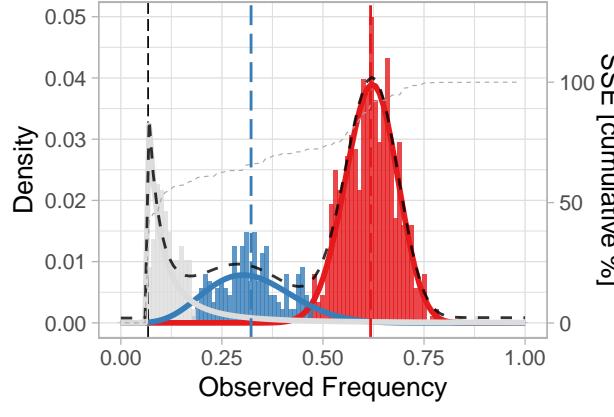
2:2

161205_HMFregCPCT_FR13275503_FR12251646_CPCT02030286

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

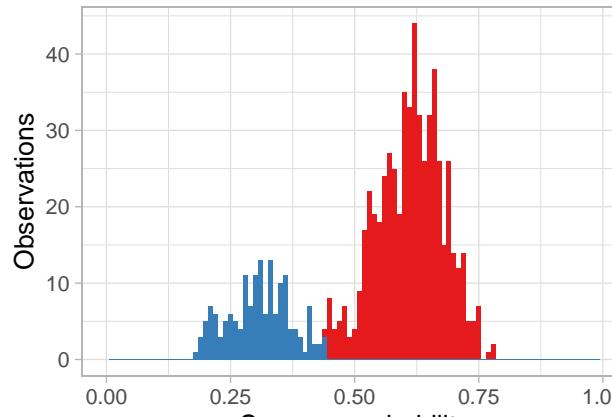
N = 881; Tail 16.89%, C2 20.56%, C1 62.55%



MM ($\omega = 200$; $\epsilon = 1e-03$; SSE 2.332e-03) LV > 0

Karyotype: 1:0

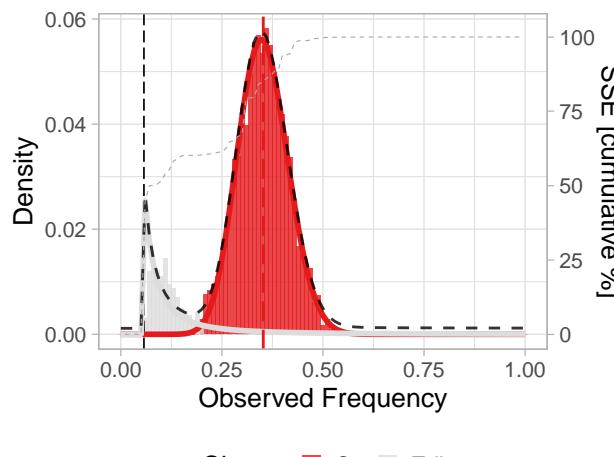
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 4897; Tail 13.22%, C1 86.78%

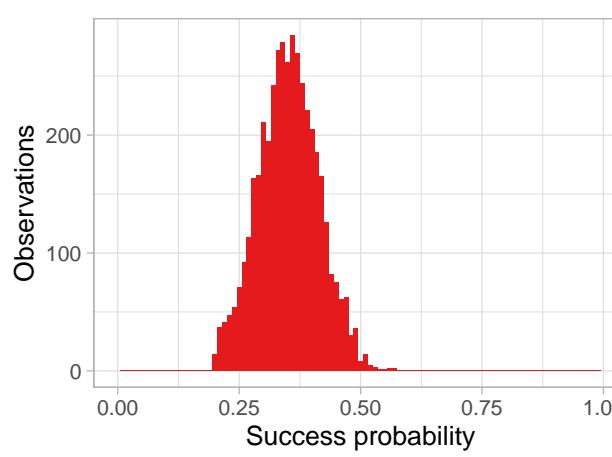


Cluster ■ C1 ■ Tail

MM ($\omega = 21$; $\epsilon = 9e-06$; SSE 1.429e-03) LV > 0

Karyotype: 1:1

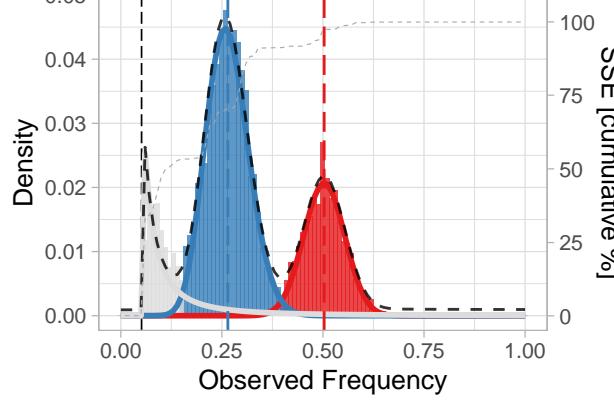
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

N = 10004; Tail 15.17%, C1 26.13%, C2 58.7%

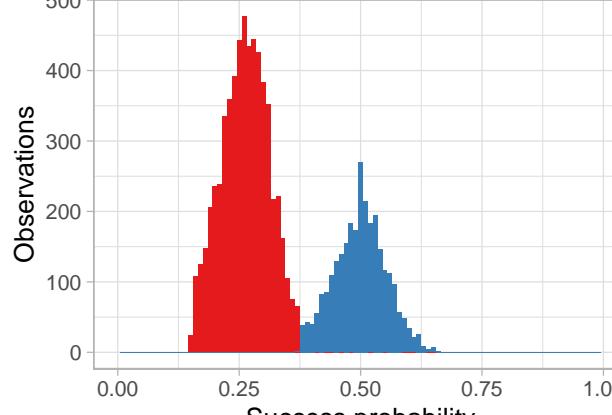


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 45$; $\epsilon = 3e-05$; SSE 1.040e-03) LV > 0

Karyotype: 2:1

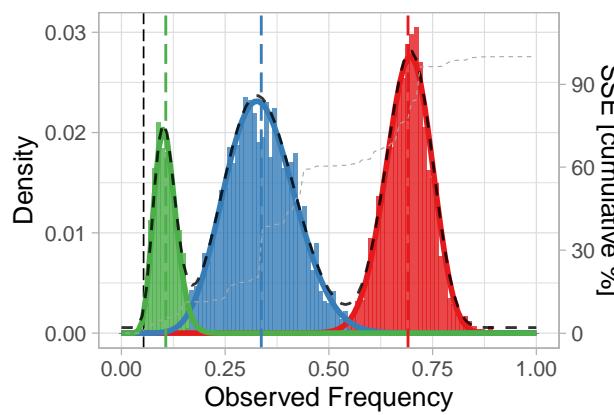
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 6034; Tail 0%, C3 13.24%, C1 38.2%, C2

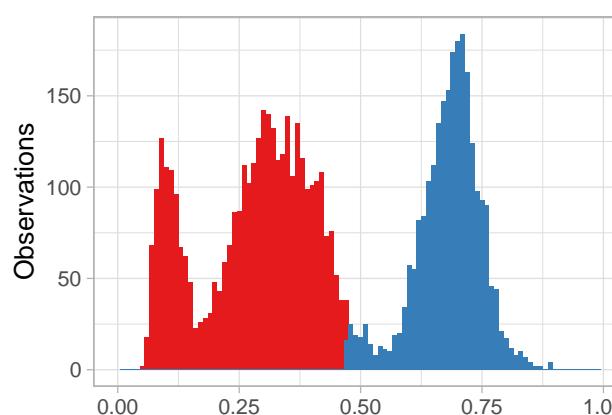


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 200$; $\epsilon = 3e-04$; SSE 2.991e-04) LV > 0

Karyotype: 2:0

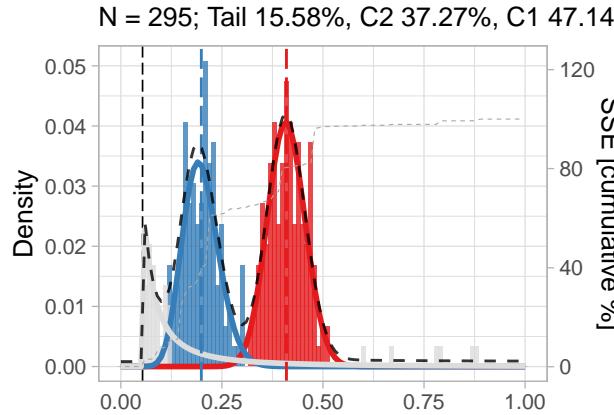
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

N = 295; Tail 15.58%, C2 37.27%, C1 47.14%

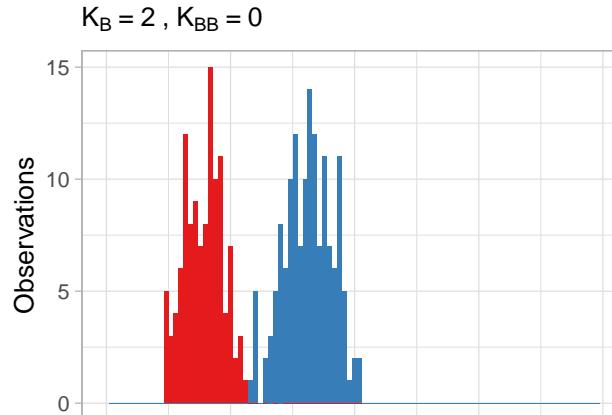


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 60$; $\epsilon = 6e-07$; SSE 3.066e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



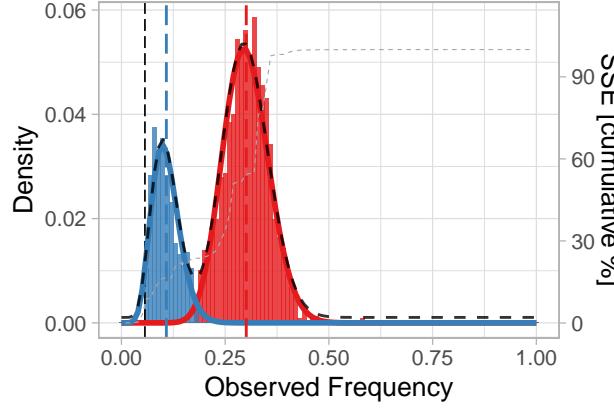
Cluster ■ Bin 1 ■ Bin 2

161206_HMFregCPCT_FR12245819_FR12244321_CPCT02030269

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

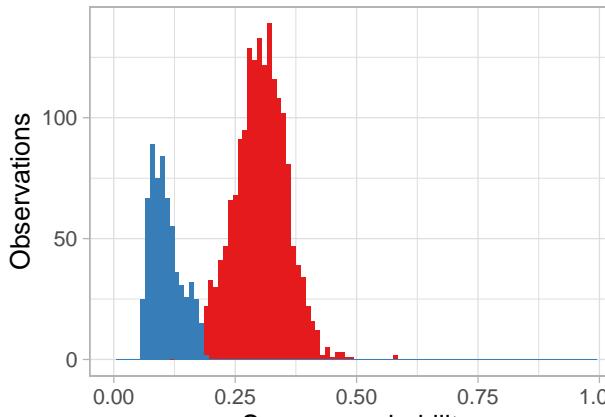
N = 2370; Tail 0%, C2 27.69%, C1 72.31%



MM ($\omega = 200$; $\epsilon = 9e-02$; SSE $1.532e-03$) LV > 0

Karyotype: 1:0

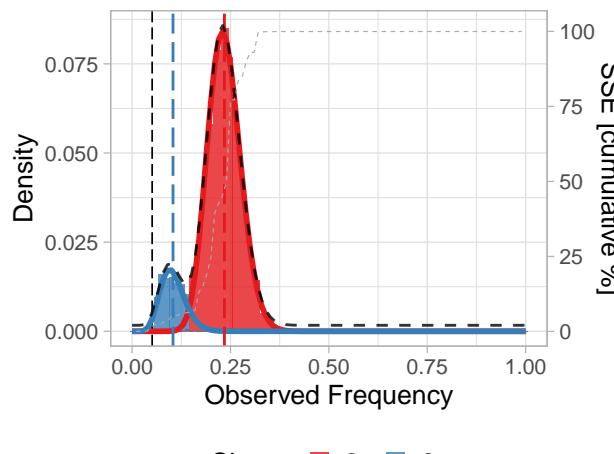
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

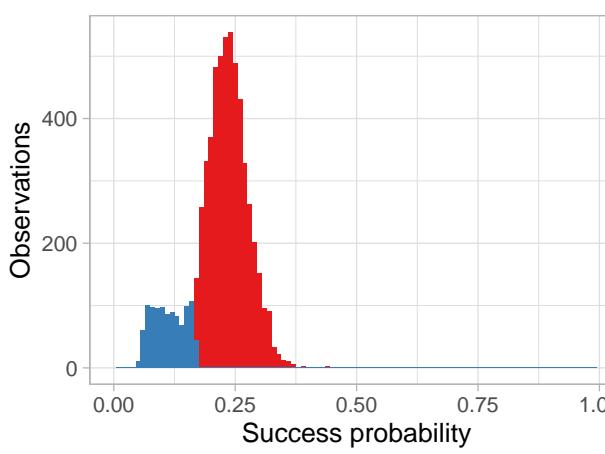
N = 6338; Tail 0%, C2 13.08%, C1 86.92%



MM ($\omega = 109$; $\epsilon = 3e-05$; SSE $6.899e-04$) LV > 0

Karyotype: 1:1

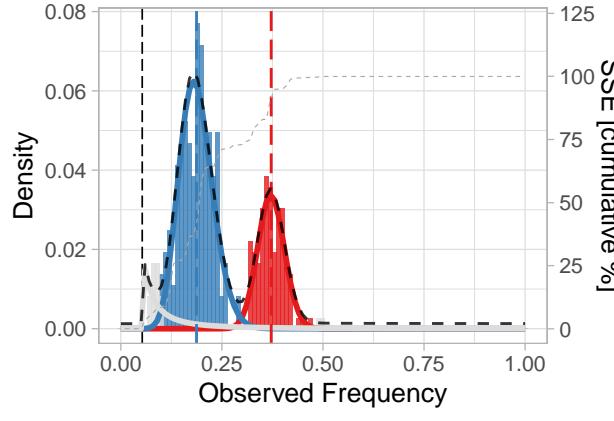
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

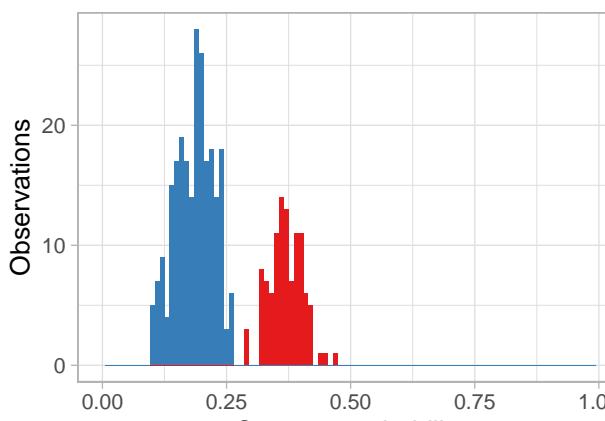
N = 363; Tail 8.31%, C1 27.77%, C2 63.92%



MM ($\omega = 68$; $\epsilon = 2e-06$; SSE $4.339e-03$) LV > 0

Karyotype: 2:1

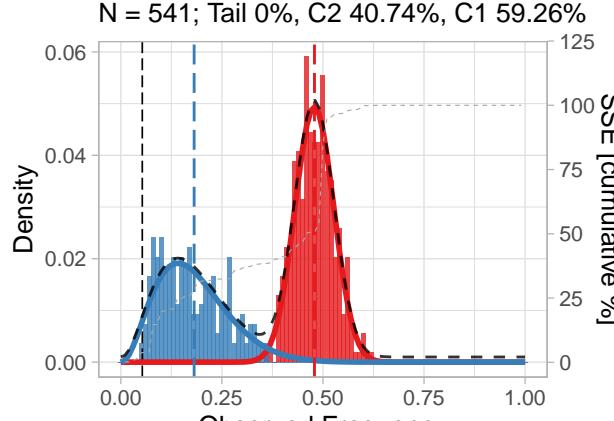
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

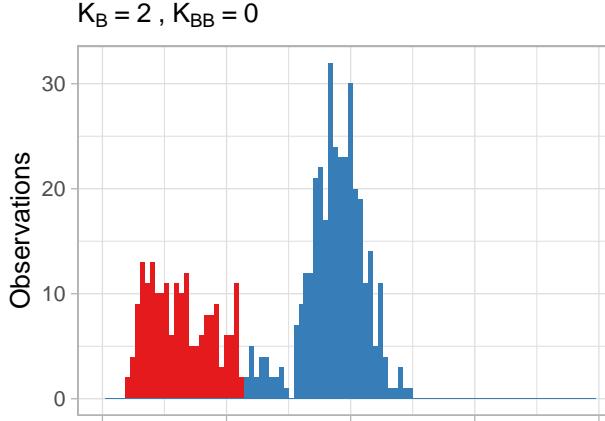
N = 541; Tail 0%, C2 40.74%, C1 59.26%



MM ($\omega = 44$; $\epsilon = 1e-05$; SSE $2.437e-03$) LV > 0

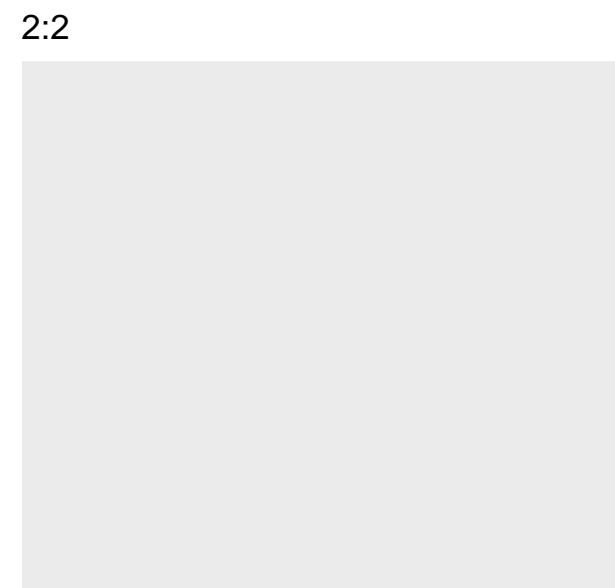
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

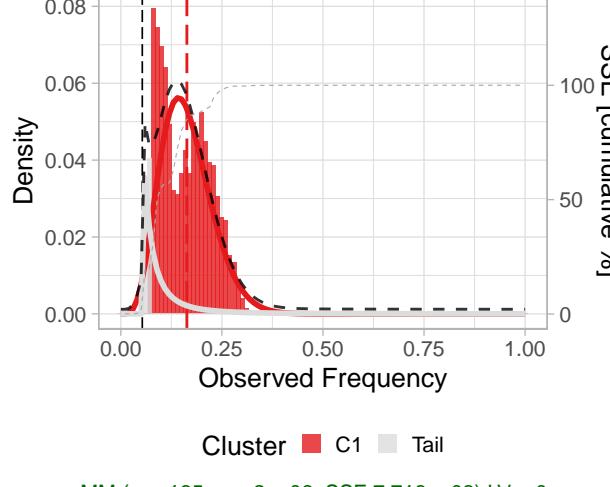


161206_HMFregCPCT_FR13271924_FR12246148_CPCT02140024

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 2024; Tail 14.68%, C1 85.32%

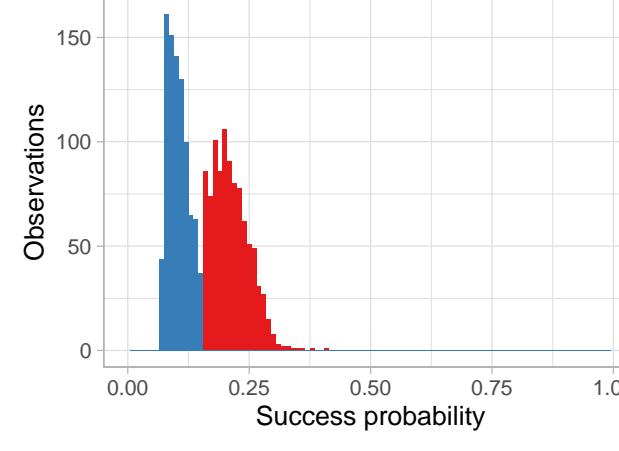


Cluster ■ C1 ■ Tail

MM ($\omega = 165$; $\epsilon = 2e-06$; SSE $7.716e-03$) LV > 0

Karyotype: 1:0

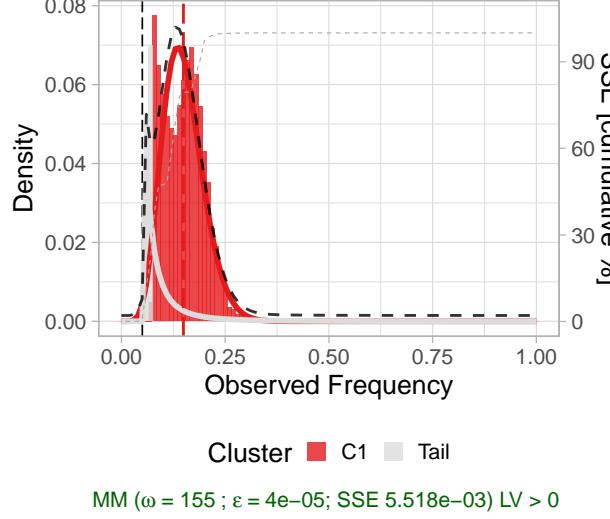
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 11043; Tail 17.61%, C1 82.39%

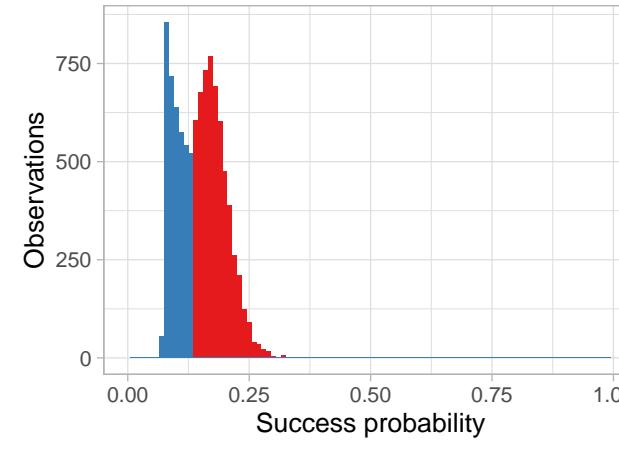


Cluster ■ C1 ■ Tail

MM ($\omega = 155$; $\epsilon = 4e-05$; SSE $5.518e-03$) LV > 0

Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:1

2:1

2:0

2:0

2:2

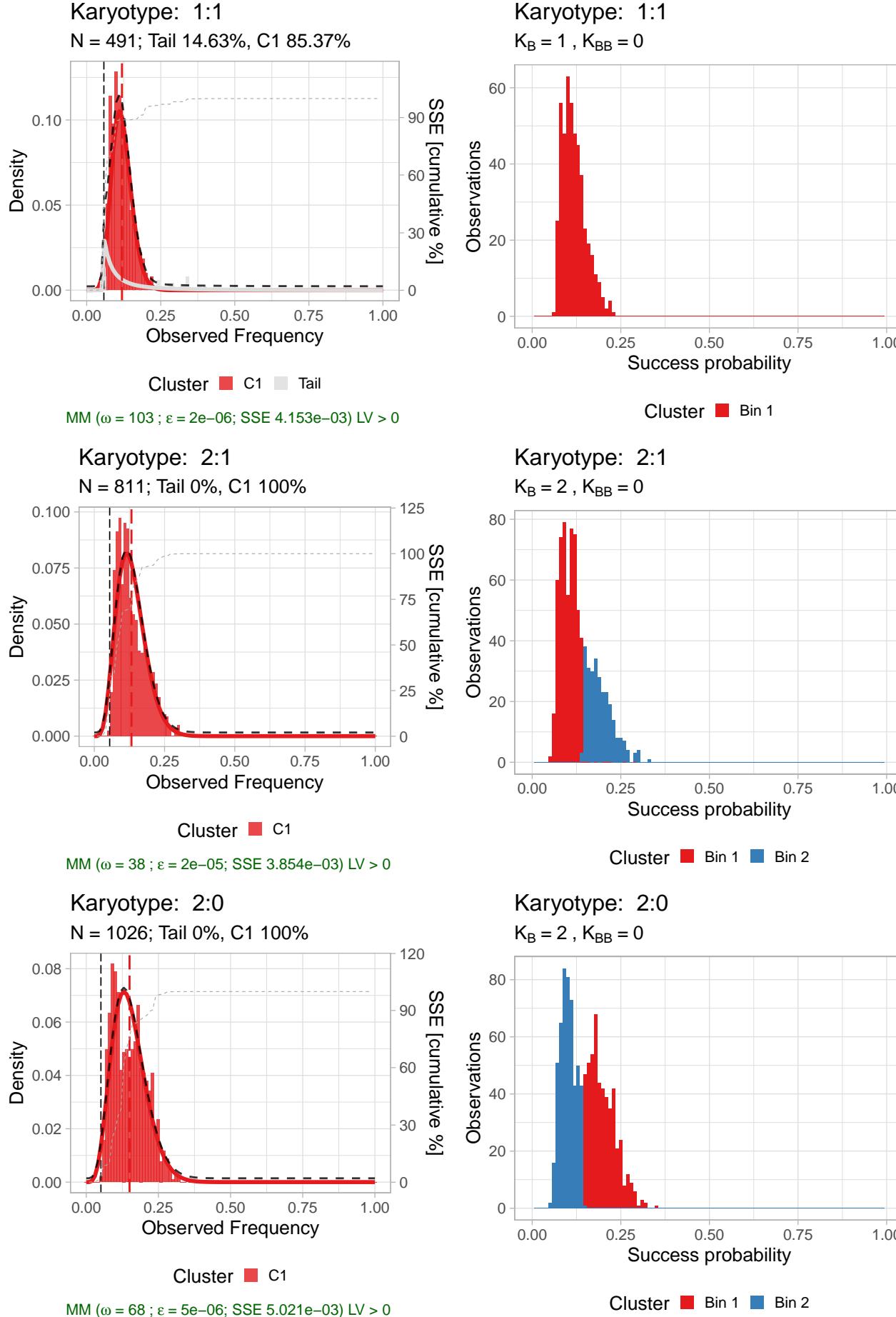
2:2

161206_HMFregCPCT_FR13271947_FR12246143_CPCT02160008

ONLY SNVs (min 150 – max 50000)

1:0

1:0



2:2

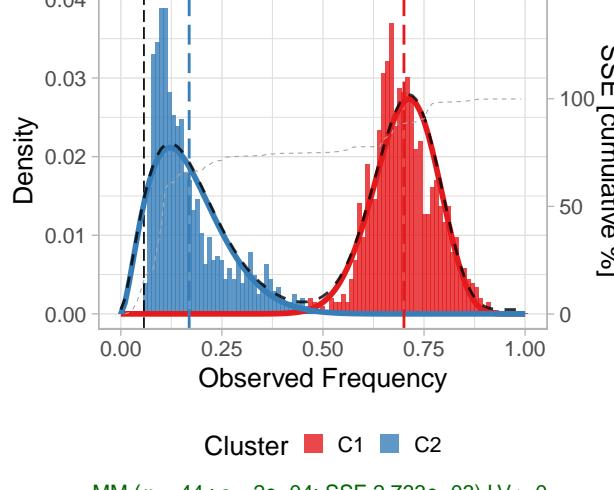
2:2

161206_HMFregCPCT_FR13271987_FR12246145_CPCT02160010

ONLY SNVs (min 150 – max 50000)

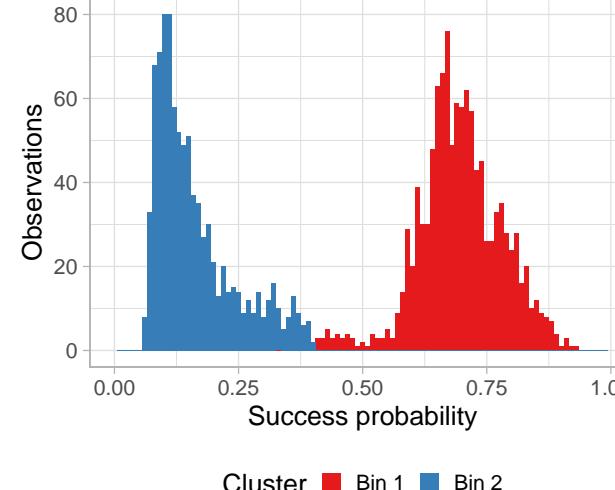
Karyotype: 1:0

N = 2057; Tail 0%, C2 45.59%, C1 54.41%



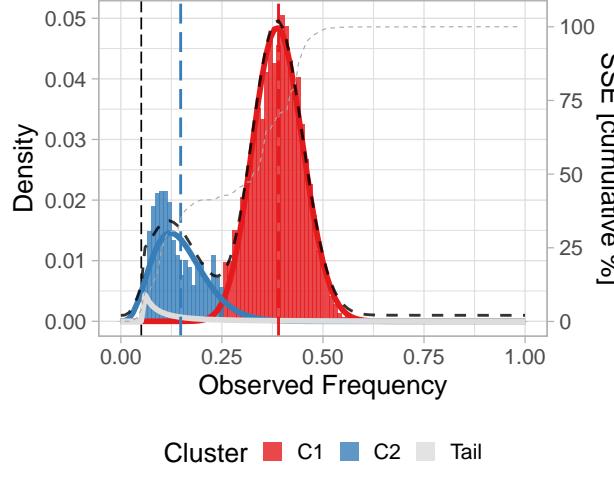
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



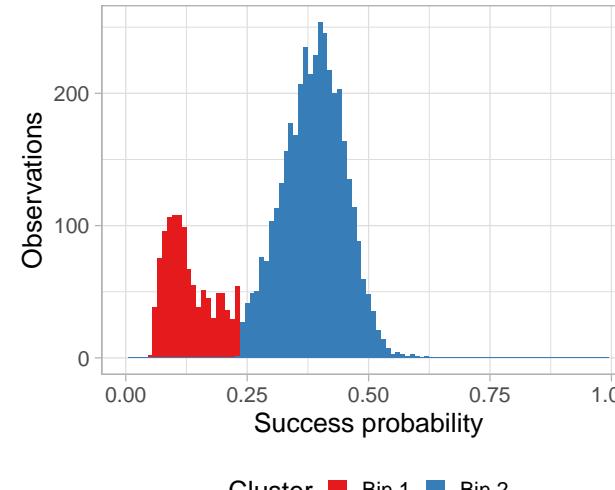
Karyotype: 1:1

N = 5034; Tail 2.94%, C2 22.54%, C1 74.52%



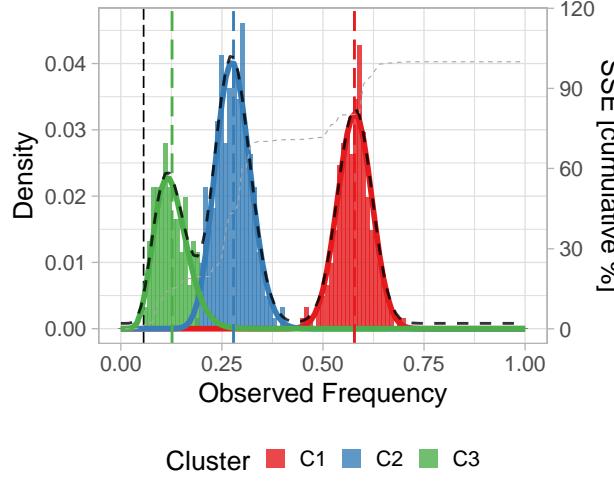
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



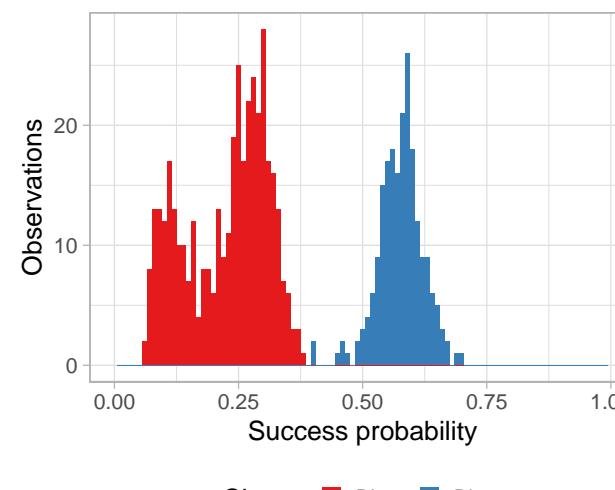
Karyotype: 2:1

N = 607; Tail 0%, C3 22.48%, C1 34.29%, C2



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

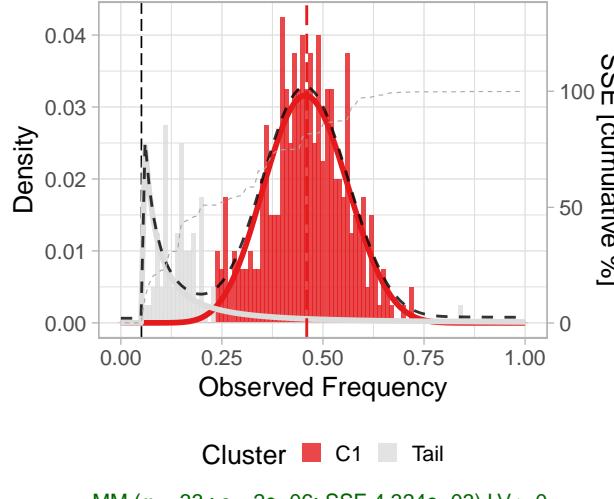
2:2

161206_HMFregCPCT_FR13271991_FR12246153_CPCT02040051

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

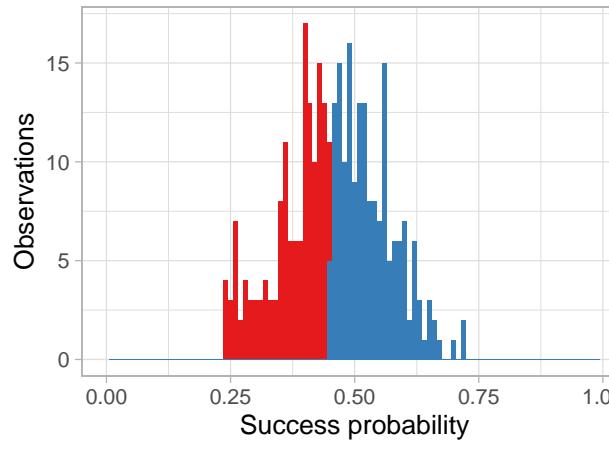
N = 400; Tail 19.74%, C1 80.26%



MM ($\omega = 33$; $\epsilon = 2e-06$; SSE 4.324e-03) LV > 0

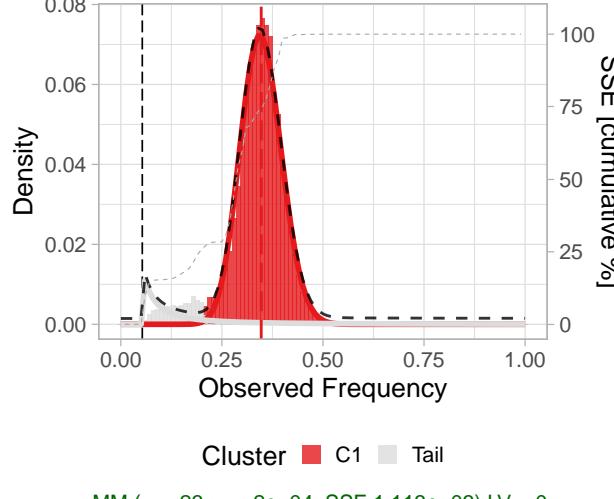
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

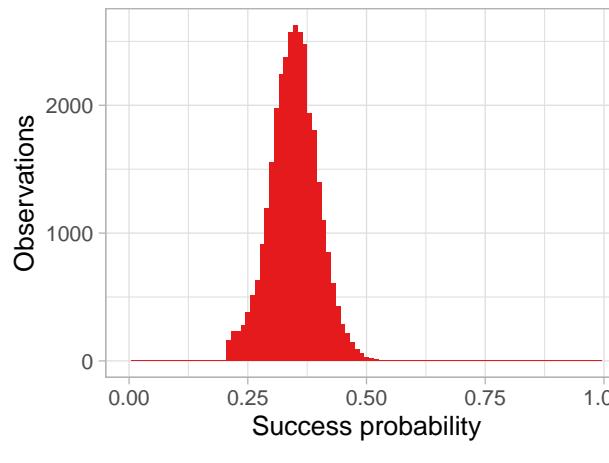
N = 34368; Tail 8.19%, C1 91.81%



MM ($\omega = 23$; $\epsilon = 2e-04$; SSE 1.113e-03) LV > 0

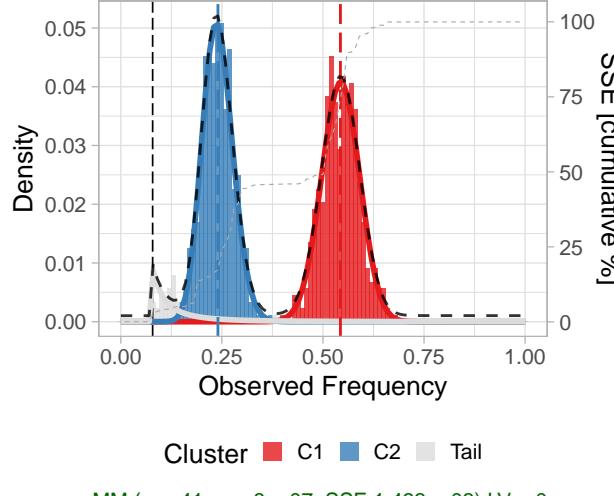
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

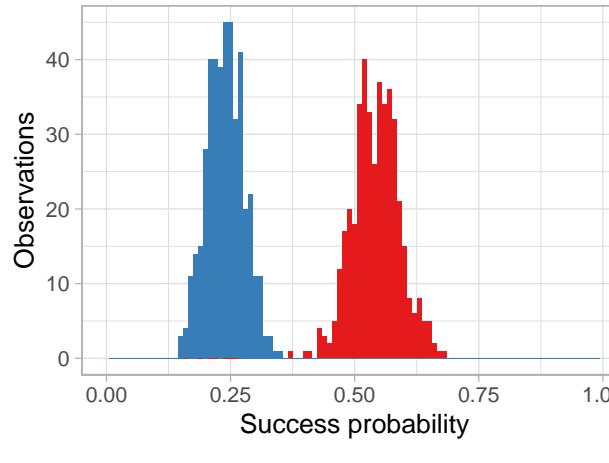
N = 885; Tail 4.26%, C2 47.65%, C1 48.1%



MM ($\omega = 41$; $\epsilon = 8e-07$; SSE 1.433e-03) LV > 0

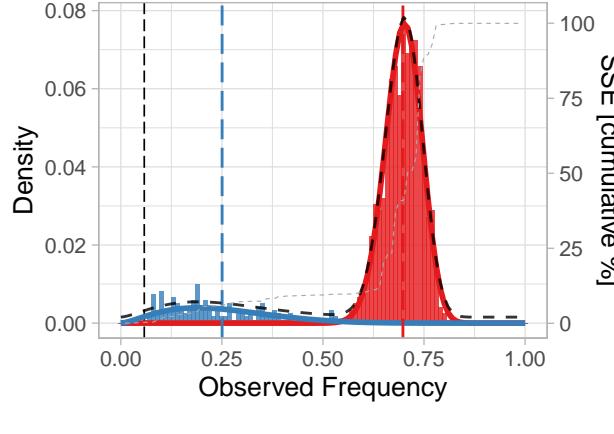
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

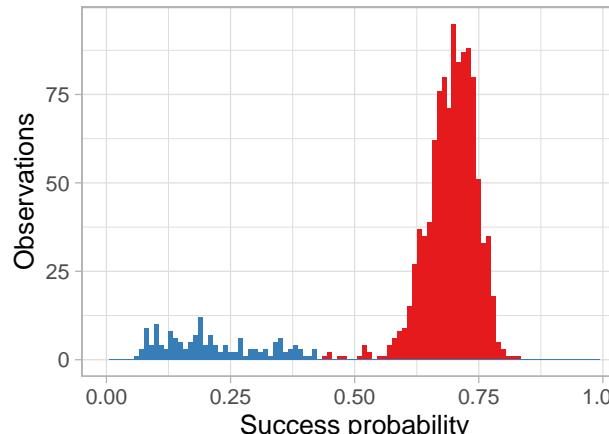
N = 1217; Tail 0%, C2 12.61%, C1 87.39%



MM ($\omega = 120$; $\epsilon = 7e-06$; SSE 1.597e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

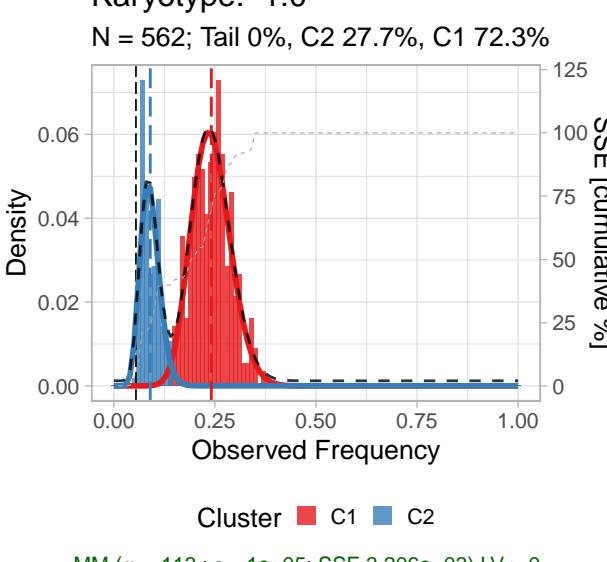
2:2

161211_HMFregCPCT_FR12245845_FR12246150_CPCT02040055

ONLY SNVs (min 150 – max 50000)

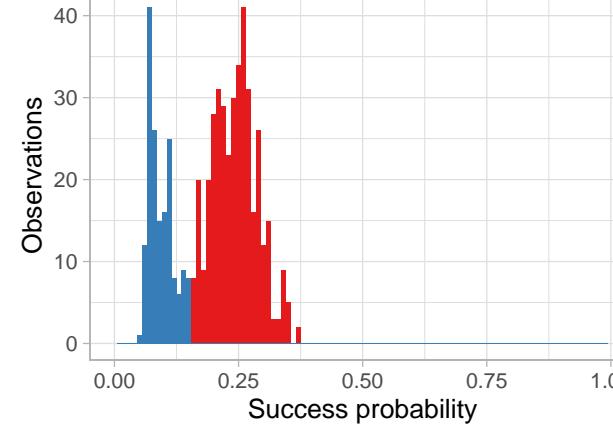
Karyotype: 1:0

N = 562; Tail 0%, C2 27.7%, C1 72.3%



Karyotype: 1:0

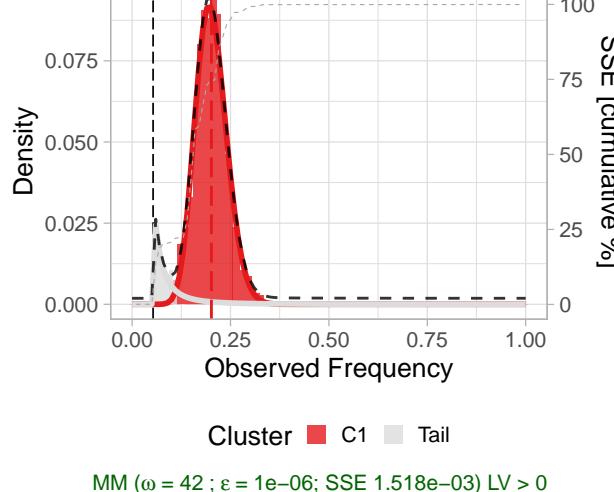
$K_B = 2, K_{BB} = 0$



MM ($\omega = 113$; $\epsilon = 1e-05$; SSE 3.206e-03) LV > 0

Karyotype: 1:1

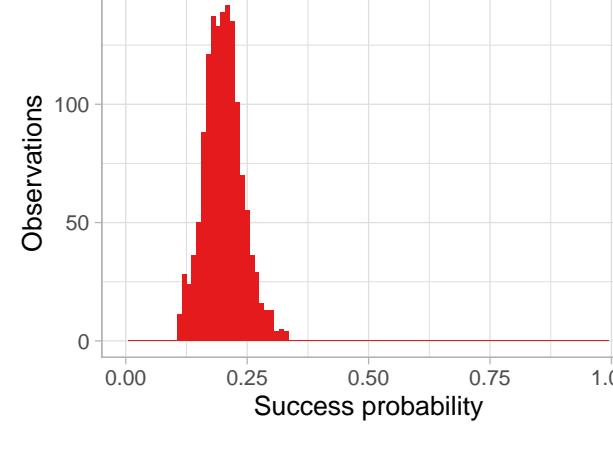
N = 1510; Tail 9.7%, C1 90.3%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

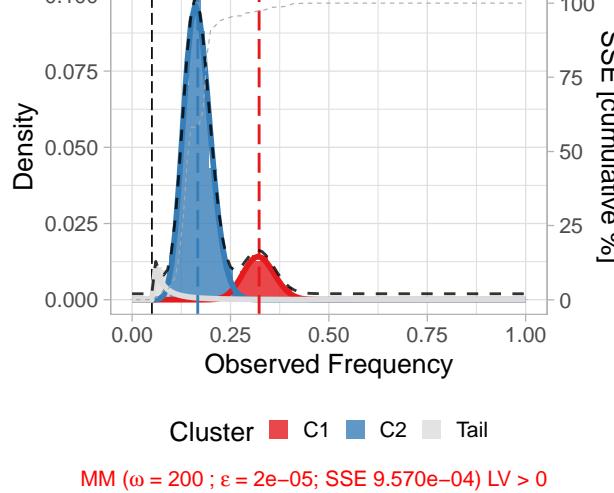
$K_B = 1, K_{BB} = 0$



MM ($\omega = 42$; $\epsilon = 1e-06$; SSE 1.518e-03) LV > 0

Karyotype: 2:1

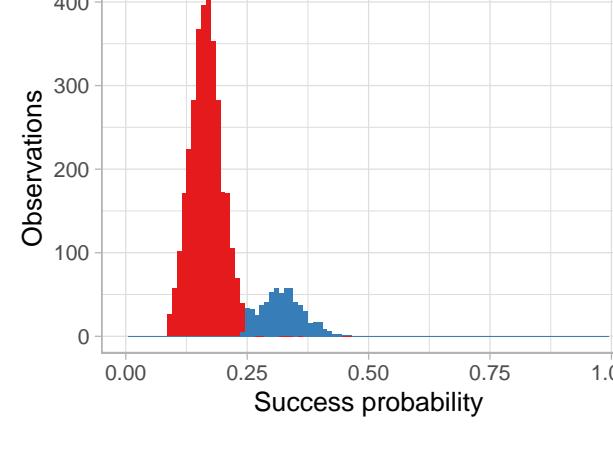
N = 4007; Tail 4.81%, C1 14.01%, C2 81.18%



Cluster ■ Bin 1

Karyotype: 2:1

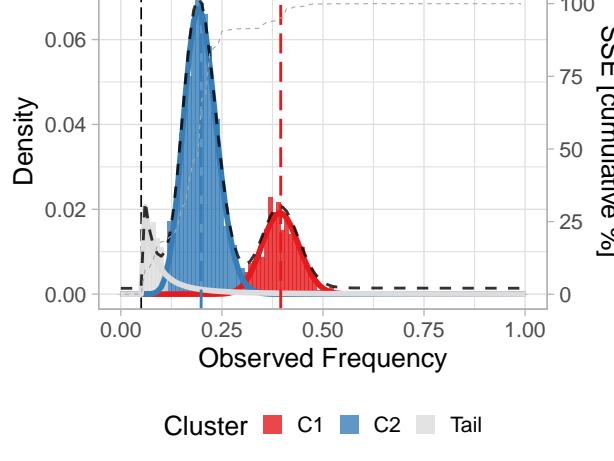
$K_B = 2, K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 2e-05$; SSE 9.570e-04) LV > 0

Karyotype: 2:0

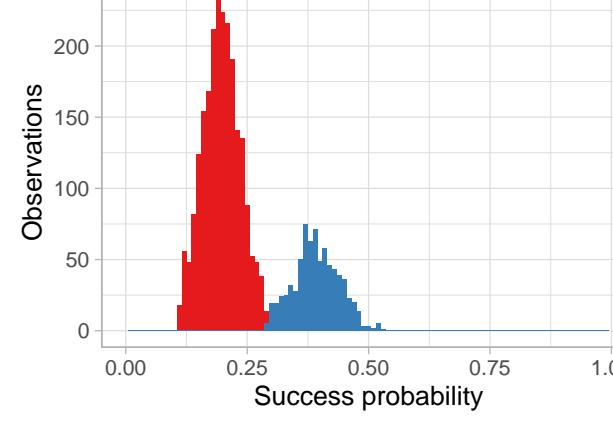
N = 3274; Tail 11.01%, C1 21.7%, C2 67.29%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

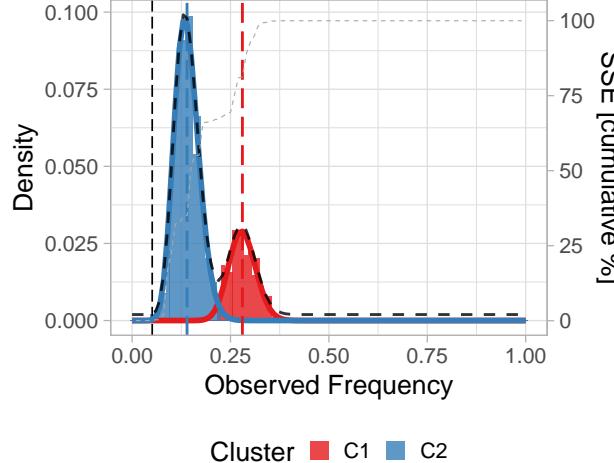
$K_B = 2, K_{BB} = 0$



MM ($\omega = 44$; $\epsilon = 7e-06$; SSE 1.309e-03) LV > 0

Karyotype: 2:2

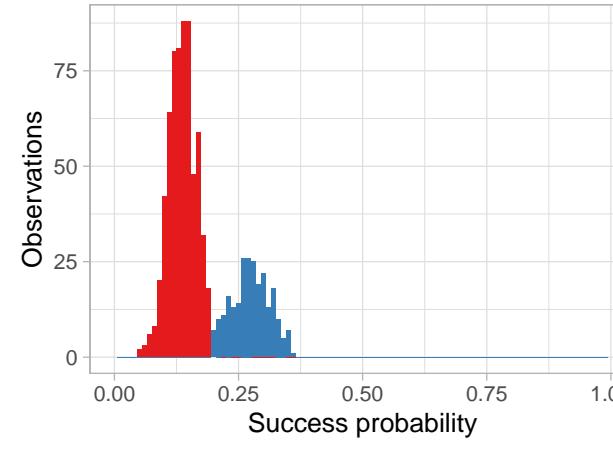
N = 890; Tail 0%, C1 24.82%, C2 75.18%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



MM ($\omega = 54$; $\epsilon = 4e-06$; SSE 2.084e-03) LV > 0

Cluster ■ Bin 1 ■ Bin 2

Cluster ■ C1 ■ C2

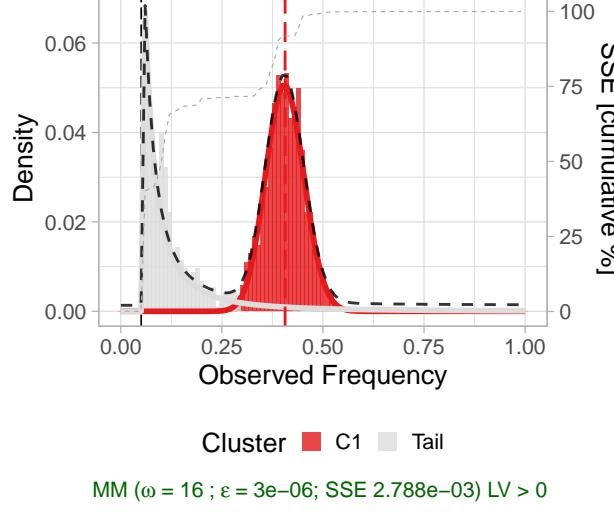
161211_HMFregCPCT_FR12251643_FR12246144_CPCT02160009

ONLY SNVs (min 150 – max 50000)

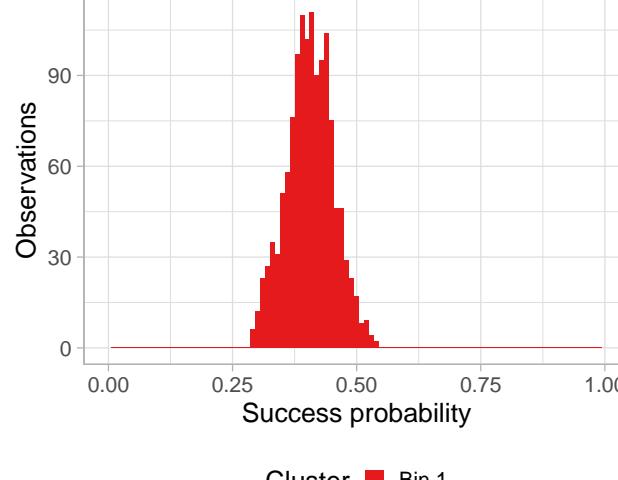
1:0

1:0

Karyotype: 1:1
N = 2083; Tail 40.42%, C1 59.58%



Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

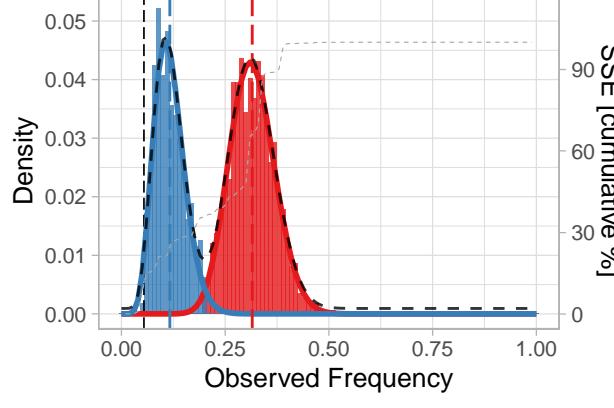
2:2

161211_HMFregCPCT_FR12251978_FR12246151_CPCT02040054

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 1743; Tail 0%, C2 41.66%, C1 58.34%



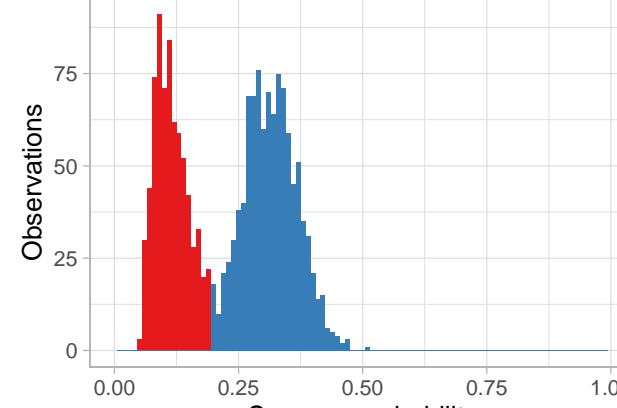
Karyotype: 1:0

N = 1743; Tail 0%, C2 41.66%, C1 58.34%

MM ($\omega = 67$; $\epsilon = 2e-05$; SSE 6.809e-04) LV > 0

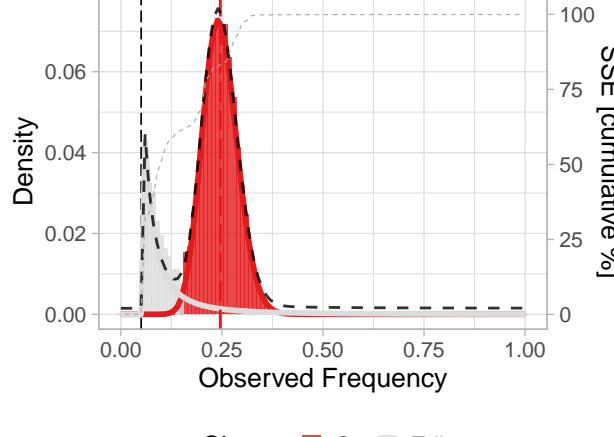
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

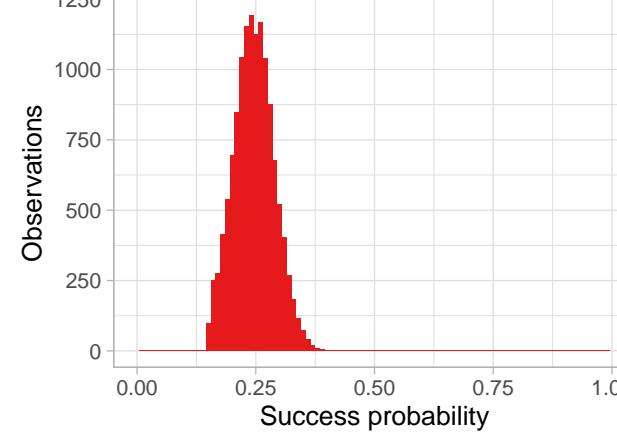
N = 16317; Tail 22.91%, C1 77.09%



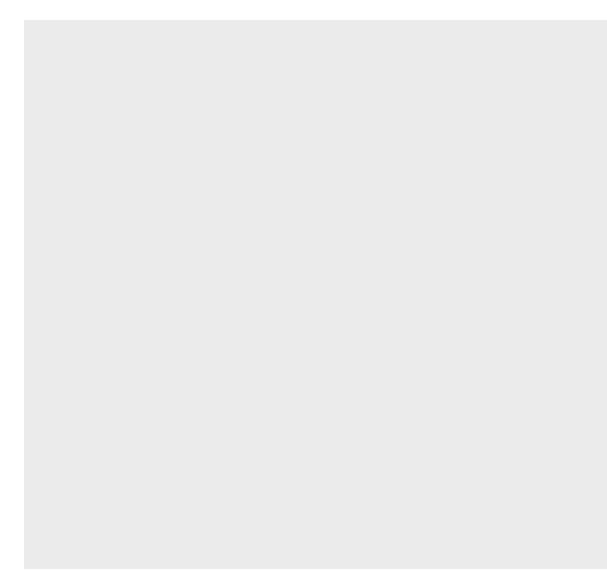
MM ($\omega = 31$; $\epsilon = 4e-05$; SSE 1.703e-03) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$

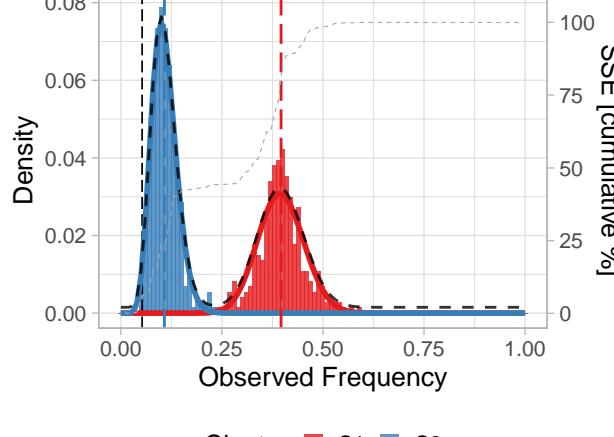


2:1



Karyotype: 2:0

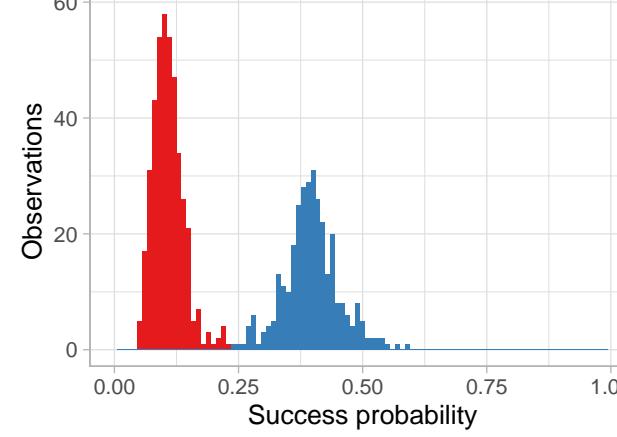
N = 736; Tail 0%, C1 43.87%, C2 56.13%



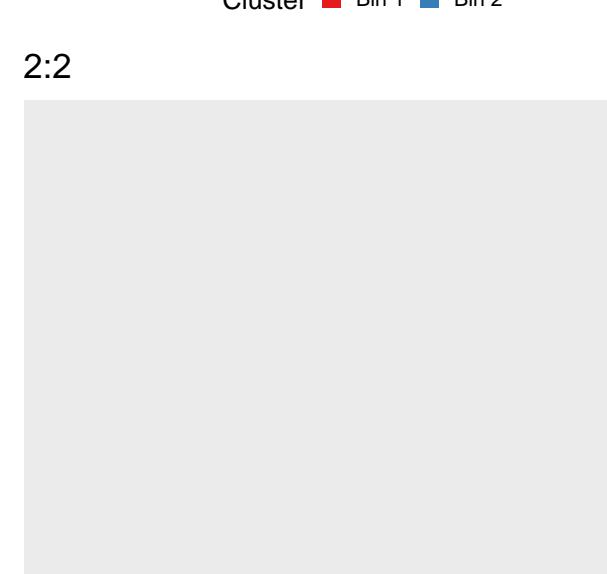
MM ($\omega = 28$; $\epsilon = 5e-05$; SSE 1.937e-03) LV > 0

Karyotype: 2:0

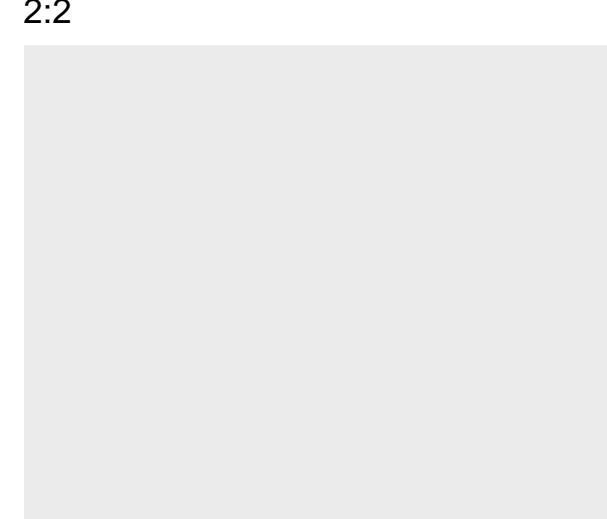
$K_B = 2, K_{BB} = 0$



2:1

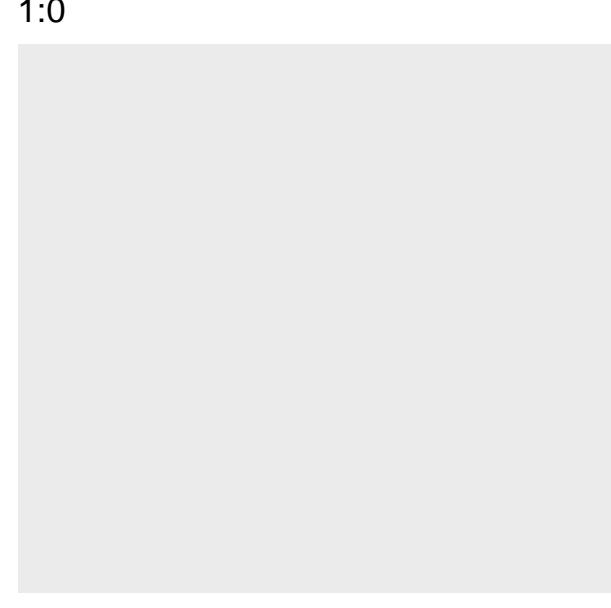
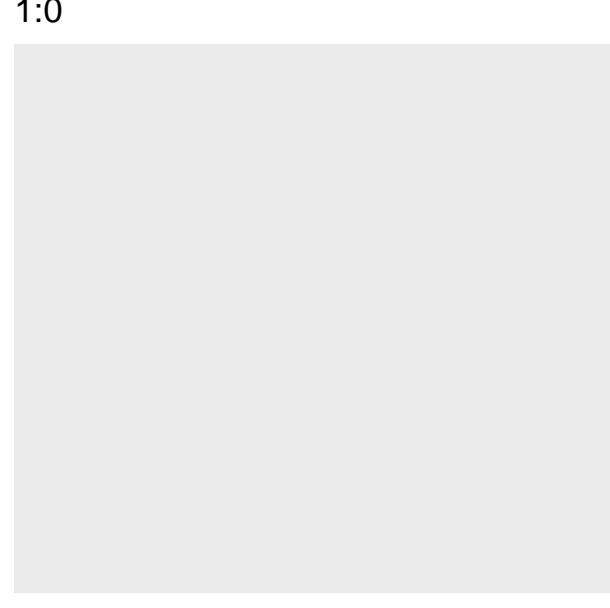


2:2

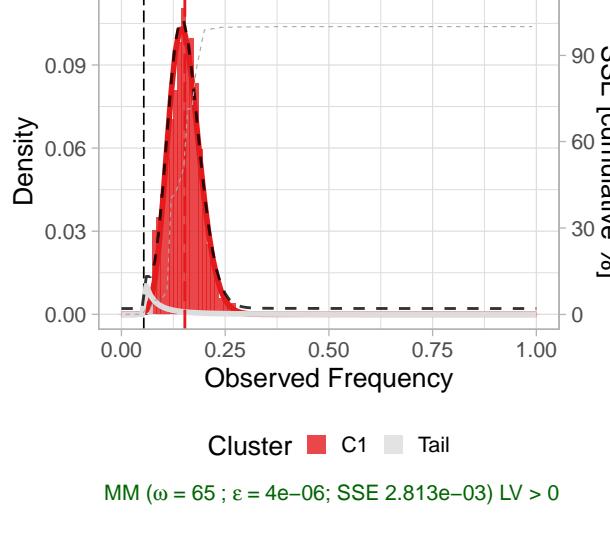


161211_HMFregCPCT_FR12254216_FR12246147_CPCT02160012

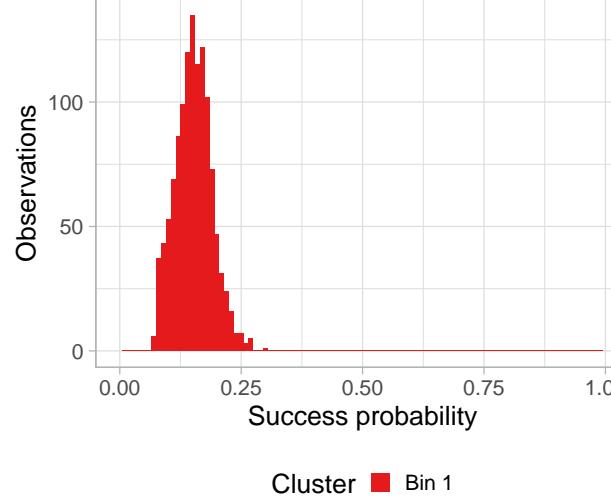
ONLY SNVs (min 150 – max 50000)



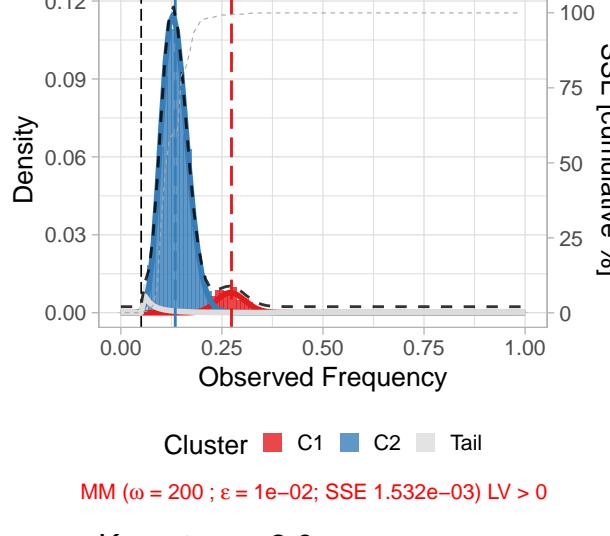
Karyotype: 1:1
N = 1223; Tail 4.38%, C1 95.62%



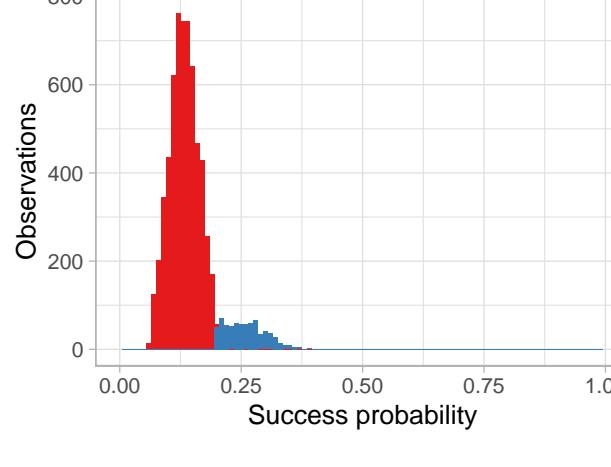
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



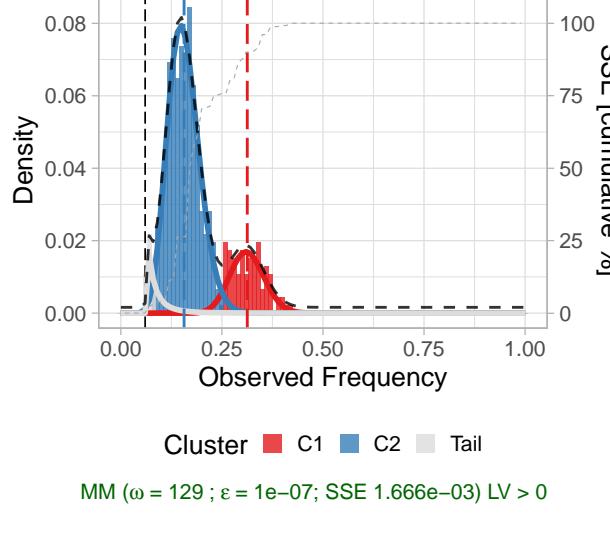
Karyotype: 2:1
N = 6824; Tail 2.74%, C1 6.78%, C2 90.48%



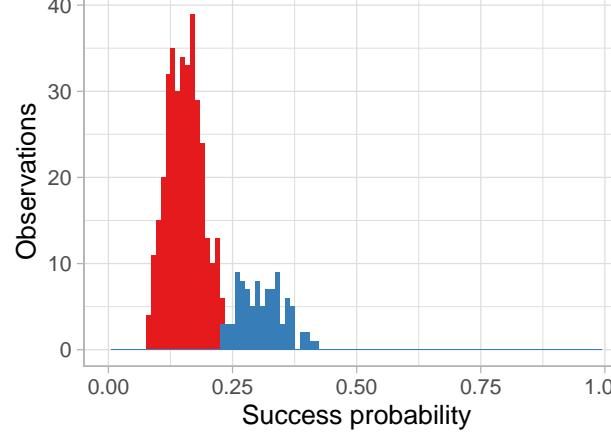
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



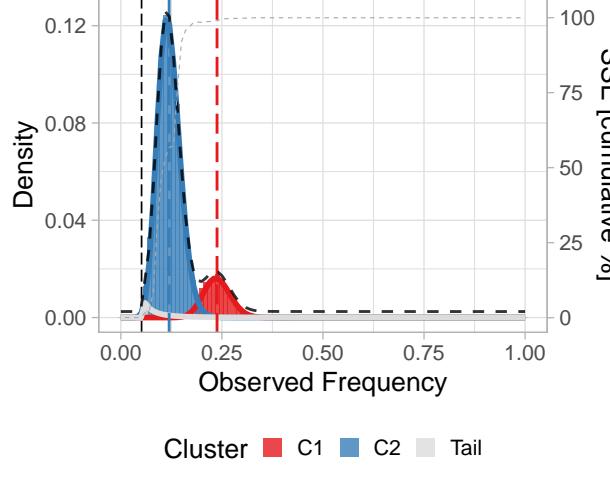
Karyotype: 2:0
N = 462; Tail 5.83%, C1 17.82%, C2 76.35%



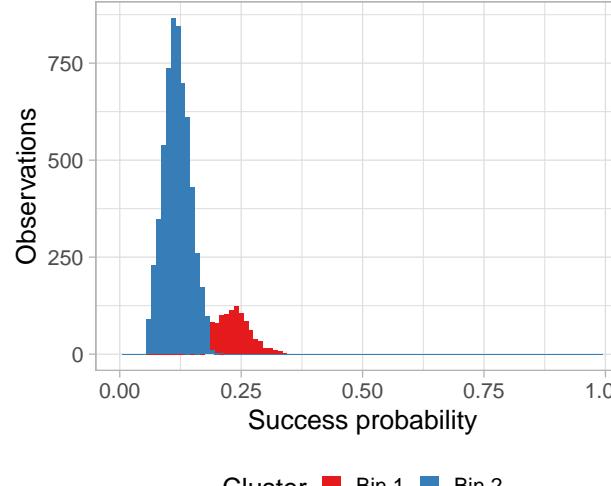
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 6959; Tail 2.66%, C1 13.22%, C2 84.13%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

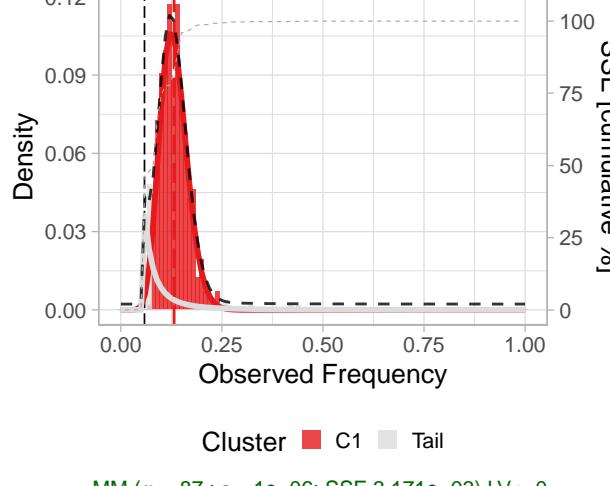


161211_HMFregCPCT_FR13275505_FR12246154_CPCT02330006

ONLY SNVs (min 150 – max 50000)

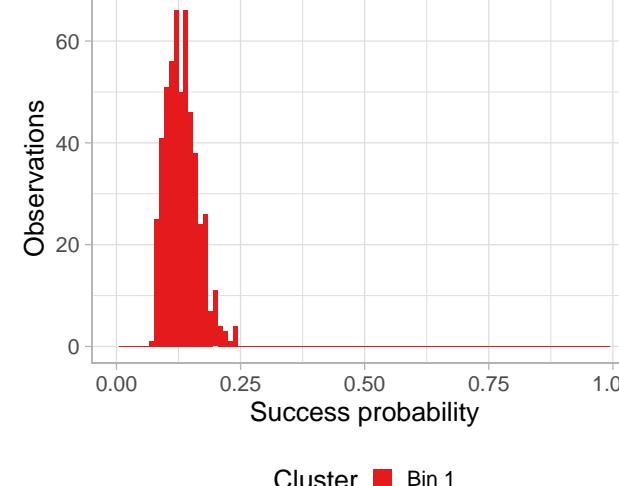
Karyotype: 1:0

N = 563; Tail 12.17%, C1 87.83%



Karyotype: 1:0

$K_B = 1, K_{BB} = 0$

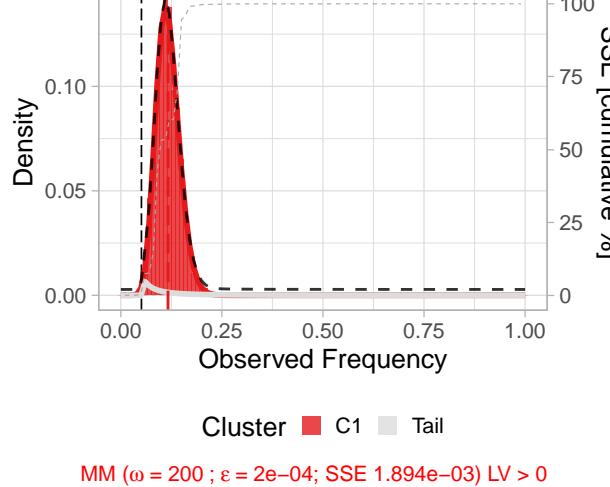


Cluster ■ C1 ■ Tail

MM ($\omega = 87$; $\epsilon = 1e-06$; SSE $3.171e-03$) LV > 0

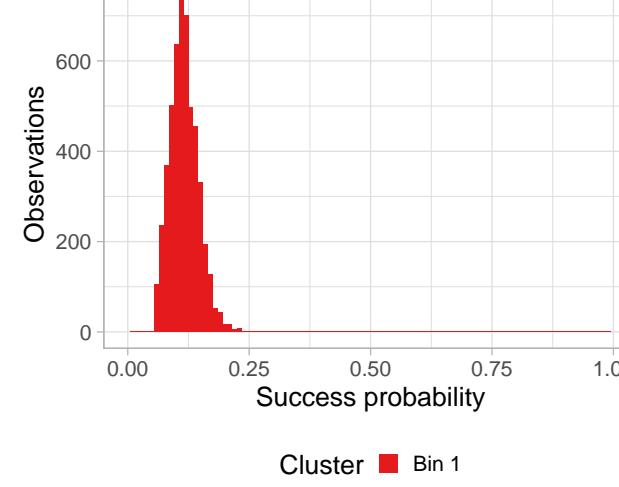
Karyotype: 1:1

N = 5083; Tail 3.66%, C1 96.34%



Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Cluster ■ C1 ■ Tail

MM ($\omega = 200$; $\epsilon = 2e-04$; SSE $1.894e-03$) LV > 0

2:1

2:1

2:0

2:0

2:2

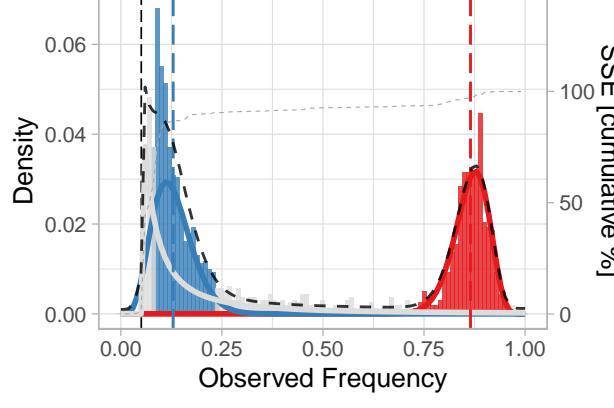
2:2

161213_HMFregCPCT_FR12245844_FR12246201_CPCT02090003

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

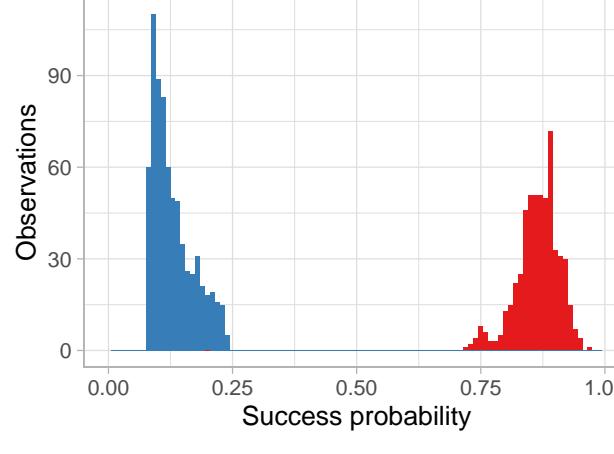
N = 1616; Tail 31.65%, C1 33.49%, C2 34.85%



MM ($\omega = 200$; $\epsilon = 2e-04$; SSE 4.757e-03) LV > 0

Karyotype: 1:0

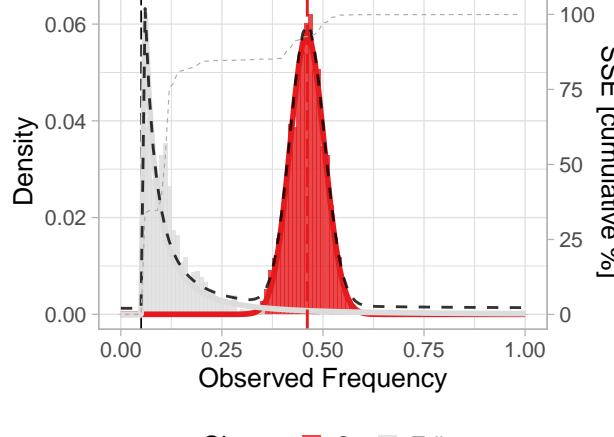
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 2e-04$; SSE 4.757e-03) LV > 0

Karyotype: 1:1

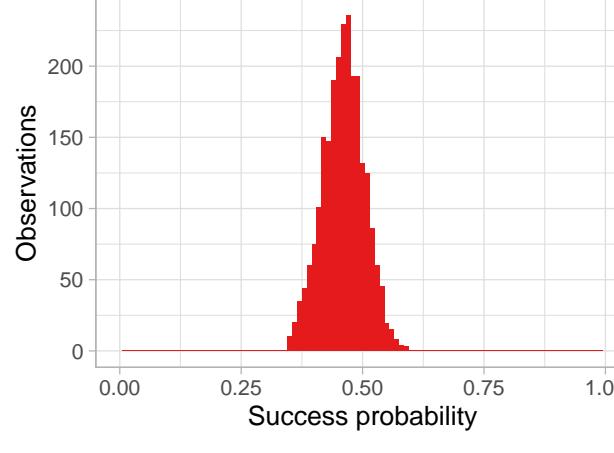
N = 3807; Tail 39.12%, C1 60.88%



MM ($\omega = 12$; $\epsilon = 6e-07$; SSE 2.214e-03) LV > 0

Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



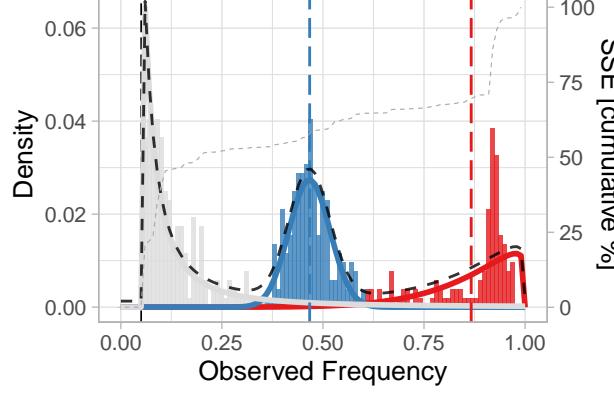
MM ($\omega = 12$; $\epsilon = 6e-07$; SSE 2.214e-03) LV > 0

2:1

2:1

Karyotype: 2:0

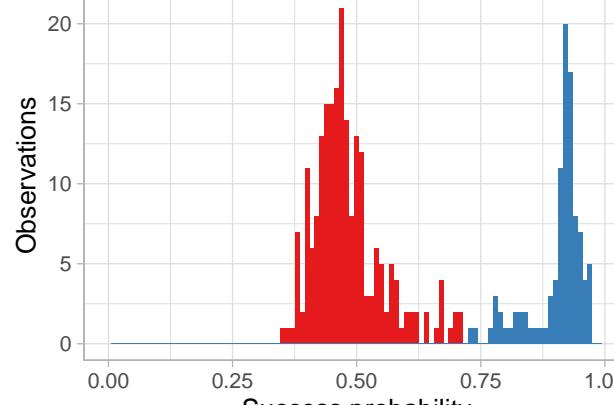
N = 521; C1 21.58%, C2 34.56%, Tail 43.86%



MM ($\omega = 200$; $\epsilon = 1e-02$; SSE 5.388e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 200$; $\epsilon = 1e-02$; SSE 5.388e-03) LV > 0

2:2

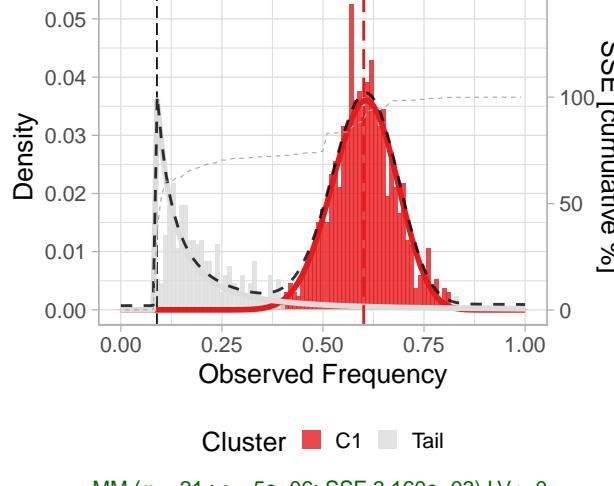
2:2

161213_HMFregCPCT_FR12251554_FR12246195_CPCT02140028

ONLY SNVs (min 150 – max 50000)

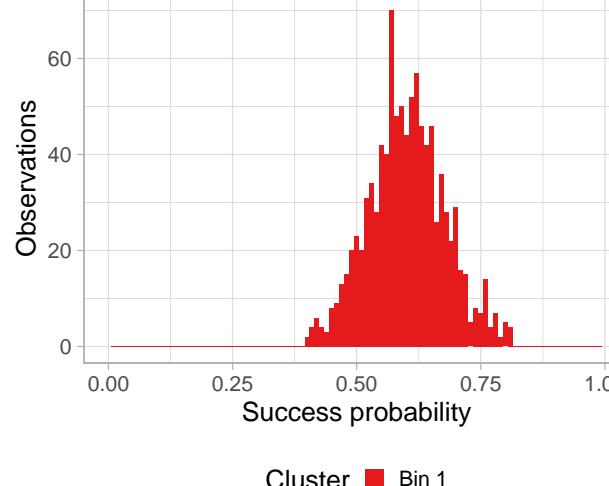
Karyotype: 1:0

N = 1332; Tail 27.89%, C1 72.11%



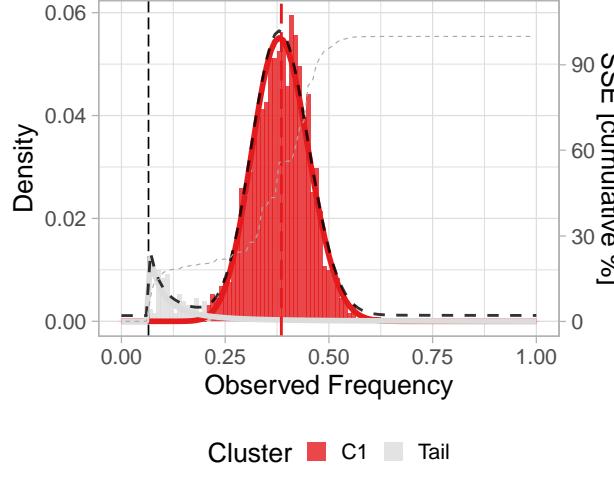
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



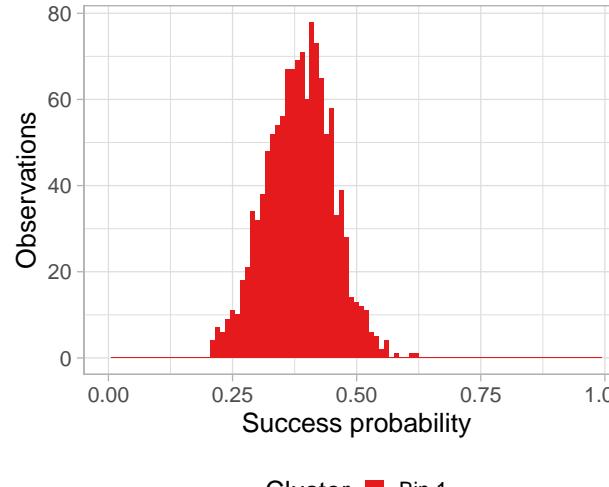
Karyotype: 1:1

N = 1312; Tail 7.42%, C1 92.58%



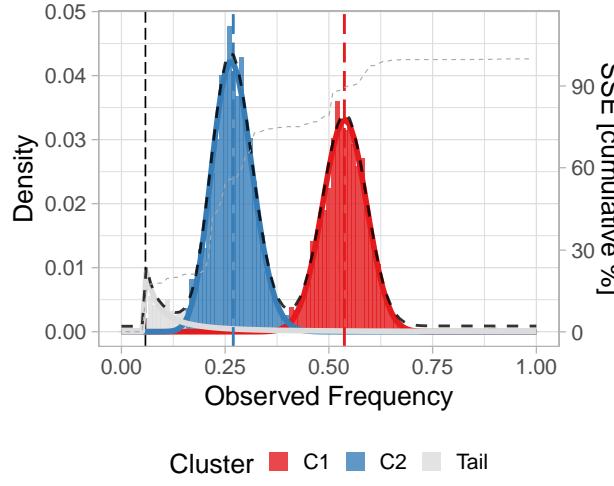
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



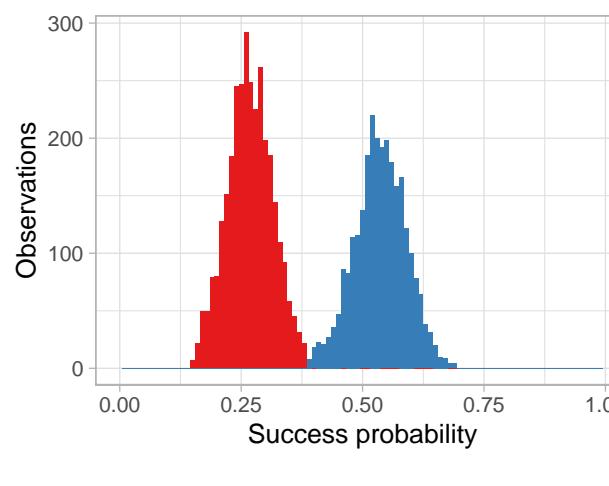
Karyotype: 2:1

N = 6114; Tail 5.56%, C1 43.29%, C2 51.15%



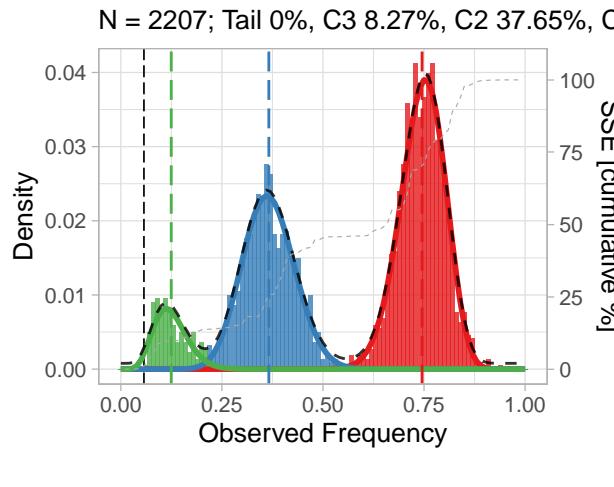
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



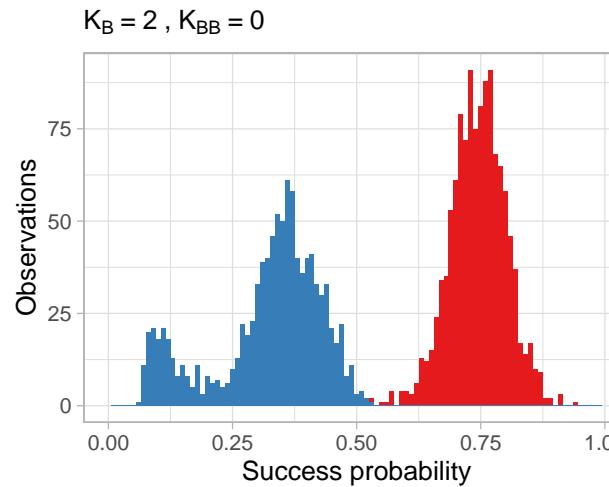
Karyotype: 2:0

N = 2207; Tail 0%, C3 8.27%, C2 37.65%, C1



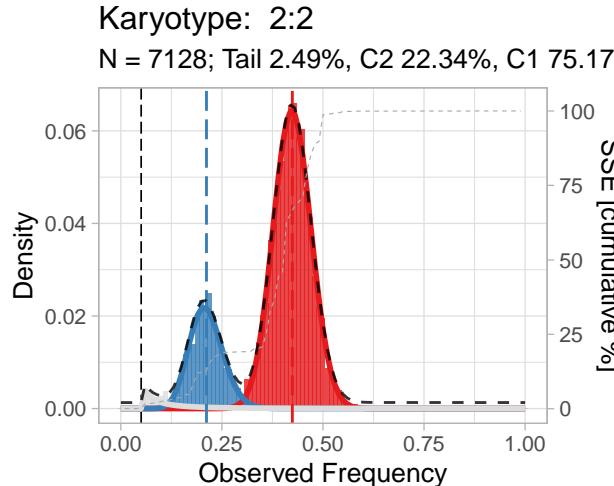
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



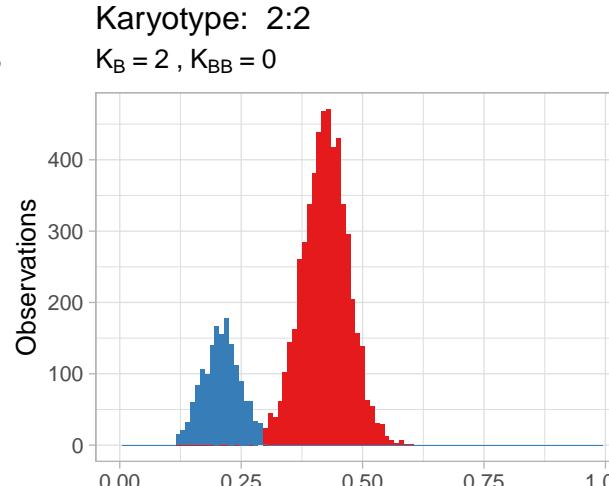
Karyotype: 2:2

N = 7128; Tail 2.49%, C2 22.34%, C1 75.17%



Karyotype: 2:2

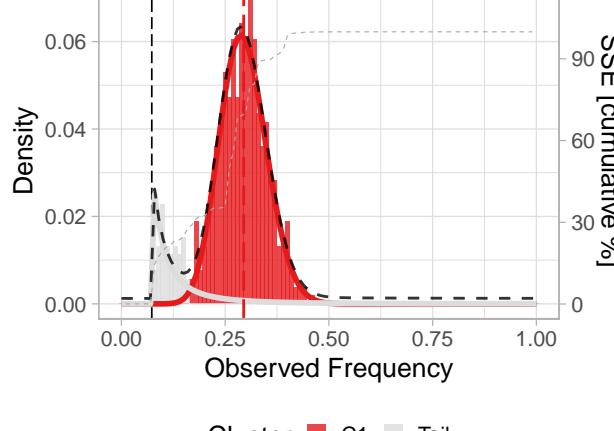
$K_B = 2, K_{BB} = 0$



161213_HMFregCPCT_FR12251574_FR12246199_CPCT02030289

ONLY SNVs (min 150 – max 50000)

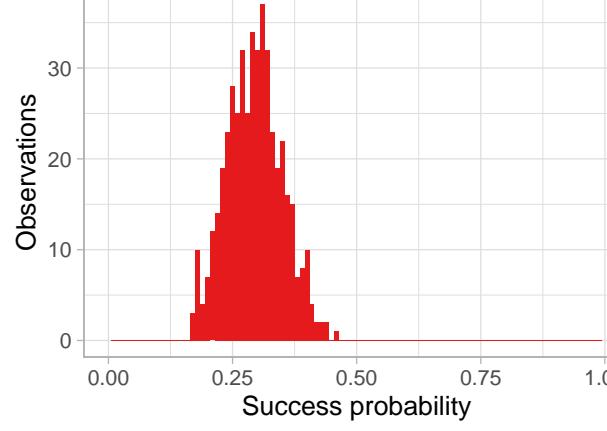
Karyotype: 1:0
N = 529; Tail 13.73%, C1 86.27%



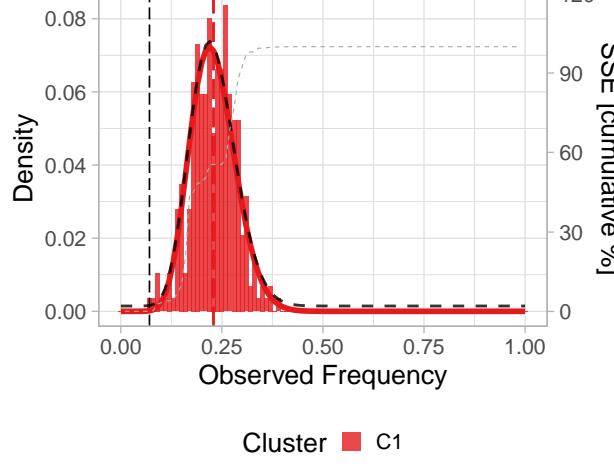
MM ($\omega = 31$; $\varepsilon = 2e-06$; SSE $2.574e-03$) LV > 0

Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



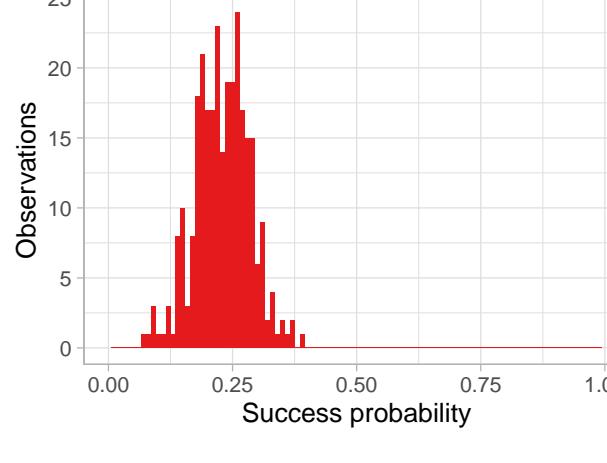
Karyotype: 1:1
N = 287; Tail 0%, C1 100%



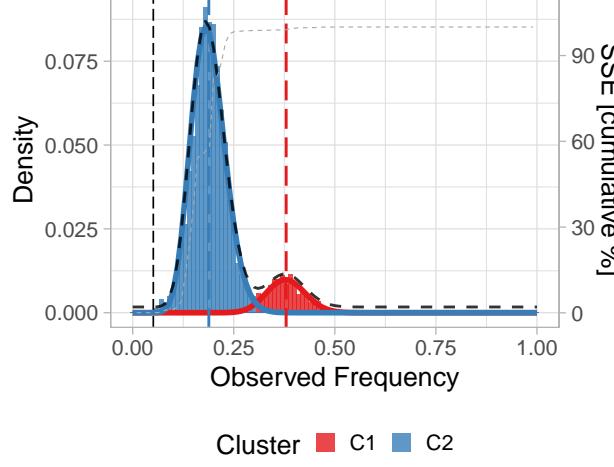
MM ($\omega = 1$; $\varepsilon = 0e+00$; SSE $3.586e-03$) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



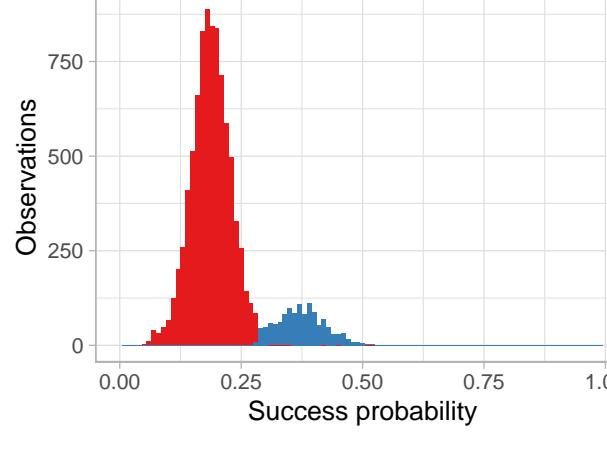
Karyotype: 2:1
N = 9738; Tail 0%, C1 11.62%, C2 88.38%



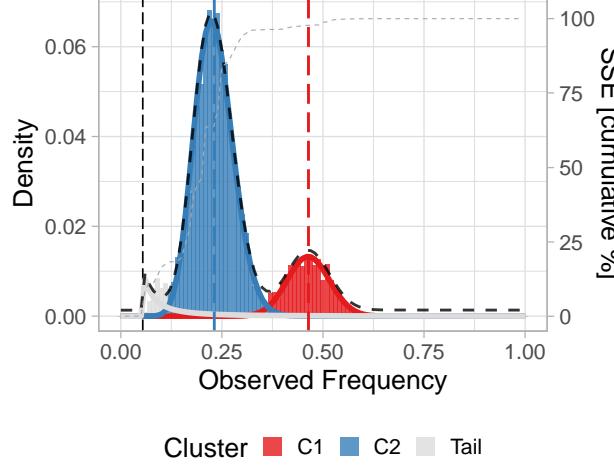
MM ($\omega = 34$; $\varepsilon = 2e-04$; SSE $1.616e-03$) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



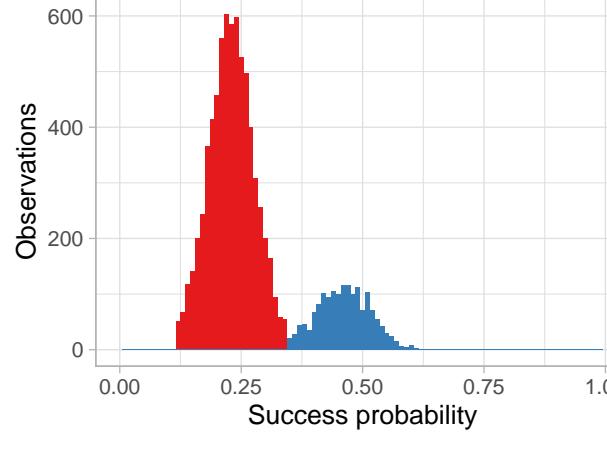
Karyotype: 2:0
N = 8869; Tail 4.53%, C1 17.23%, C2 78.24%



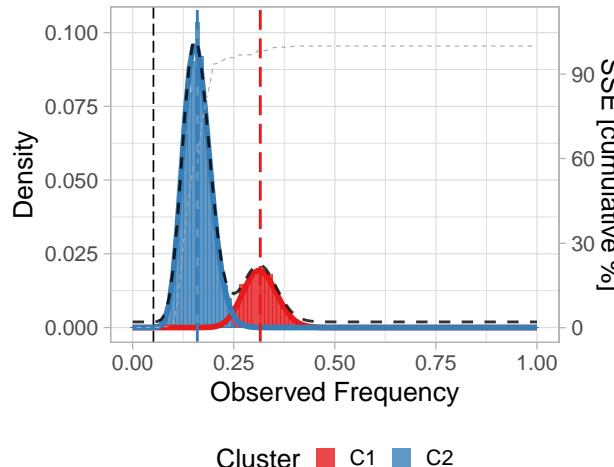
MM ($\omega = 30$; $\varepsilon = 5e-05$; SSE $7.026e-04$) LV > 0

Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



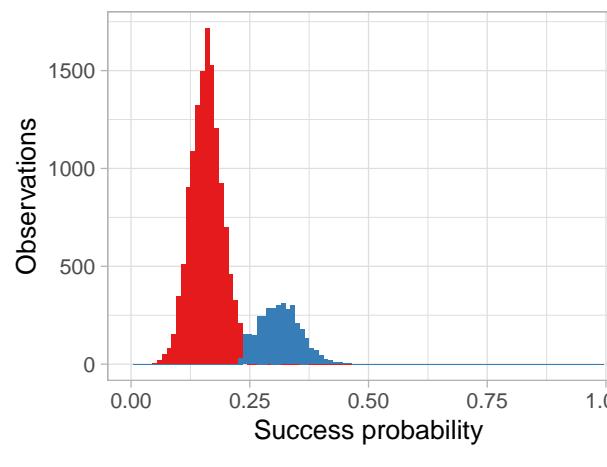
Karyotype: 2:2
N = 16558; Tail 0%, C1 20.1%, C2 79.9%



MM ($\omega = 155$; $\varepsilon = 1e-05$; SSE $1.015e-03$) LV > 0

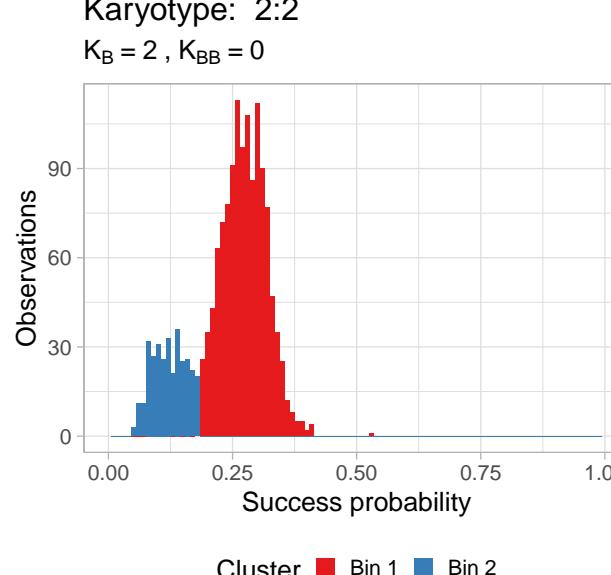
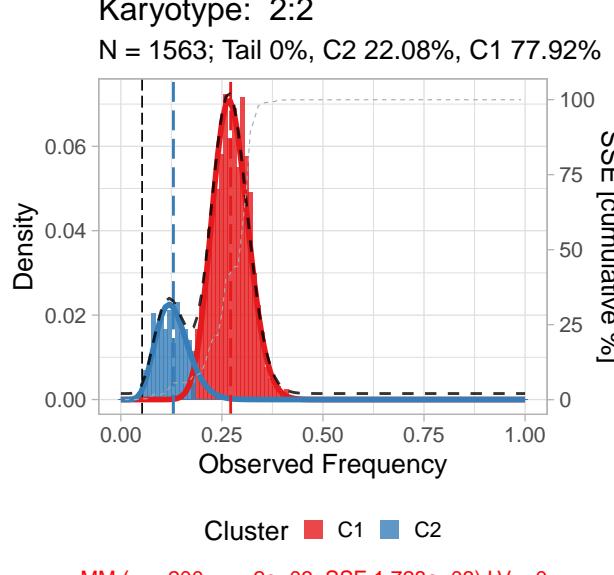
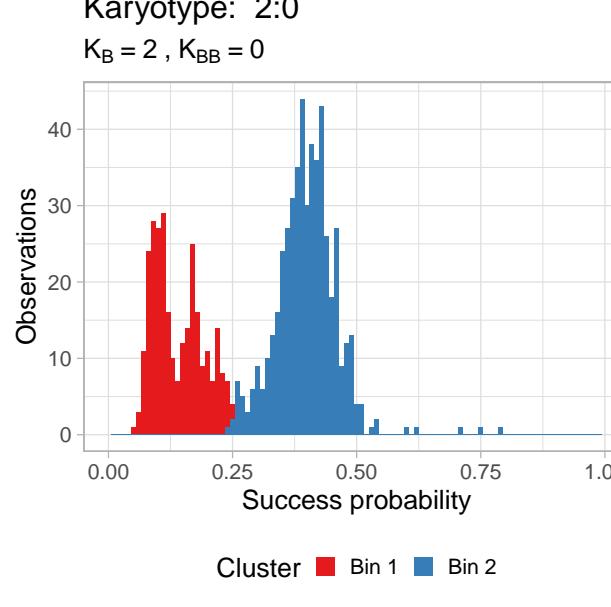
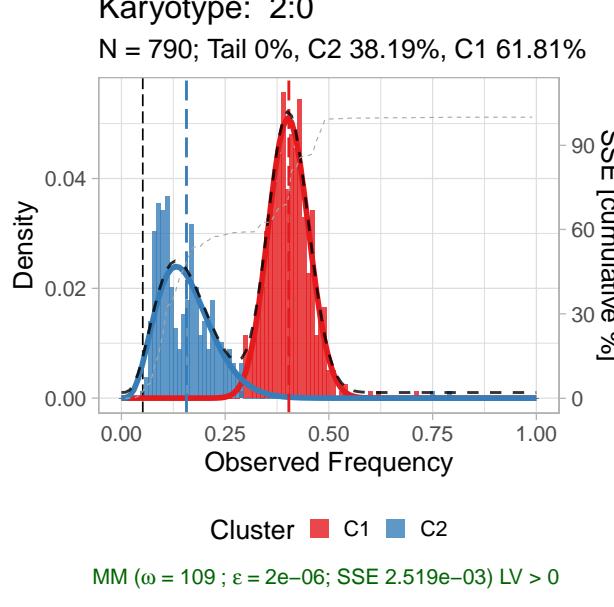
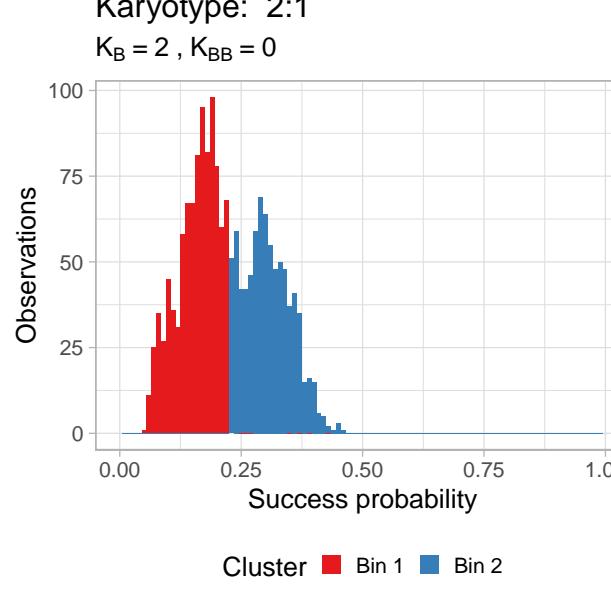
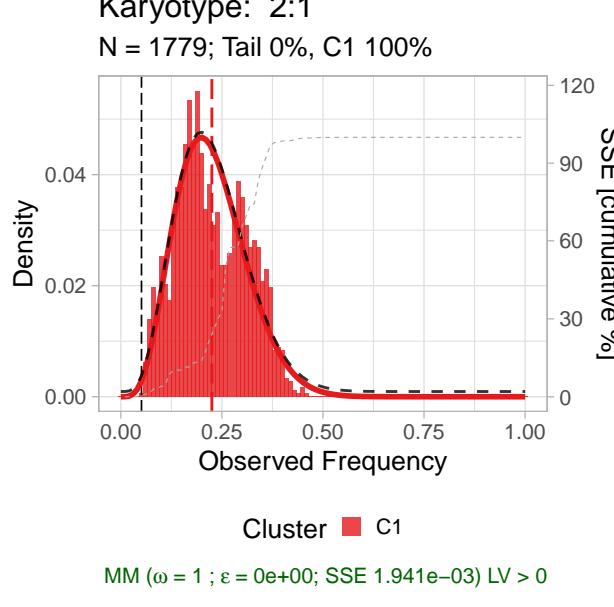
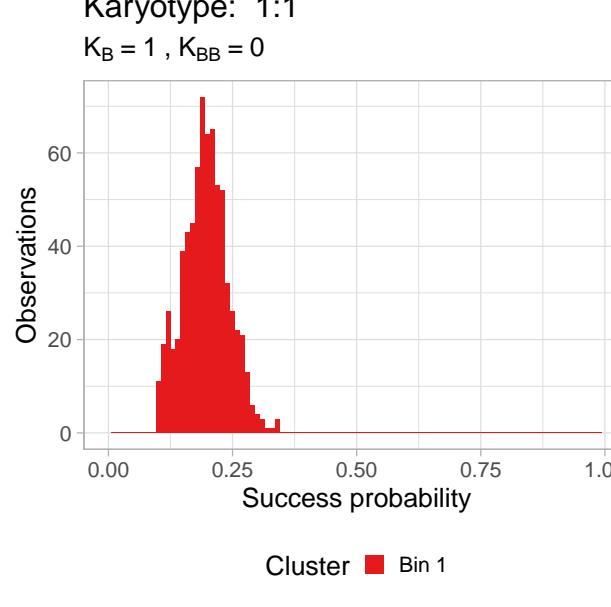
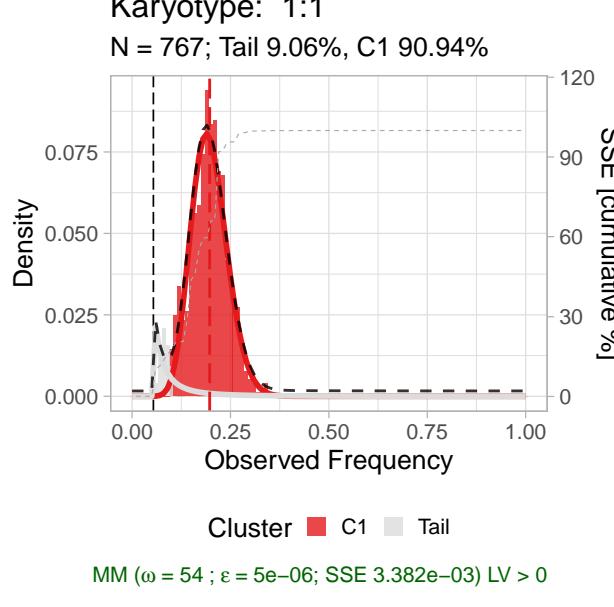
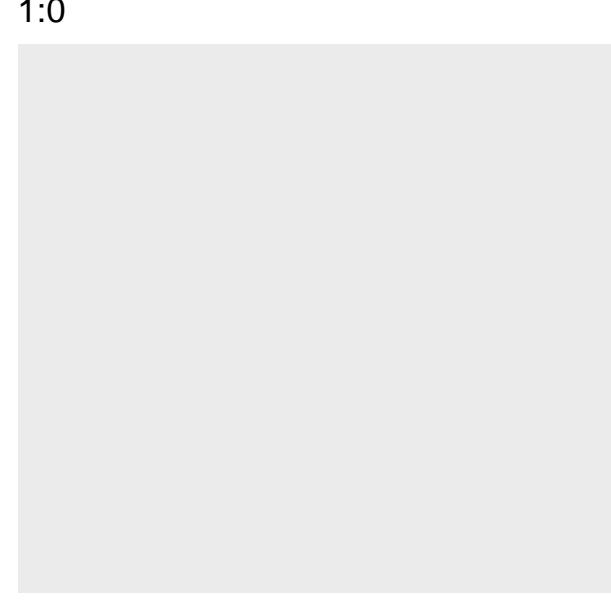
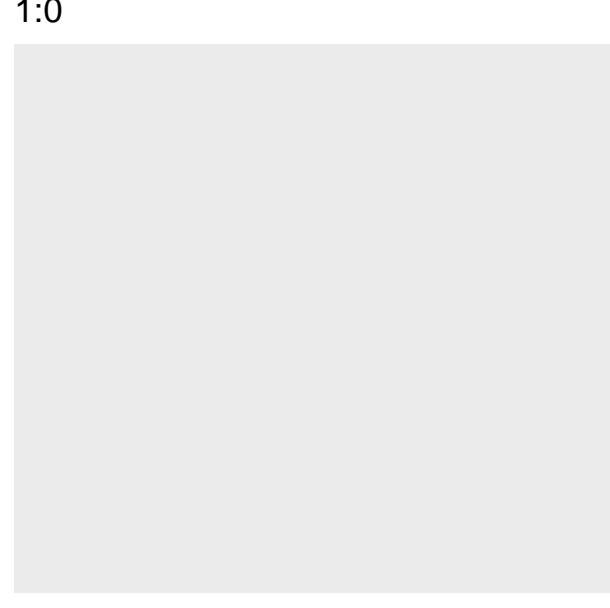
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



161213_HMFregCPCT_FR12251578_FR12246149_CPCT02140026

ONLY SNVs (min 150 – max 50000)

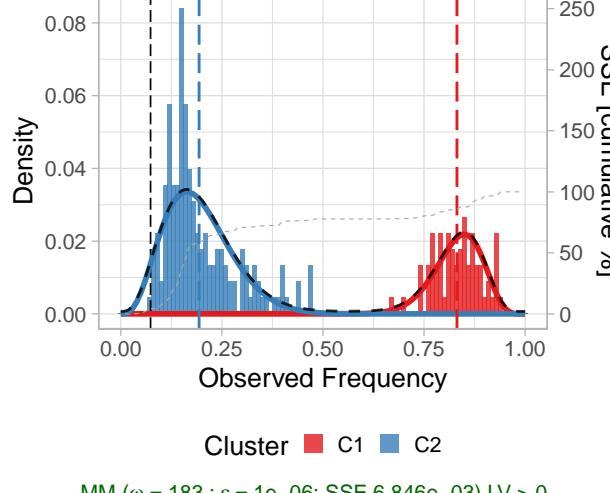


161213_HMFregCPCT_FR13275511_FR12246193_CPCT02140030

ONLY SNVs (min 150 – max 50000)

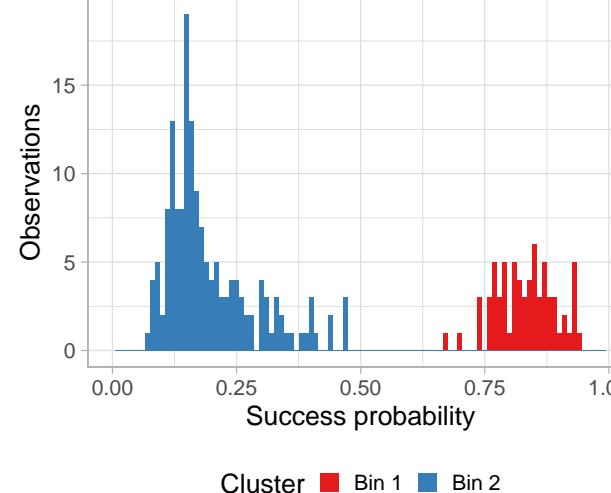
Karyotype: 1:0

N = 226; Tail 0%, C1 31.96%, C2 68.04%



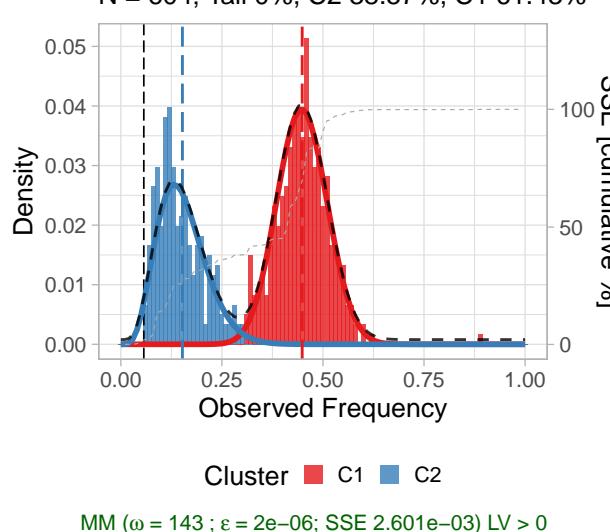
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



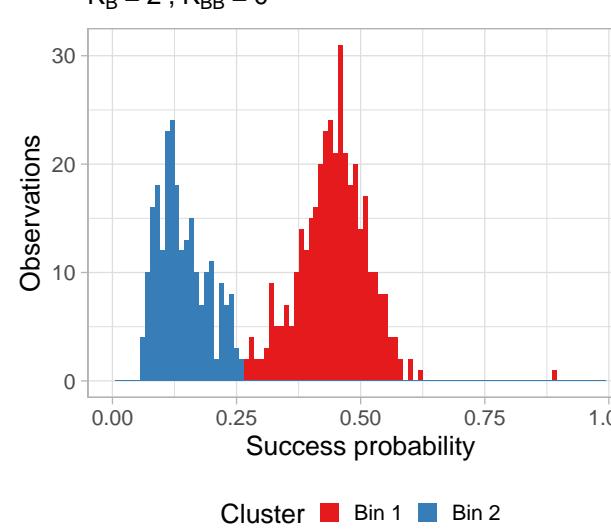
Karyotype: 1:1

N = 604; Tail 0%, C2 38.57%, C1 61.43%



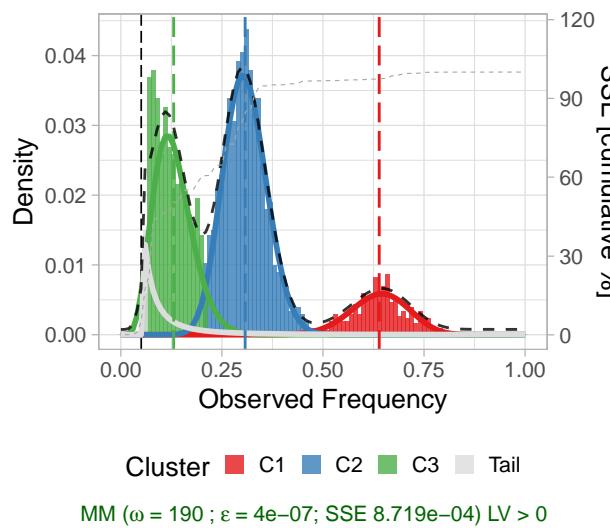
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



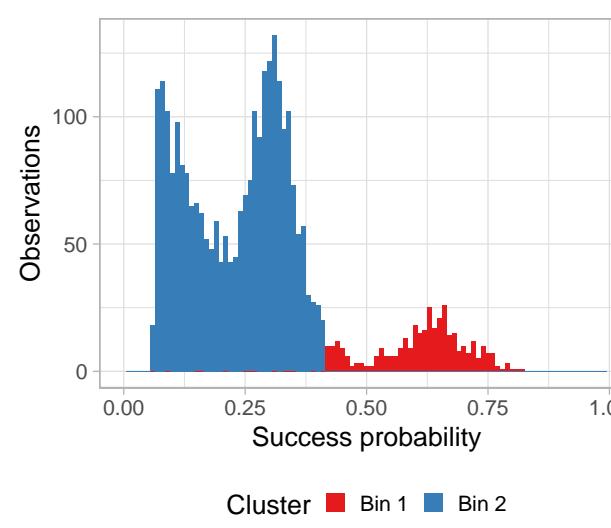
Karyotype: 2:1

N = 3012; Tail 6.67%, C1 10.45%, C3 32.94%



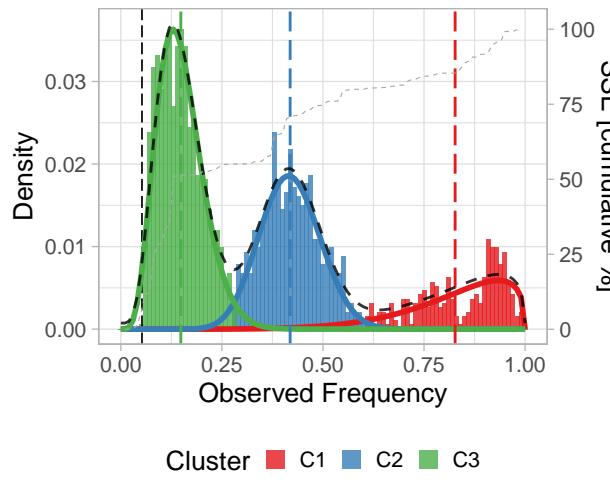
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



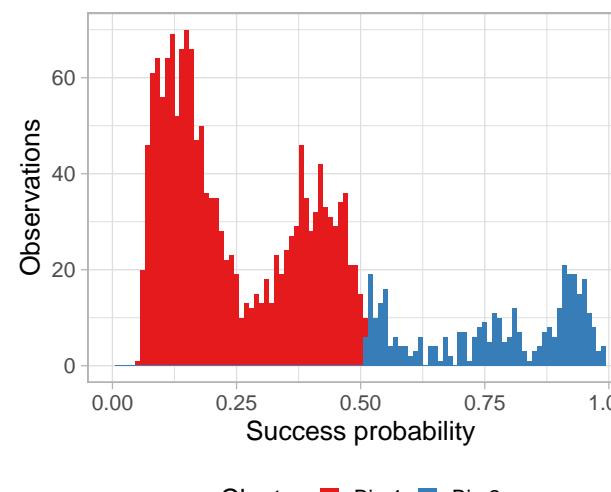
Karyotype: 2:0

N = 1927; Tail 0%, C1 15.39%, C2 34.81%, C:



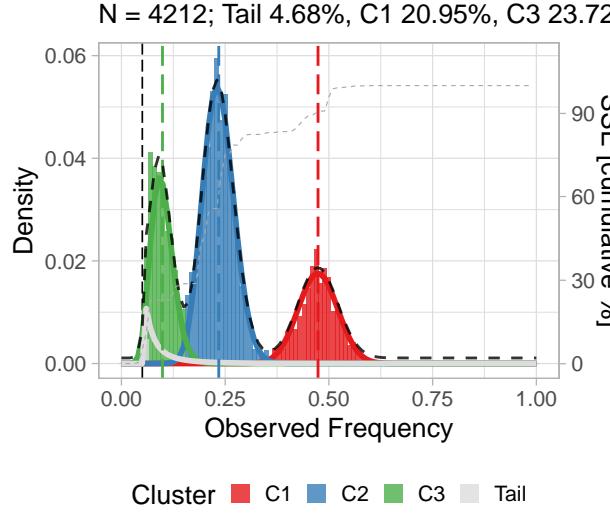
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



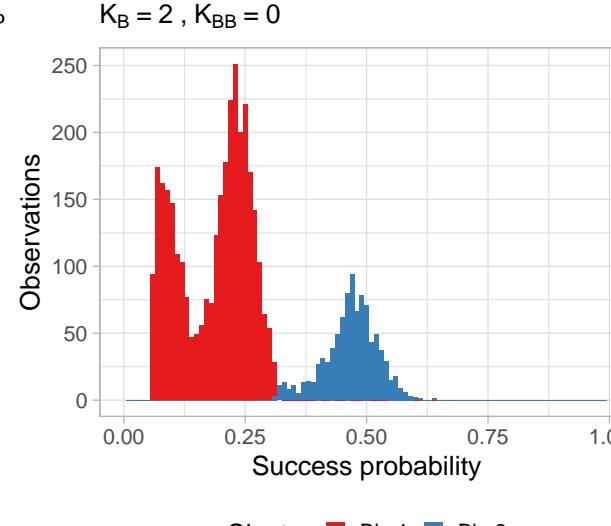
Karyotype: 2:2

N = 4212; Tail 4.68%, C1 20.95%, C3 23.72%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



MM ($\omega = 183$; $\epsilon = 1e-06$; SSE 6.846e-03) LV > 0

MM ($\omega = 143$; $\epsilon = 2e-06$; SSE 2.601e-03) LV > 0

MM ($\omega = 190$; $\epsilon = 4e-07$; SSE 8.719e-04) LV > 0

MM ($\omega = 200$; $\epsilon = 8e-04$; SSE 9.434e-04) LV > 0

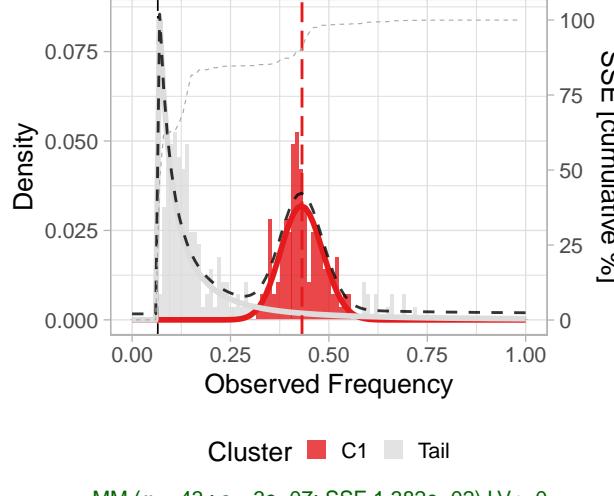
MM ($\omega = 200$; $\epsilon = 9e-05$; SSE 6.613e-04) LV > 0

161213_HMFregCPCT_FR13275516_FR12246194_CPCT02140029

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

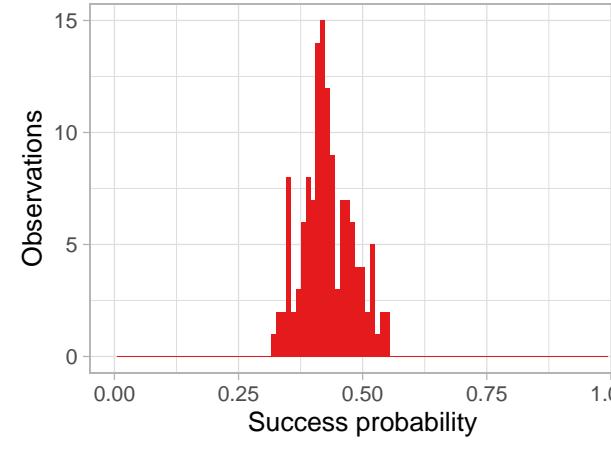
N = 286; C1 42.28%, Tail 57.72%



MM ($\omega = 43$; $\epsilon = 3e-07$; SSE 1.382e-02) LV > 0

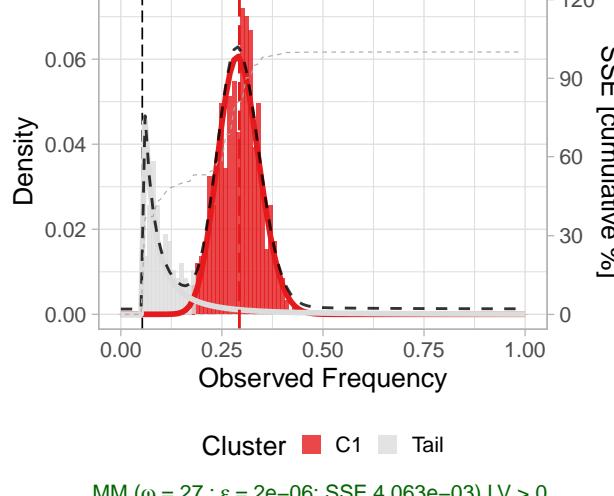
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

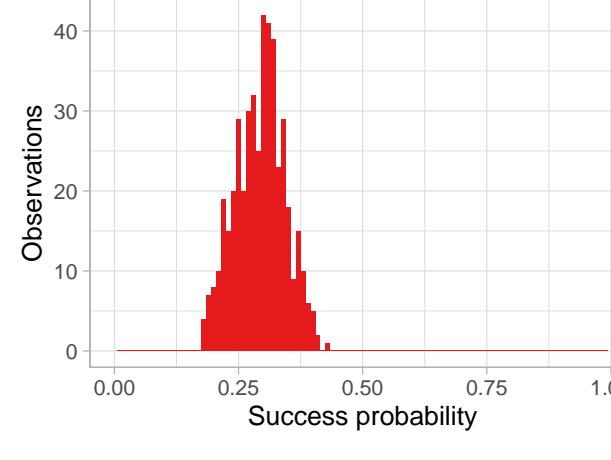
N = 584; Tail 23.68%, C1 76.32%



MM ($\omega = 27$; $\epsilon = 2e-06$; SSE 4.063e-03) LV > 0

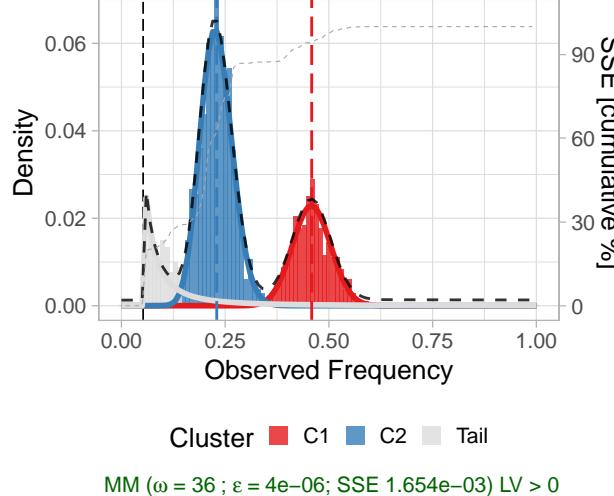
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

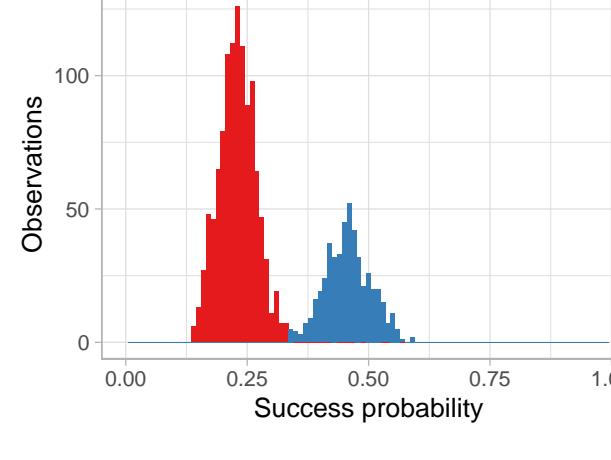
N = 1802; Tail 13.39%, C1 26.27%, C2 60.35%



MM ($\omega = 36$; $\epsilon = 4e-06$; SSE 1.654e-03) LV > 0

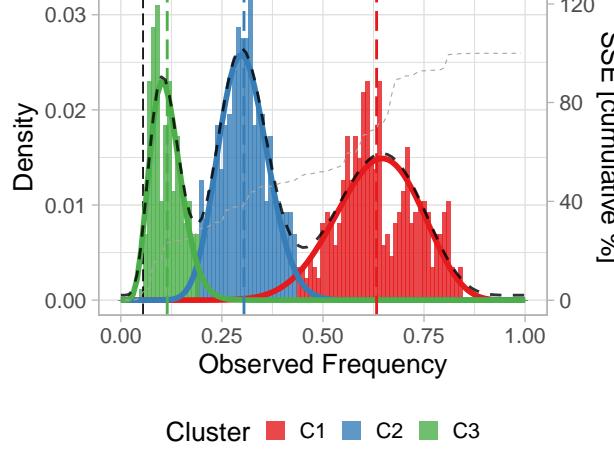
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

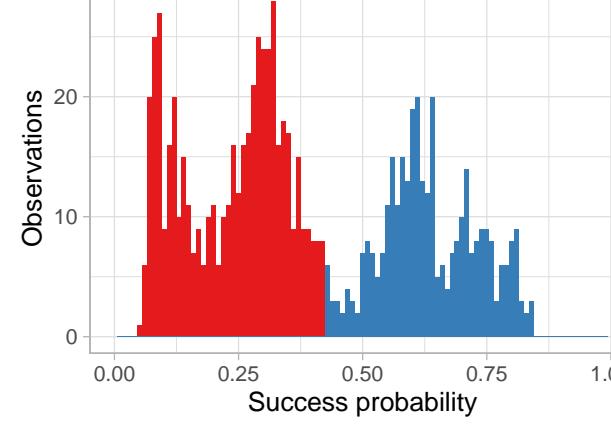
N = 871; Tail 0%, C3 21.68%, C2 38.86%, C1



MM ($\omega = 200$; $\epsilon = 6e-03$; SSE 1.517e-03) LV > 0

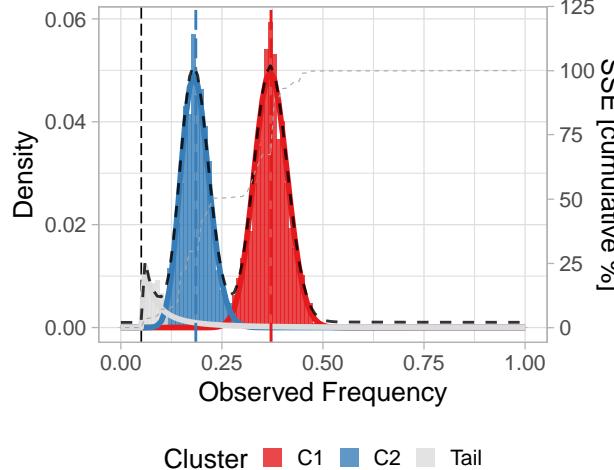
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

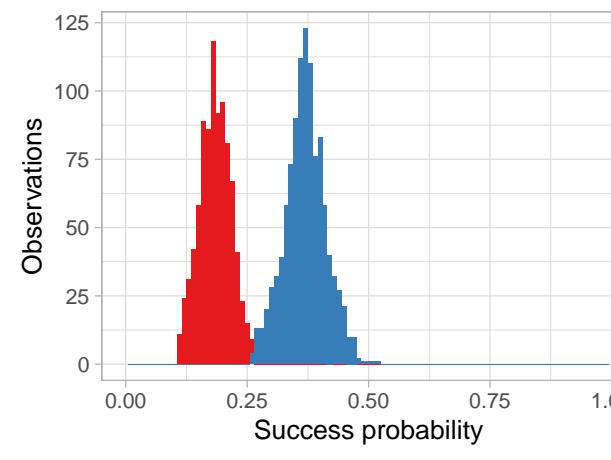
N = 2069; Tail 7%, C2 42.2%, C1 50.8%



MM ($\omega = 55$; $\epsilon = 6e-06$; SSE 1.091e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

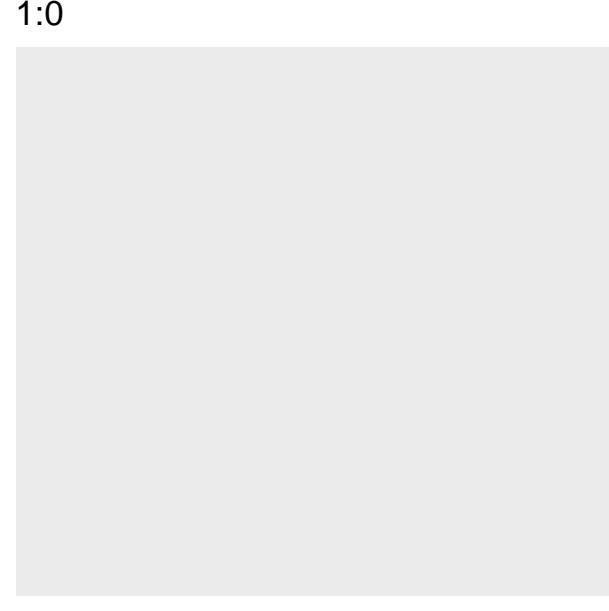
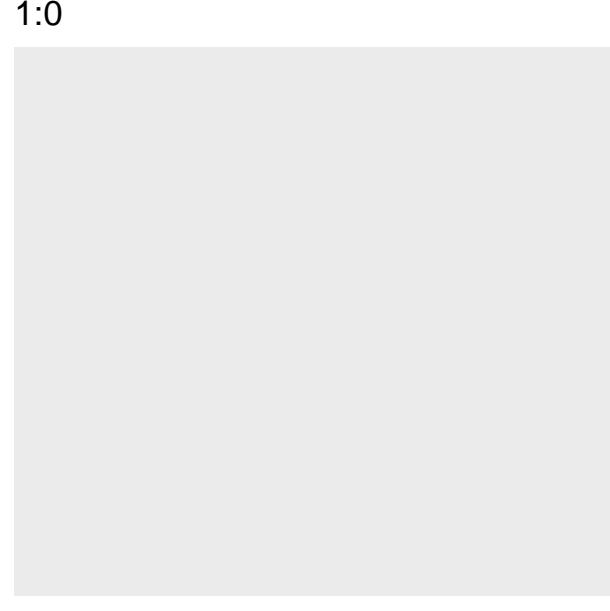


MM ($\omega = 55$; $\epsilon = 6e-06$; SSE 1.091e-03) LV > 0

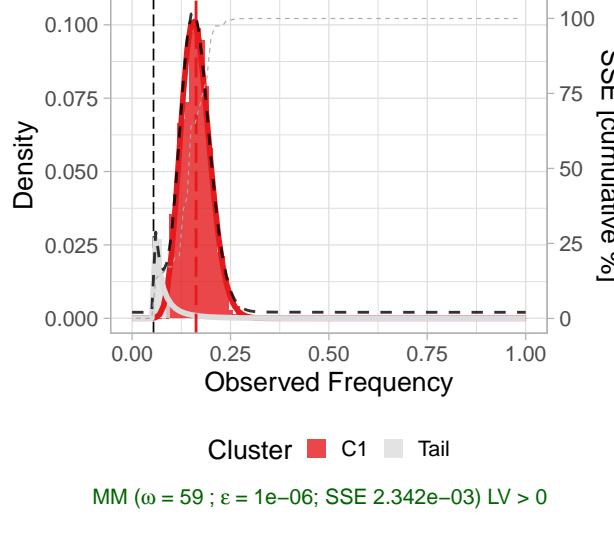
MM ($\omega = 55$; $\epsilon = 6e-06$; SSE 1.091e-03) LV > 0

161218_HMFregCPCT_FR12245815_FR12246192_CPCT02330007

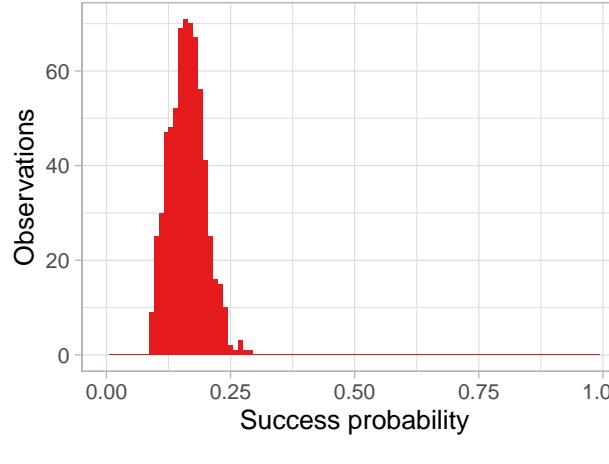
ONLY SNVs (min 150 – max 50000)



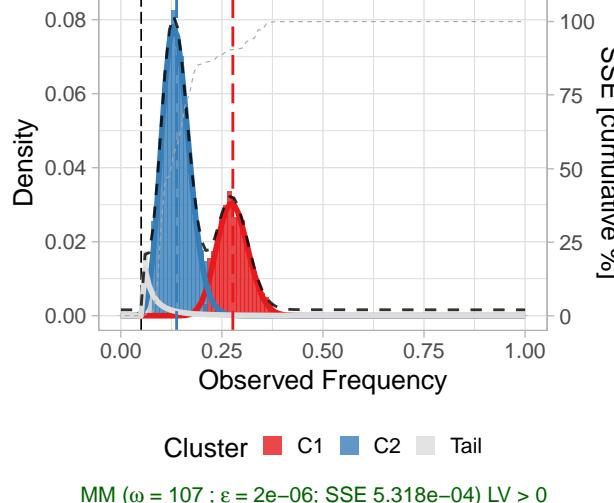
Karyotype: 1:1
N = 707; Tail 8.48%, C1 91.52%



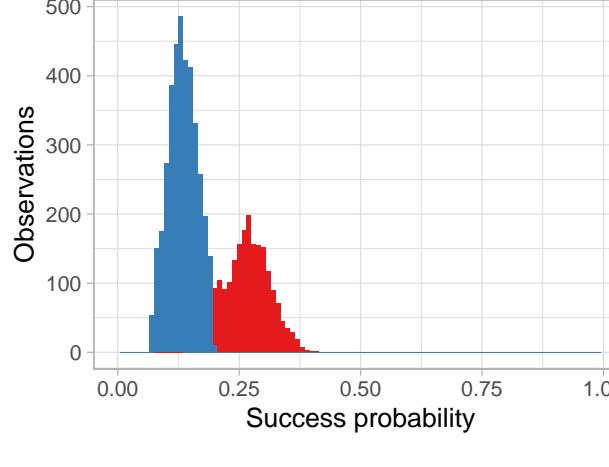
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



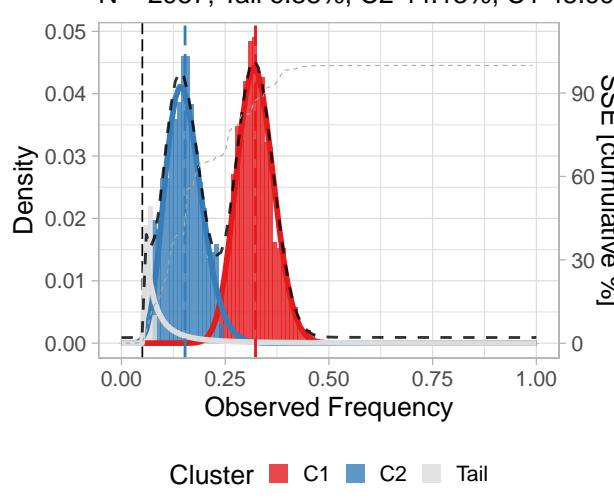
Karyotype: 2:1
N = 5880; Tail 5.54%, C1 29.31%, C2 65.16%



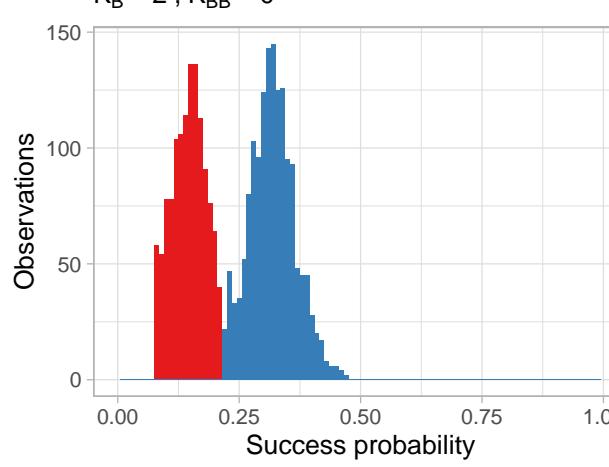
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



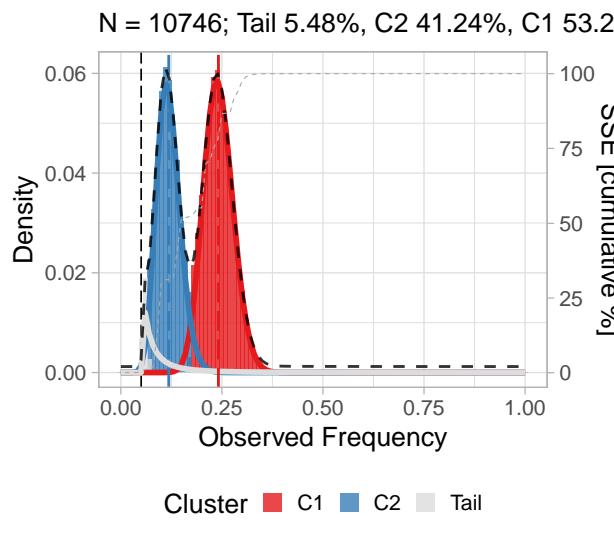
Karyotype: 2:0
N = 2957; Tail 6.88%, C2 44.13%, C1 48.99%



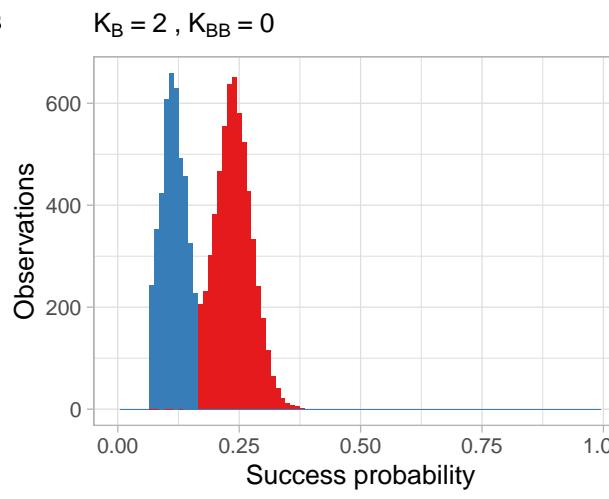
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 10746; Tail 5.48%, C2 41.24%, C1 53.28%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

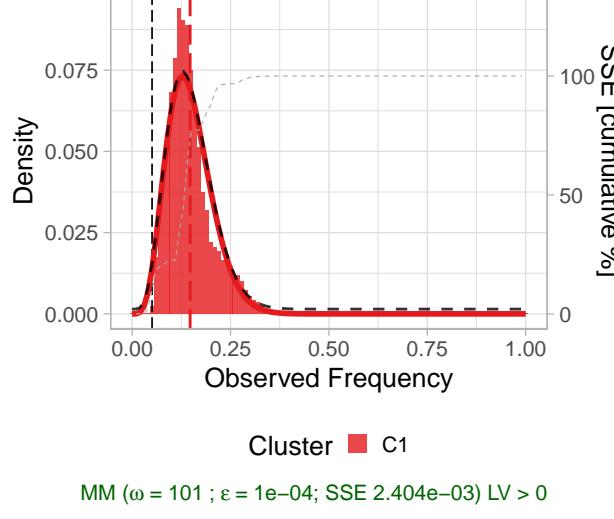


161218_HMFregCPCT_FR12245828_FR12246191_CPCT02020410

ONLY SNVs (min 150 – max 50000)

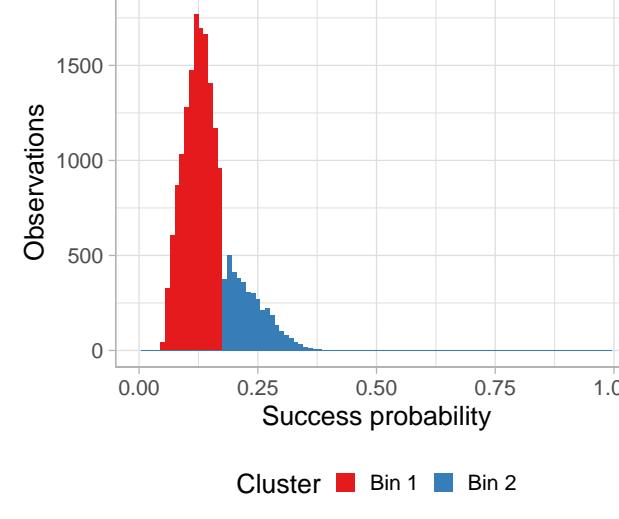
Karyotype: 1:0

N = 18788; Tail 0%, C1 100%



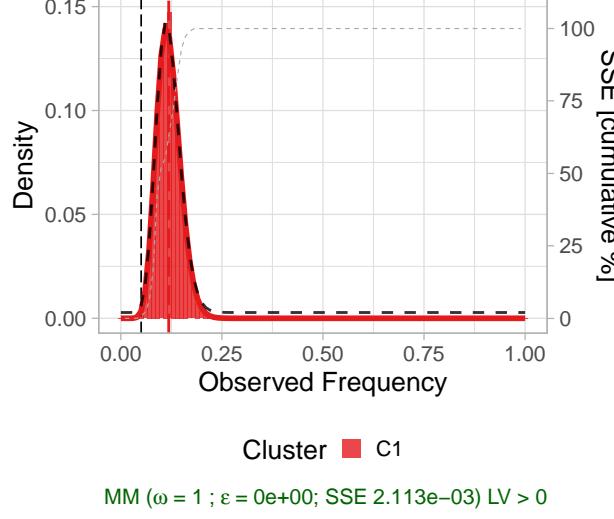
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



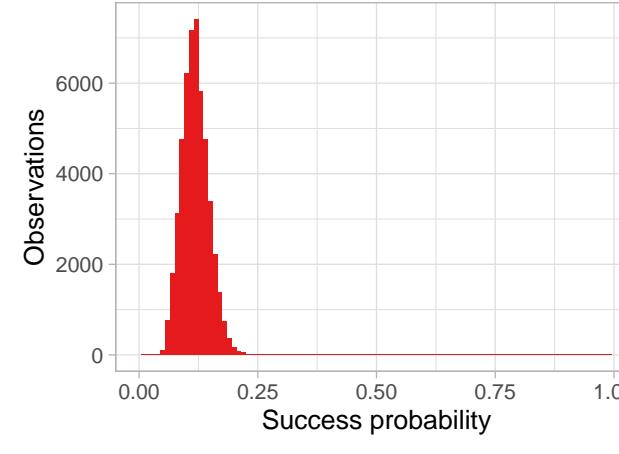
Karyotype: 1:1

N = 50415; Tail 0%, C1 100%



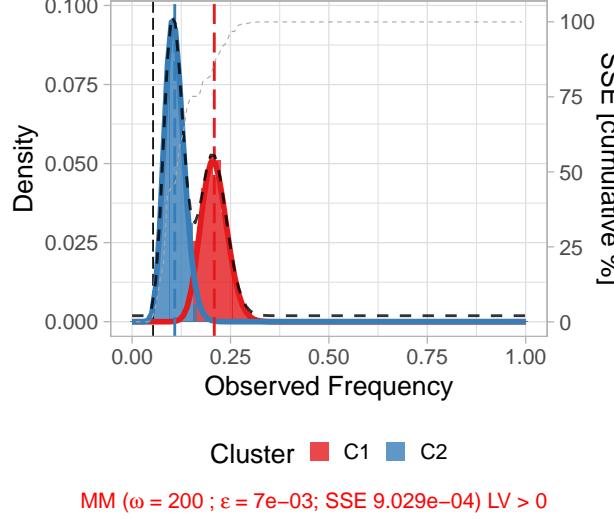
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



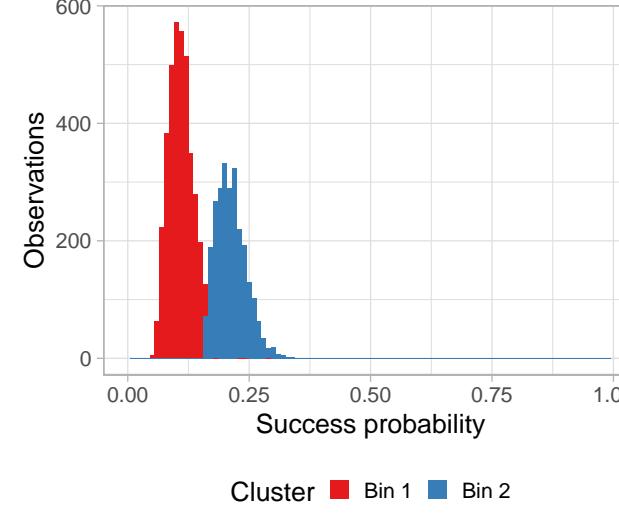
Karyotype: 2:1

N = 6327; Tail 0%, C1 41.72%, C2 58.28%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

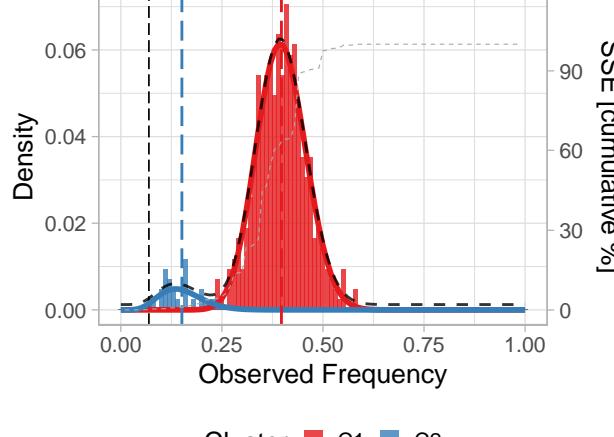
2:2

161218_HMFregCPCT_FR12245830_FR12246188_CPCT02020408

ONLY SNVs (min 150 – max 50000)

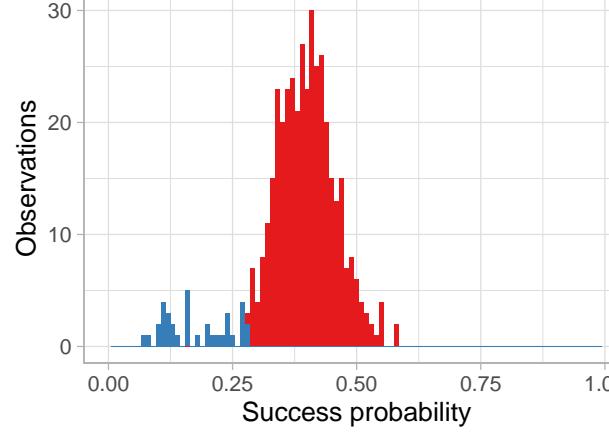
Karyotype: 1:0

N = 425; Tail 0%, C2 6.17%, C1 93.83%



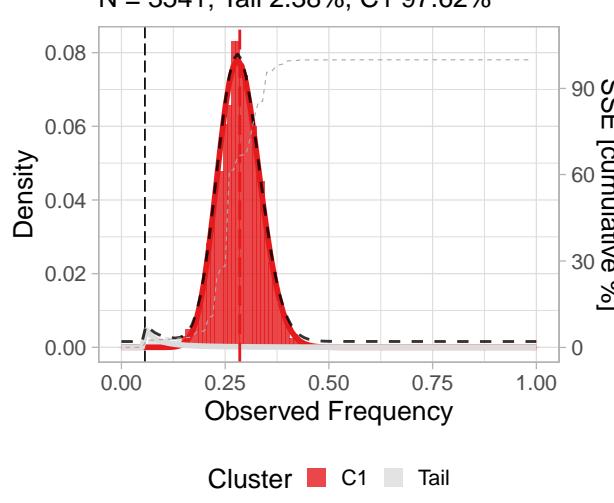
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



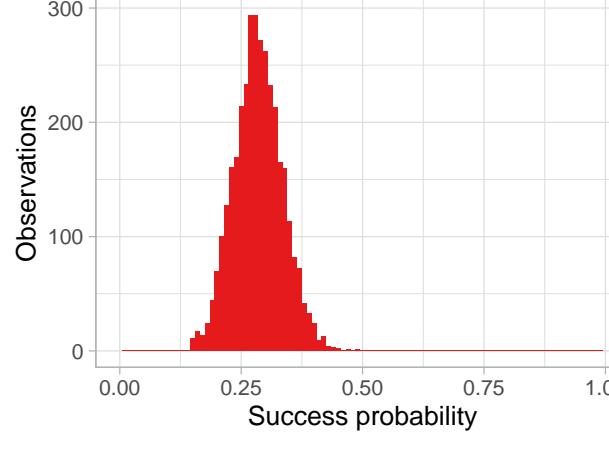
Karyotype: 1:1

N = 3541; Tail 2.38%, C1 97.62%



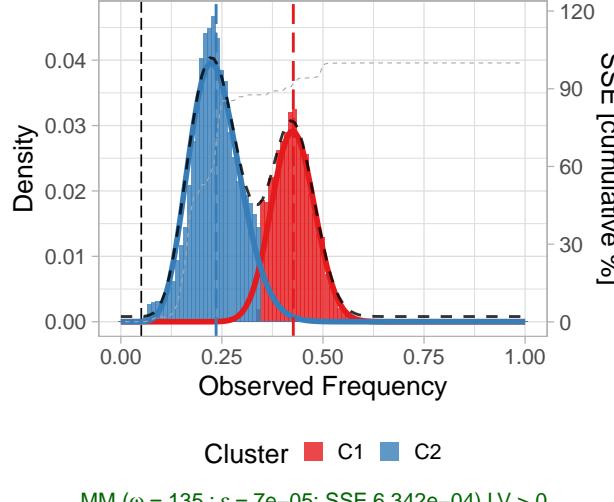
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



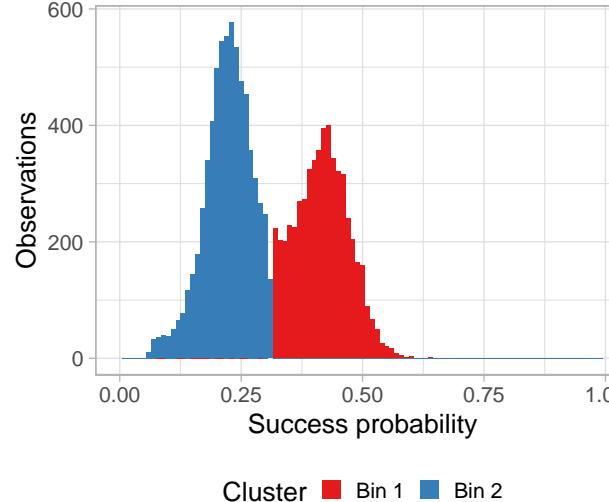
Karyotype: 2:1

N = 12337; Tail 0%, C1 38.61%, C2 61.39%



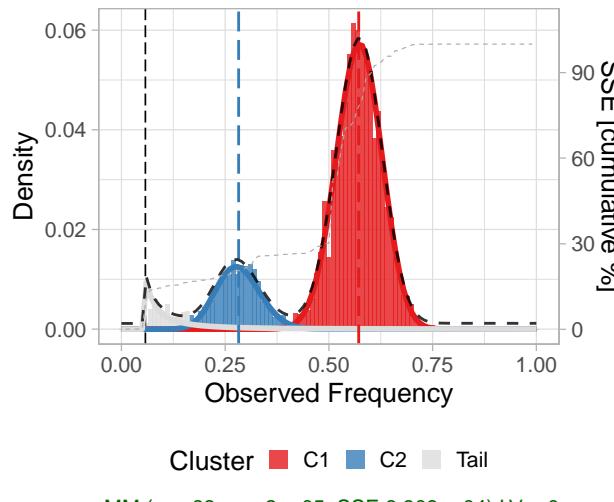
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



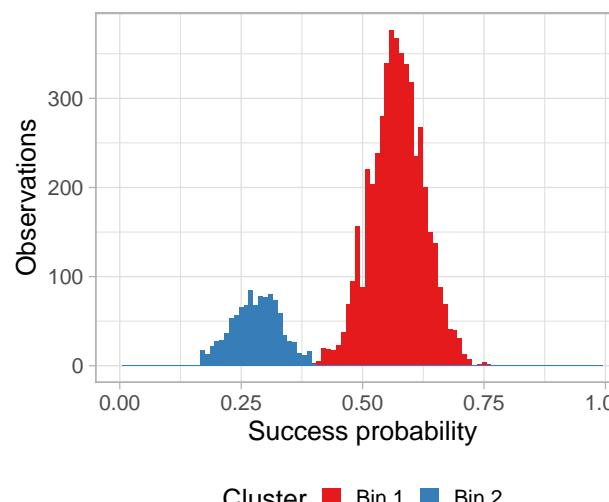
Karyotype: 2:0

N = 6143; Tail 4.84%, C2 16.55%, C1 78.6%



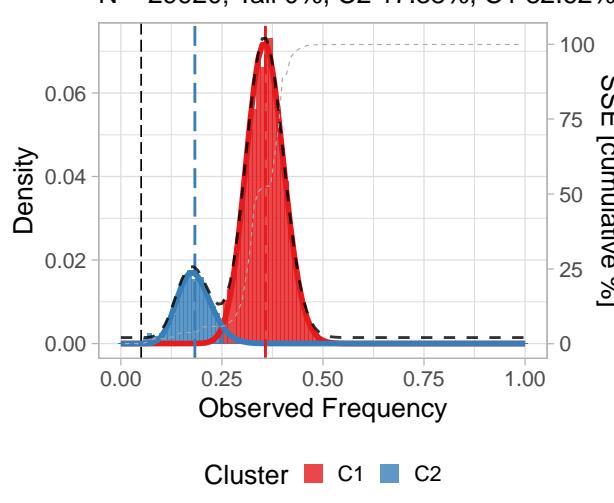
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



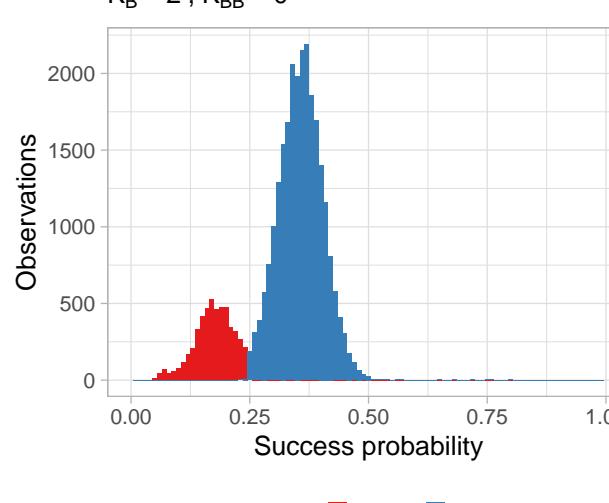
Karyotype: 2:2

N = 29920; Tail 0%, C2 17.38%, C1 82.62%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

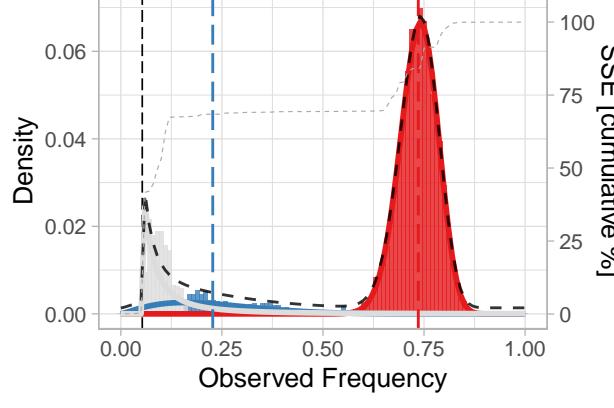


161218_HMFreqCPCT_FR12245837_FR12246198_CPCT02030290

ONLY SNVs (min 150 – max 50000)

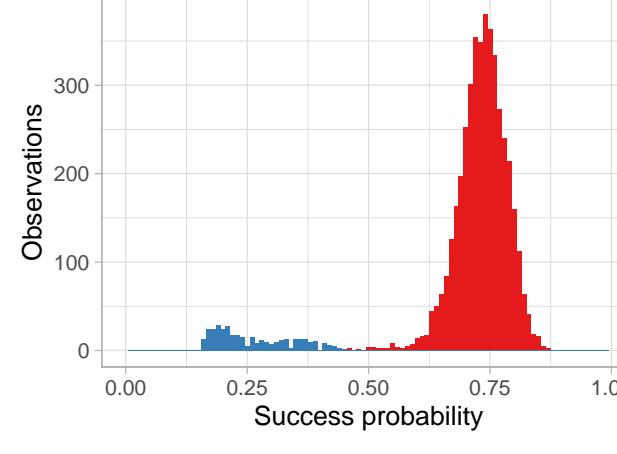
Karyotype: 1:0

N = 5438; C2 7.99%, Tail 13.74%, C1 78.27%



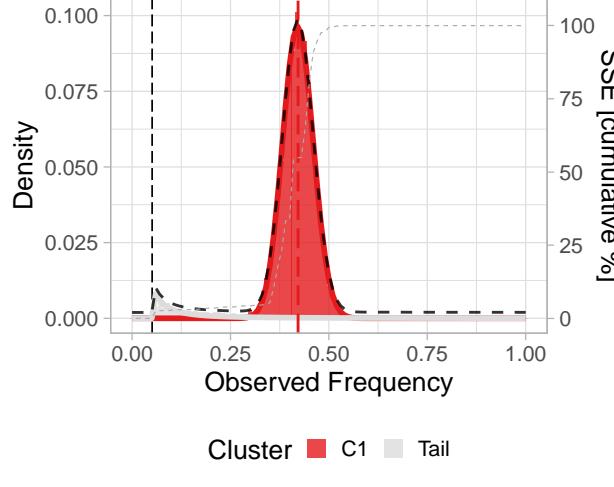
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



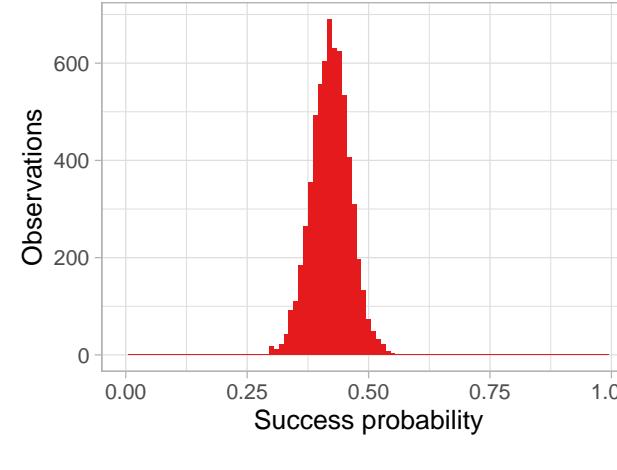
Karyotype: 1:1

N = 6840; Tail 6.07%, C1 93.93%



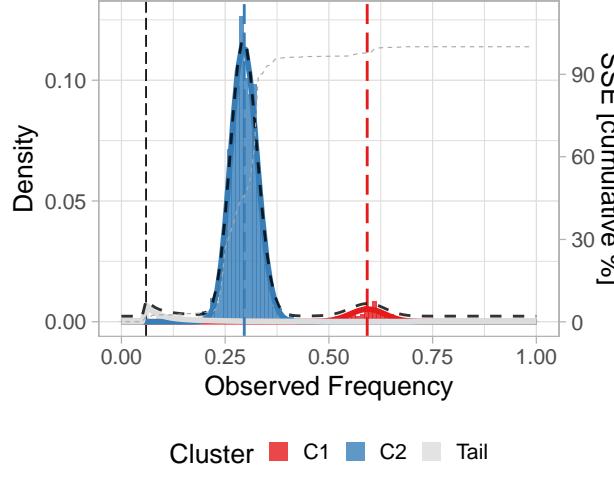
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



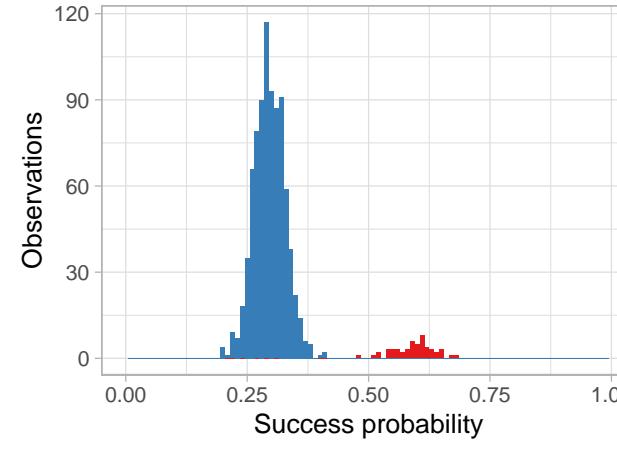
Karyotype: 2:1

N = 924; Tail 3.73%, C1 5.45%, C2 90.82%



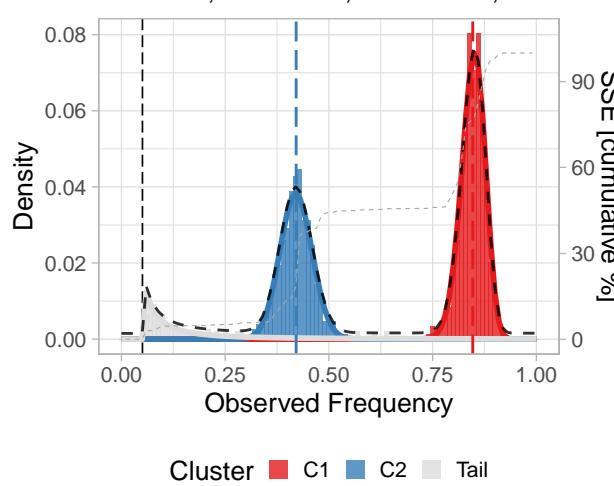
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



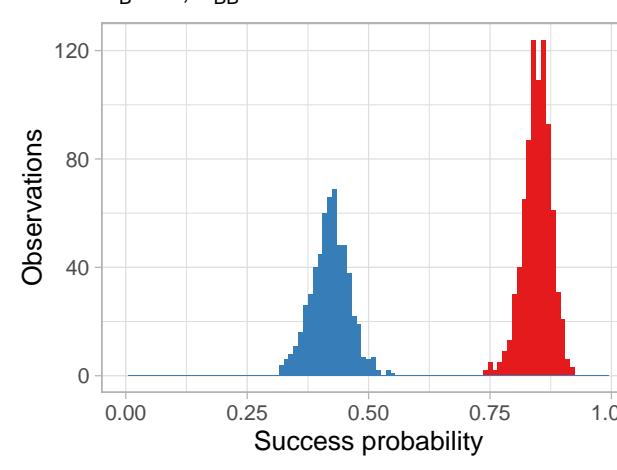
Karyotype: 2:0

N = 1543; Tail 9.41%, C2 37.02%, C1 53.58%

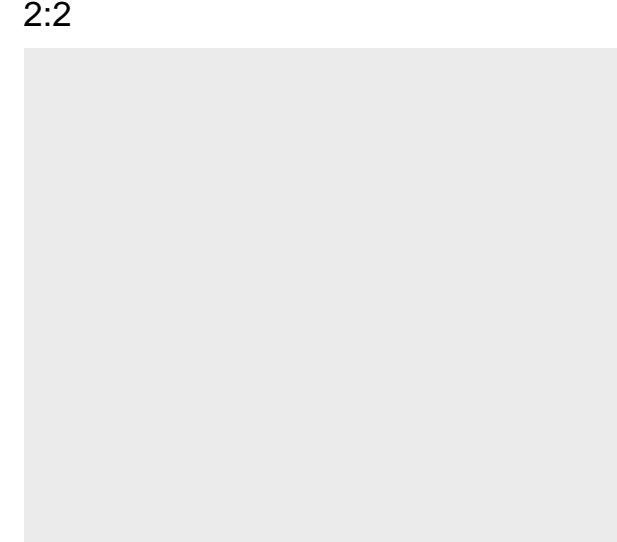


Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

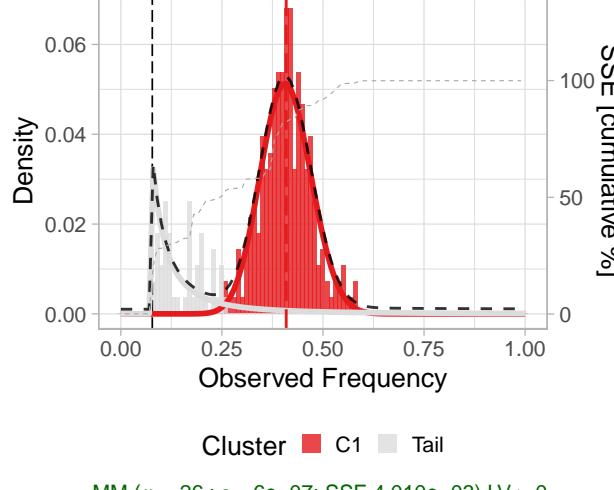


161220_HMFregCPCT_FR12244411_FR12246115_CPCT02050075

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

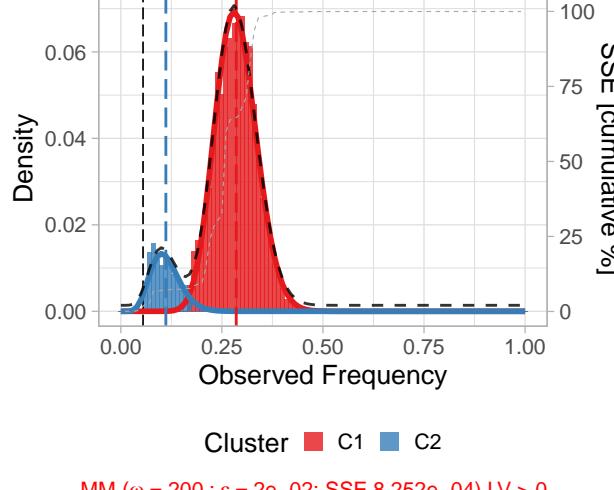
N = 279; Tail 20.16%, C1 79.84%



MM ($\omega = 26$; $\epsilon = 6e-07$; SSE 4.010e-03) LV > 0

Karyotype: 1:1

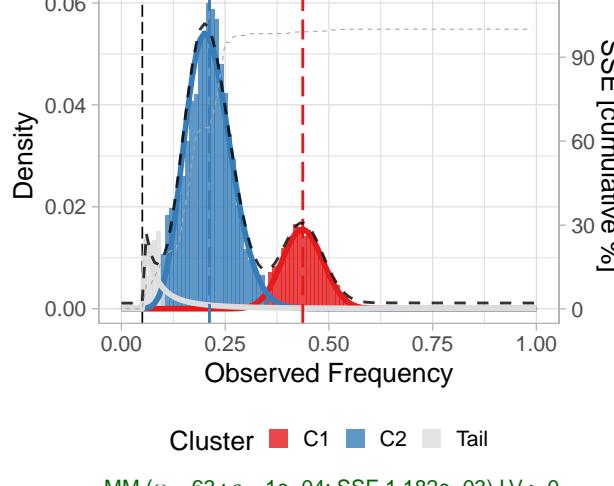
N = 3931; Tail 0%, C2 11.66%, C1 88.34%



MM ($\omega = 200$; $\epsilon = 2e-02$; SSE 8.252e-04) LV > 0

Karyotype: 2:1

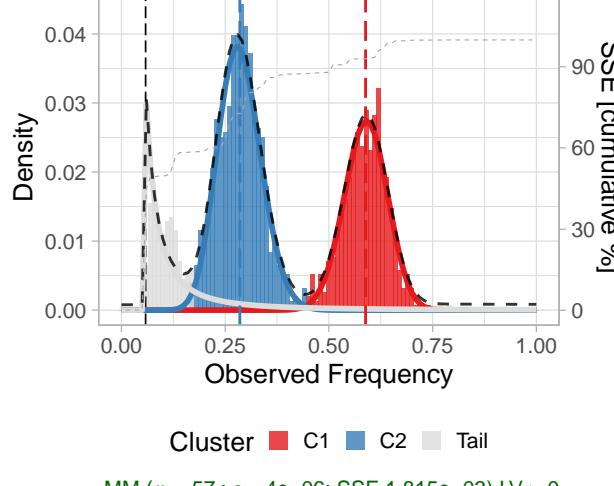
N = 16749; Tail 7.61%, C1 19.05%, C2 73.34%



MM ($\omega = 63$; $\epsilon = 1e-04$; SSE 1.182e-03) LV > 0

Karyotype: 2:0

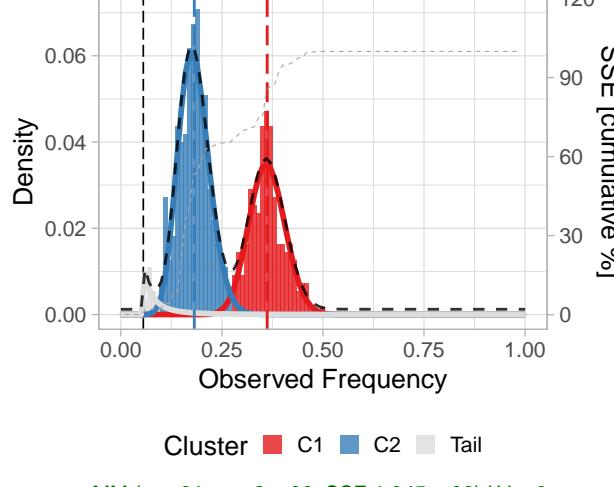
N = 1558; Tail 14.92%, C1 35.65%, C2 49.43%



MM ($\omega = 57$; $\epsilon = 4e-06$; SSE 1.815e-03) LV > 0

Karyotype: 2:2

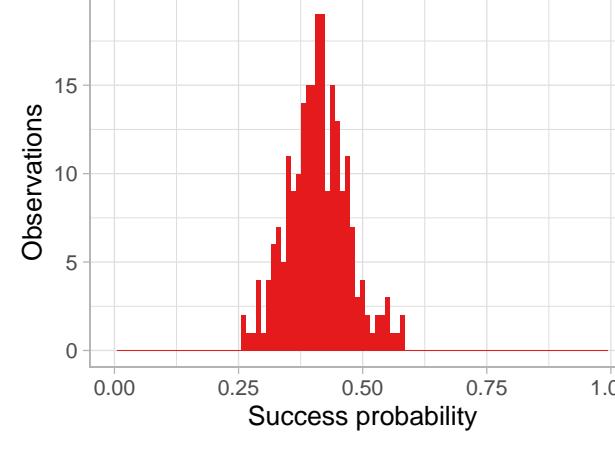
N = 550; Tail 3.44%, C1 38.77%, C2 57.79%



MM ($\omega = 61$; $\epsilon = 2e-06$; SSE 1.945e-03) LV > 0

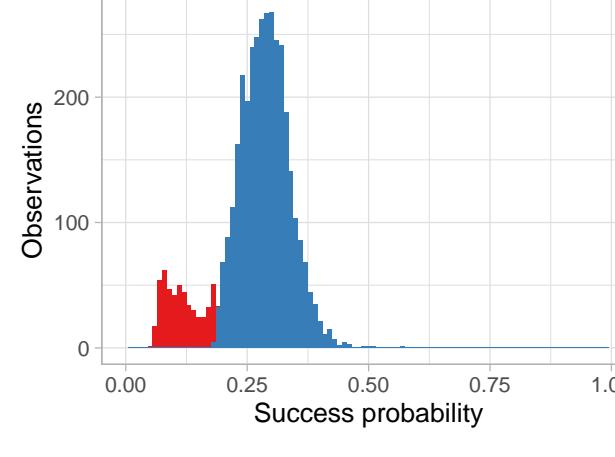
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



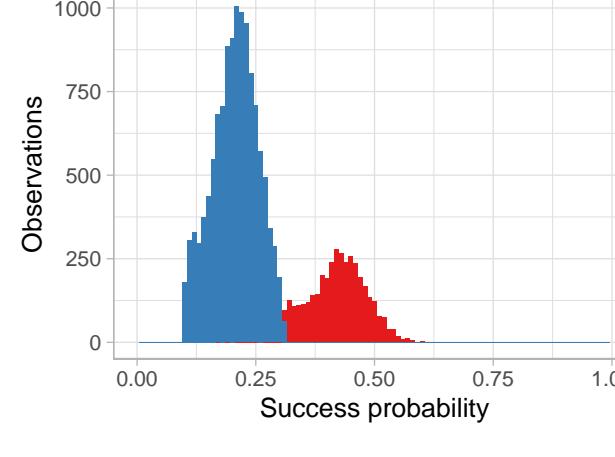
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



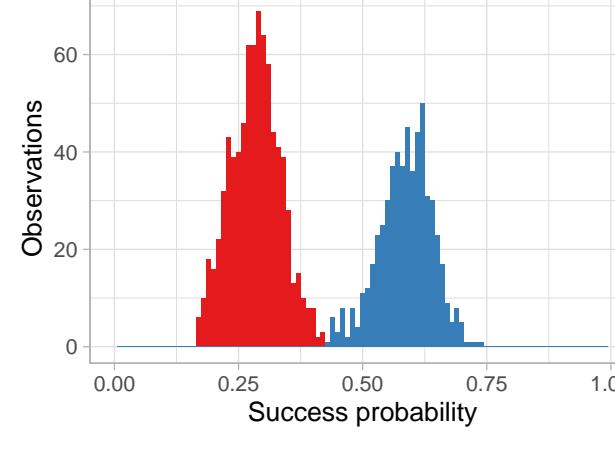
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



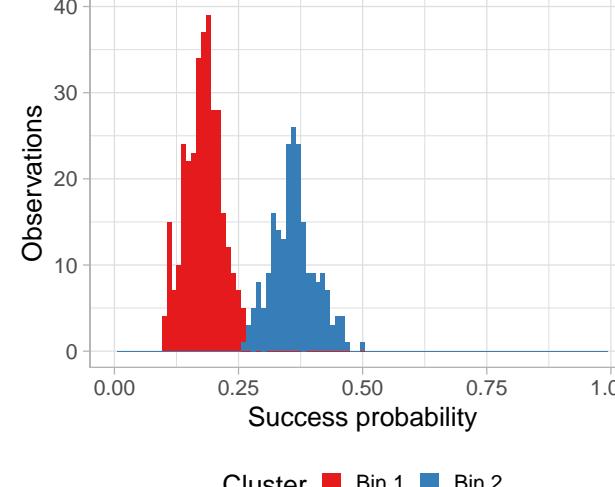
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

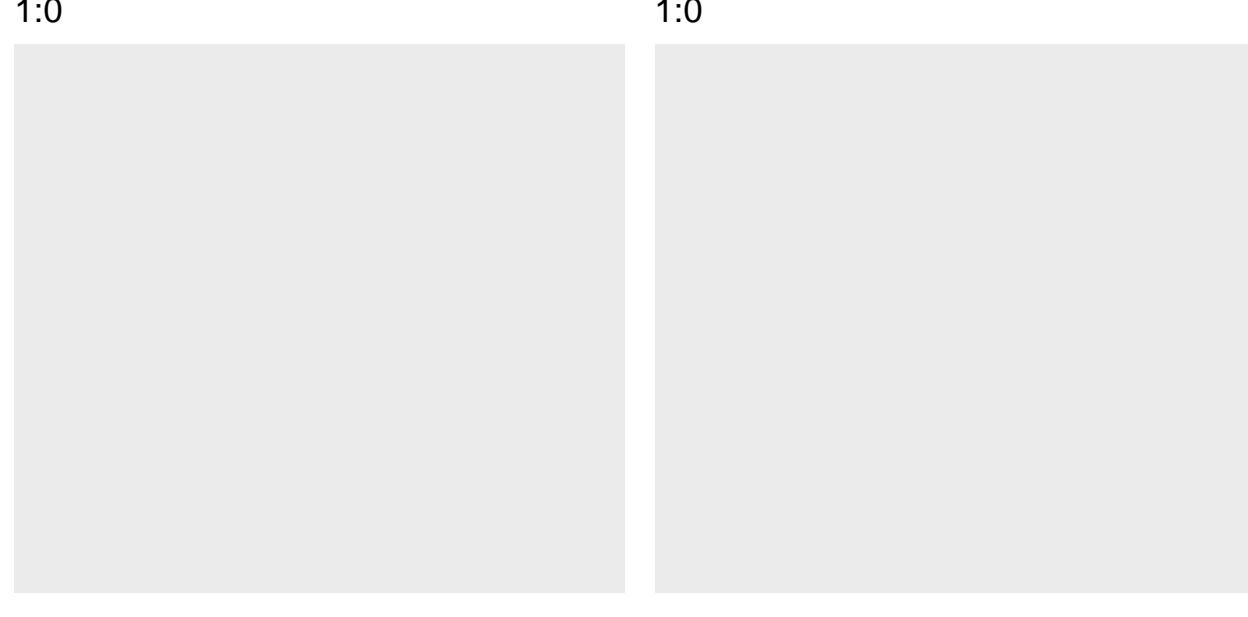
$K_B = 2$, $K_{BB} = 0$



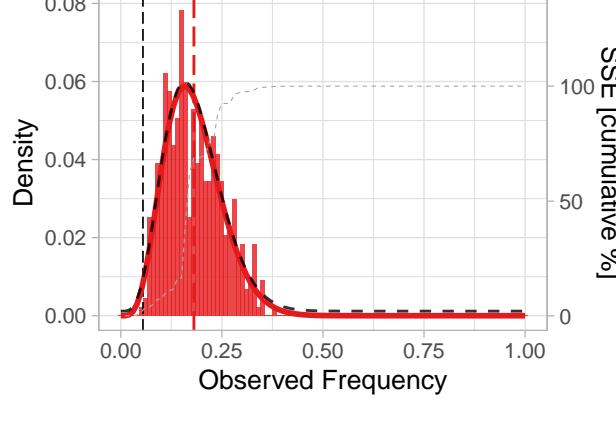
MM ($\omega = 61$; $\epsilon = 2e-06$; SSE 1.945e-03) LV > 0

161220_HMFregCPCT_FR12244782_FR12246182_CPCT02050068

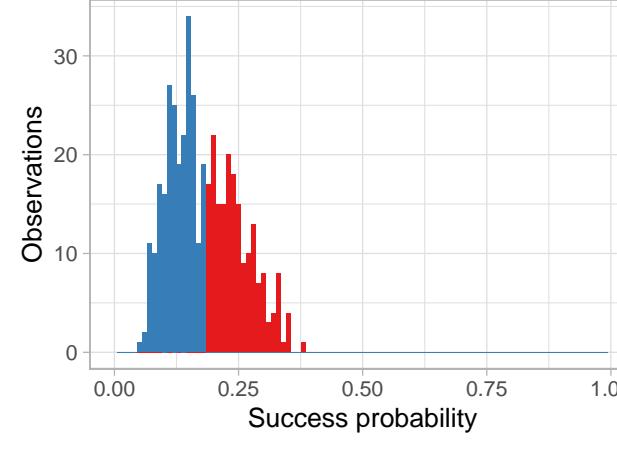
ONLY SNVs (min 150 – max 50000)



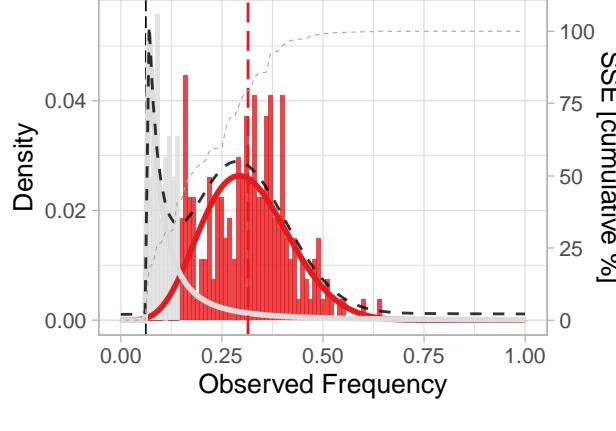
Karyotype: 2:1
N = 434; Tail 0%, C1 100%



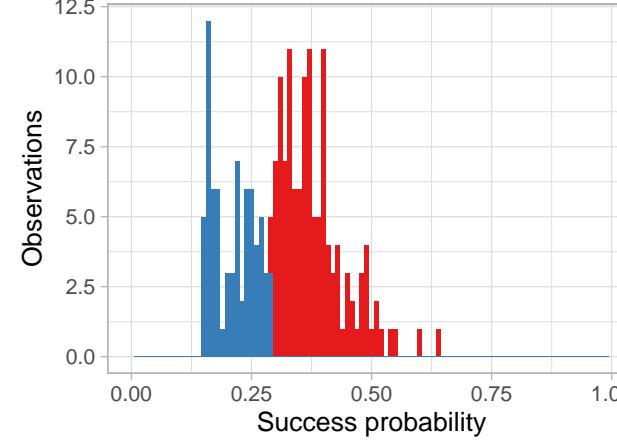
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



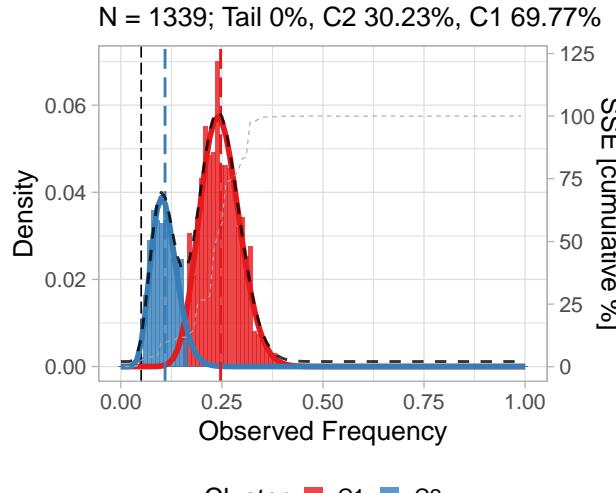
Karyotype: 2:0
N = 269; Tail 29.72%, C1 70.28%



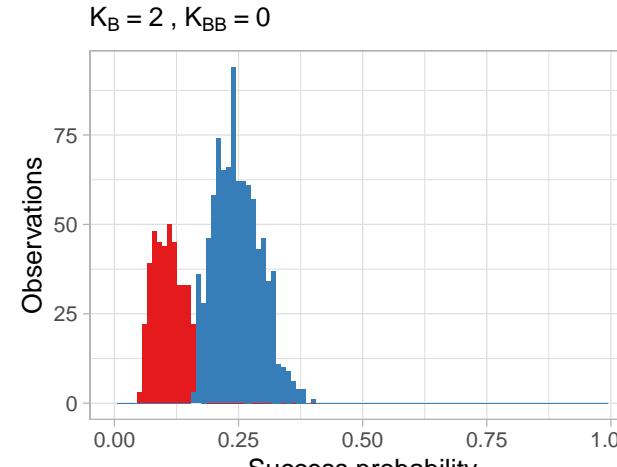
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 1339; Tail 0%, C2 30.23%, C1 69.77%

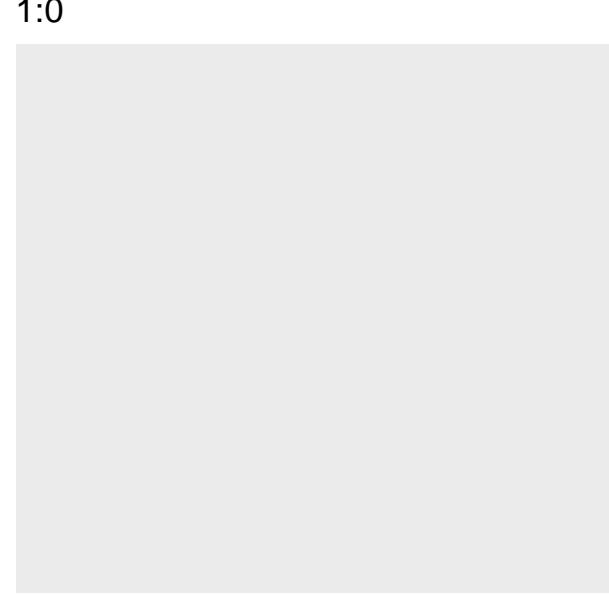
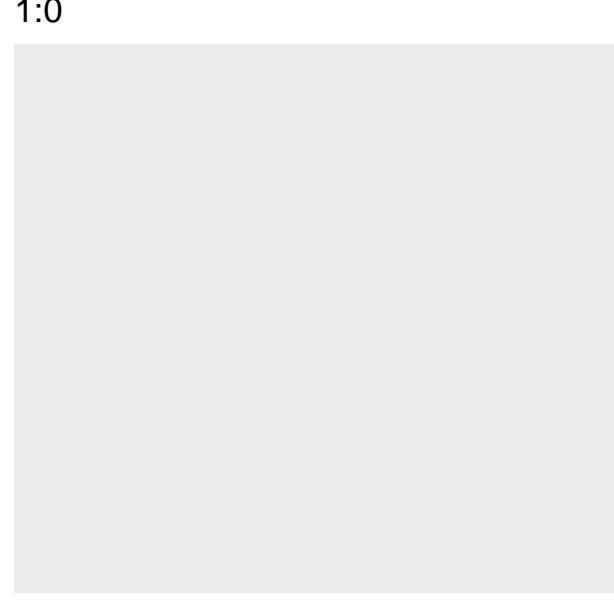


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



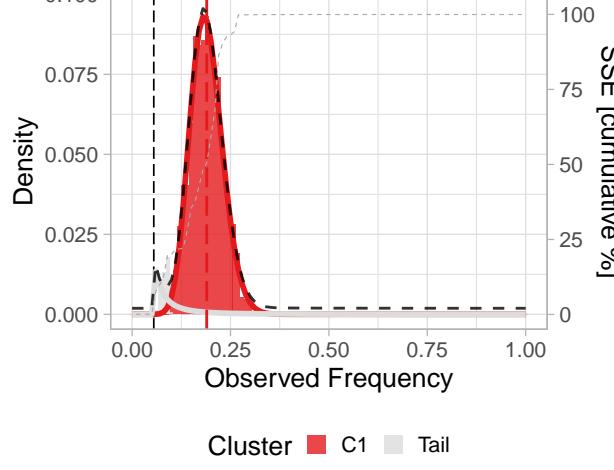
161220_HMFregCPCT_FR12245811_FR12246109_CPCT02030294

ONLY SNVs (min 150 – max 50000)



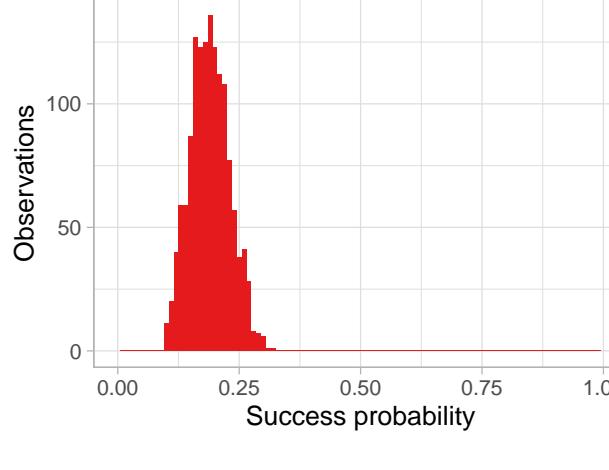
Karyotype: 1:1

N = 1460; Tail 5.6%, C1 94.4%



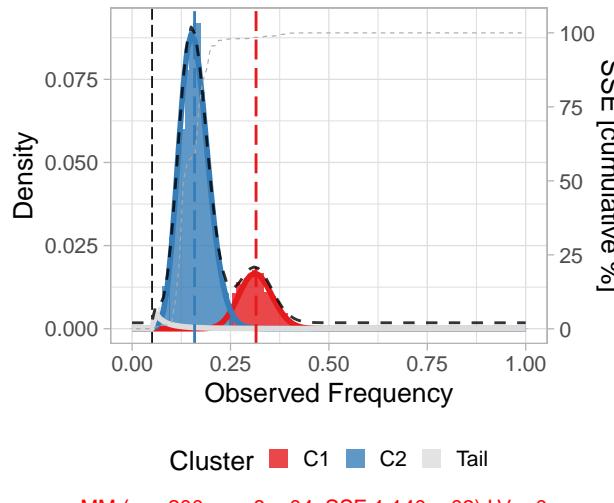
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



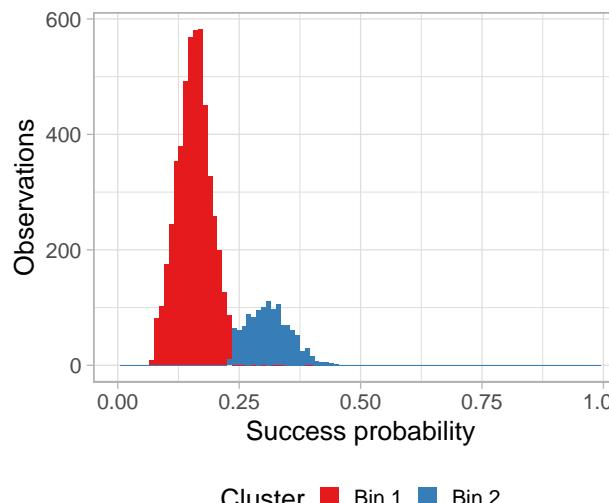
Karyotype: 2:1

N = 6328; Tail 2.26%, C1 17.43%, C2 80.31%



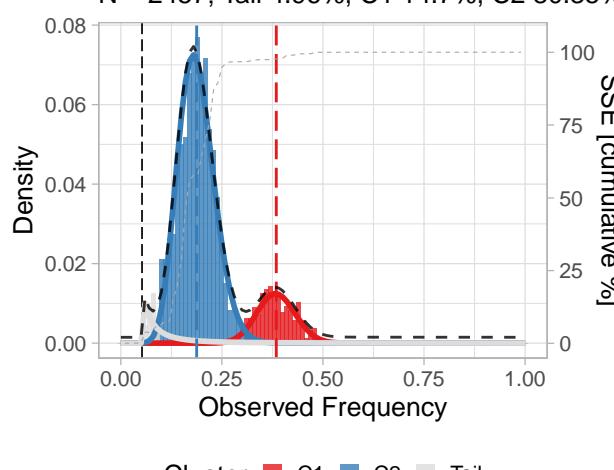
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



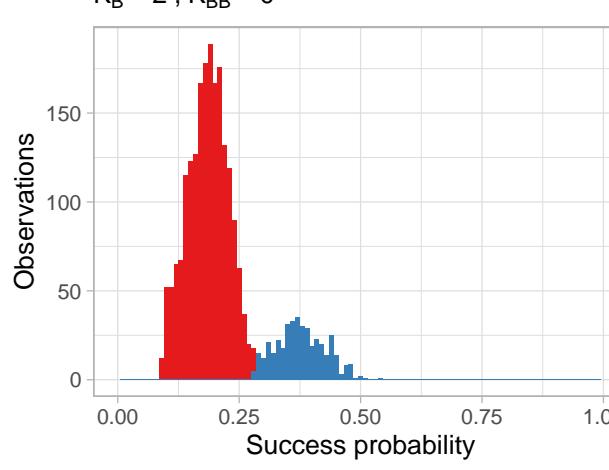
Karyotype: 2:0

N = 2457; Tail 4.96%, C1 14.7%, C2 80.35%



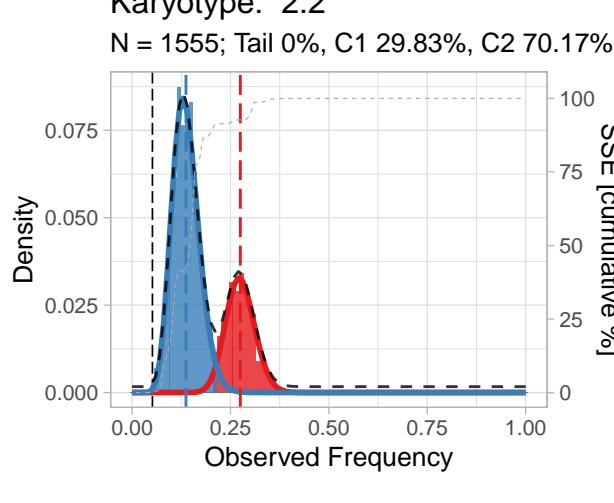
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



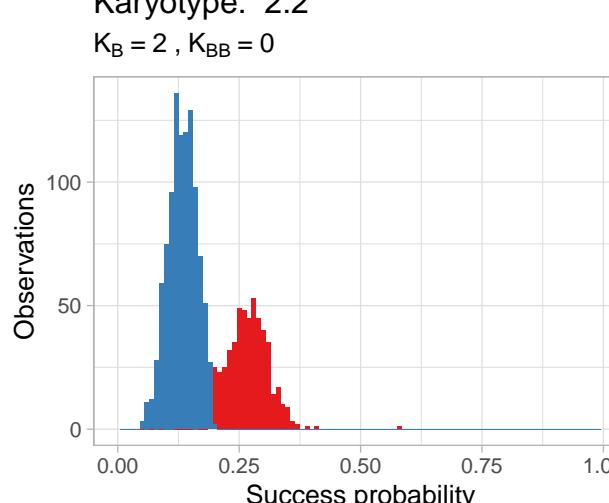
Karyotype: 2:2

N = 1555; Tail 0%, C1 29.83%, C2 70.17%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

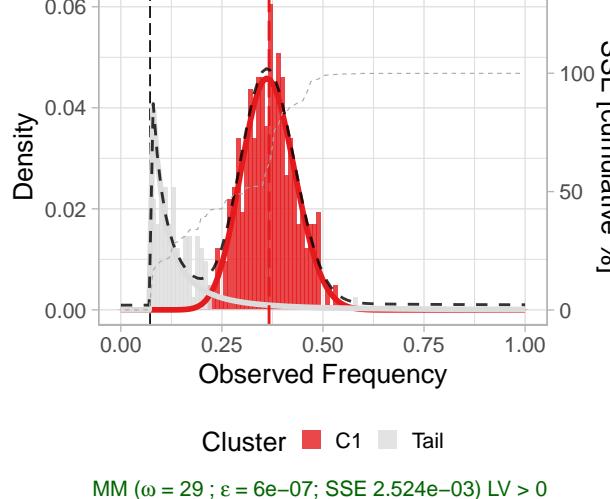


161220_HMFregCPCT_FR12245835_FR12246098_CPCT02040058

ONLY SNVs (min 150 – max 50000)

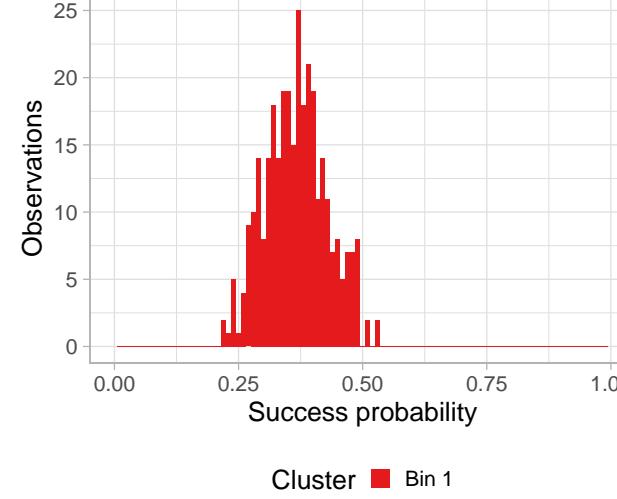
Karyotype: 1:0

N = 413; Tail 25.15%, C1 74.85%



Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$

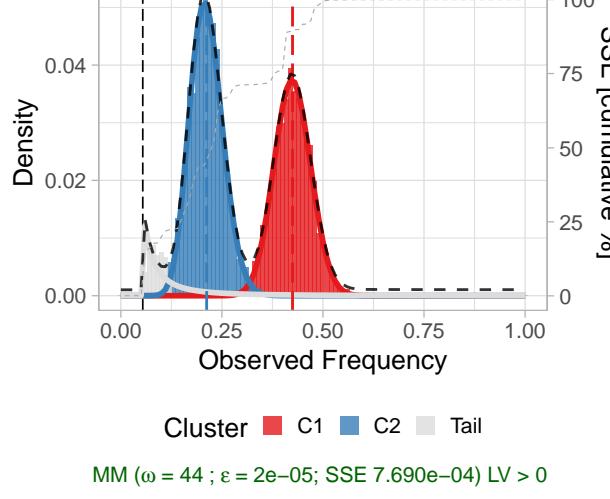


1:1

1:1

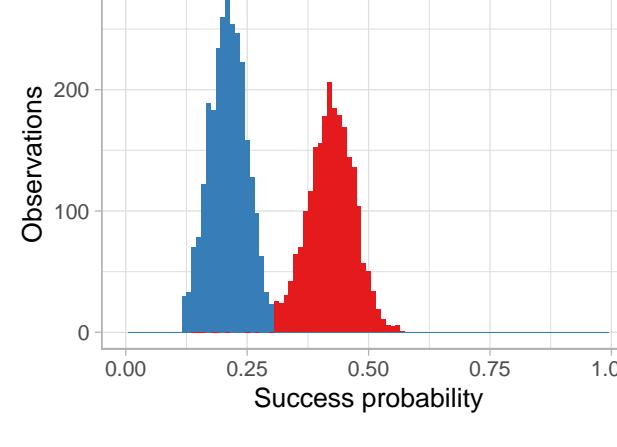
Karyotype: 2:1

N = 5223; Tail 6.31%, C1 42.4%, C2 51.29%



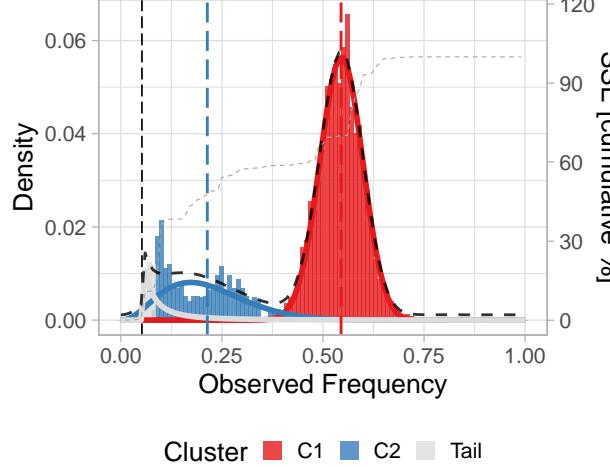
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



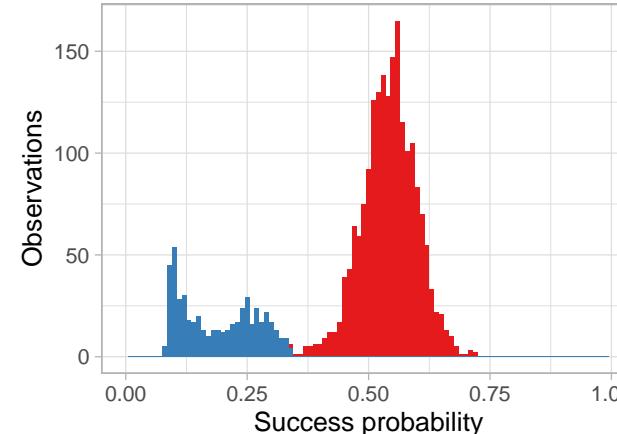
Karyotype: 2:0

N = 2514; Tail 5.48%, C2 19.93%, C1 74.59%



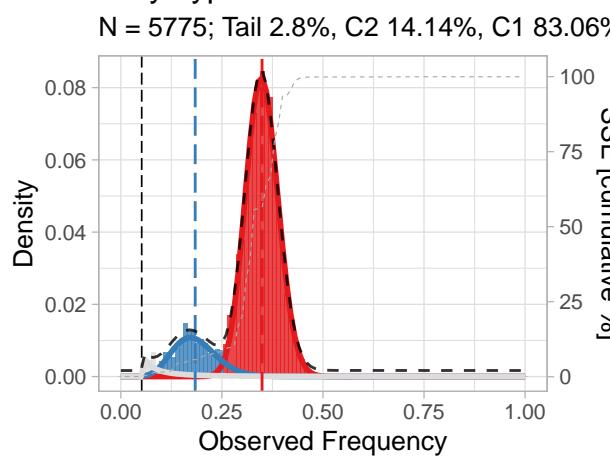
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



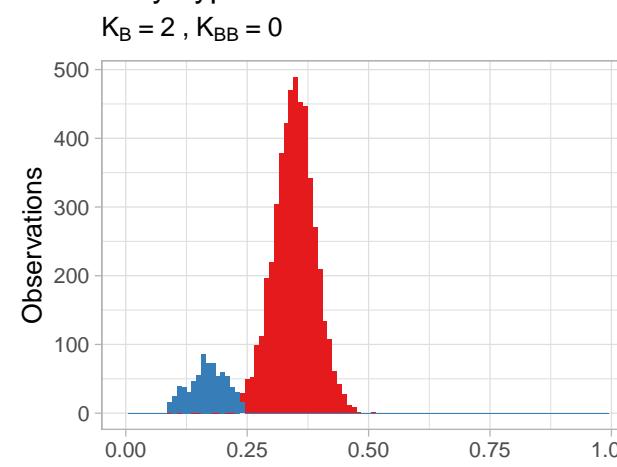
Karyotype: 2:2

N = 5775; Tail 2.8%, C2 14.14%, C1 83.06%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

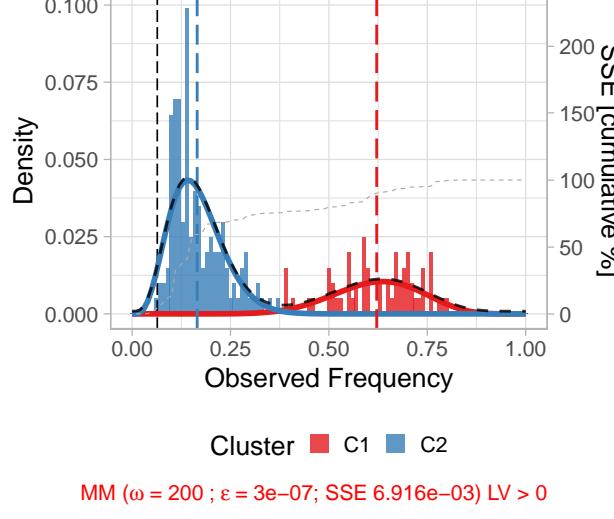


161220_HMFregCPCT_FR13271937_FR12246118_CPCT02050071

ONLY SNVs (min 150 – max 50000)

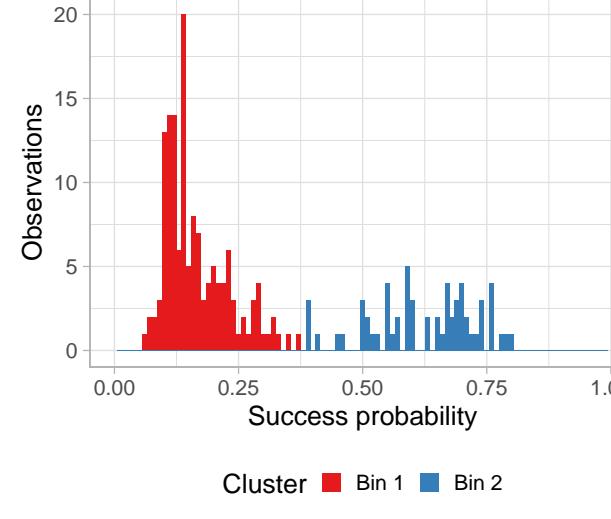
Karyotype: 1:0

N = 202; Tail 0%, C1 29.63%, C2 70.37%



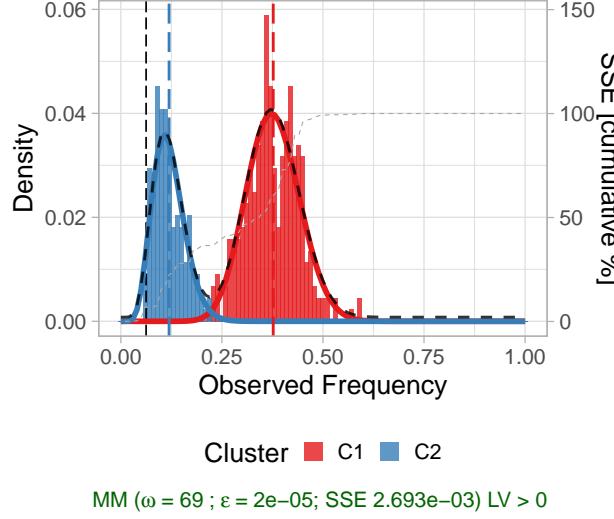
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



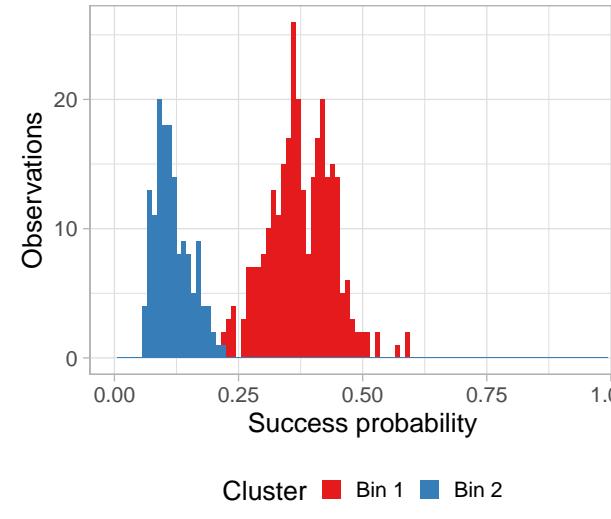
Karyotype: 1:1

N = 442; Tail 0%, C2 34.16%, C1 65.84%



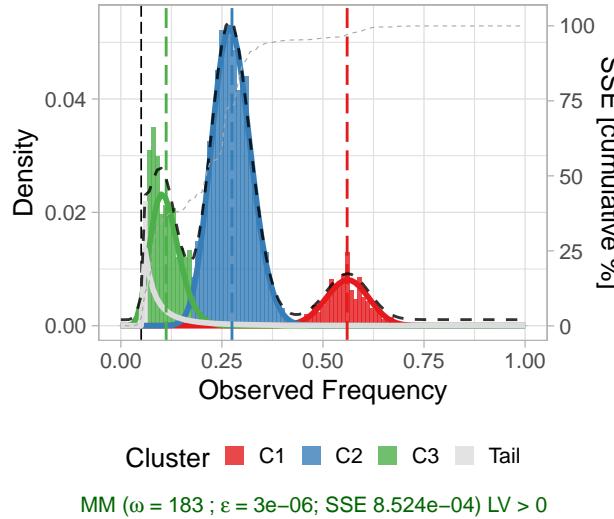
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



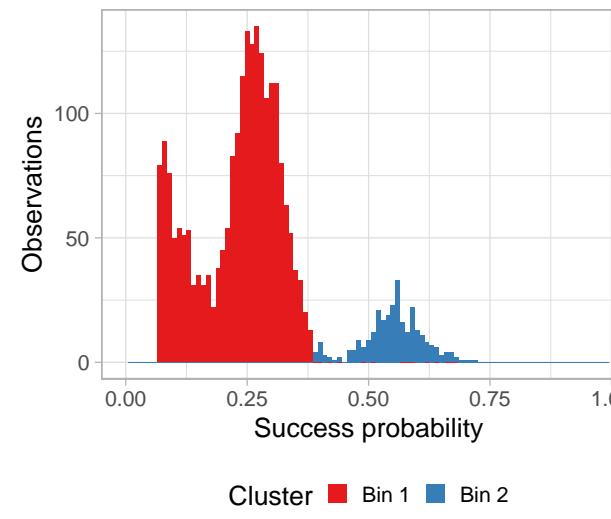
Karyotype: 2:1

N = 2547; Tail 6.63%, C1 10.62%, C3 20.08%



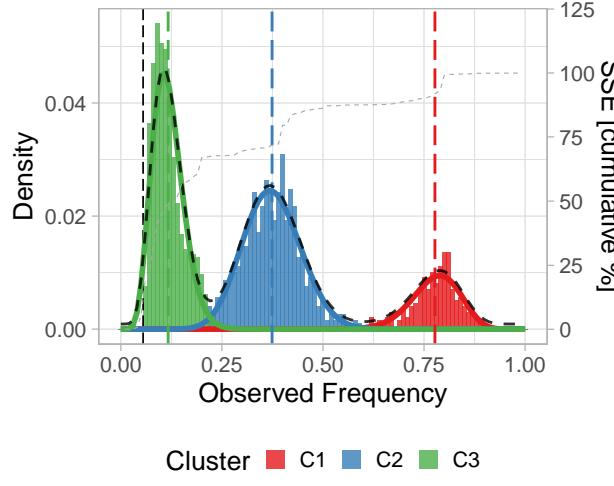
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



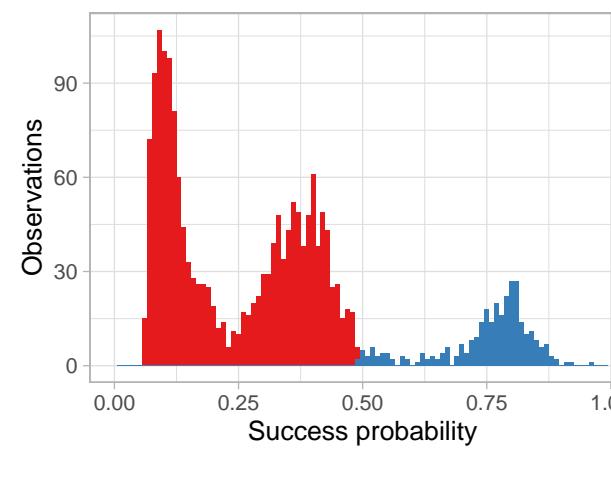
Karyotype: 2:0

N = 1978; Tail 0%, C1 14.02%, C3 42.14%, C2 43.84%



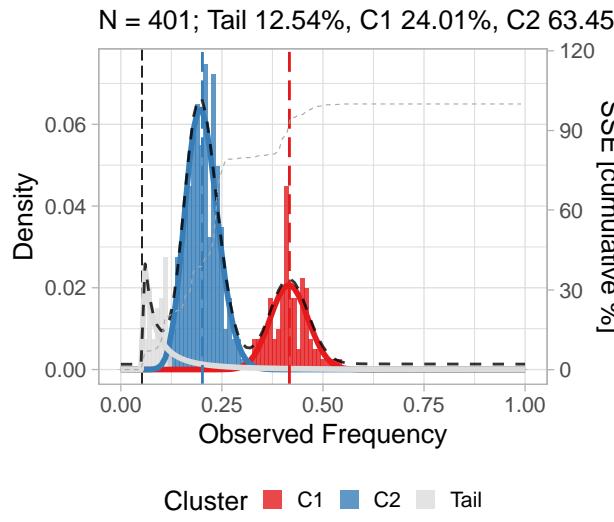
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



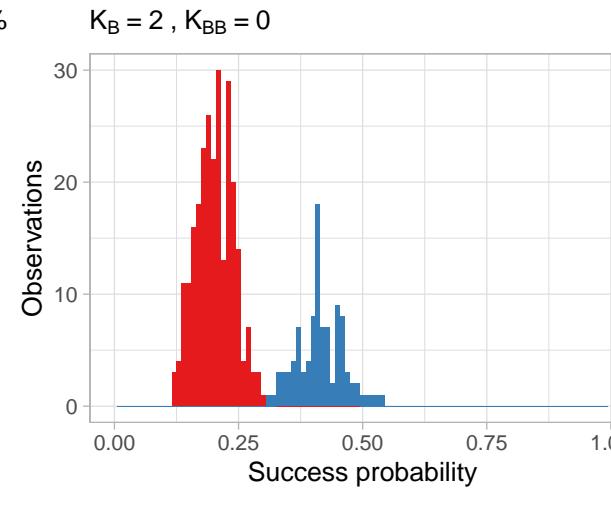
Karyotype: 2:2

N = 401; Tail 12.54%, C1 24.01%, C2 63.45%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

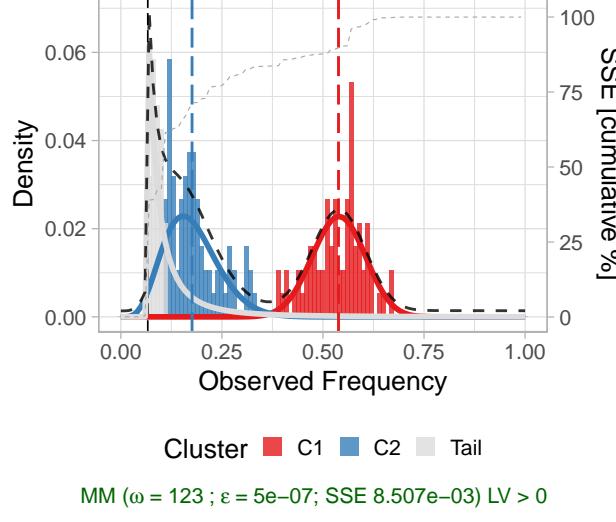


161220_HMFregCPCT_FR13271967_FR12246116_CPCT02050074

ONLY SNVs (min 150 – max 50000)

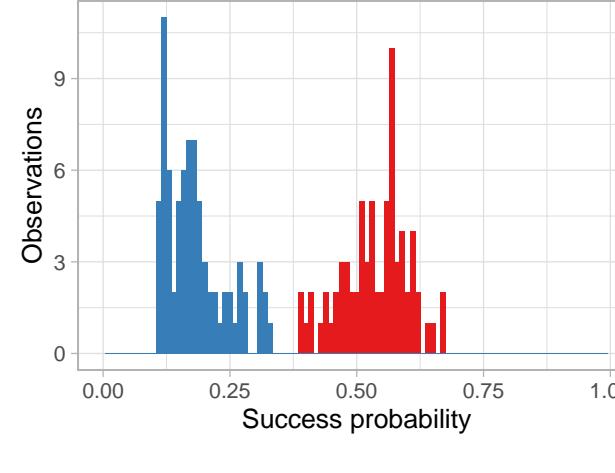
Karyotype: 1:0

N = 188; Tail 25.41%, C1 37.19%, C2 37.4%



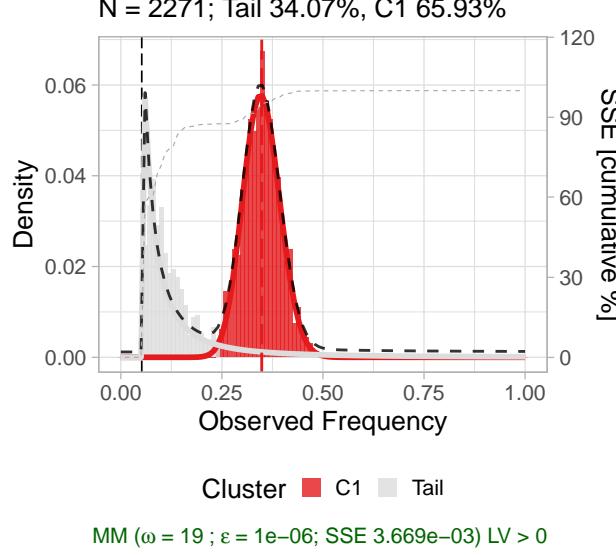
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



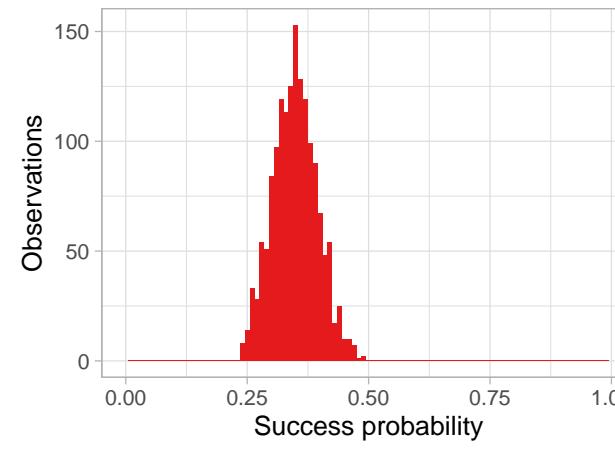
Karyotype: 1:1

N = 2271; Tail 34.07%, C1 65.93%



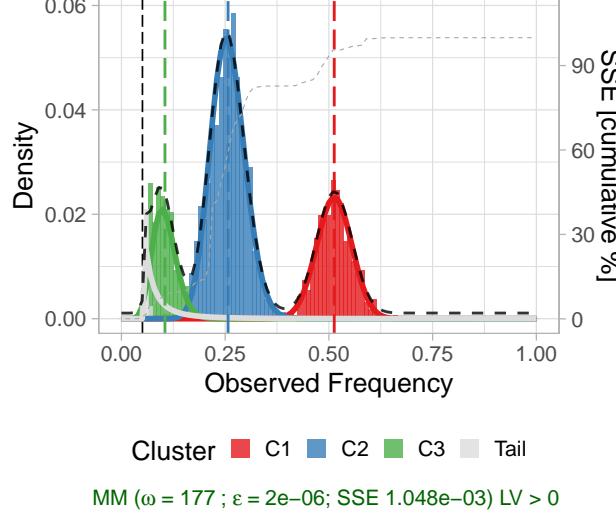
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



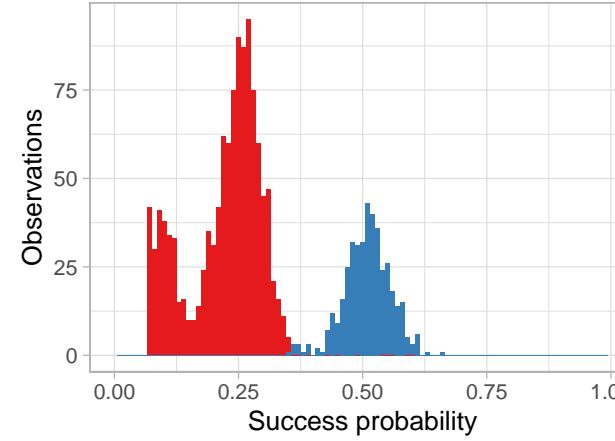
Karyotype: 2:1

N = 1622; Tail 5.63%, C3 14.59%, C1 24.59%



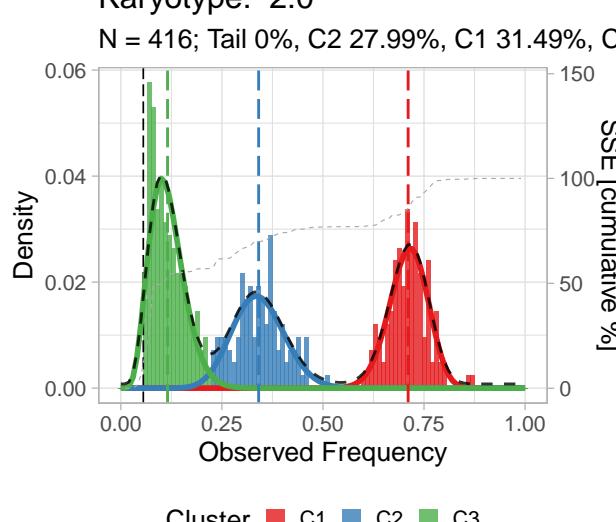
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



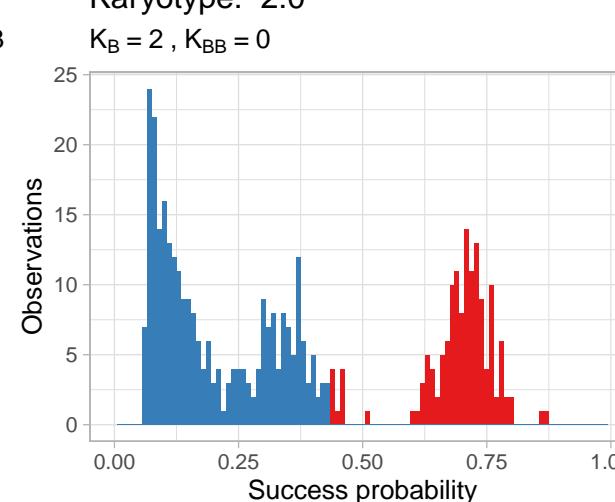
Karyotype: 2:0

N = 416; Tail 0%, C2 27.99%, C1 31.49%, C3

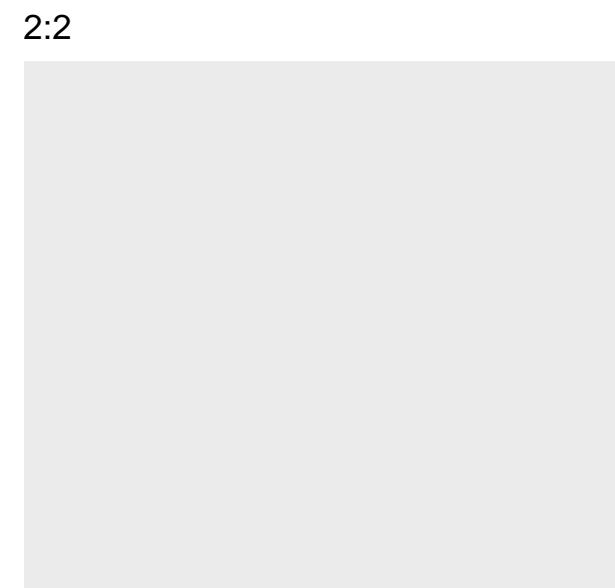


Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

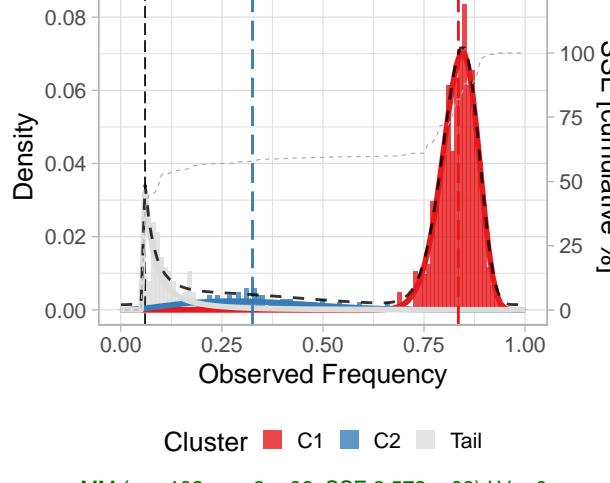


161220_HMFregCPCT_FR13271986_FR12246117_CPCT02050073

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 1041; C2 9.25%, Tail 13.01%, C1 77.73%

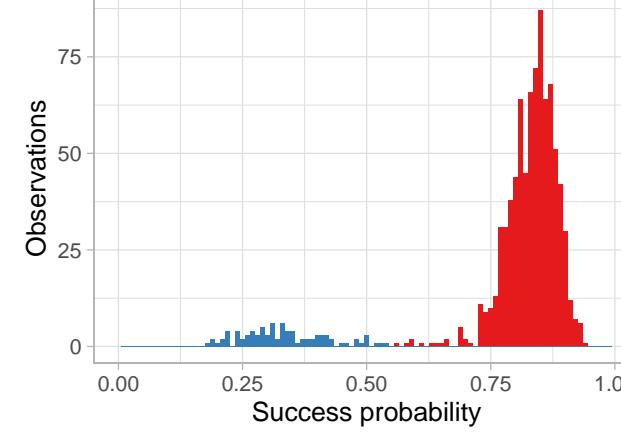


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 102$; $\epsilon = 3e-06$; SSE 2.572e-03) LV > 0

Karyotype: 1:0

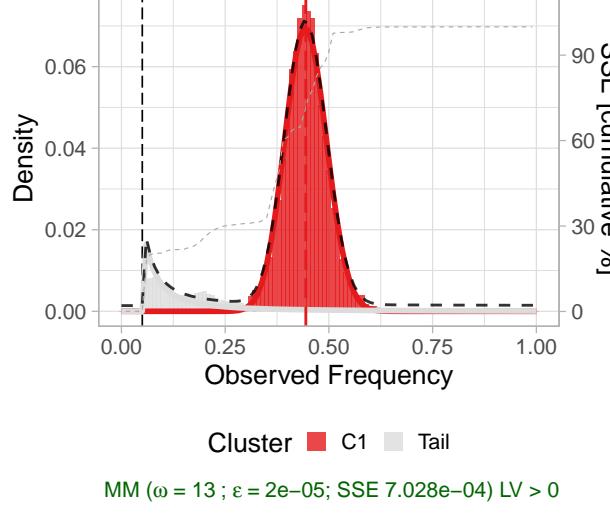
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 23346; Tail 12.94%, C1 87.06%

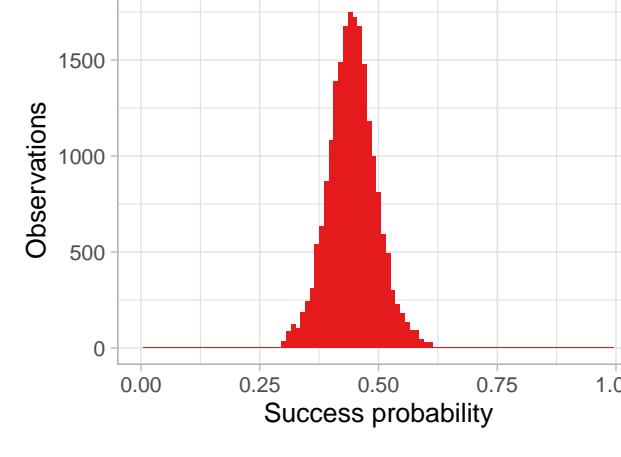


Cluster ■ C1 ■ Tail

MM ($\omega = 13$; $\epsilon = 2e-05$; SSE 7.028e-04) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

2:1

2:1

2:0

2:0

2:2

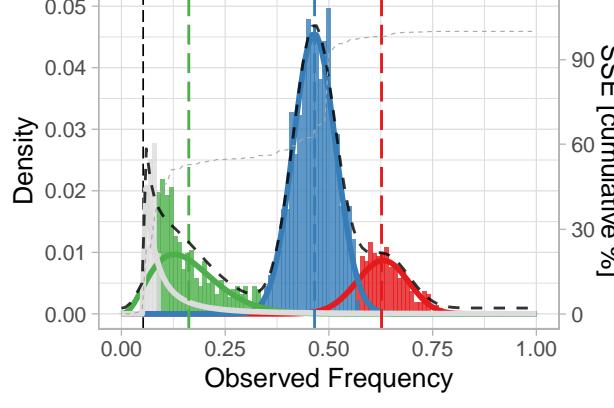
2:2

161220_HMFregCPCT_FR13271992_FR12246114_CPCT02050077

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

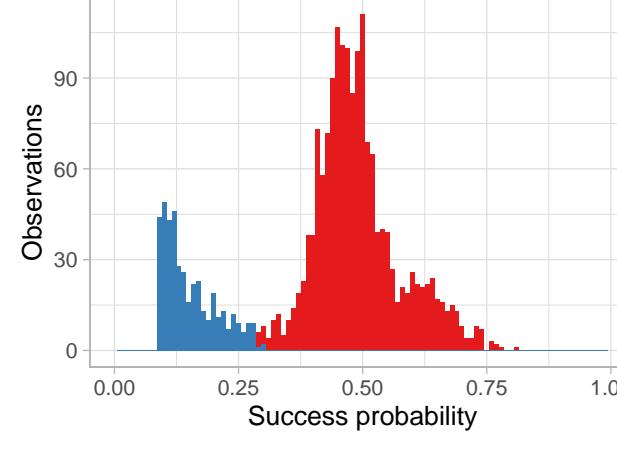
N = 2234; Tail 10.67%, C1 13.39%, C3 18.17%



MM ($\omega = 200$; $\epsilon = 1e-03$; SSE $1.875e-03$) LV > 0

Karyotype: 1:0

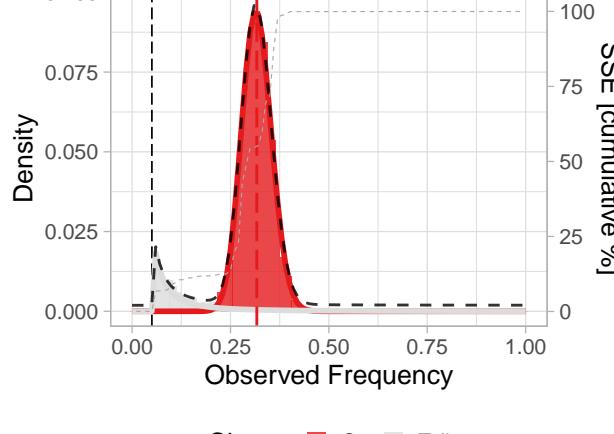
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 4760; Tail 11.28%, C1 88.72%

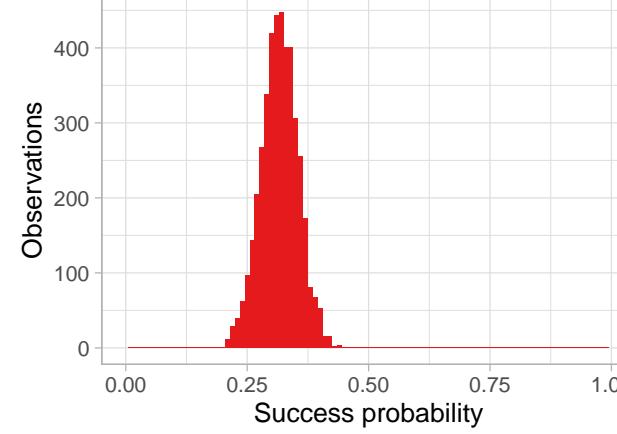


Cluster ■ C1 ■ Tail

MM ($\omega = 17$; $\epsilon = 2e-05$; SSE $1.295e-03$) LV > 0

Karyotype: 1:1

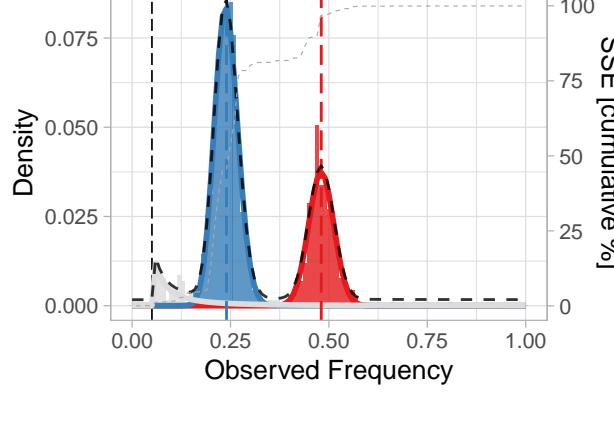
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

N = 1188; Tail 7.93%, C1 30%, C2 62.07%

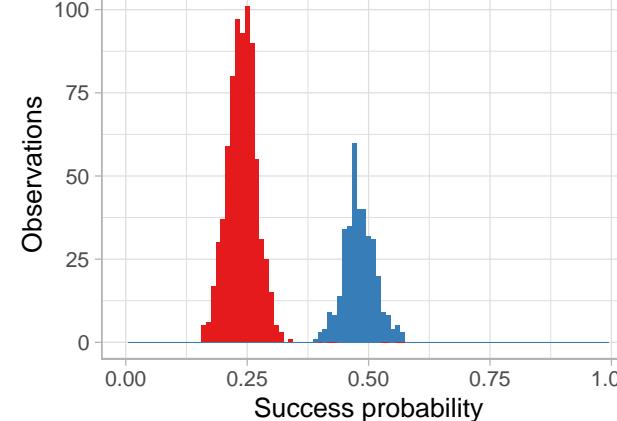


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 25$; $\epsilon = 3e-06$; SSE $1.570e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:0

2:0

2:2

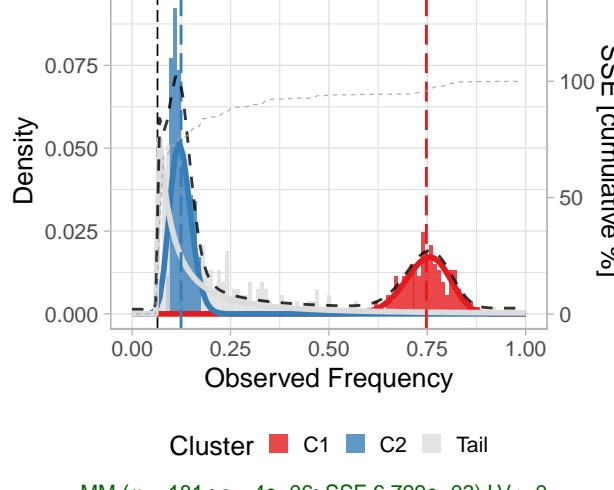
2:2

161220_HMFregCPCT_FR13275482_FR12246095_CPCT02220001

ONLY SNVs (min 150 – max 50000)

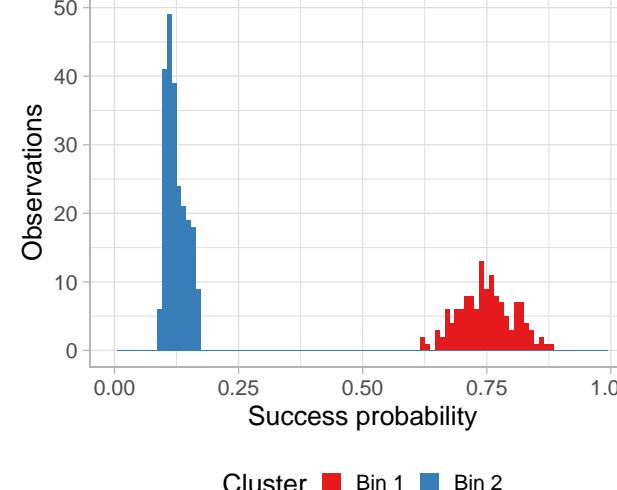
Karyotype: 1:0

N = 531; C1 23.92%, C2 34.02%, Tail 42.05%



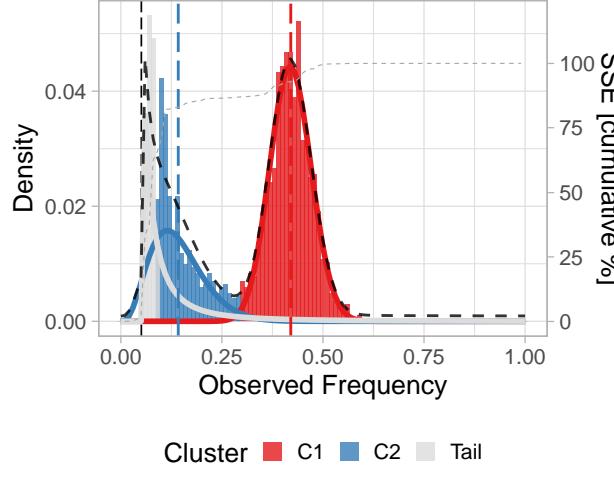
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



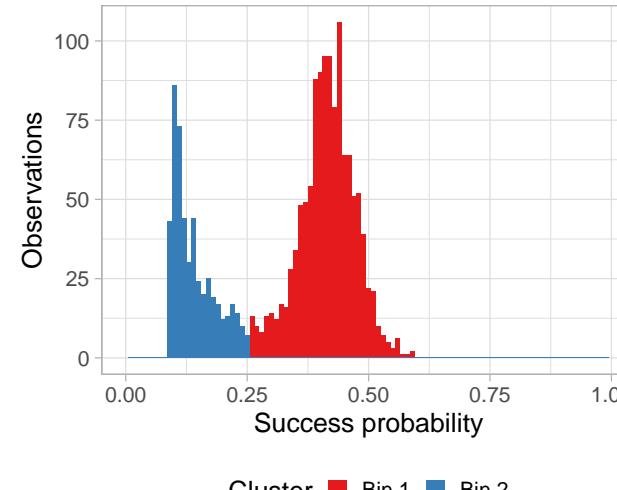
Karyotype: 1:1

N = 2032; Tail 19.07%, C2 24.47%, C1 56.47%



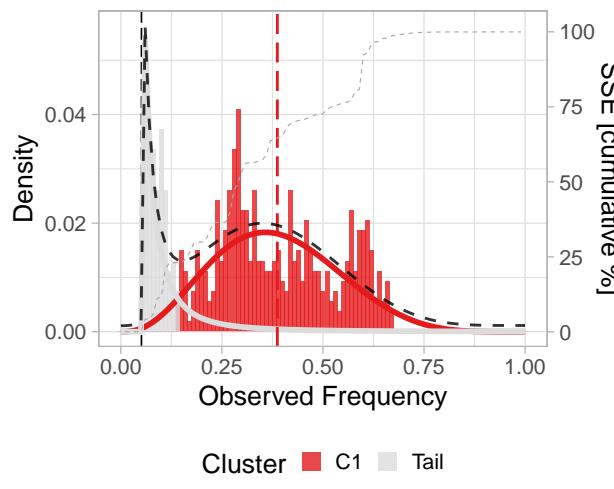
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



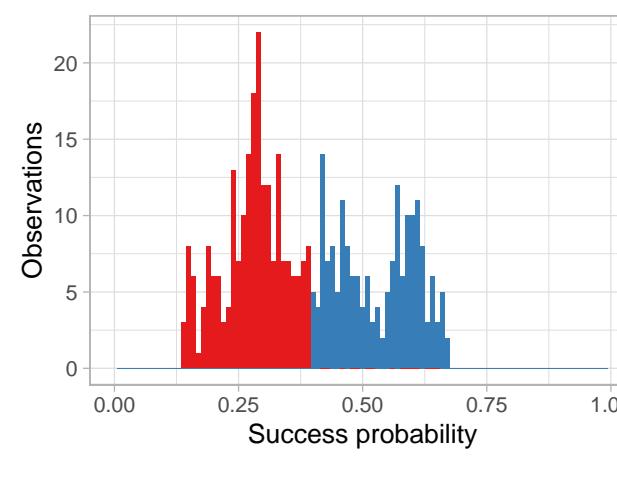
Karyotype: 2:1

N = 536; Tail 26.88%, C1 73.12%



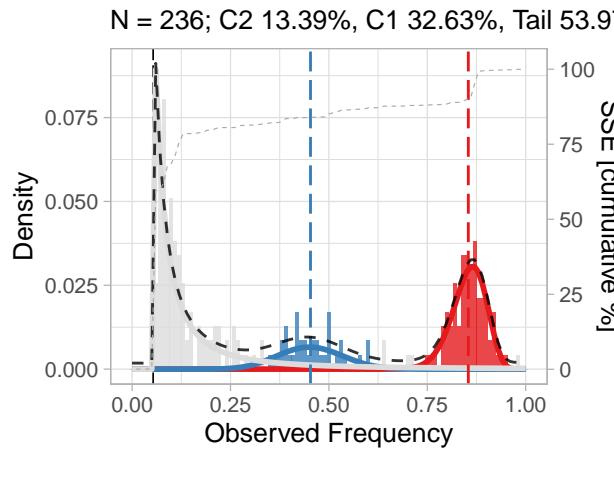
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



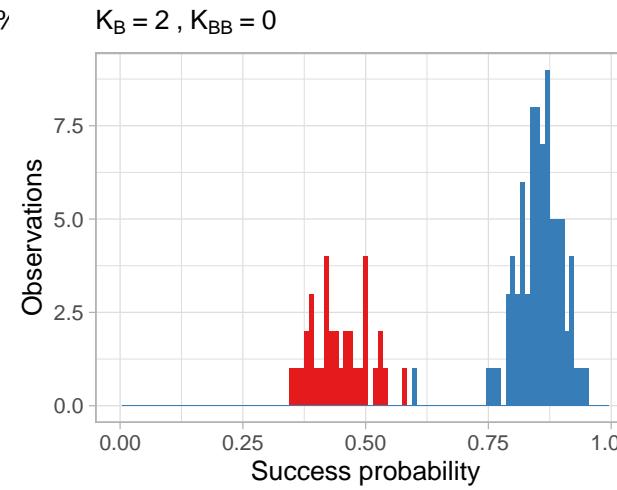
Karyotype: 2:0

N = 236; C2 13.39%, C1 32.63%, Tail 53.97%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

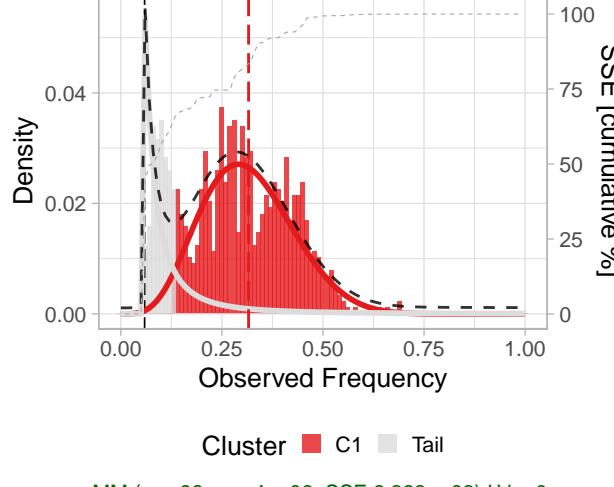


161220_HMFregCPCT_FR13275509_FR12246170_CPCT02020403

ONLY SNVs (min 150 – max 50000)

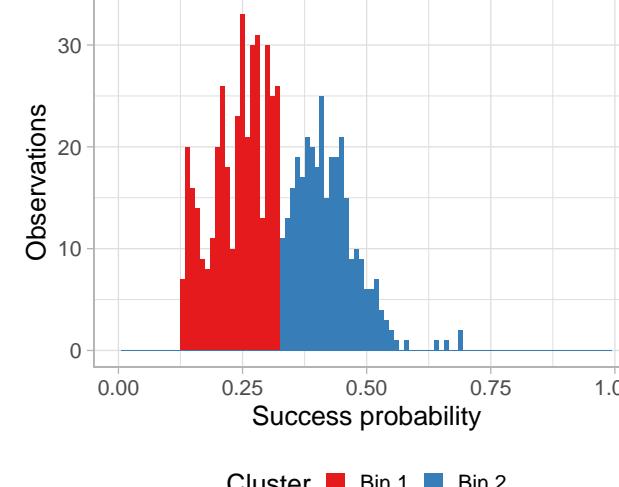
Karyotype: 1:0

N = 884; Tail 22.83%, C1 77.17%



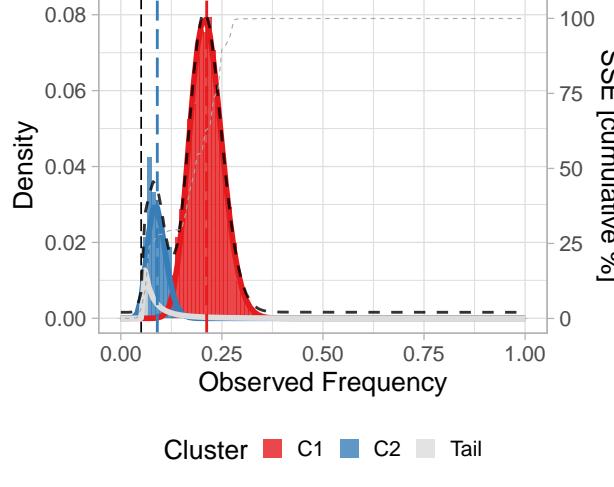
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



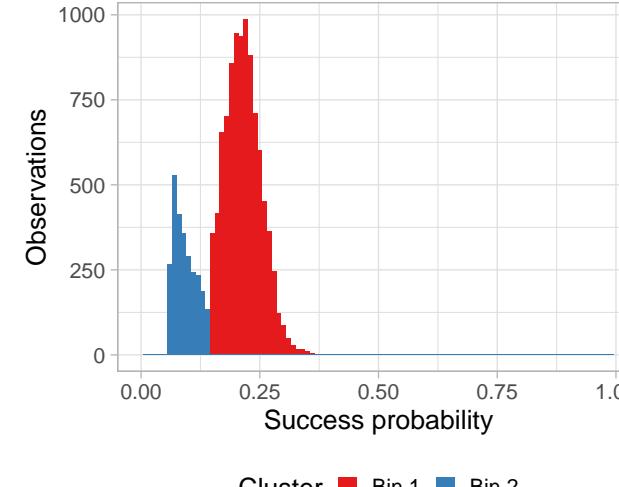
Karyotype: 1:1

N = 12450; Tail 5.38%, C2 16.51%, C1 78.11%



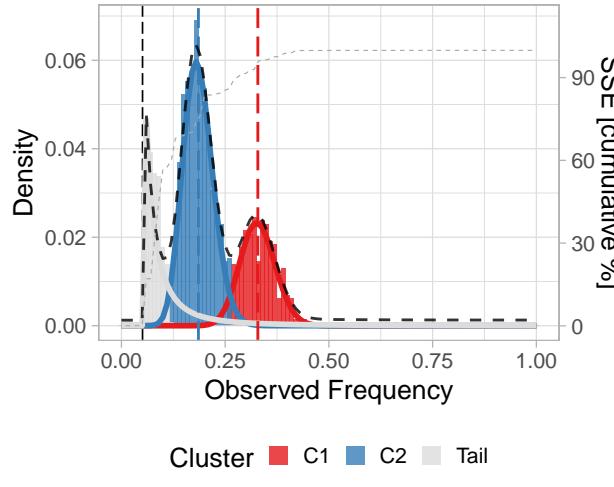
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



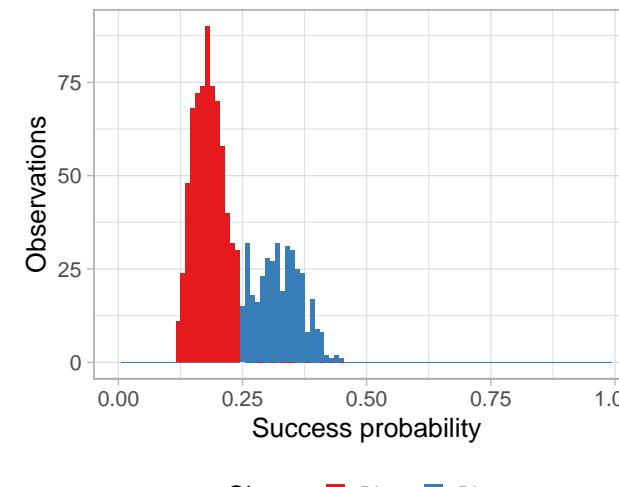
Karyotype: 2:1

N = 1302; Tail 22.19%, C1 24.64%, C2 53.17%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

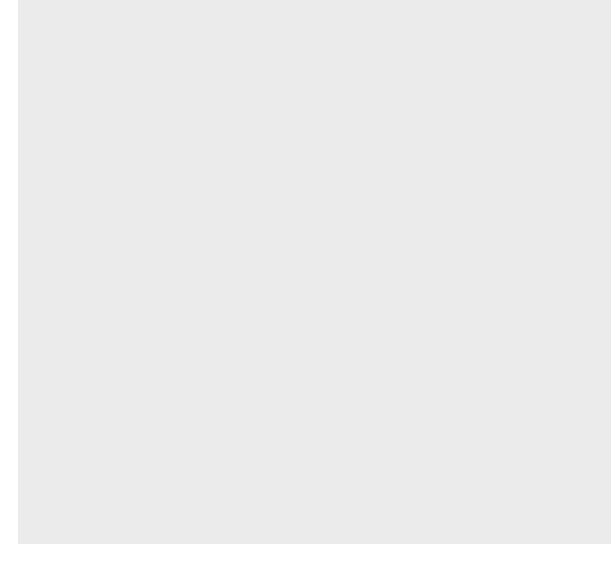
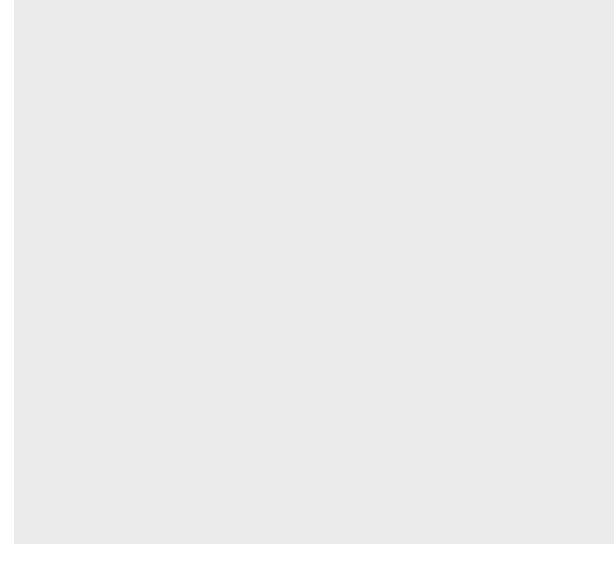
2:2

161220_HMFregCPCT_FR13275520_FR12246105_CPCT02010440

ONLY SNVs (min 150 – max 50000)

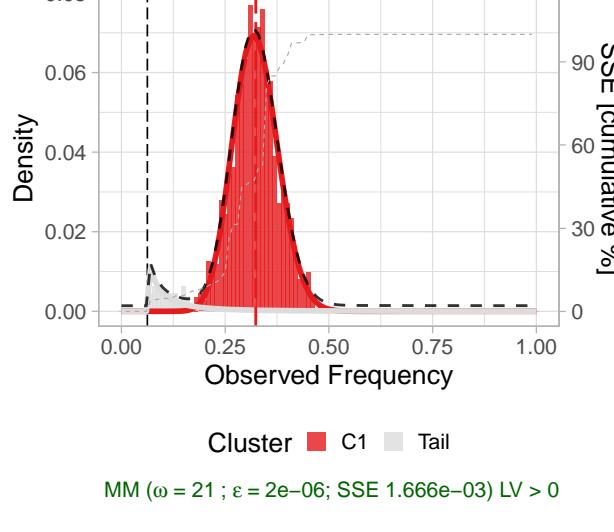
1:0

1:0



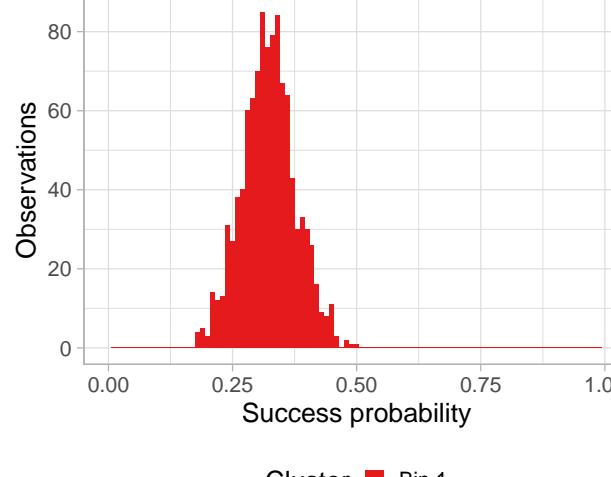
Karyotype: 1:1

N = 1106; Tail 6.3%, C1 93.7%



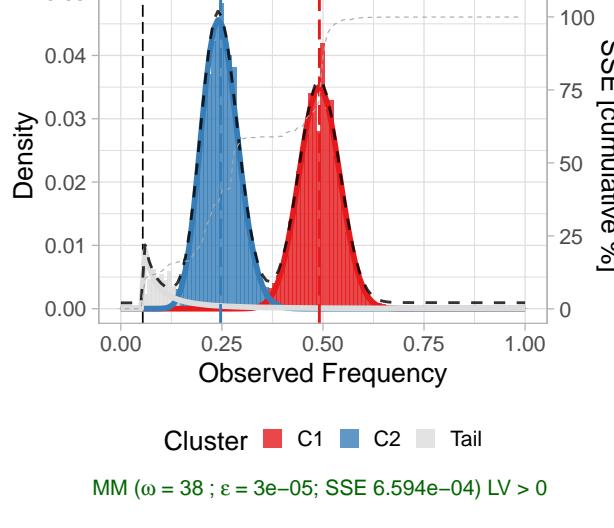
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



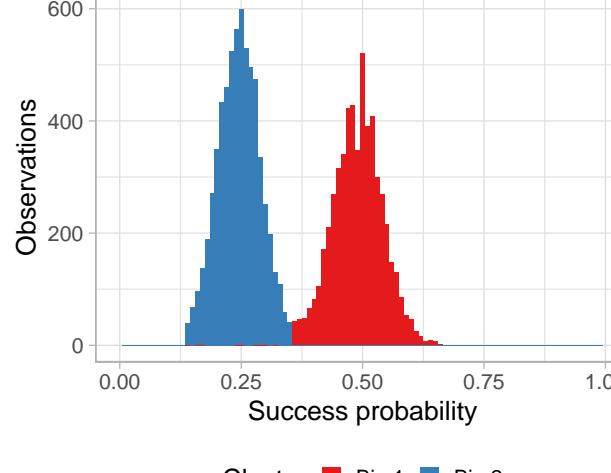
Karyotype: 2:1

N = 12402; Tail 5.34%, C1 43.87%, C2 50.8%



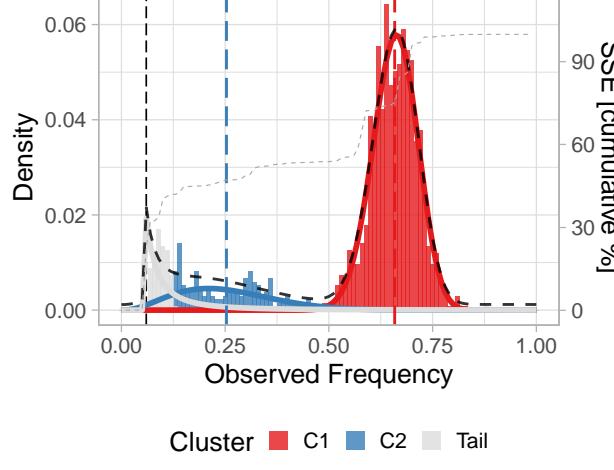
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



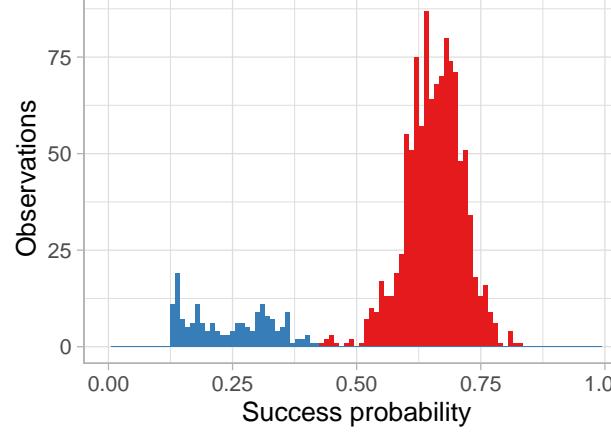
Karyotype: 2:0

N = 1354; Tail 8.64%, C2 13.09%, C1 78.27%



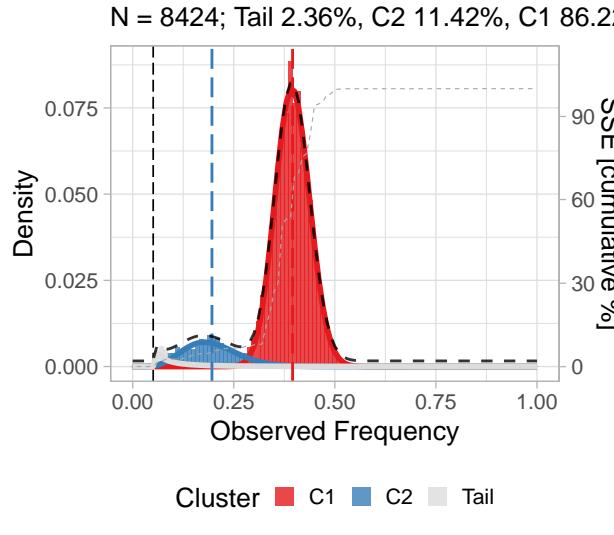
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



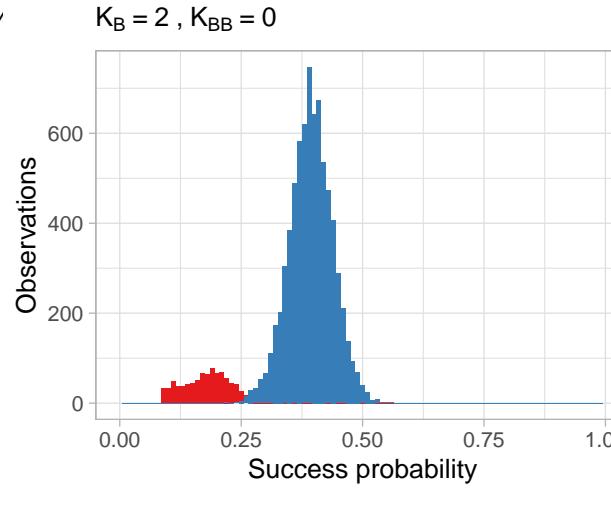
Karyotype: 2:2

N = 8424; Tail 2.36%, C2 11.42%, C1 86.22%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

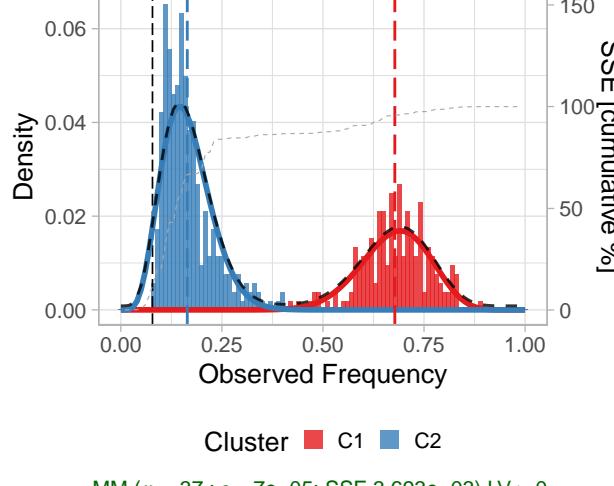


161225_HMFregCPCT_FR12245807_FR12246110_CPCT02030293

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

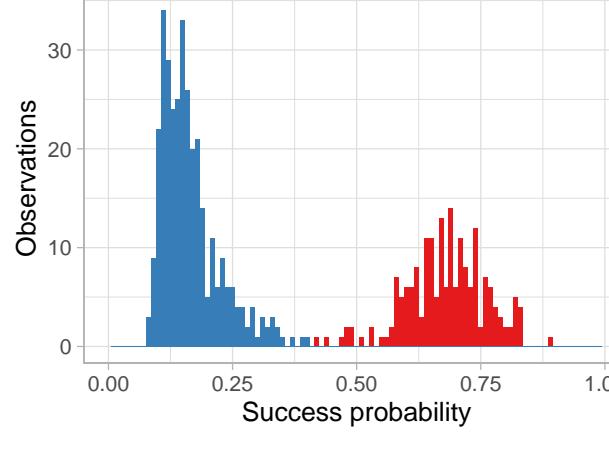
N = 521; Tail 0%, C1 36.27%, C2 63.73%



MM ($\omega = 37$; $\epsilon = 7e-05$; SSE 3.693e-03) LV > 0

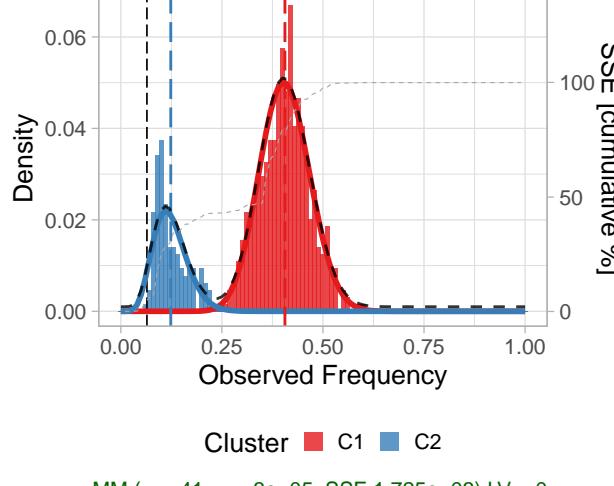
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

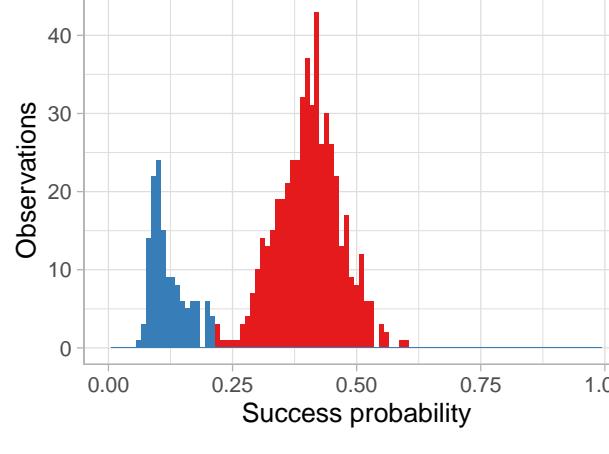
N = 643; Tail 0%, C2 22.1%, C1 77.9%



MM ($\omega = 41$; $\epsilon = 3e-05$; SSE 1.725e-03) LV > 0

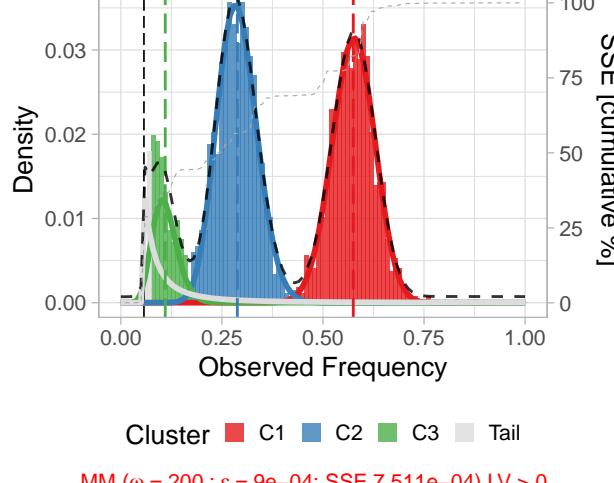
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

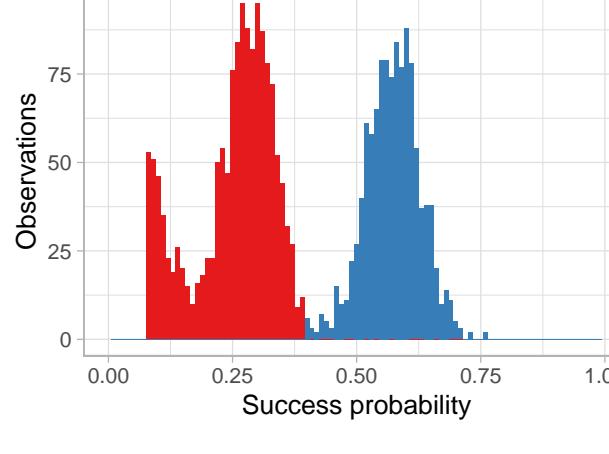
N = 2661; Tail 5.82%, C3 9.1%, C1 41.56%, C2 44.54%



MM ($\omega = 200$; $\epsilon = 9e-04$; SSE 7.511e-04) LV > 0

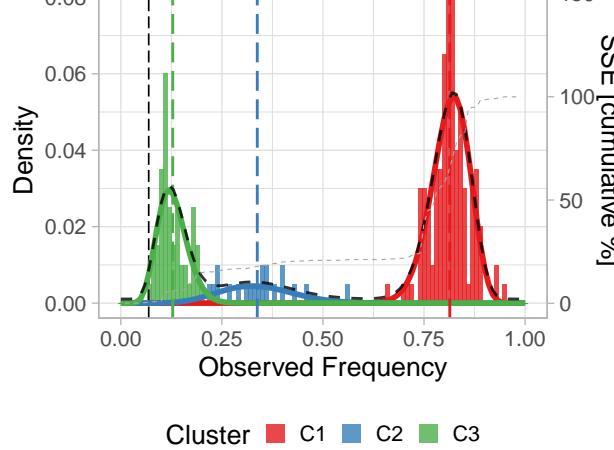
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

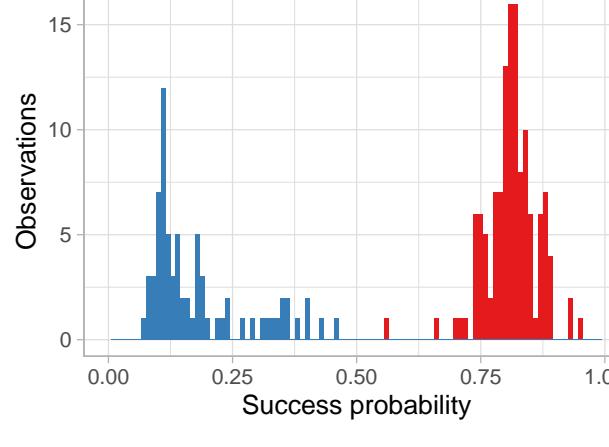
N = 200; Tail 0%, C2 10.17%, C3 26.34%, C1 63.69%



MM ($\omega = 135$; $\epsilon = 2e-06$; SSE 6.342e-03) LV > 0

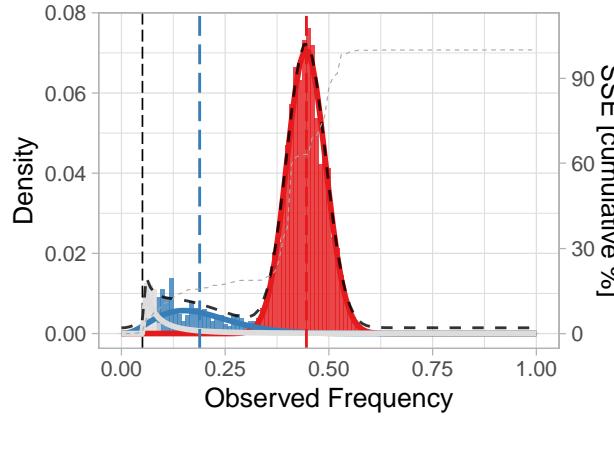
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

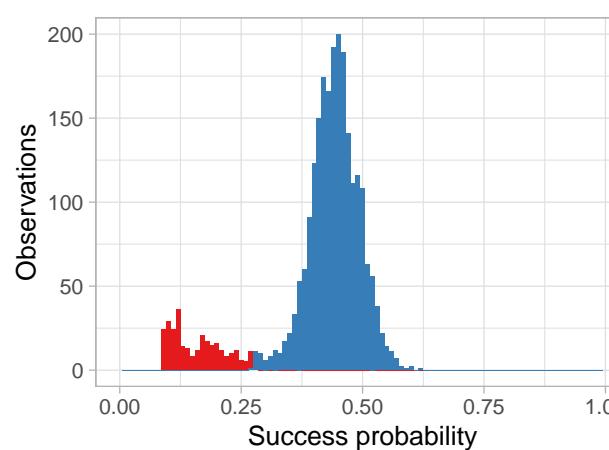
N = 2622; Tail 5.64%, C2 12.33%, C1 82.03%



MM ($\omega = 171$; $\epsilon = 8e-06$; SSE 8.909e-04) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

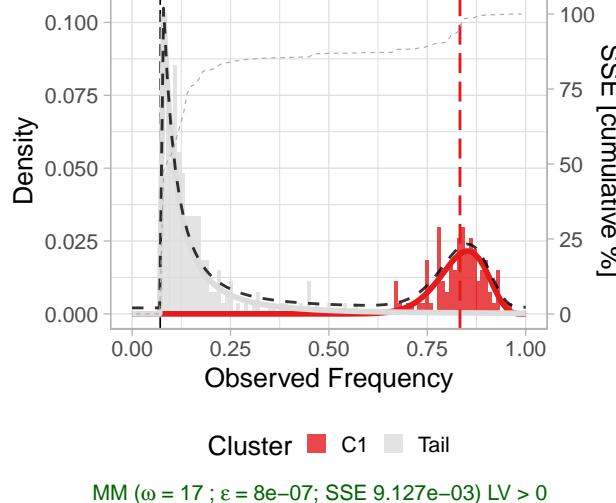


161225_HMFregCPCT_FR12245809_FR12246112_CPCT02050082

ONLY SNVs (min 150 – max 50000)

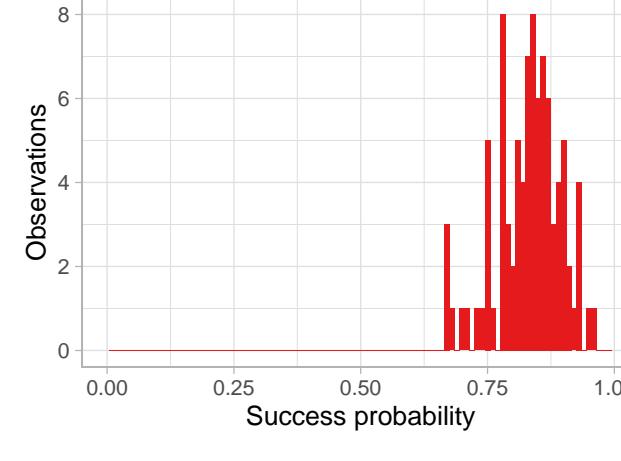
Karyotype: 1:0

N = 270; C1 32.24%, Tail 67.76%



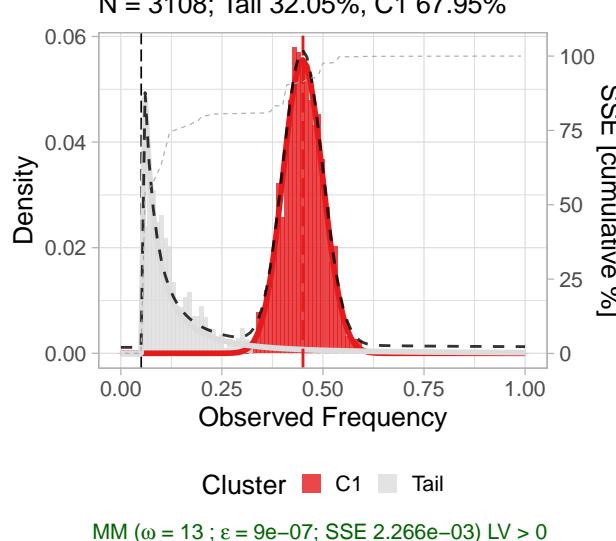
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



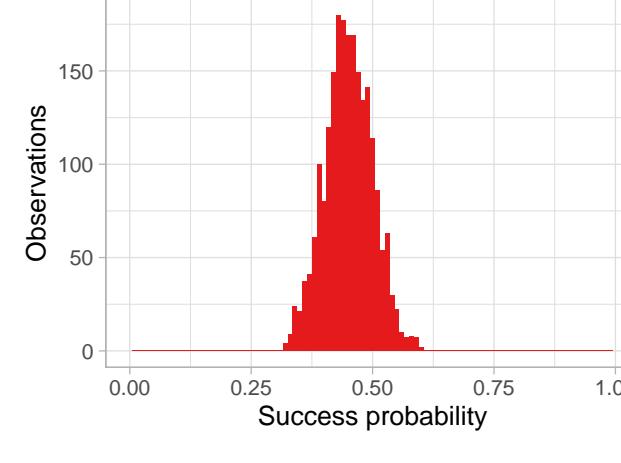
Karyotype: 1:1

N = 3108; Tail 32.05%, C1 67.95%



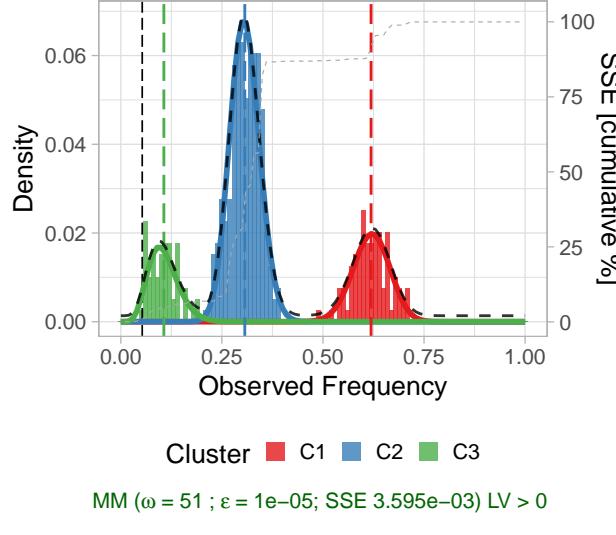
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



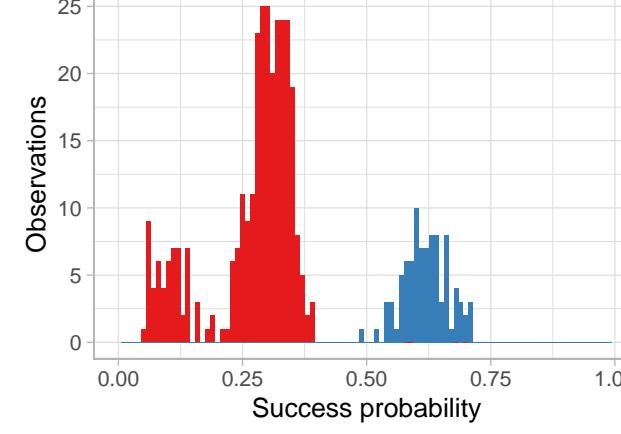
Karyotype: 2:1

N = 397; Tail 0%, C3 15.08%, C1 22.67%, C2



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Cluster C1 C2 C3

MM ($\omega = 51$; $\epsilon = 1e-05$; SSE $3.595e-03$) LV > 0

Cluster Bin 1 Bin 2

2:0

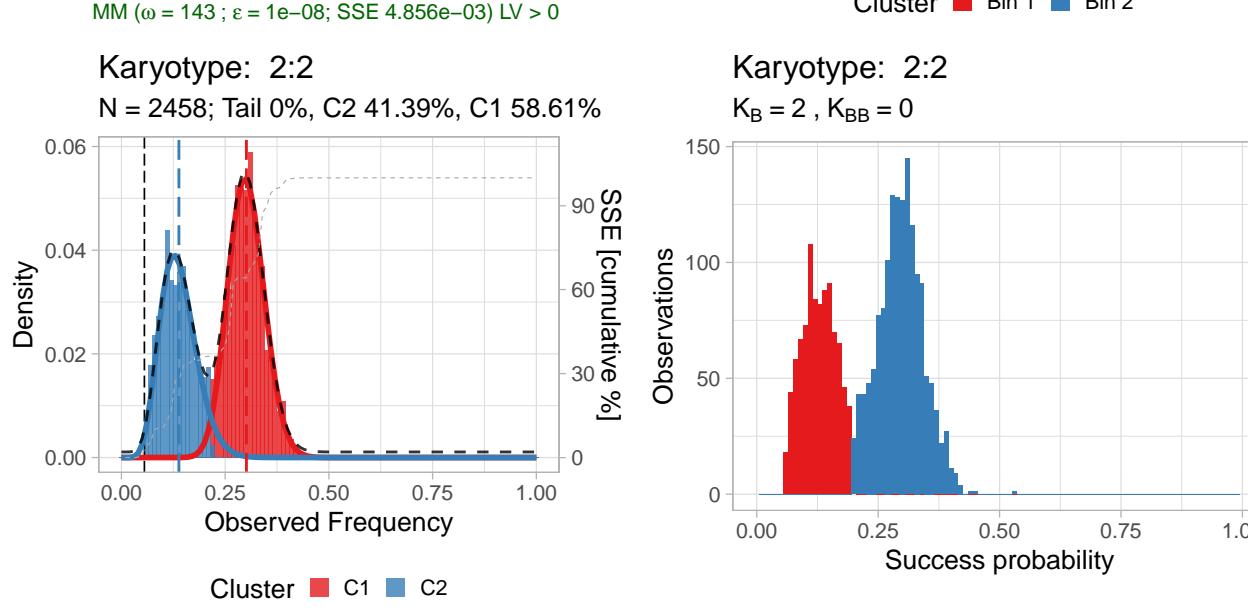
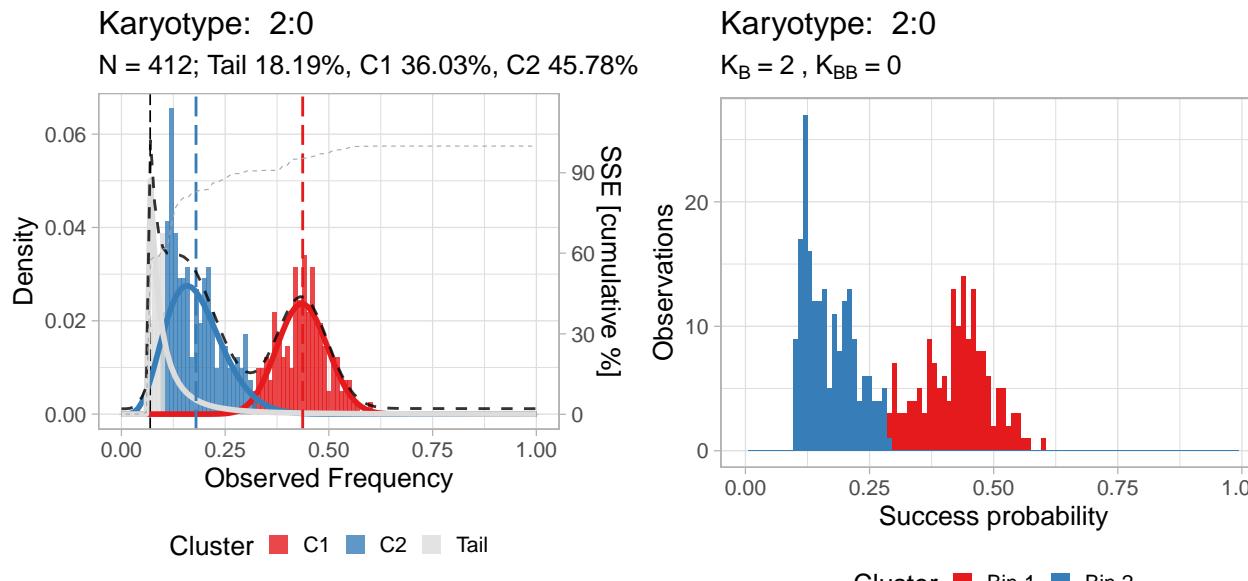
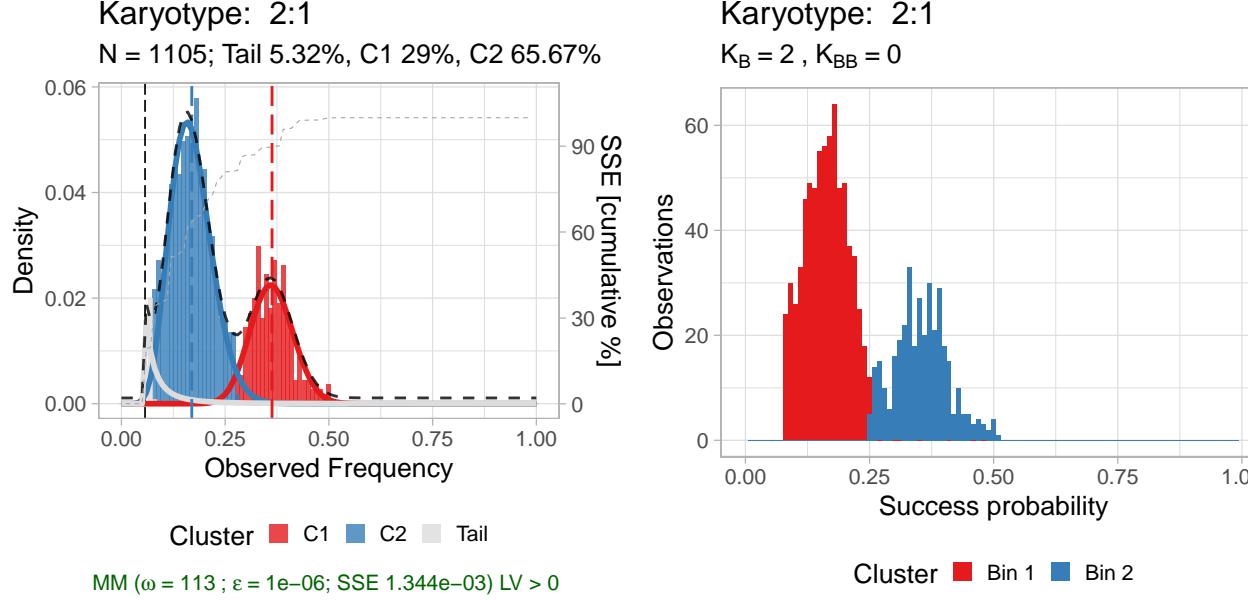
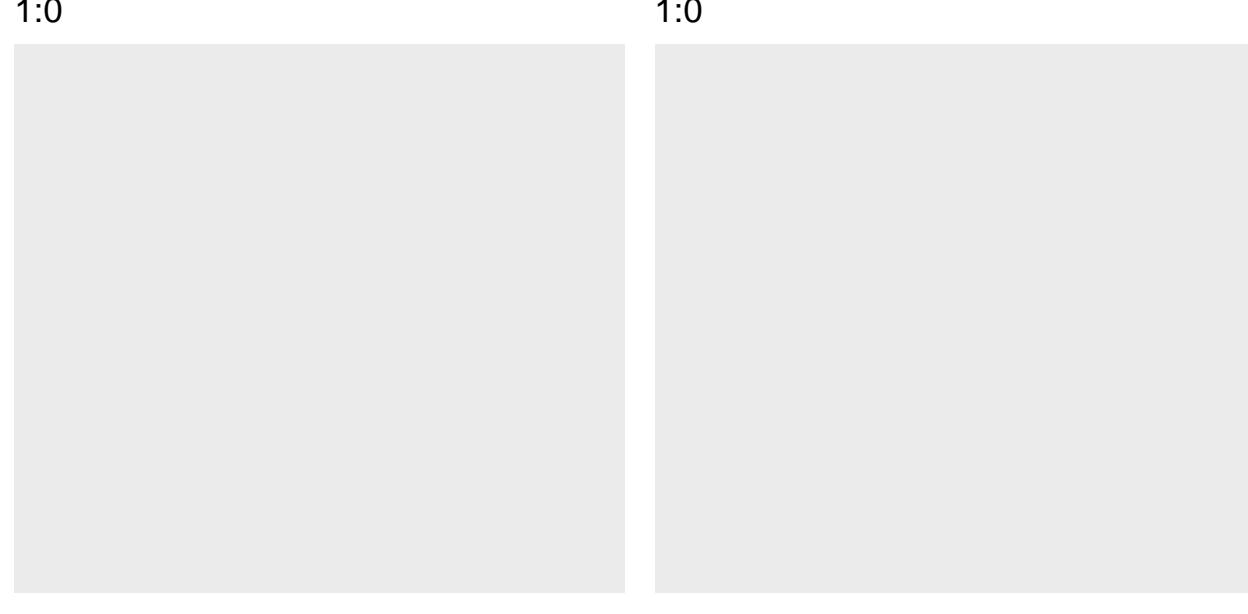
2:0

2:2

2:2

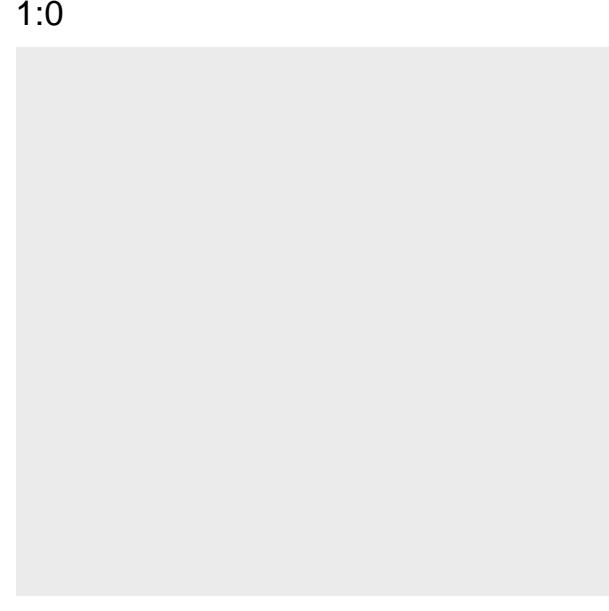
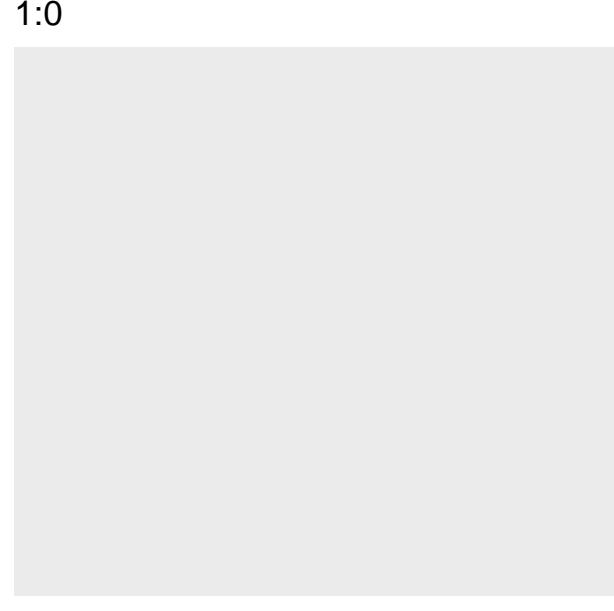
161225_HMFregCPCT_FR12246211_FR12246088_CPCT02300001

ONLY SNVs (min 150 – max 50000)

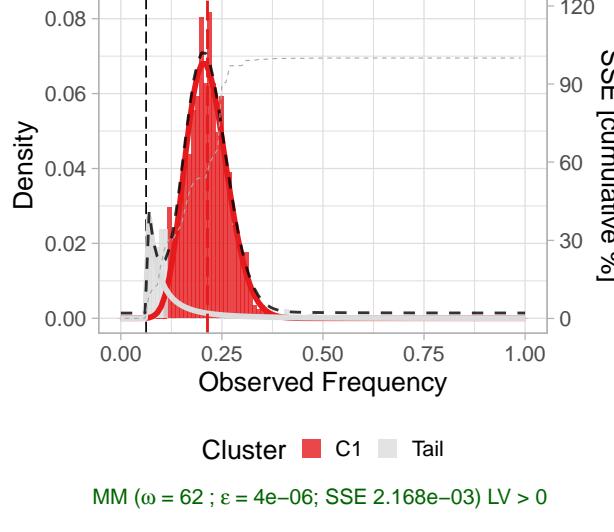


161225_HMFregCPCT_FR12246214_FR12246100_CPCT02330009

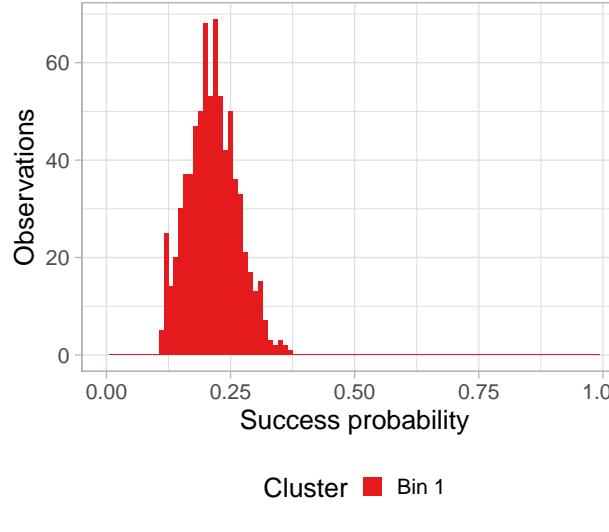
ONLY SNVs (min 150 – max 50000)



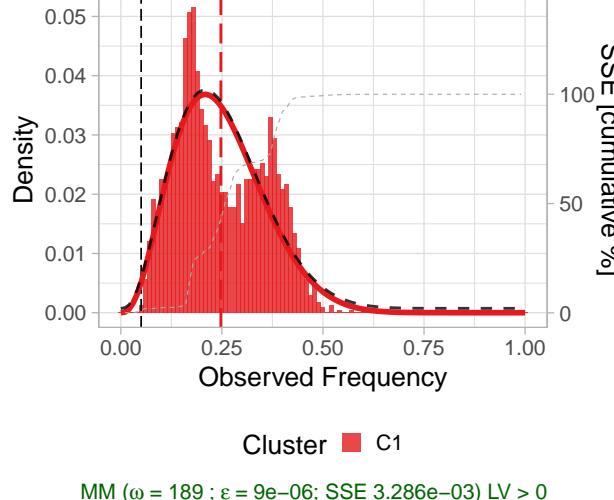
Karyotype: 1:1
N = 845; Tail 13.49%, C1 86.51%



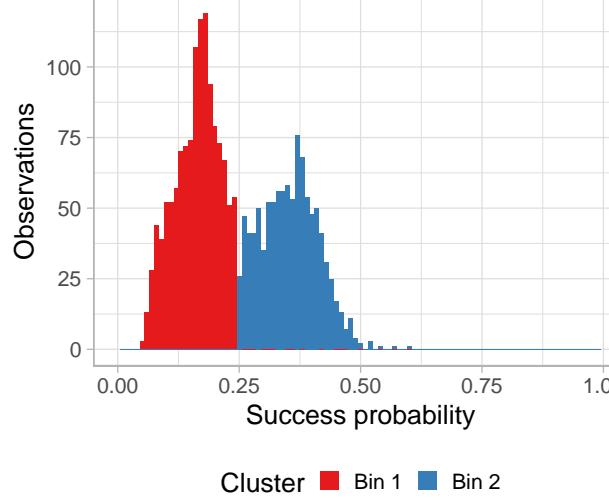
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



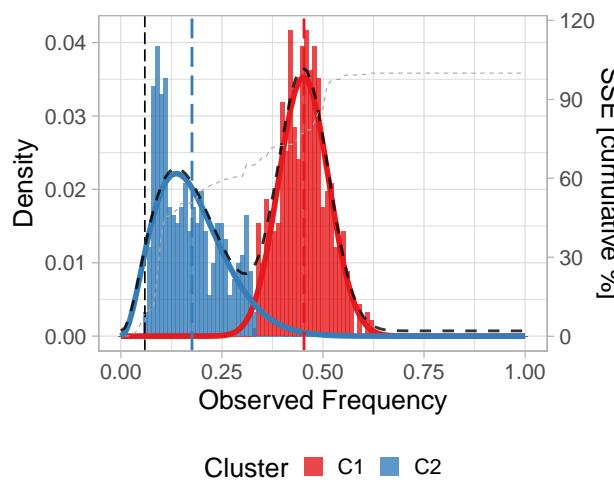
Karyotype: 2:1
N = 2306; Tail 0%, C1 100%



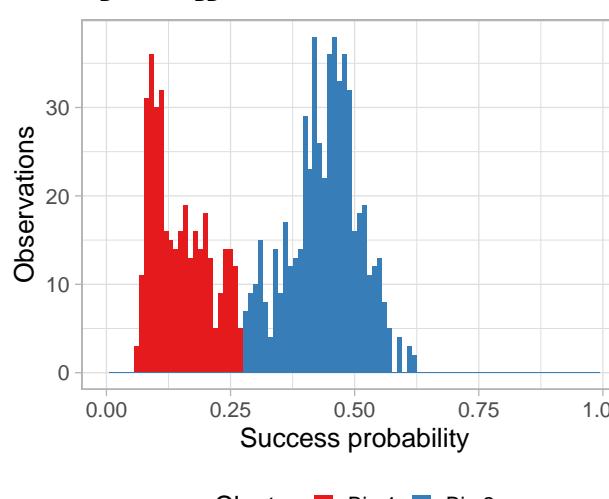
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



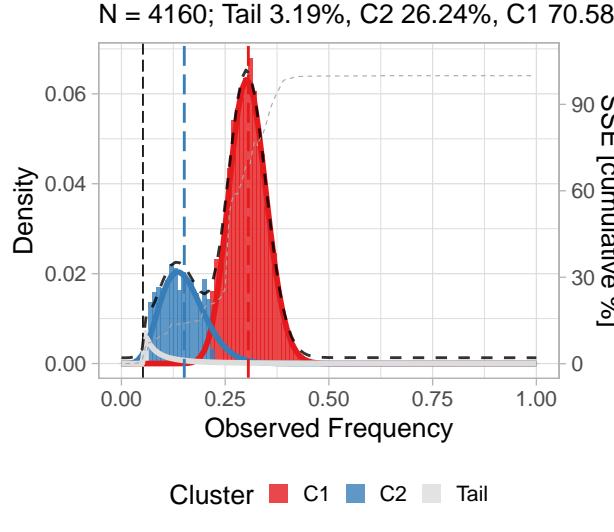
Karyotype: 2:0
N = 912; Tail 0%, C2 45.86%, C1 54.14%



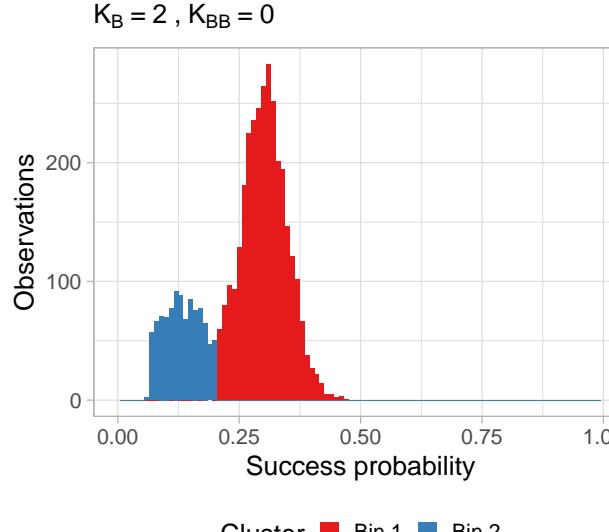
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 4160; Tail 3.19%, C2 26.24%, C1 70.58%

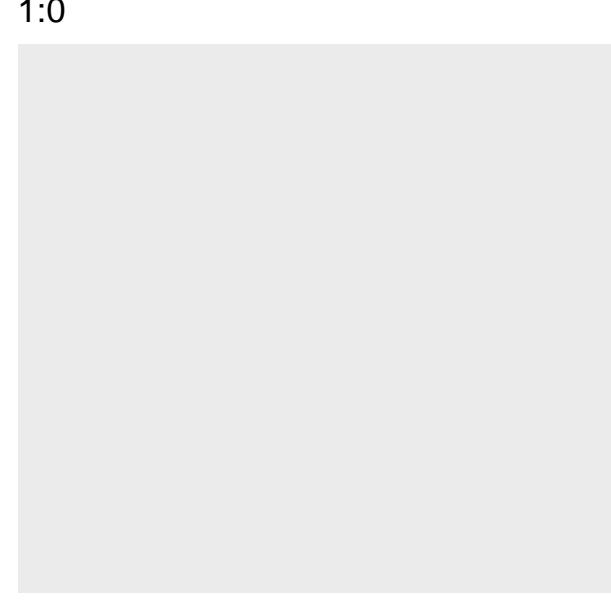
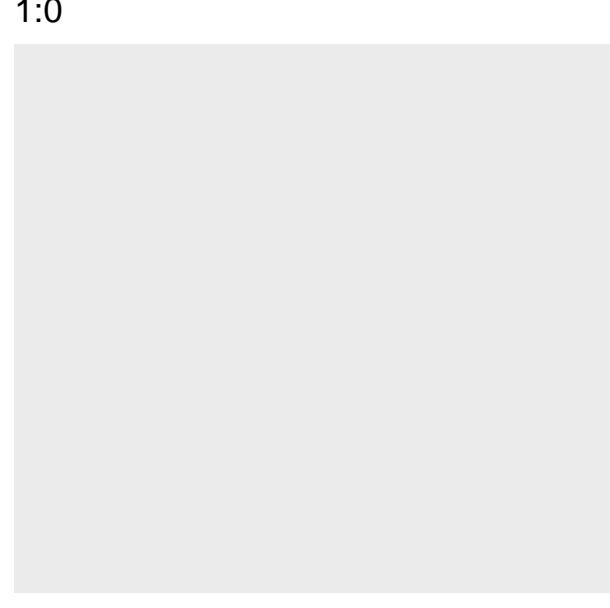


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

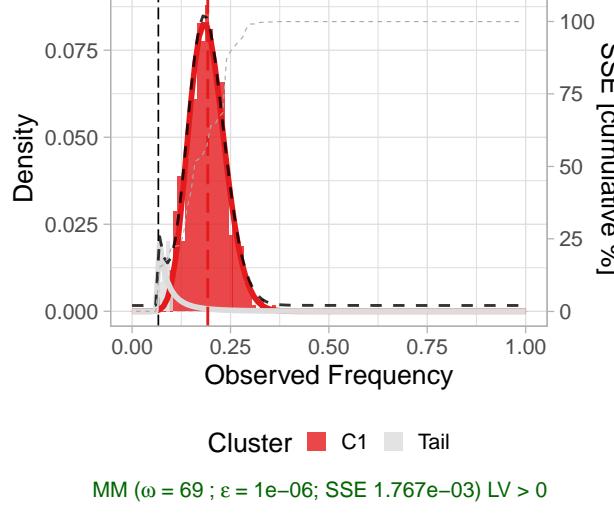


161225_HMFregCPCT_FR12246224_FR12246096_CPCT02040063

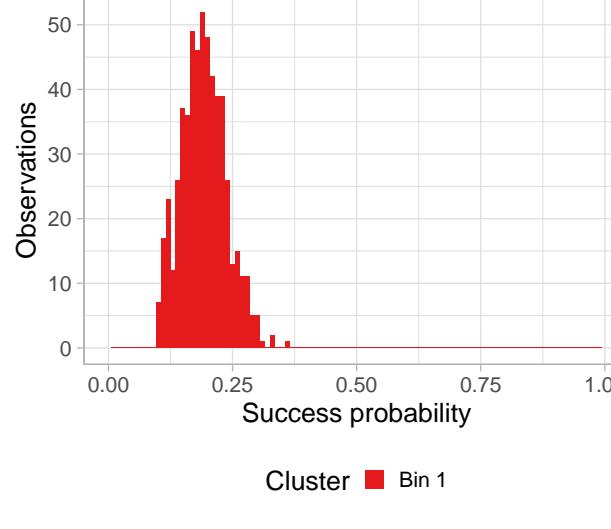
ONLY SNVs (min 150 – max 50000)



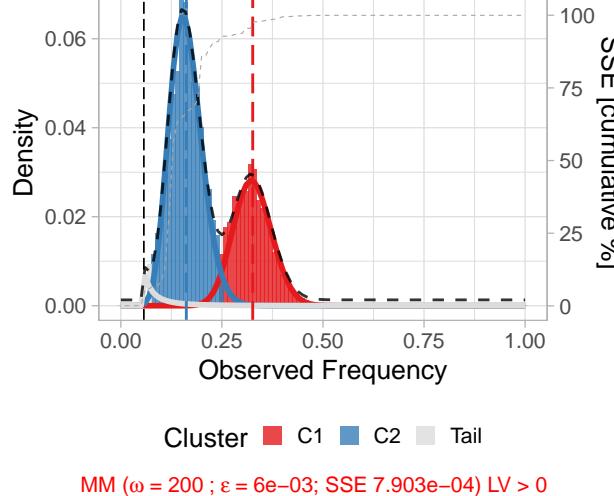
Karyotype: 1:1
N = 592; Tail 6.61%, C1 93.39%



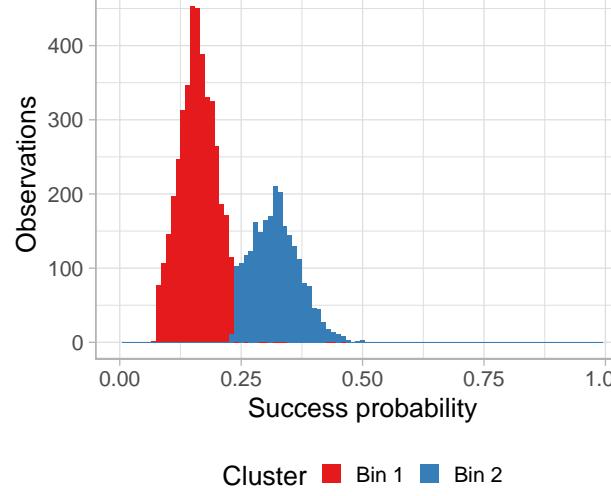
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



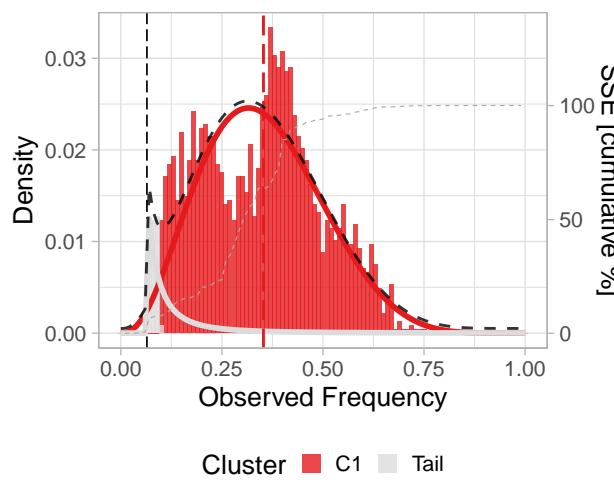
Karyotype: 2:1
N = 6591; Tail 2.4%, C1 33.28%, C2 64.32%



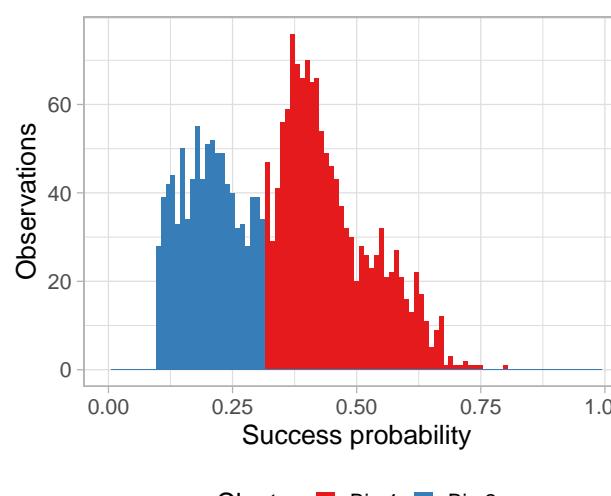
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



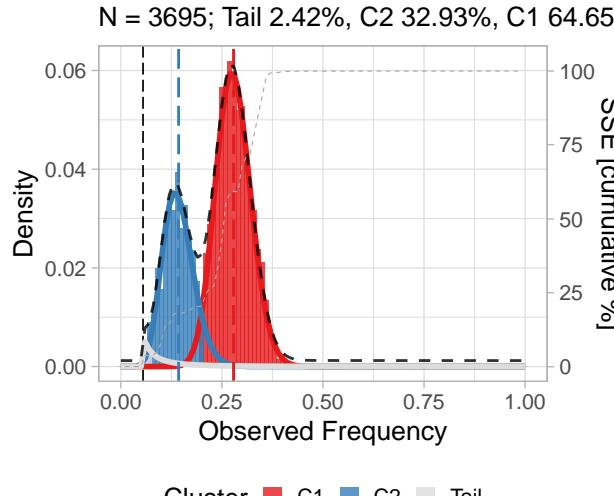
Karyotype: 2:0
N = 2277; Tail 6.37%, C1 93.63%



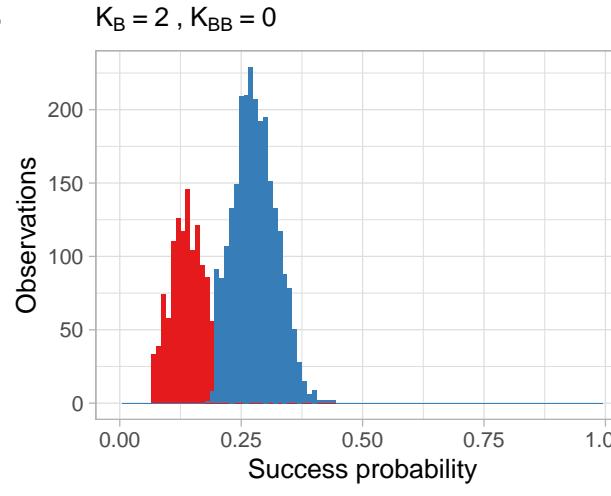
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 3695; Tail 2.42%, C2 32.93%, C1 64.65%

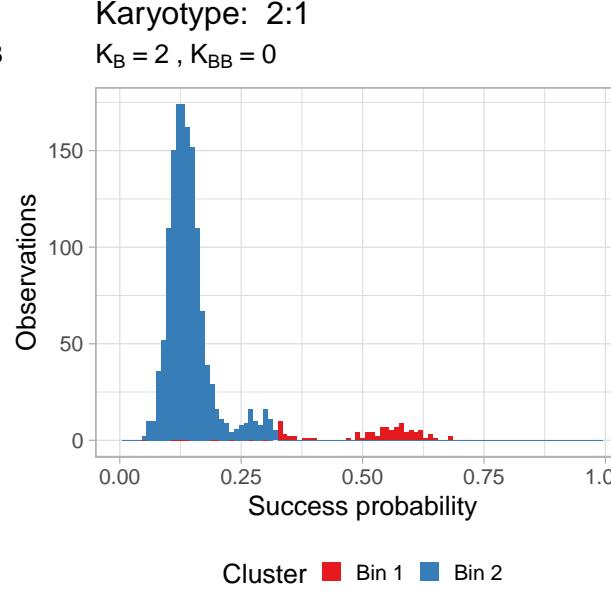
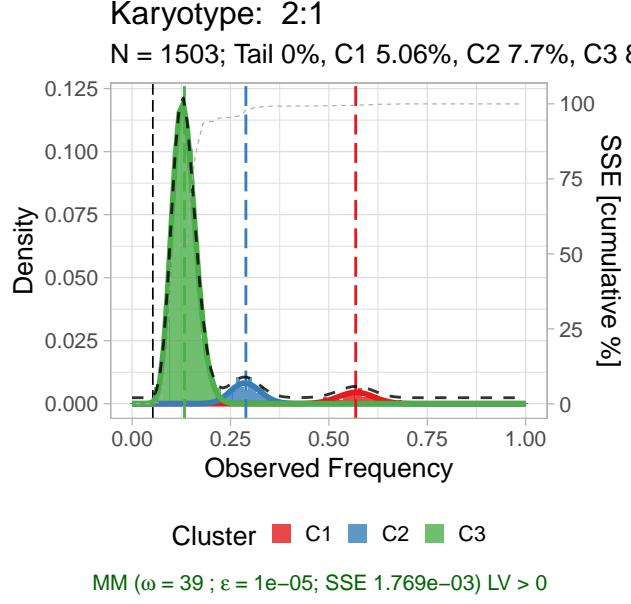
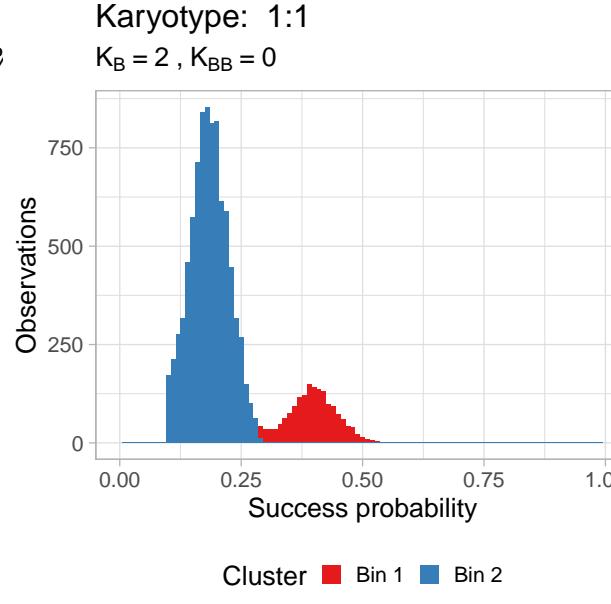
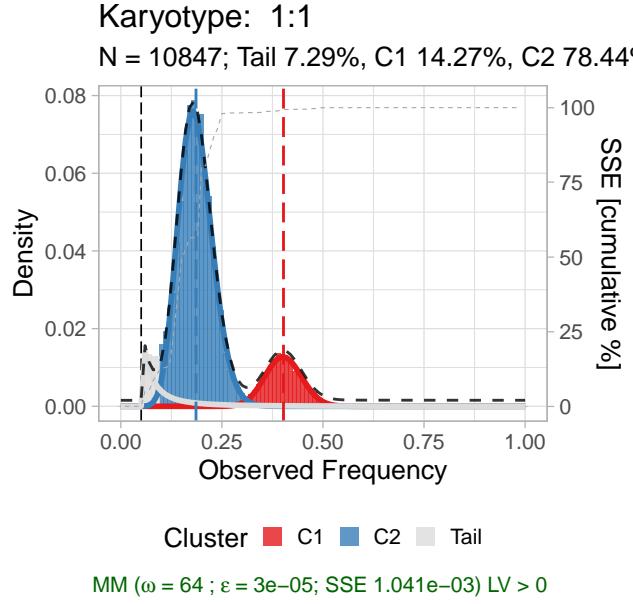
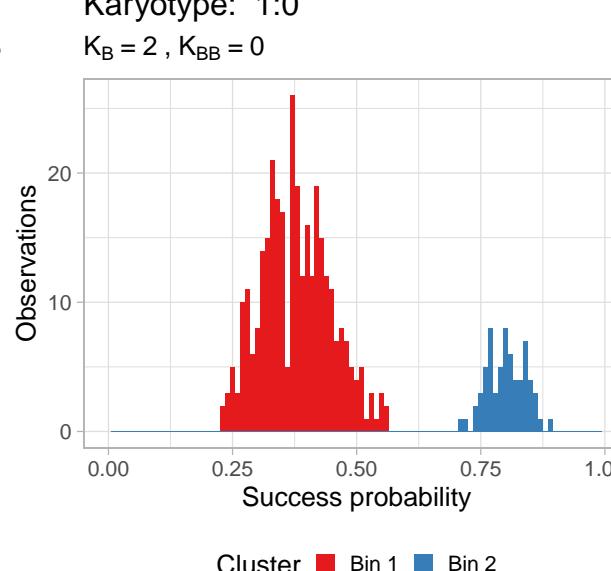
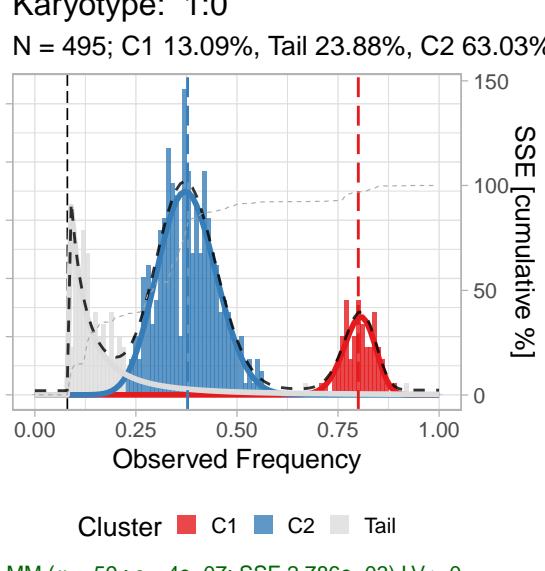


Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$

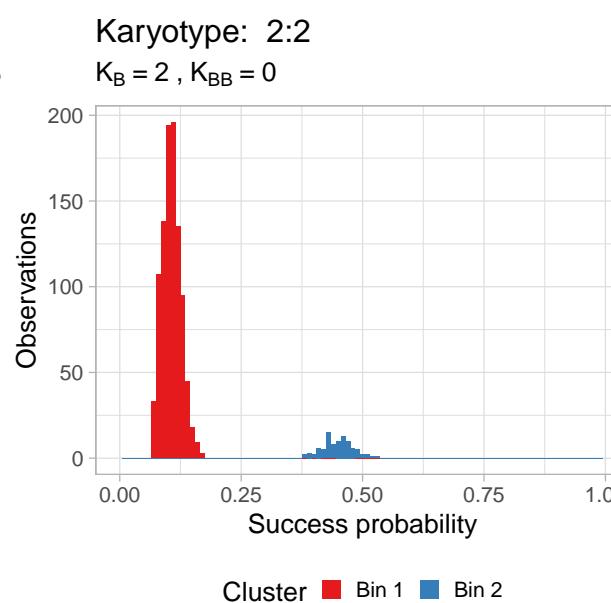
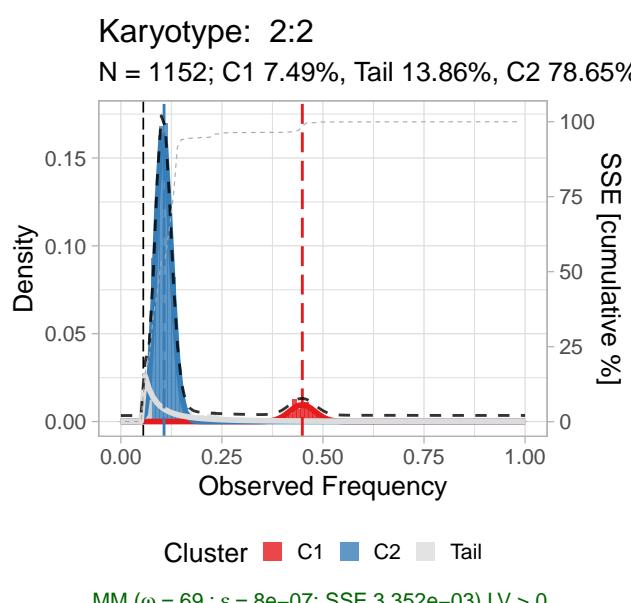
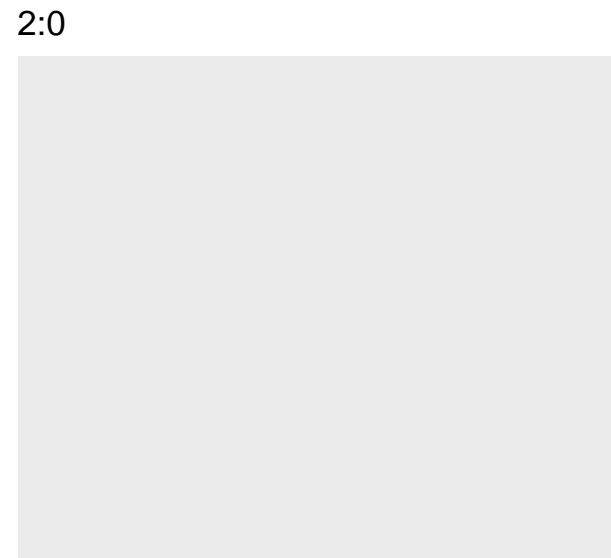


161225_HMFregCPCT_FR12246233_FR12246091_CPCT02070038

ONLY SNVs (min 150 – max 50000)

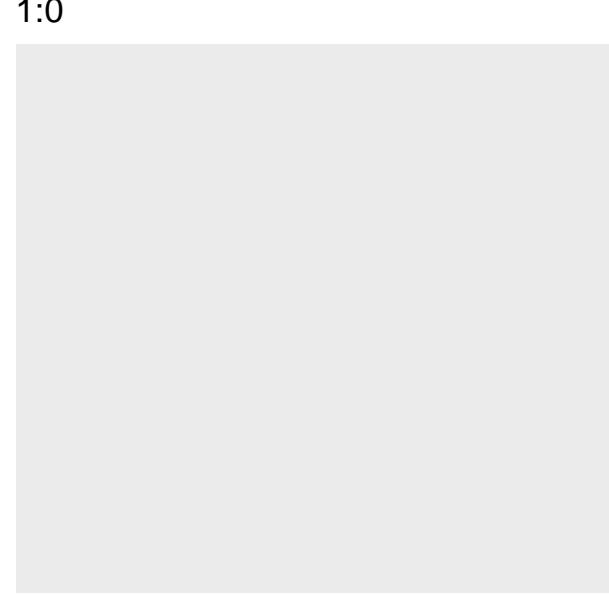
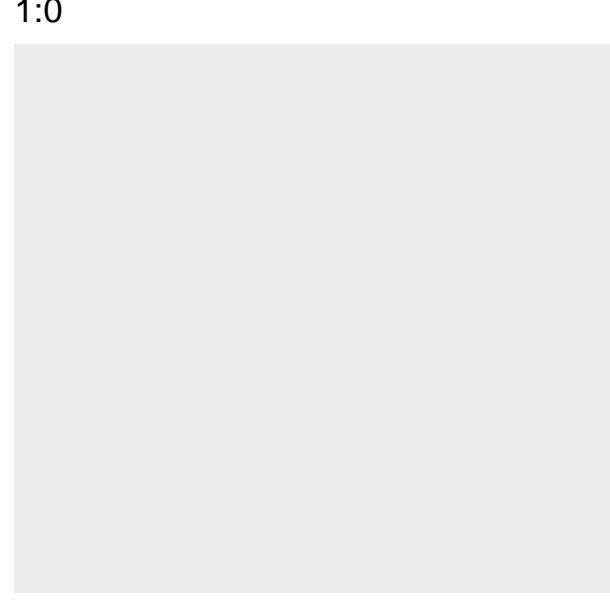


2:0

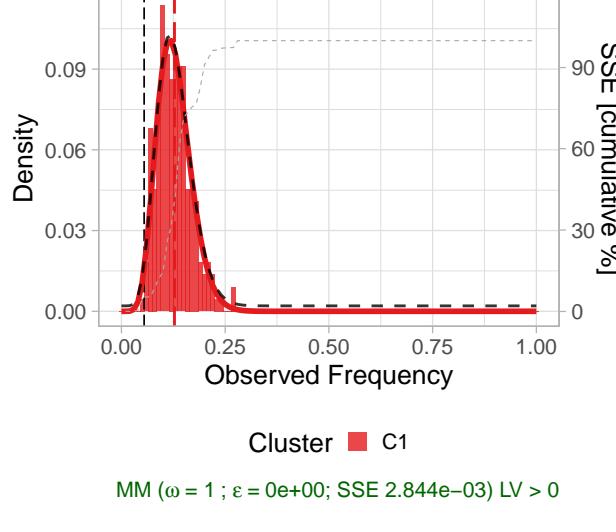


161228_HMFregCPCT_FR12246016_FR12246062_CPCT02060058

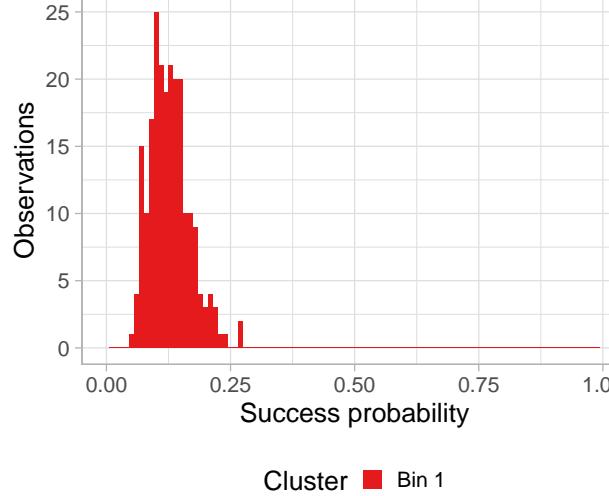
ONLY SNVs (min 150 – max 50000)



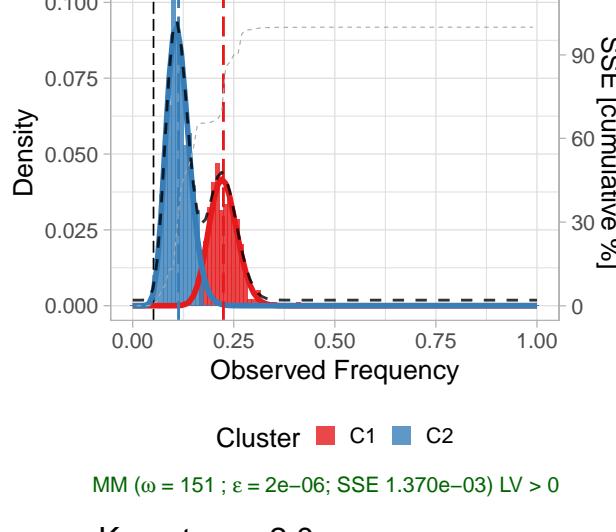
Karyotype: 1:1
N = 220; Tail 0%, C1 100%



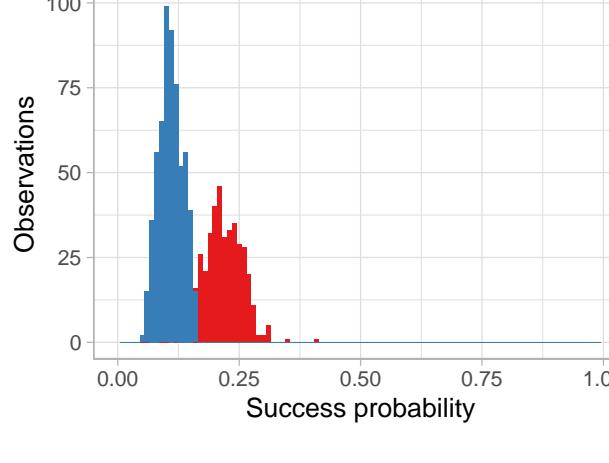
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



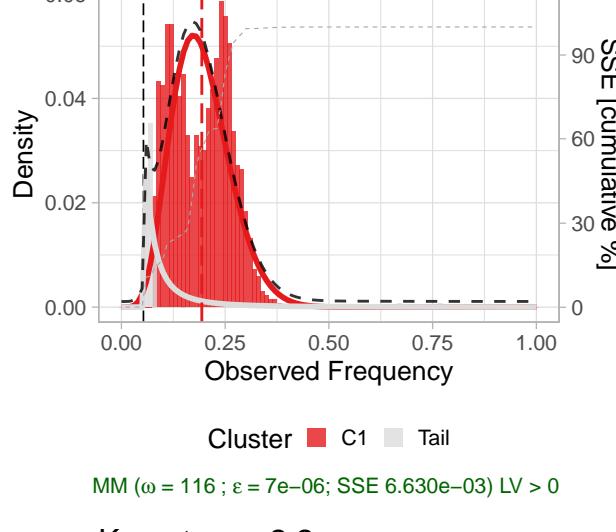
Karyotype: 2:1
N = 982; Tail 0%, C1 35.72%, C2 64.28%



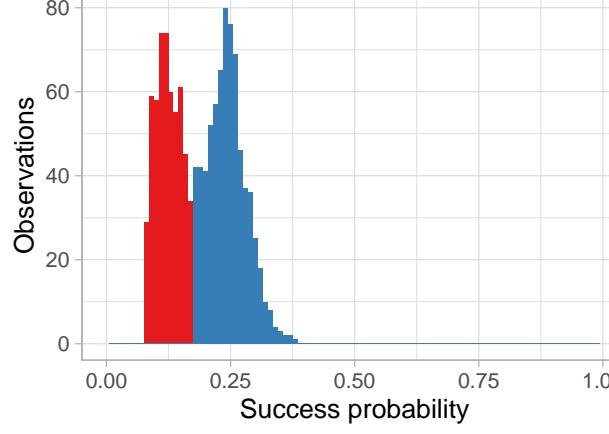
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



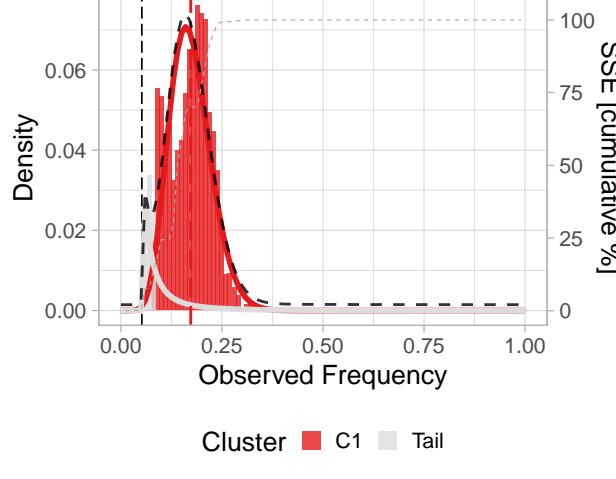
Karyotype: 2:0
N = 1365; Tail 11.56%, C1 88.44%



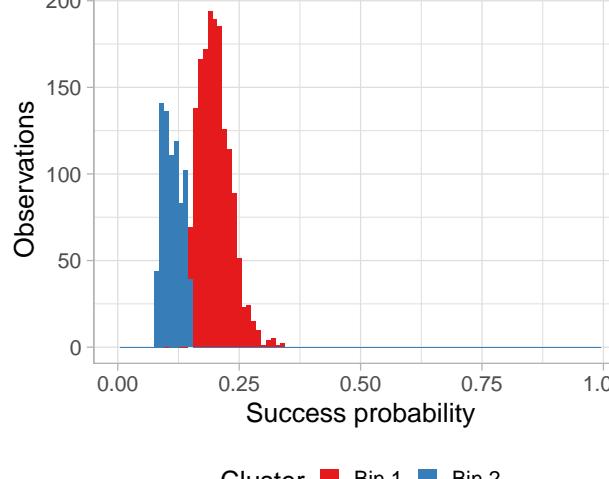
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 2543; Tail 11.31%, C1 88.69%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

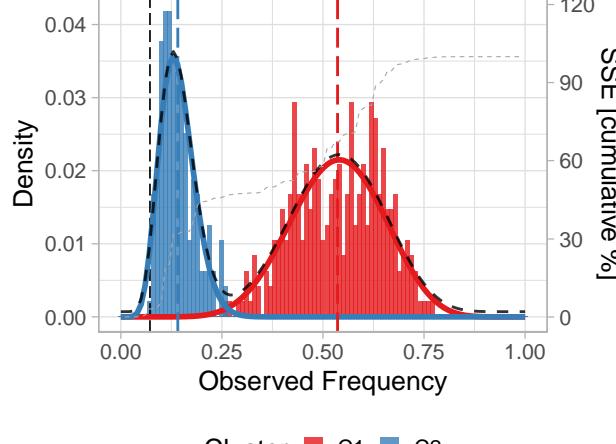


161228_HMFregCPCT_FR12246021_FR12246067_CPCT02060050

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

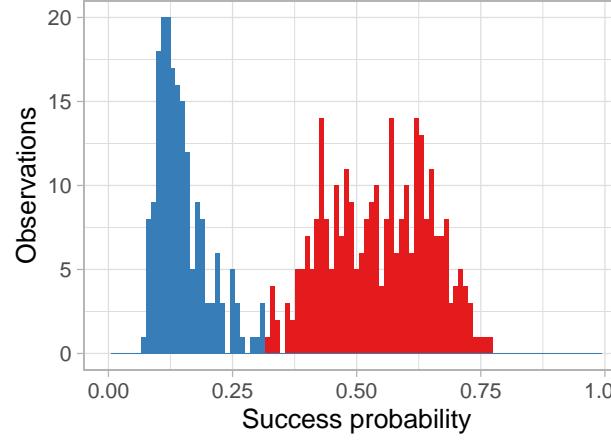
N = 478; Tail 0%, C2 37.23%, C1 62.77%



MM ($\omega = 54$; $\epsilon = 1e-05$; SSE 3.098e-03) LV > 0

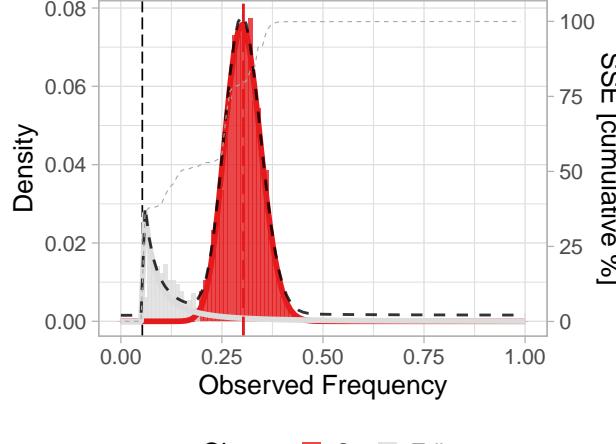
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

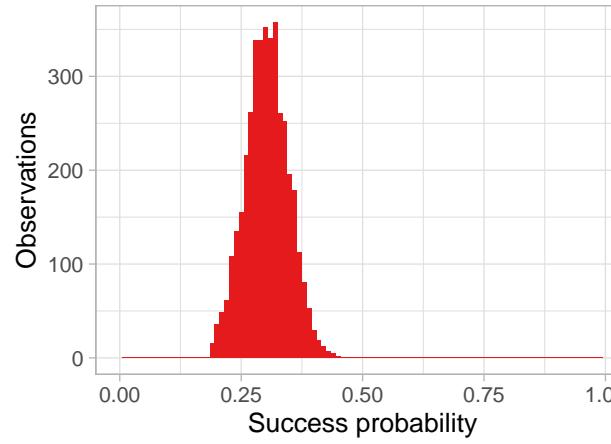
N = 4621; Tail 15.98%, C1 84.02%



MM ($\omega = 21$; $\epsilon = 1e-05$; SSE 1.694e-03) LV > 0

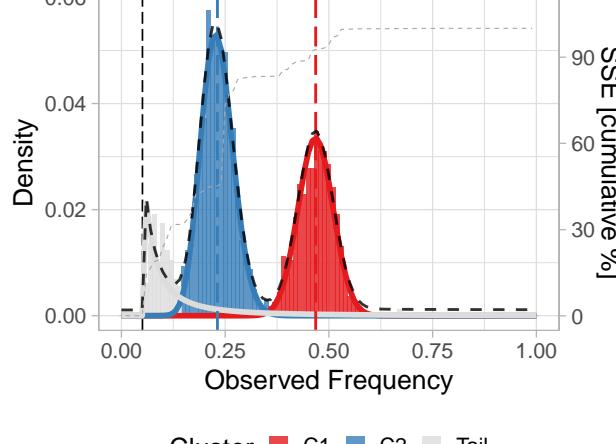
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

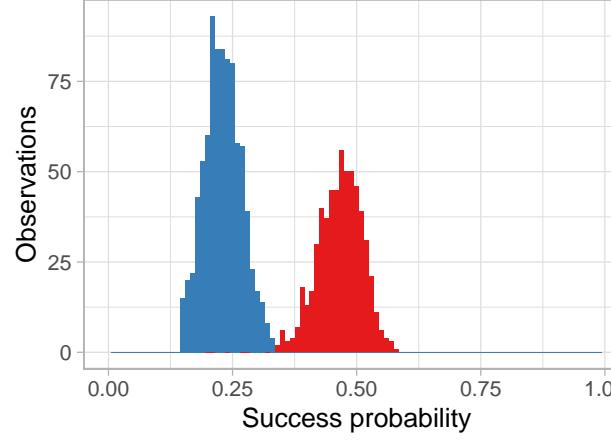
N = 1613; Tail 13.63%, C1 35.22%, C2 51.15%



MM ($\omega = 33$; $\epsilon = 2e-06$; SSE 1.557e-03) LV > 0

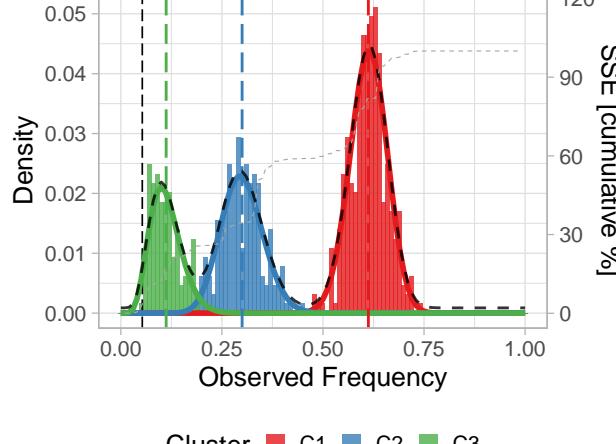
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

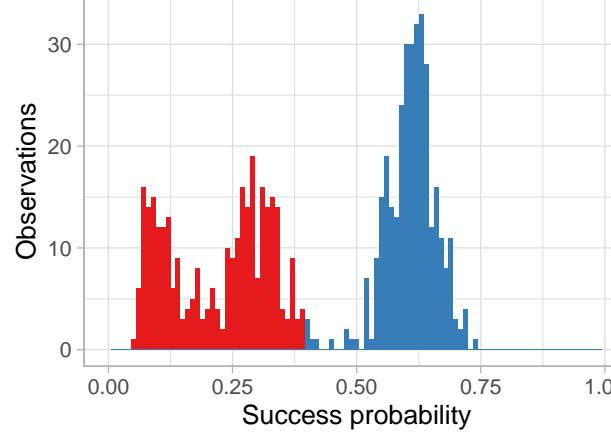
N = 646; Tail 0%, C3 19.66%, C2 29.73%, C1



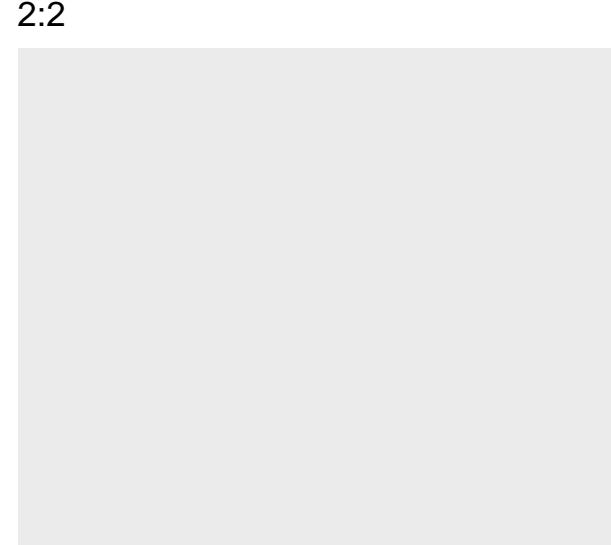
MM ($\omega = 124$; $\epsilon = 1e-05$; SSE 1.485e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

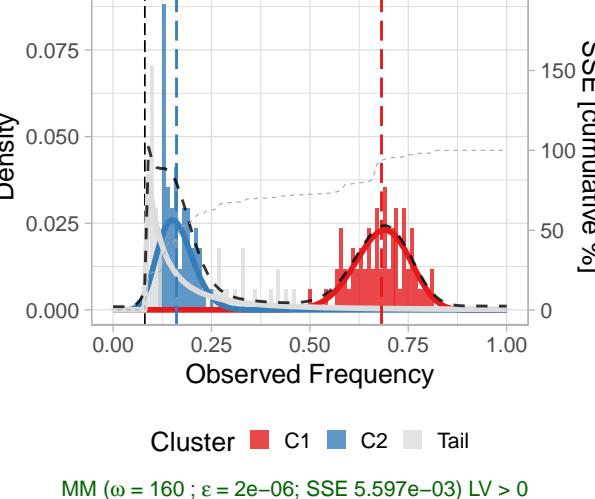


161228_HMFregCPCT_FR12246132_FR12246063_CPCT02060056

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

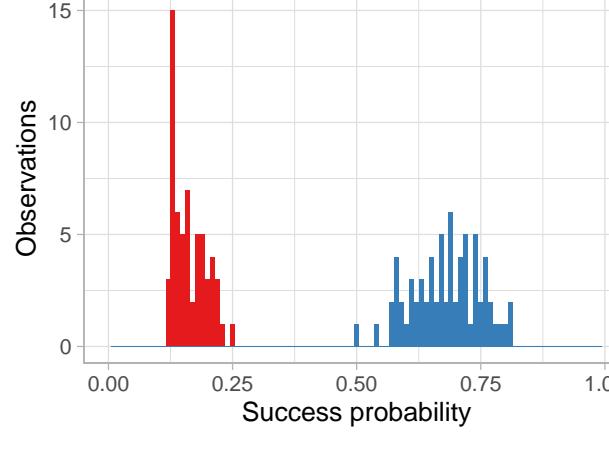
N = 170; C2 28.68%, Tail 31.52%, C1 39.8%



MM ($\omega = 160$; $\epsilon = 2e-06$; SSE 5.597e-03) LV > 0

Karyotype: 1:0

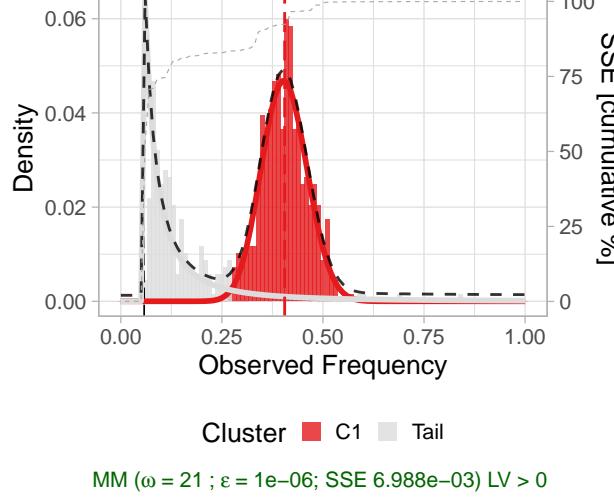
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

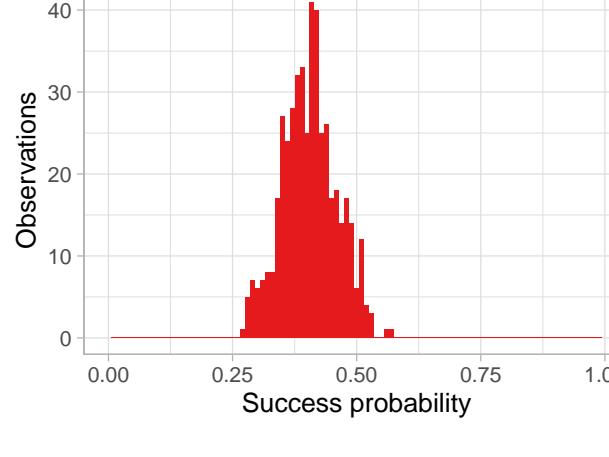
N = 685; Tail 34.05%, C1 65.95%



MM ($\omega = 21$; $\epsilon = 1e-06$; SSE 6.988e-03) LV > 0

Karyotype: 1:1

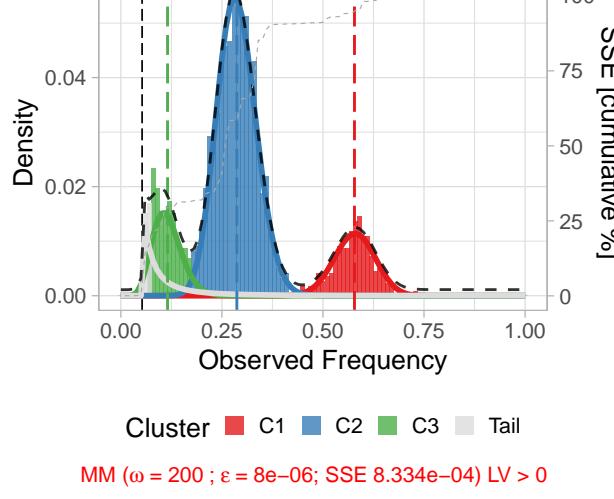
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

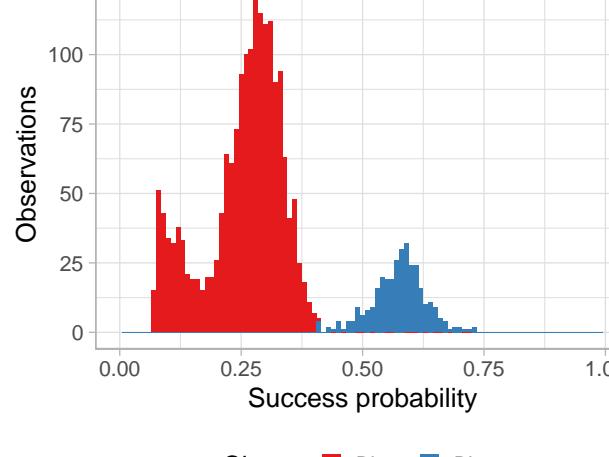
N = 2184; Tail 6.28%, C3 13.23%, C1 14.41%



MM ($\omega = 200$; $\epsilon = 8e-06$; SSE 8.334e-04) LV > 0

Karyotype: 2:1

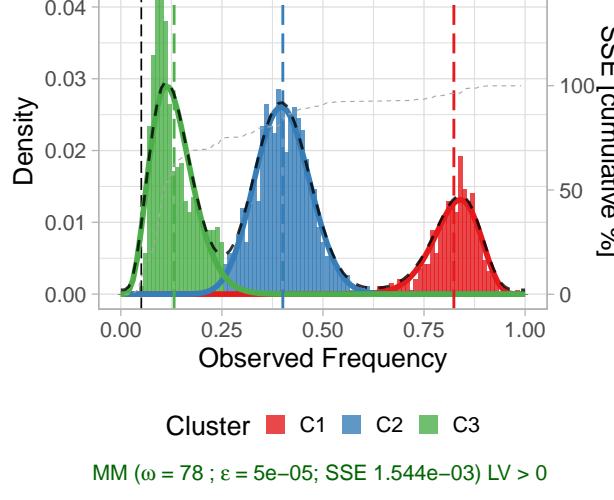
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

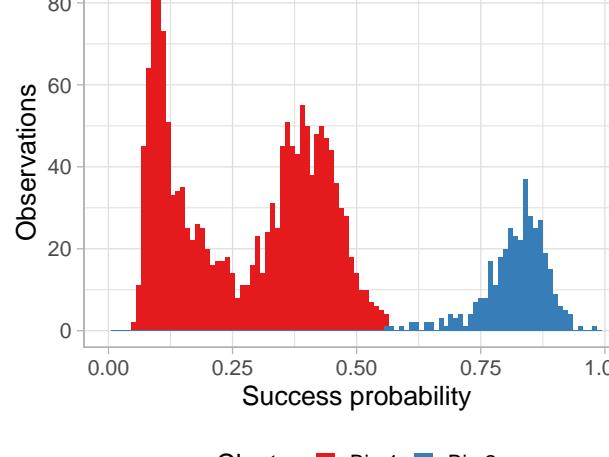
N = 1925; Tail 0%, C1 18.74%, C3 36.93%, C2:



MM ($\omega = 78$; $\epsilon = 5e-05$; SSE 1.544e-03) LV > 0

Karyotype: 2:0

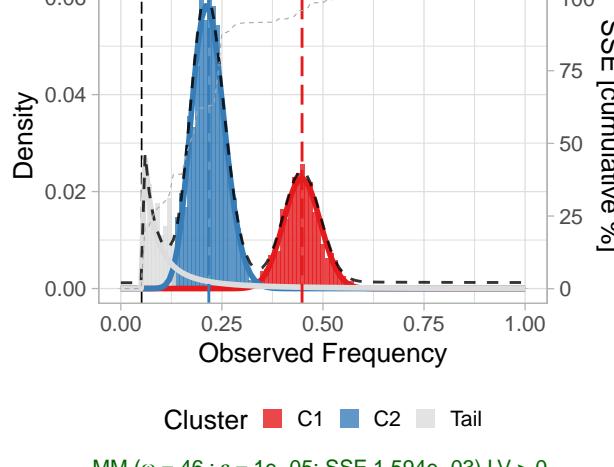
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

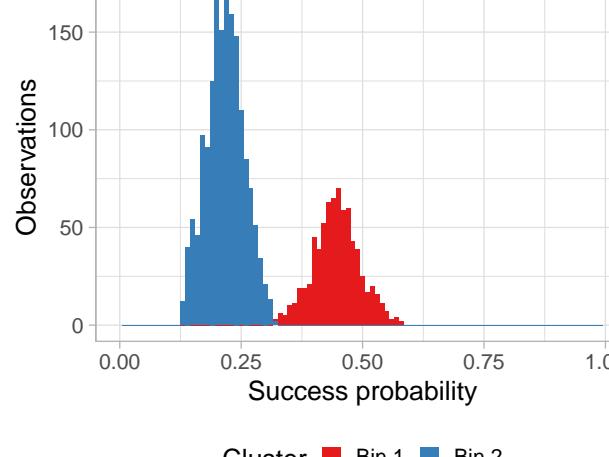
N = 2727; Tail 15.33%, C1 25.76%, C2 58.91%



MM ($\omega = 46$; $\epsilon = 1e-05$; SSE 1.594e-03) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



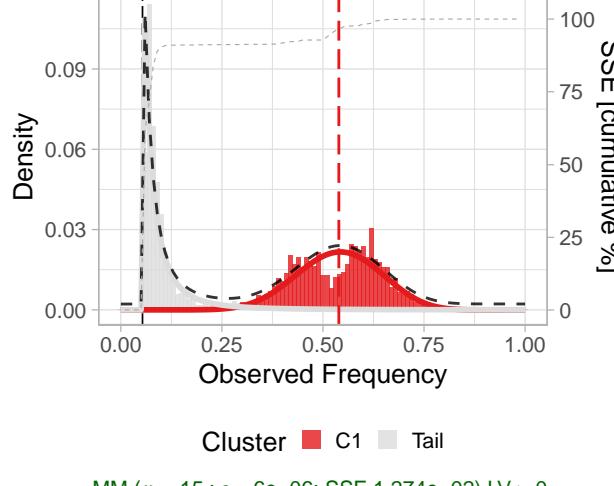
Cluster ■ Bin 1 ■ Bin 2

161228_HMFregCPCT_FR12246180_FR12246064_CPCT02060054

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

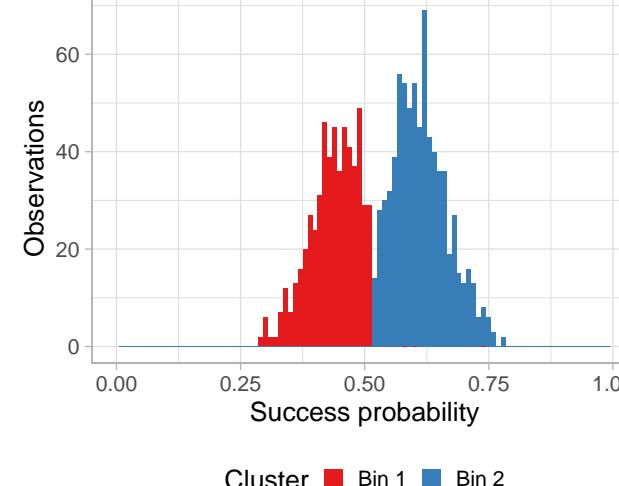
N = 2276; Tail 43.12%, C1 56.88%



MM ($\omega = 15$; $\epsilon = 6e-06$; SSE 1.274e-02) LV > 0

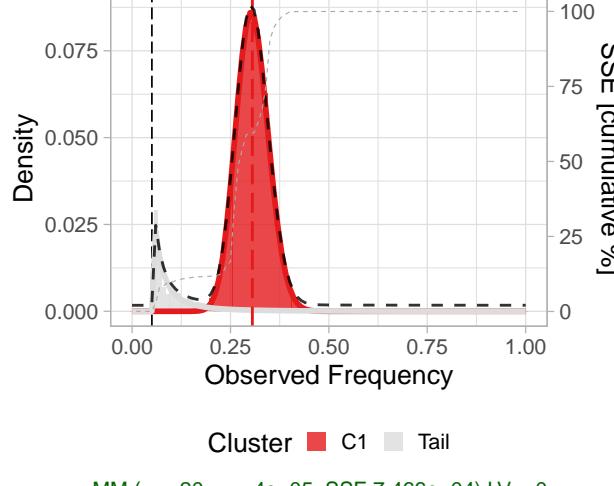
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

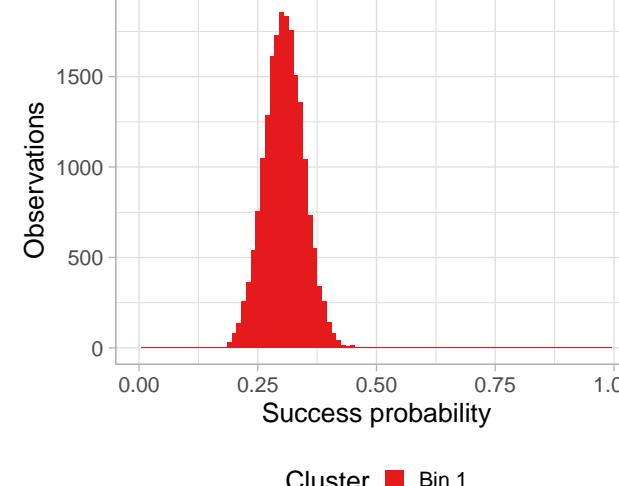
N = 21648; Tail 11.41%, C1 88.59%



MM ($\omega = 20$; $\epsilon = 4e-05$; SSE 7.466e-04) LV > 0

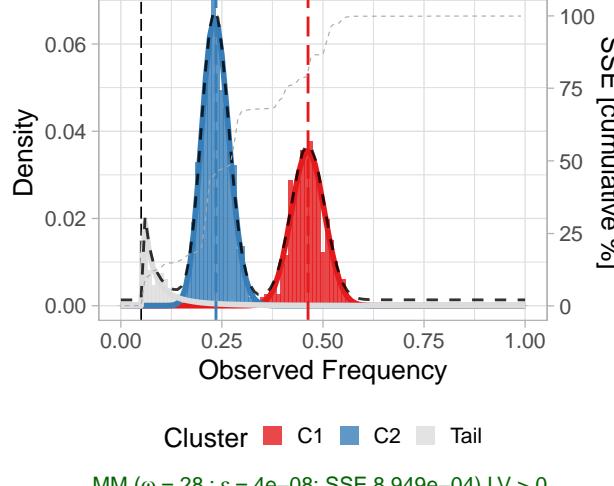
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

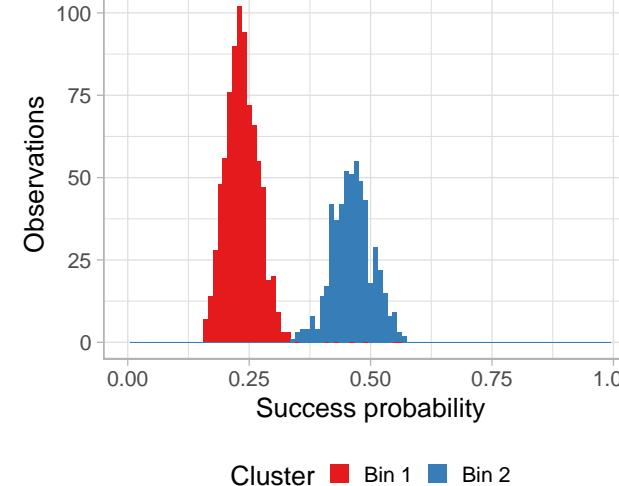
N = 1455; Tail 8.89%, C1 36.27%, C2 54.84%



MM ($\omega = 28$; $\epsilon = 4e-08$; SSE 8.949e-04) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

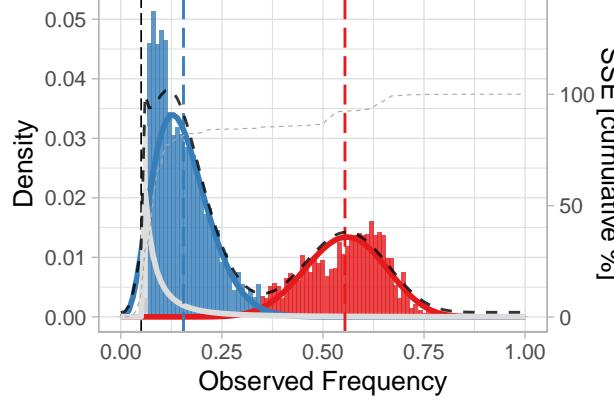
2:2

161228_HMFregCPCT_FR12246225_FR12246077_CPCT02030296

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 5120; Tail 10.85%, C1 33.3%, C2 55.85%

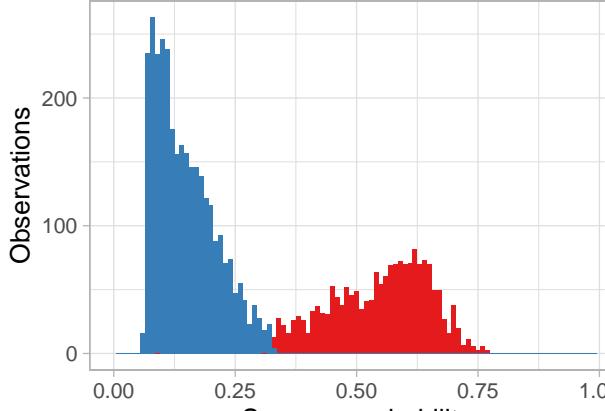


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 158$; $\epsilon = 2e-05$; SSE 1.683e-03) LV > 0

Karyotype: 1:0

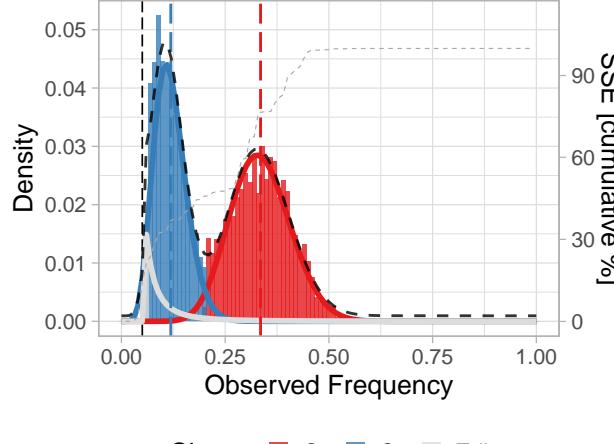
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 5473; Tail 6.89%, C2 41.55%, C1 51.56%

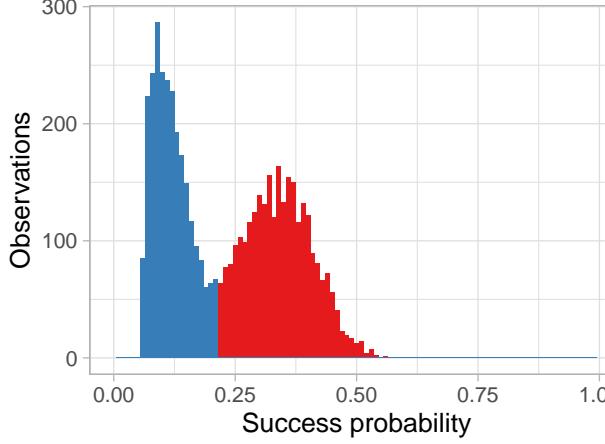


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 200$; $\epsilon = 1e-04$; SSE 4.258e-04) LV > 0

Karyotype: 1:1

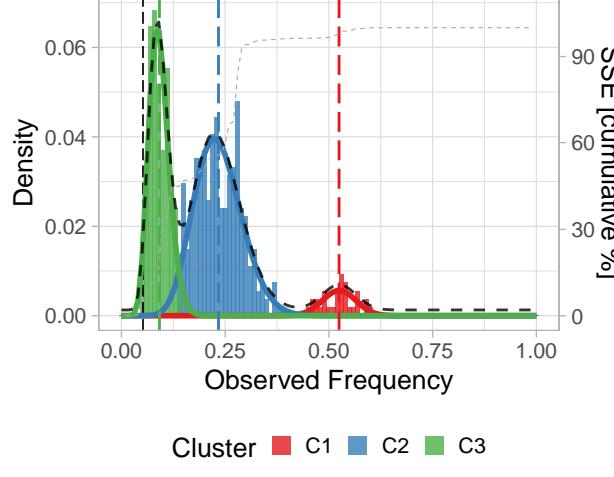
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

N = 541; Tail 0%, C1 5.68%, C3 37.99%, C2 5

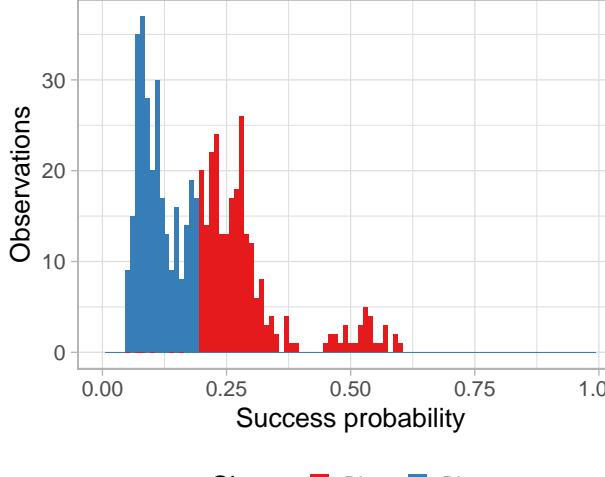


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 157$; $\epsilon = 4e-06$; SSE 2.548e-03) LV > 0

Karyotype: 2:1

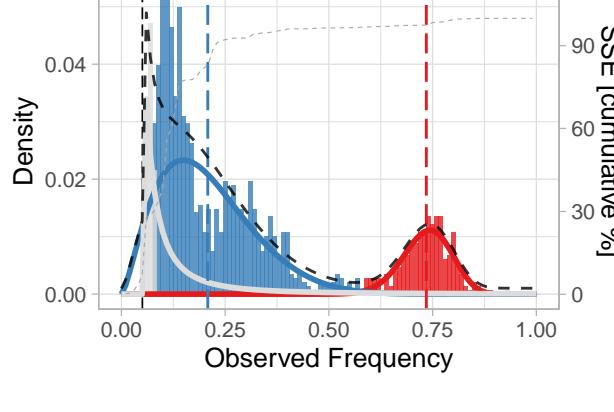
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 1485; C1 16.33%, Tail 20.11%, C2 63.56%

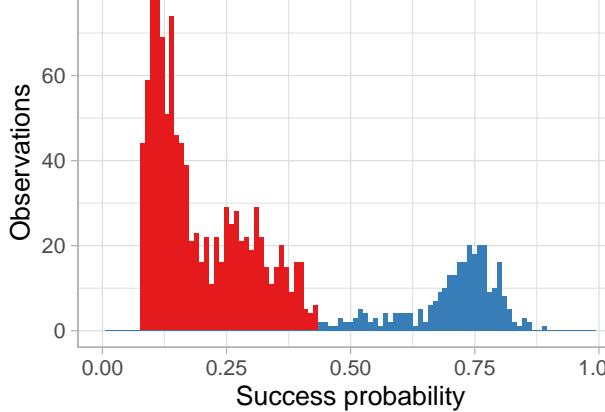


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 149$; $\epsilon = 6e-06$; SSE 4.208e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

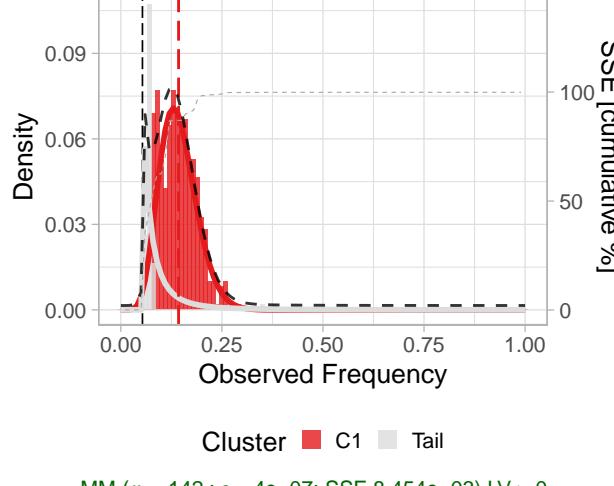
2:2

161228_HMFregCPCT_FR12246229_FR12246065_CPCT02060053

ONLY SNVs (min 150 – max 50000)

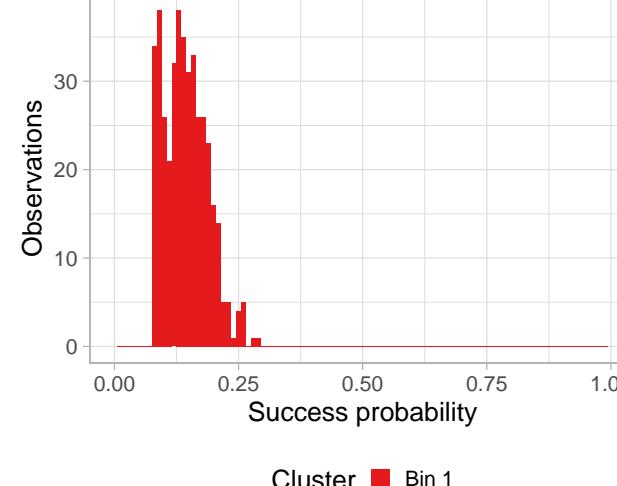
Karyotype: 1:0

N = 494; Tail 21.35%, C1 78.65%



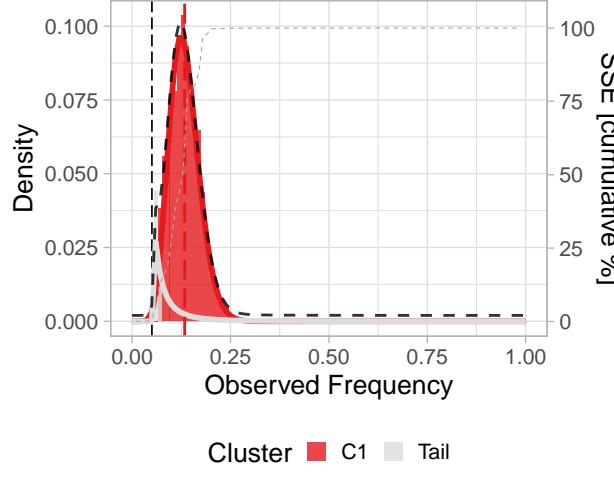
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



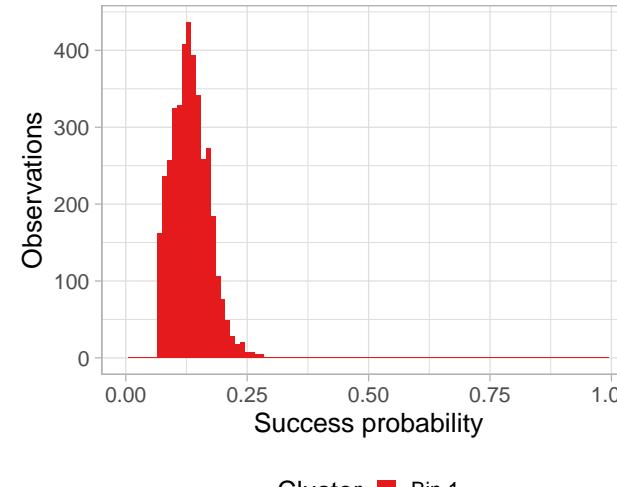
Karyotype: 1:1

N = 4218; Tail 11.3%, C1 88.7%



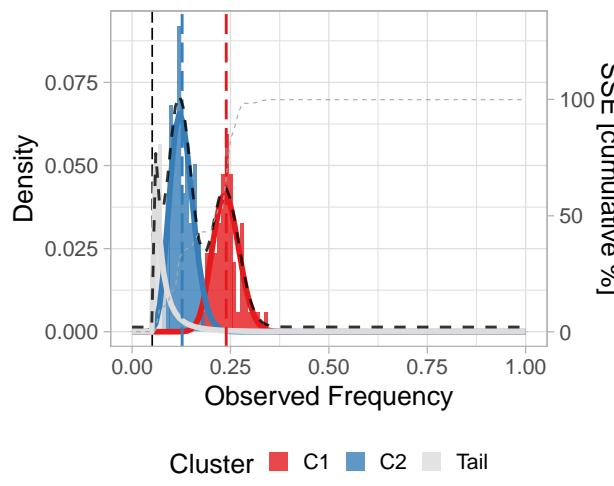
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



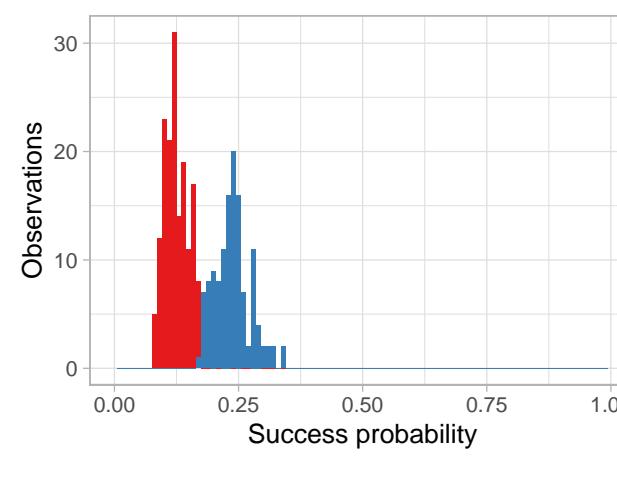
Karyotype: 2:1

N = 337; Tail 17.47%, C1 34.71%, C2 47.82%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

2:2

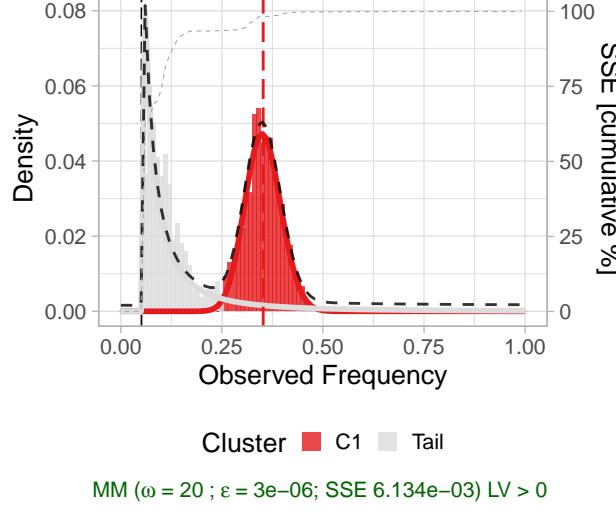
161228_HMFregCPCT_FR12251625_FR12246069_CPCT02060046

ONLY SNVs (min 150 – max 50000)

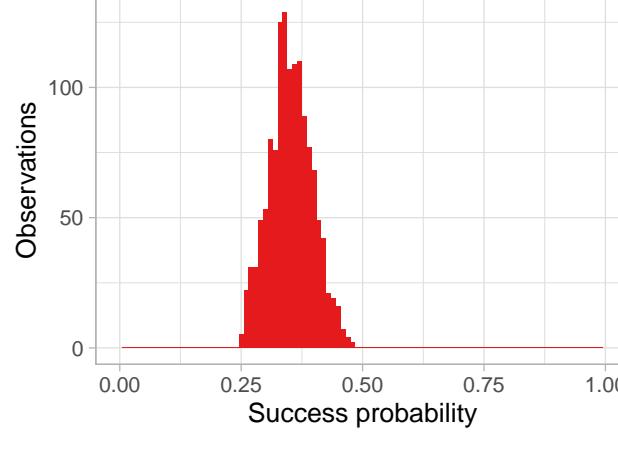
1:0

1:0

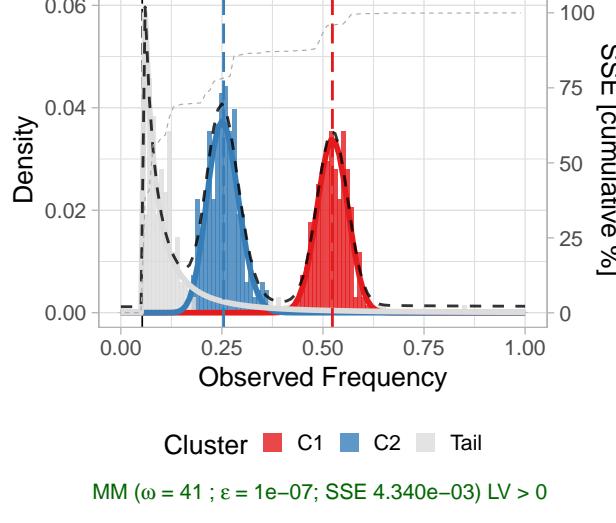
Karyotype: 1:1
N = 2388; Tail 47.72%, C1 52.28%



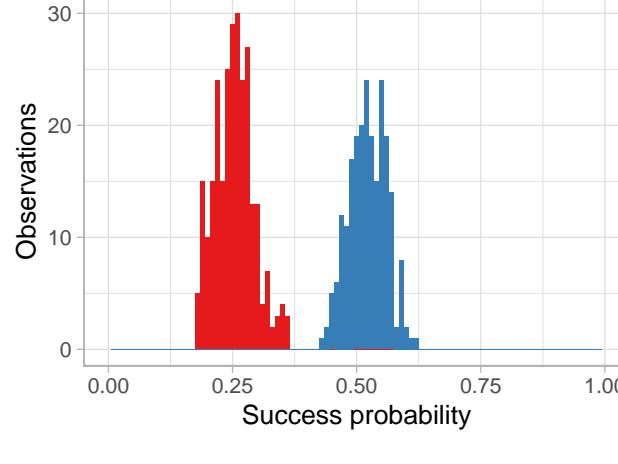
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



Karyotype: 2:1
N = 678; Tail 31.99%, C1 32.11%, C2 35.9%



Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

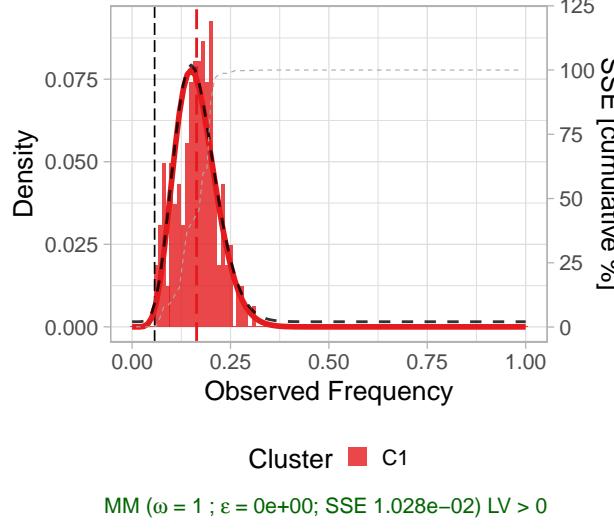
2:2

161228_HMFregDRUP_FR12246227_FR12246092_DRUP01070001

ONLY SNVs (min 150 – max 50000)

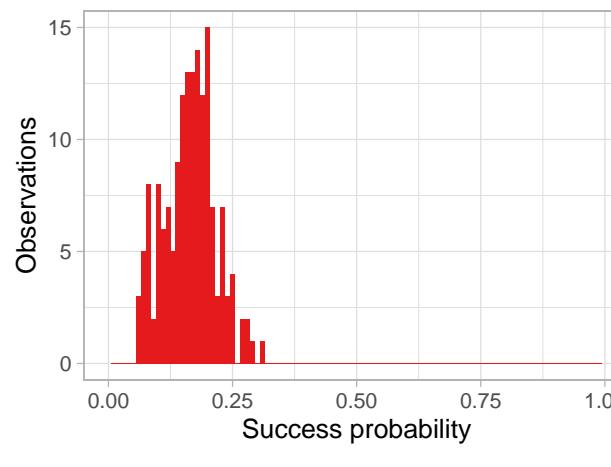
Karyotype: 1:0

N = 162; Tail 0%, C1 100%



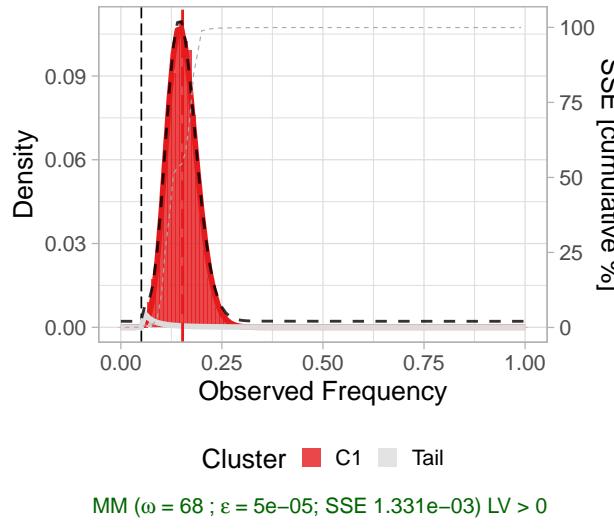
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



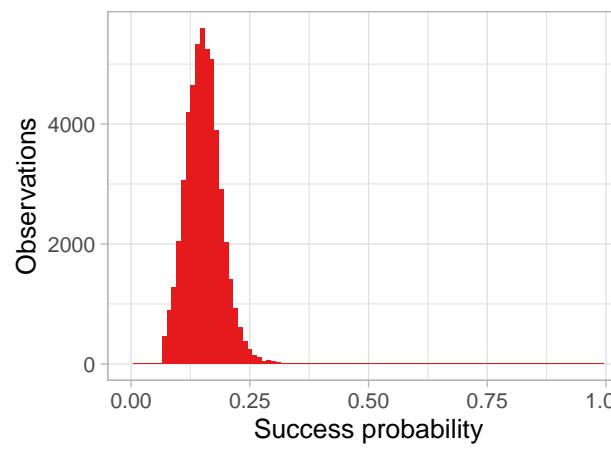
Karyotype: 1:1

N = 51165; Tail 2.41%, C1 97.59%



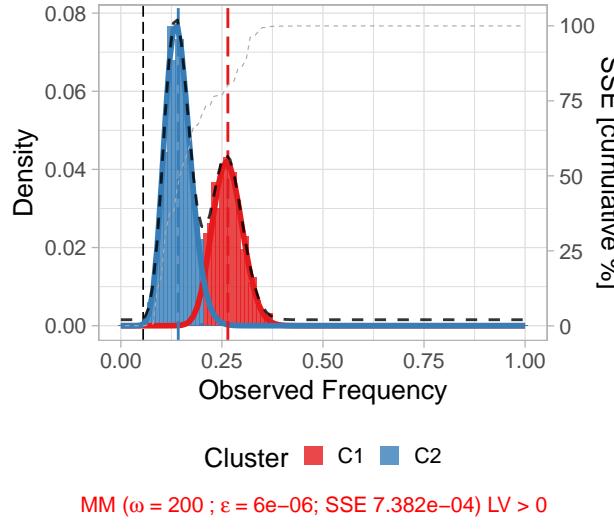
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



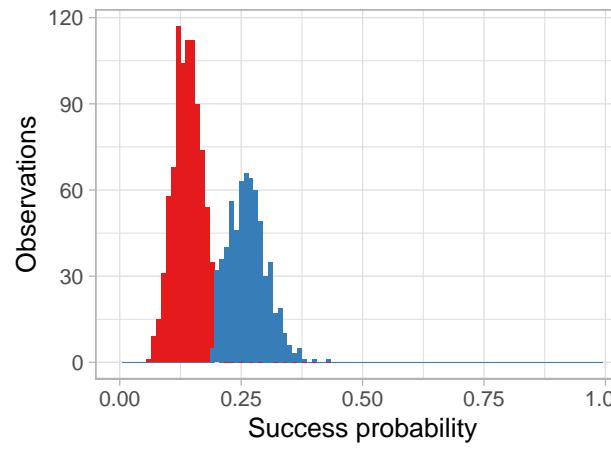
Karyotype: 2:1

N = 1528; Tail 0%, C1 39.07%, C2 60.93%



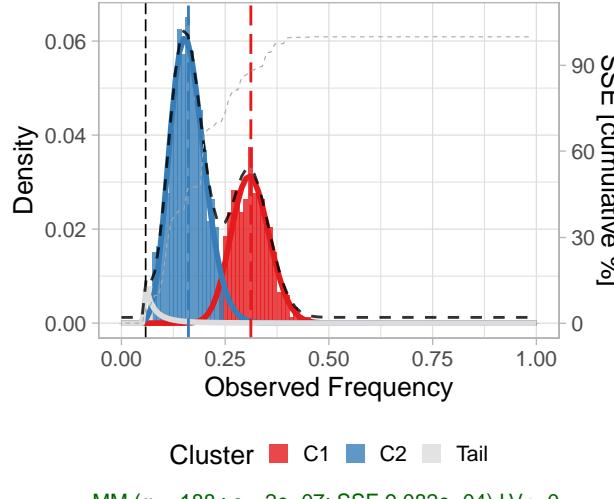
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



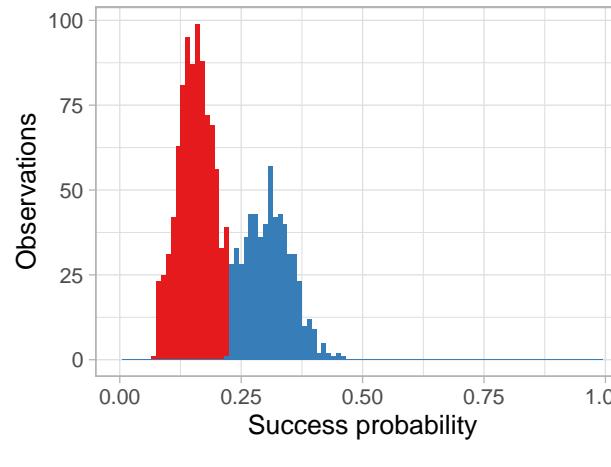
Karyotype: 2:0

N = 1522; Tail 2.11%, C1 35.61%, C2 62.28%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

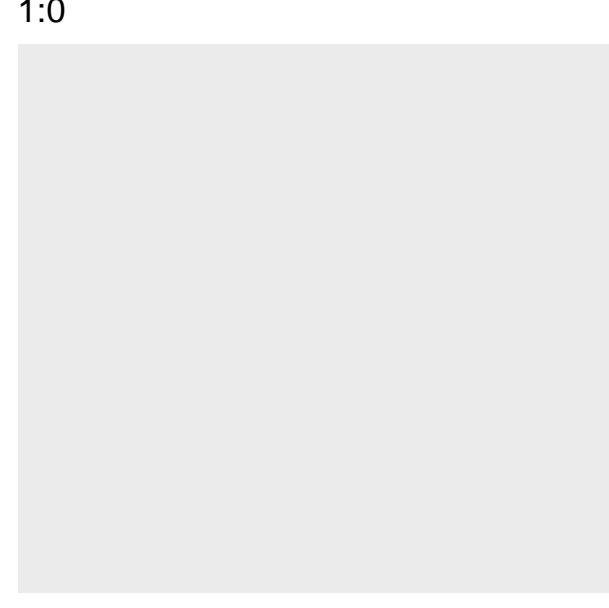
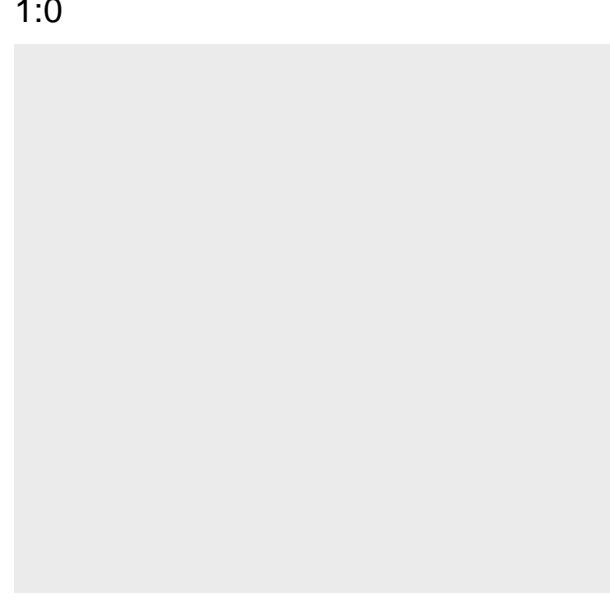


2:2

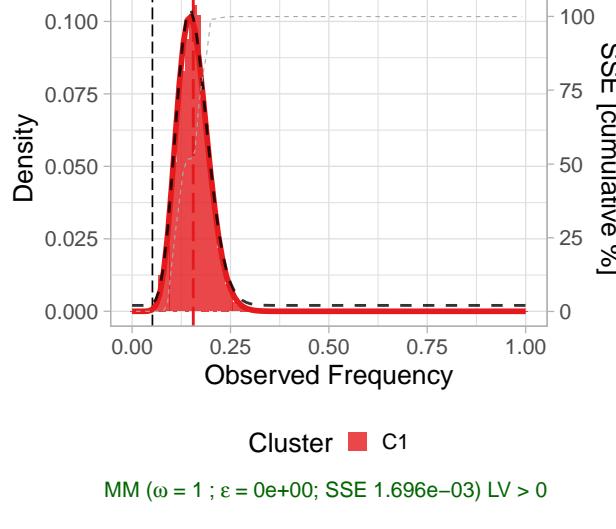
2:2

161228_HMFregDRUP_FR13275508_FR12246108_DRUP01010007

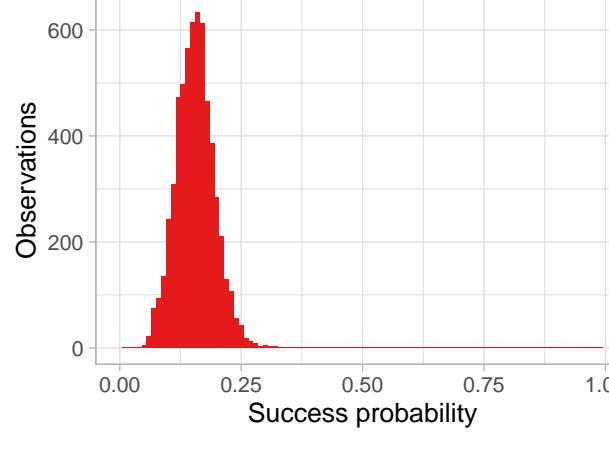
ONLY SNVs (min 150 – max 50000)



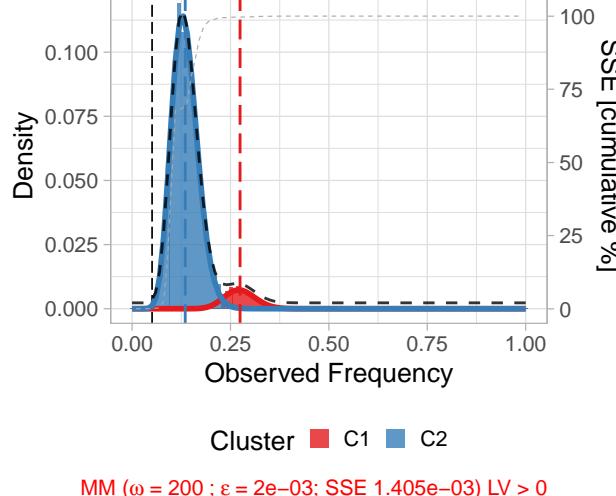
Karyotype: 1:1
N = 6010; Tail 0%, C1 100%



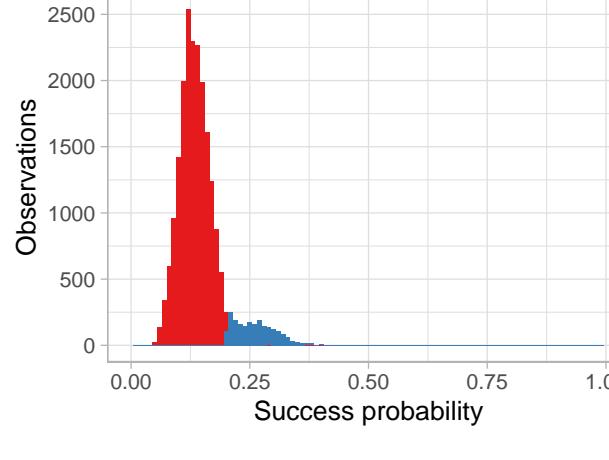
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



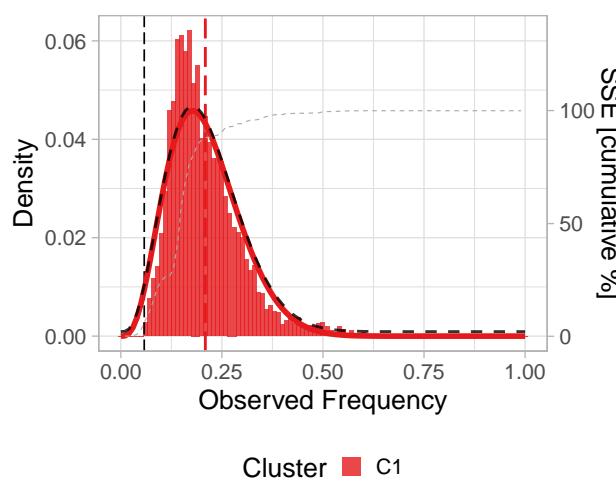
Karyotype: 2:1
N = 21292; Tail 0%, C1 7.09%, C2 92.91%



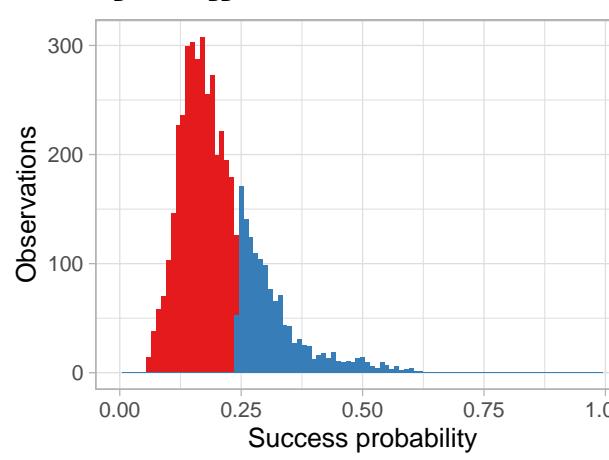
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



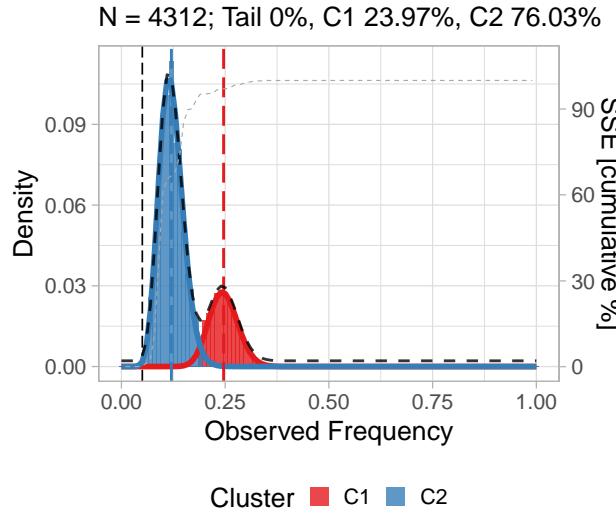
Karyotype: 2:0
N = 4956; Tail 0%, C1 100%



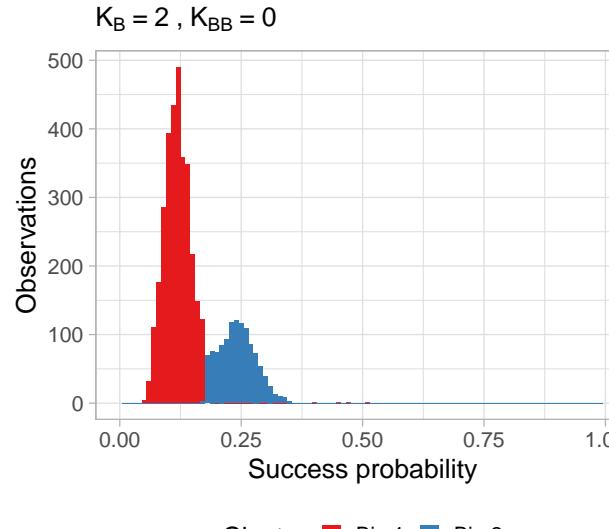
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 4312; Tail 0%, C1 23.97%, C2 76.03%

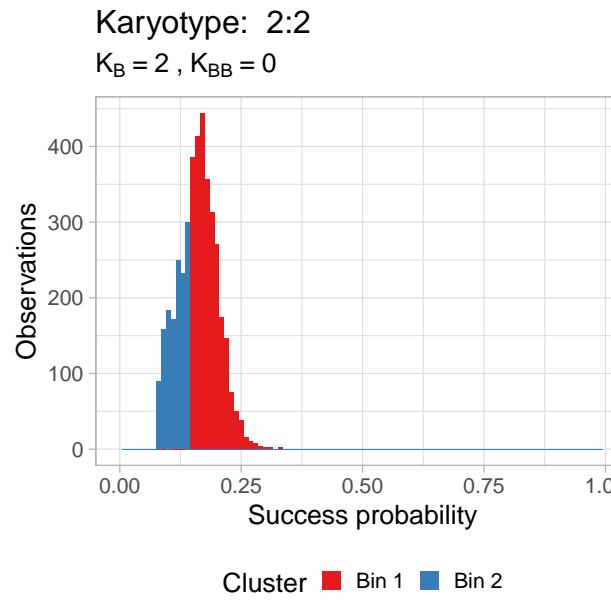
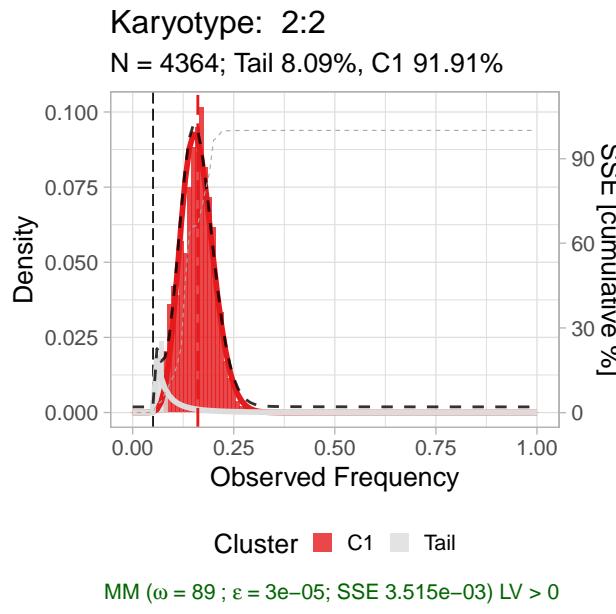
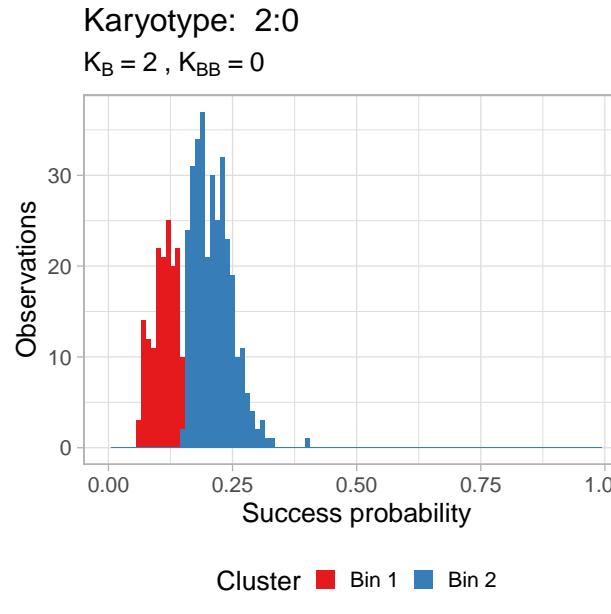
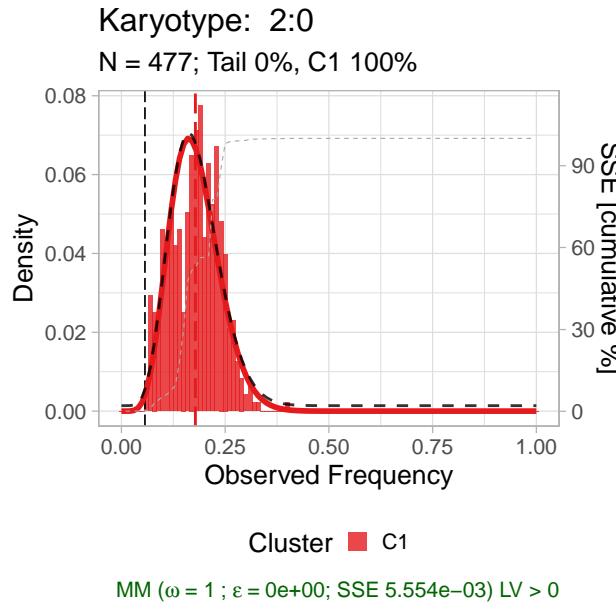
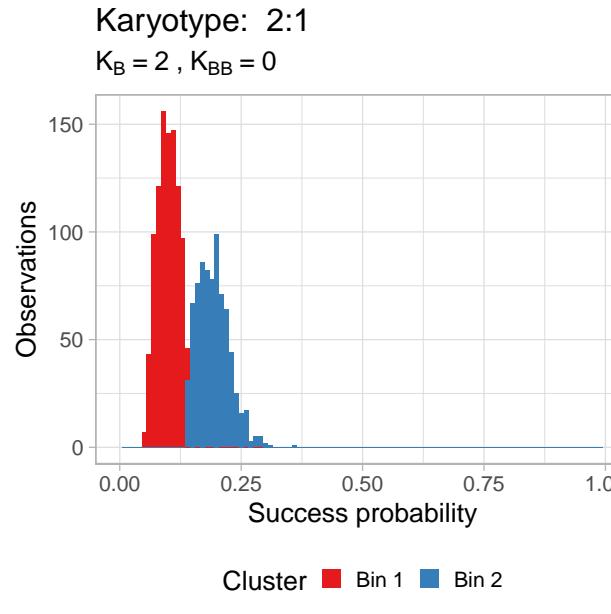
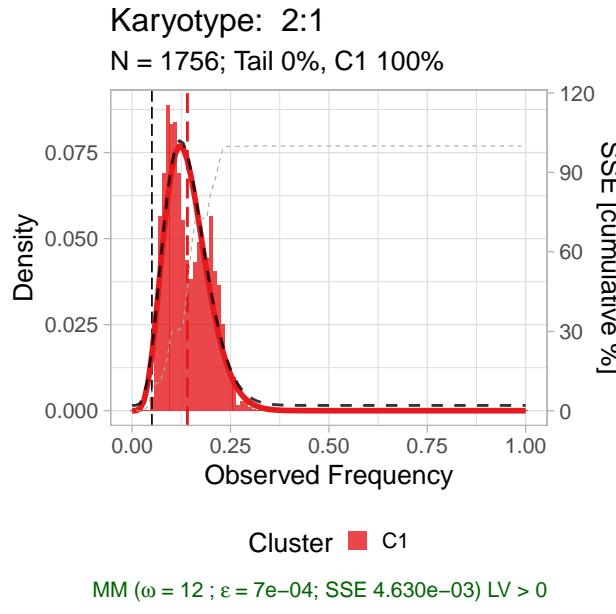
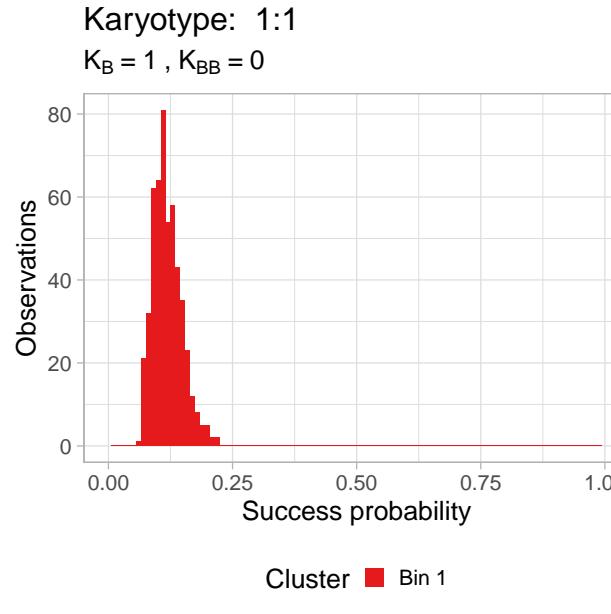
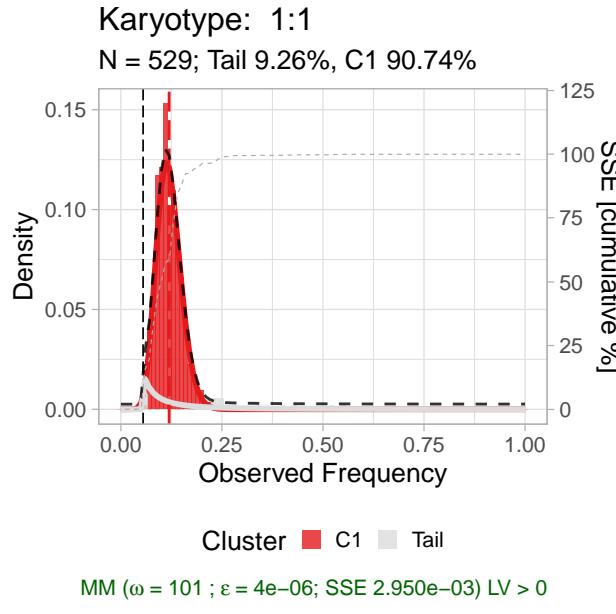
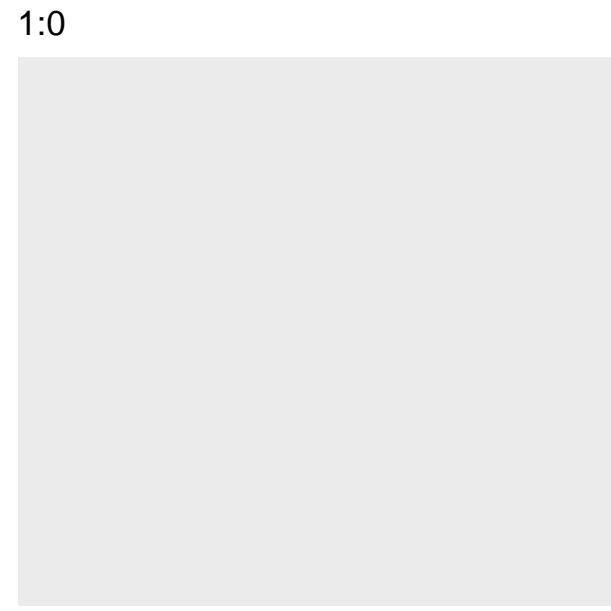
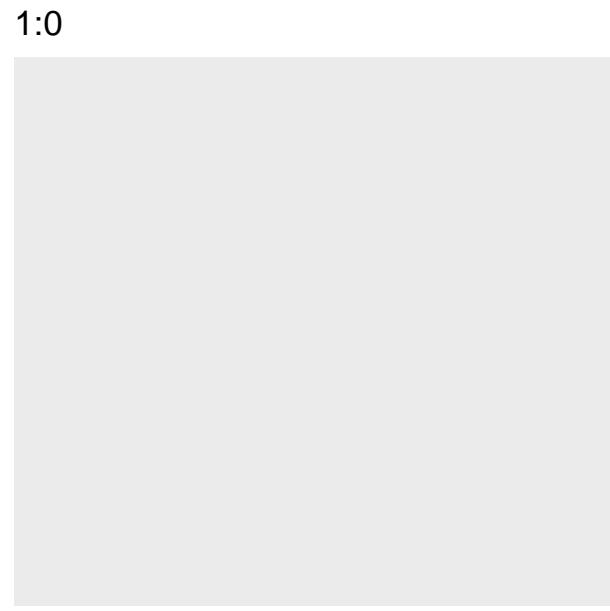


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



161230_HMFregCPCT_FR10302558_FR12246103_CPCT02010382

ONLY SNVs (min 150 – max 50000)

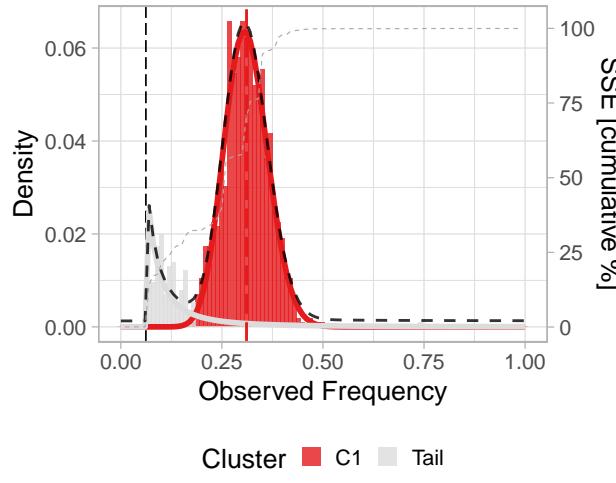


161230_HMFregCPCT_FR10302970_FR12246099_CPCT02040021

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

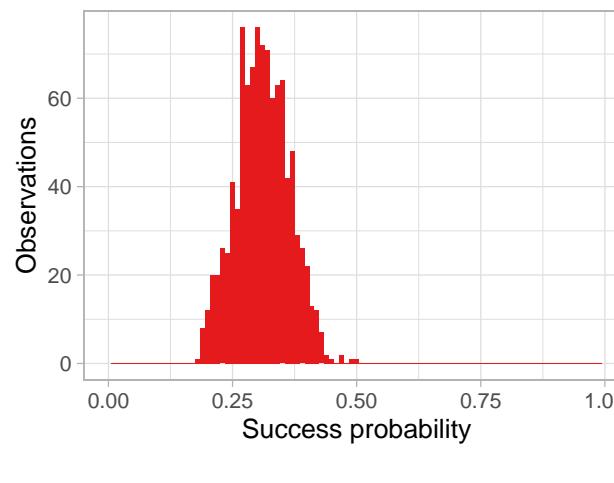
N = 1155; Tail 14.96%, C1 85.04%



MM ($\omega = 25$; $\epsilon = 2e-06$; SSE $1.640e-03$) LV > 0

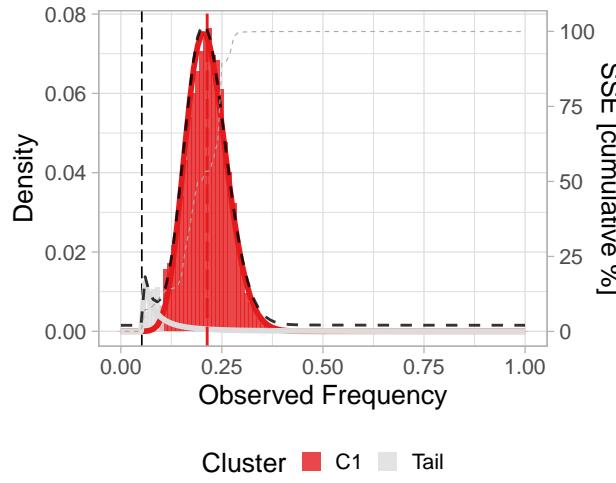
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



Karyotype: 1:1

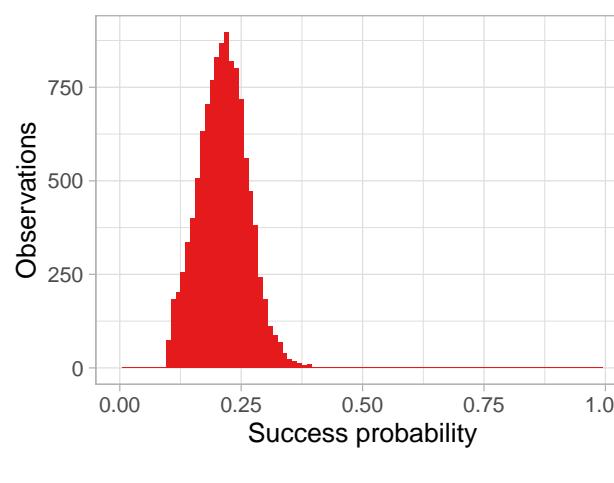
N = 11738; Tail 6.14%, C1 93.86%



MM ($\omega = 45$; $\epsilon = 8e-05$; SSE $1.462e-03$) LV > 0

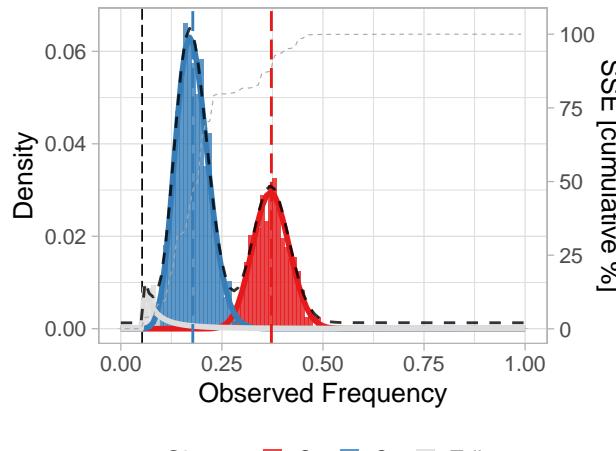
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

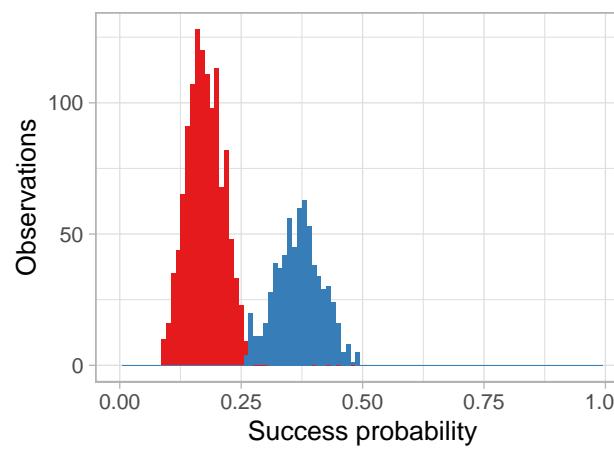
N = 1935; Tail 4.33%, C1 33.12%, C2 62.55%



MM ($\omega = 51$; $\epsilon = 3e-06$; SSE $8.767e-04$) LV > 0

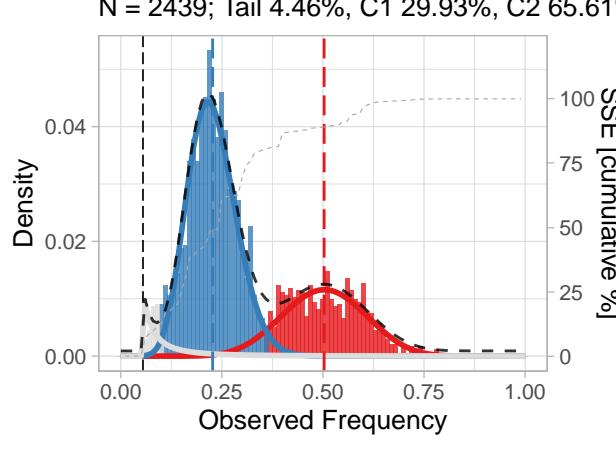
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

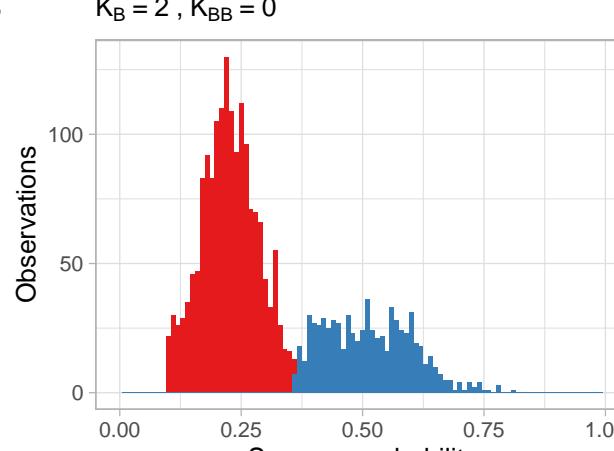
N = 2439; Tail 4.46%, C1 29.93%, C2 65.61%



MM ($\omega = 113$; $\epsilon = 8e-06$; SSE $7.769e-04$) LV > 0

Karyotype: 2:0

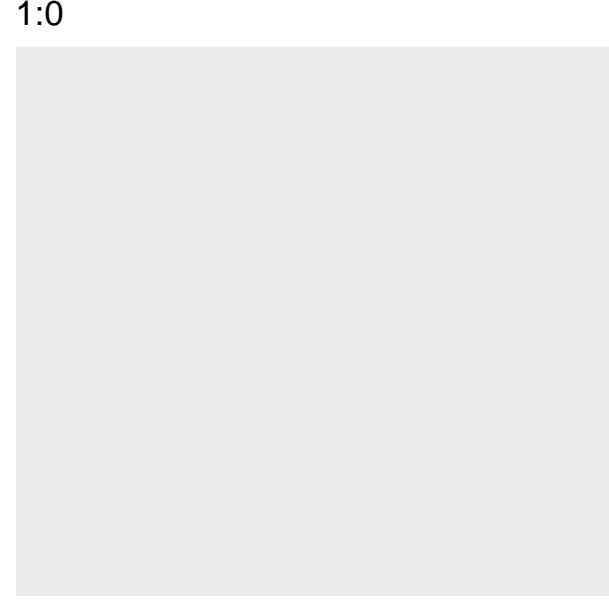
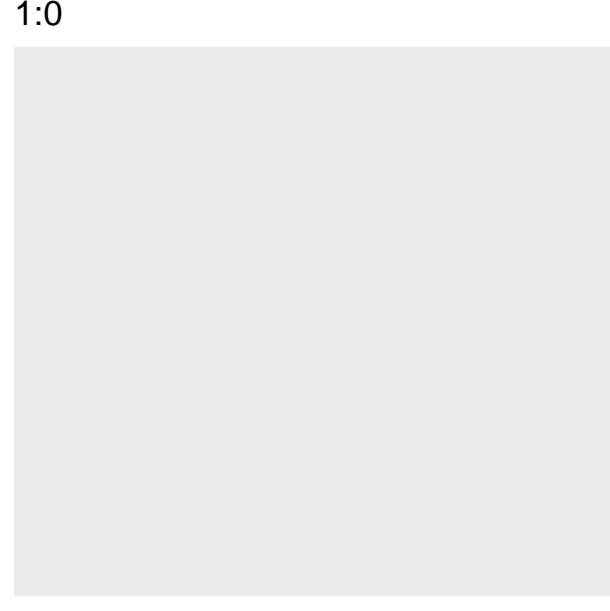
$K_B = 2, K_{BB} = 0$



2:2

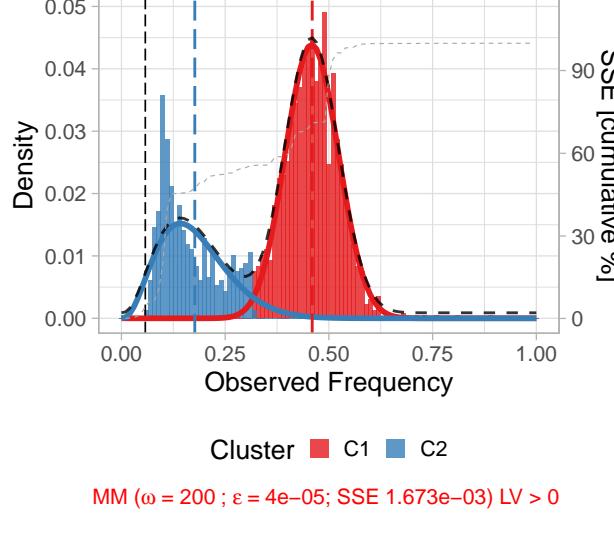
170101_HMFregCPCT_FR12245821_FR12246086_CPCT02180005

ONLY SNVs (min 150 – max 50000)



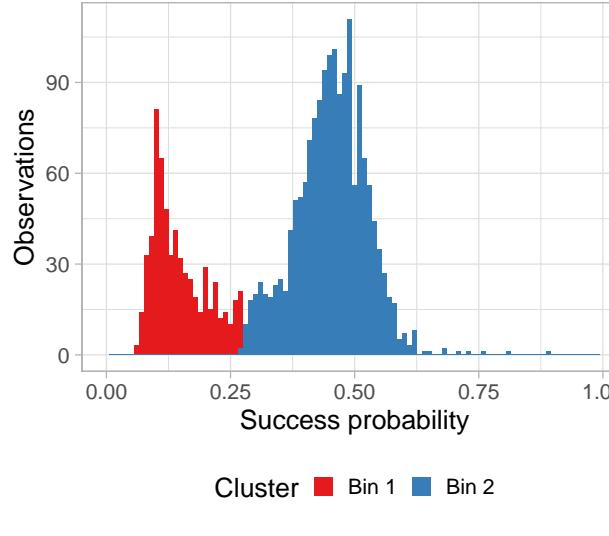
Karyotype: 1:1

N = 2264; Tail 0%, C2 30.37%, C1 69.63%



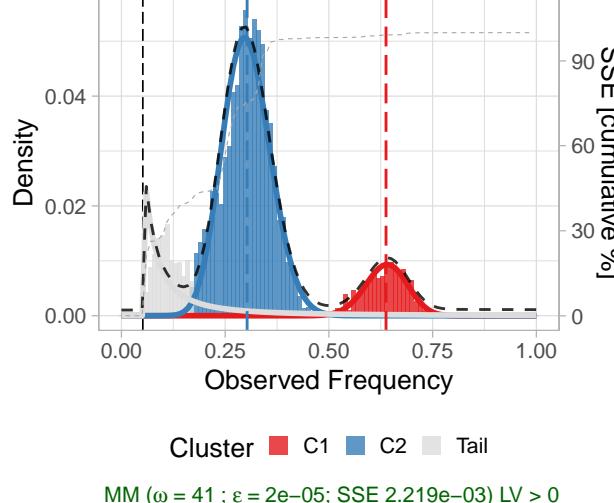
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



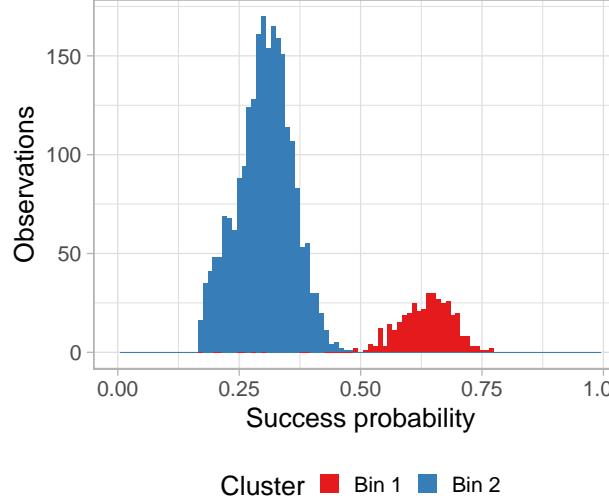
Karyotype: 2:1

N = 3052; C1 11.69%, Tail 15.43%, C2 72.87%



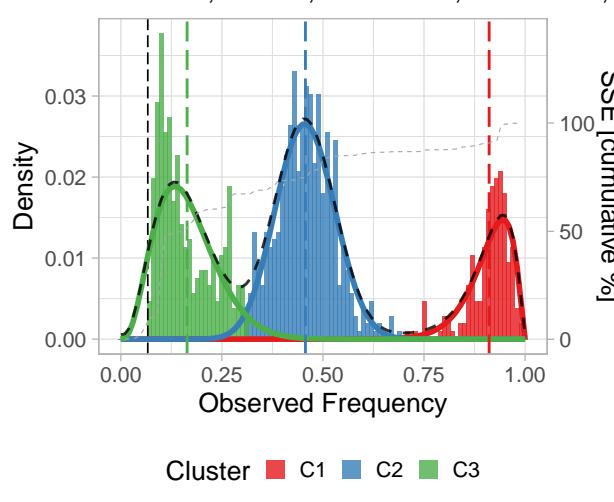
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



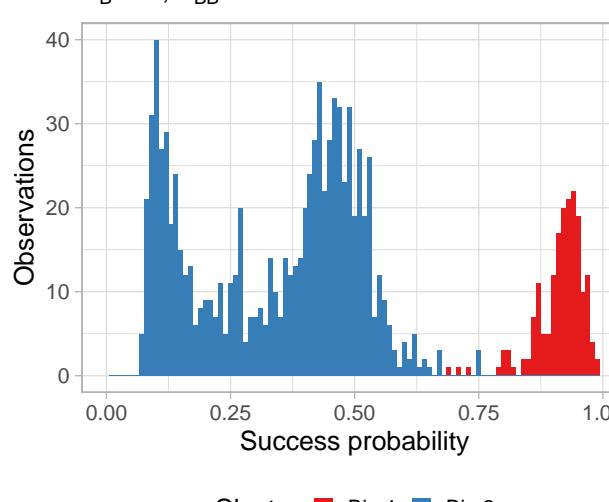
Karyotype: 2:0

N = 1060; Tail 0%, C1 17.62%, C3 33.87%, C2 48.51%



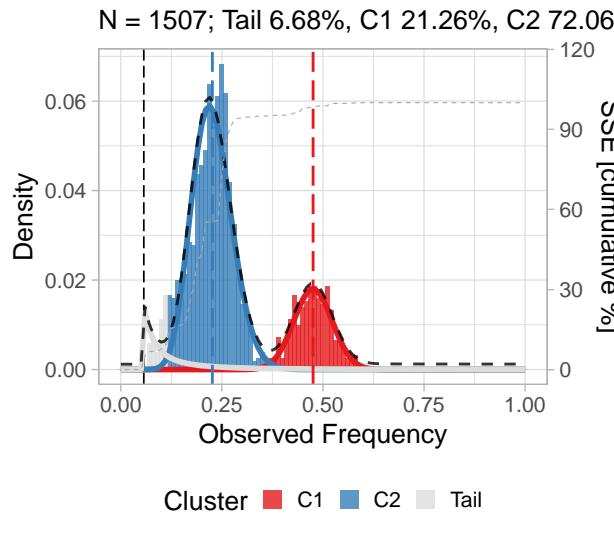
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



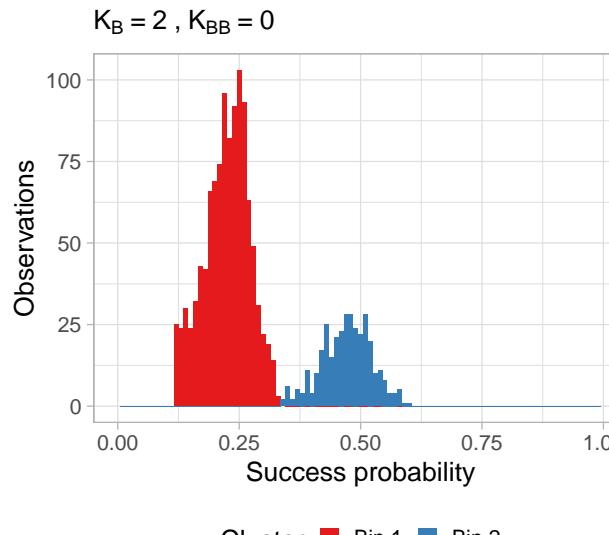
Karyotype: 2:2

N = 1507; Tail 6.68%, C1 21.26%, C2 72.06%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



170101_HMFregCPCT_FR12246172_FR12246072_CPCT02080055

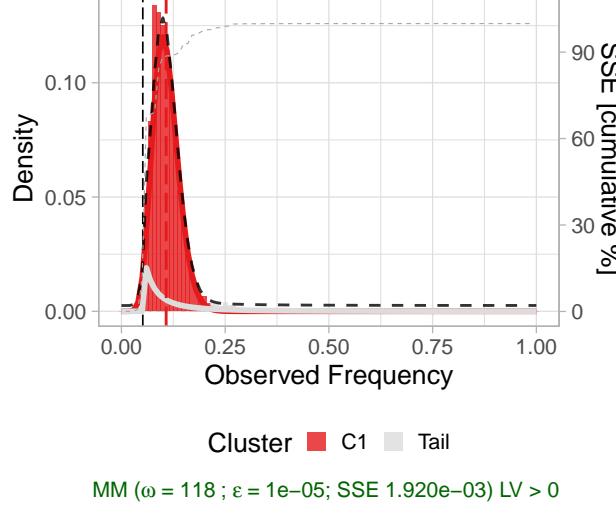
ONLY SNVs (min 150 – max 50000)

1:0

1:0

Karyotype: 1:1

N = 2100; Tail 10.85%, C1 89.15%



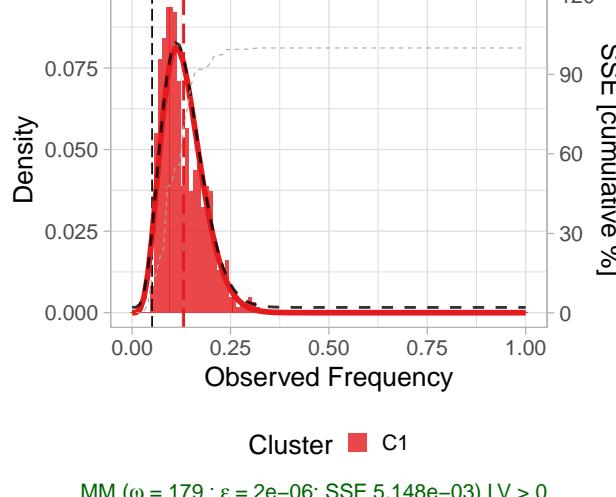
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



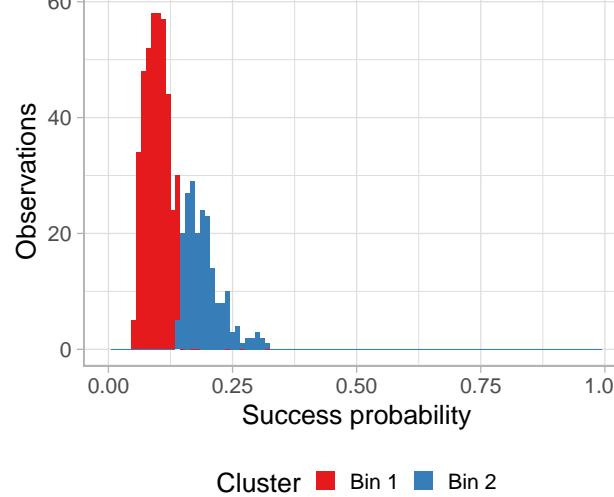
Karyotype: 2:1

N = 619; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

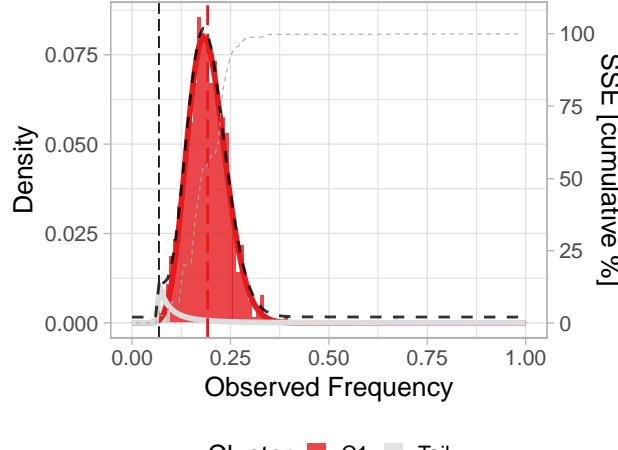
2:2

170101_HMFregCPCT_FR12246175_FR12246042_CPCT02180008

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

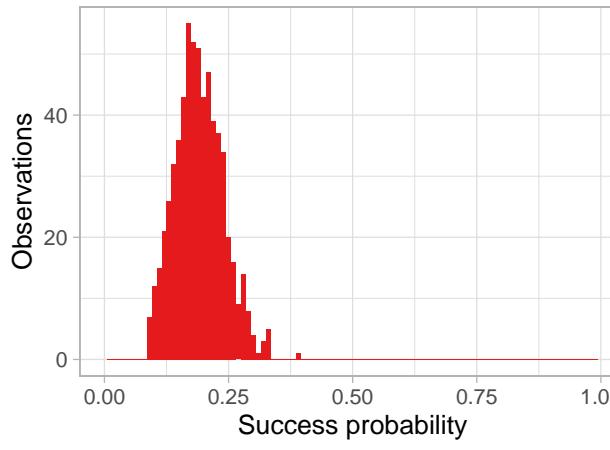
N = 643; Tail 4.26%, C1 95.74%



MM ($\omega = 58$; $\varepsilon = 7e-07$; SSE $2.538e-03$) LV > 0

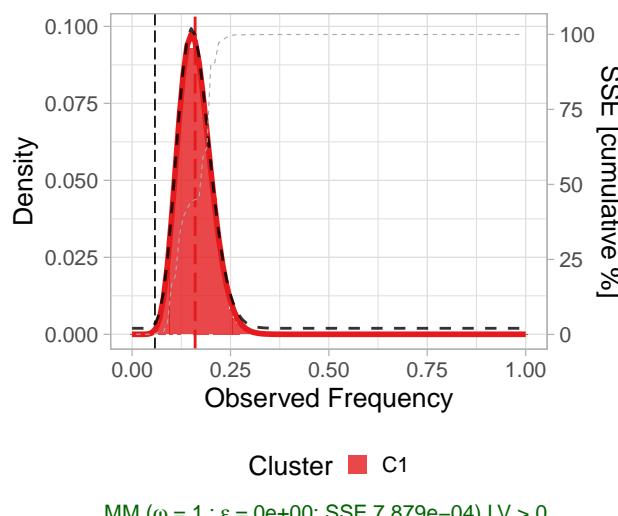
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

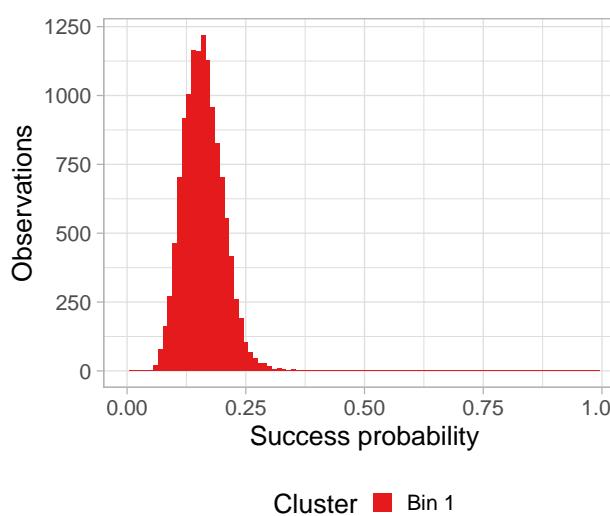
N = 12513; Tail 0%, C1 100%



MM ($\omega = 1$; $\varepsilon = 0e+00$; SSE $7.879e-04$) LV > 0

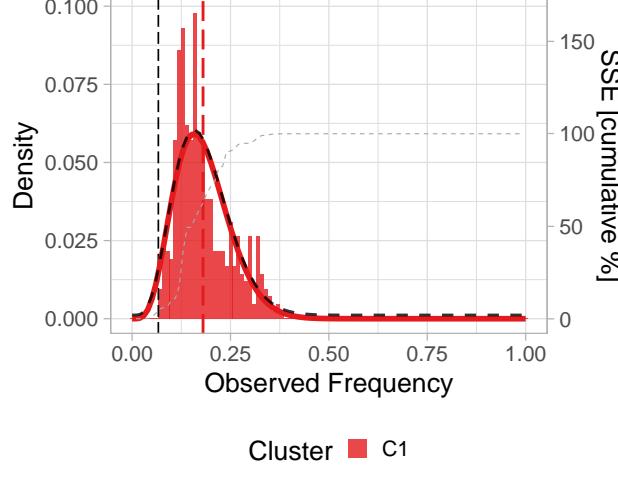
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

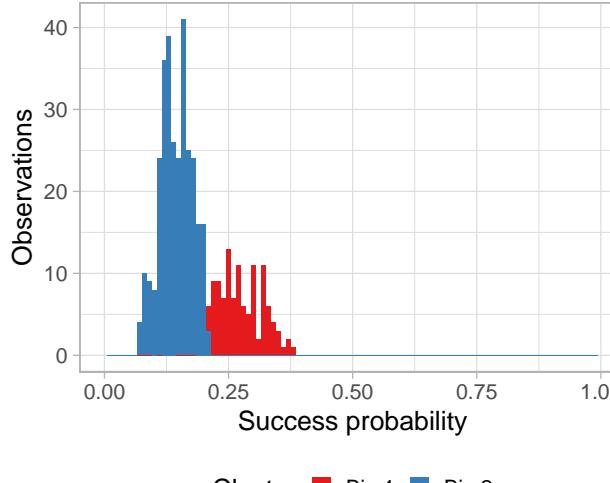
N = 419; Tail 0%, C1 100%



MM ($\omega = 146$; $\varepsilon = 9e-07$; SSE $5.879e-03$) LV > 0

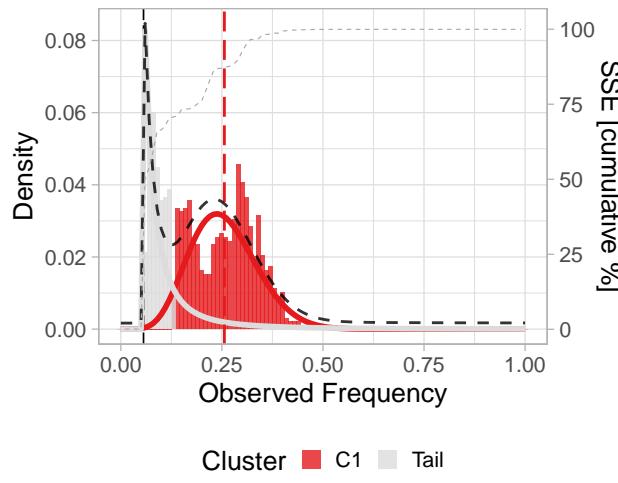
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

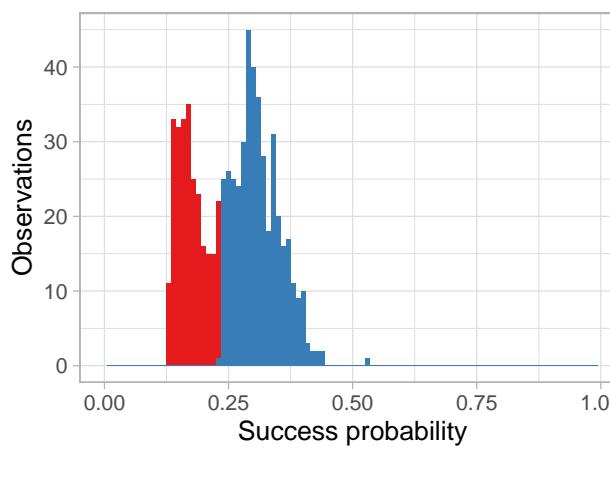
N = 984; Tail 34.66%, C1 65.34%



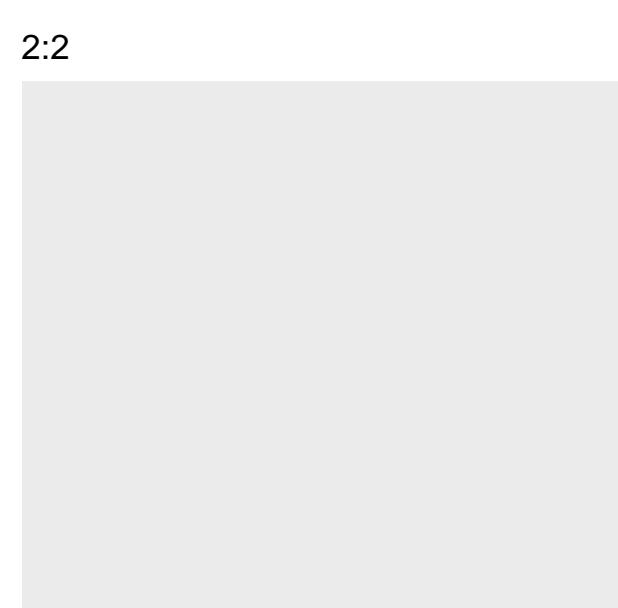
MM ($\omega = 144$; $\varepsilon = 7e-06$; SSE $1.093e-02$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

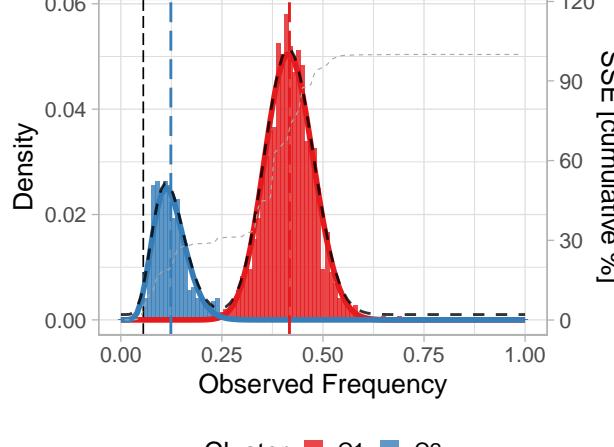


170101_HMFregCPCT_FR12246215_FR12246043_CPCT02180007

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

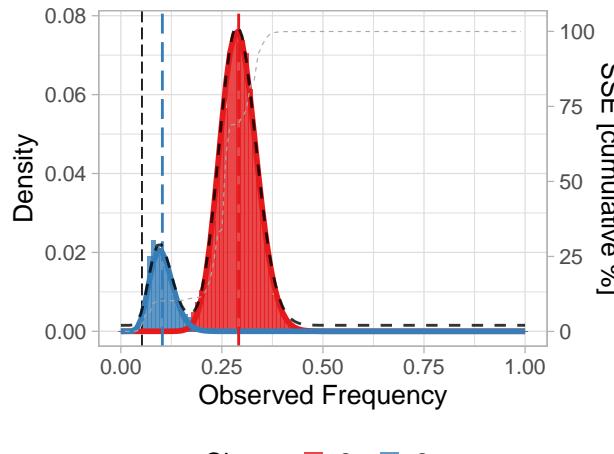
N = 1447; Tail 0%, C2 24.58%, C1 75.42%



MM ($\omega = 43$; $\epsilon = 6e-05$; SSE $1.005e-03$) LV > 0

Karyotype: 1:1

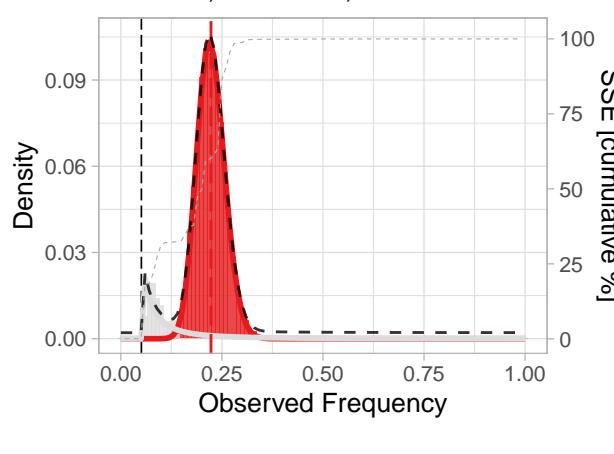
N = 42497; Tail 0%, C2 14.5%, C1 85.5%



MM ($\omega = 200$; $\epsilon = 2e-03$; SSE $6.363e-04$) LV > 0

Karyotype: 2:1

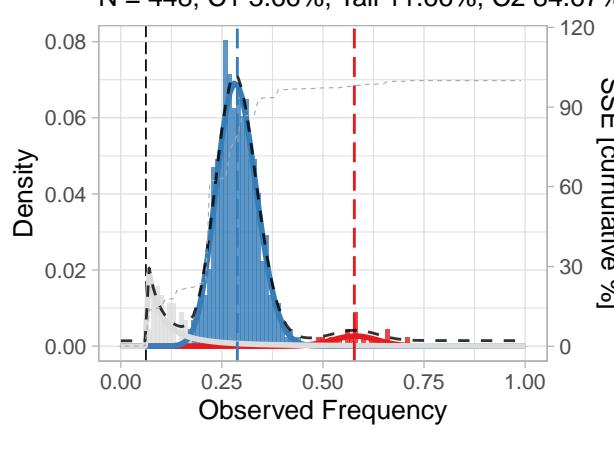
N = 3193; Tail 12.1%, C1 87.9%



MM ($\omega = 22$; $\epsilon = 3e-06$; SSE $1.585e-03$) LV > 0

Karyotype: 2:0

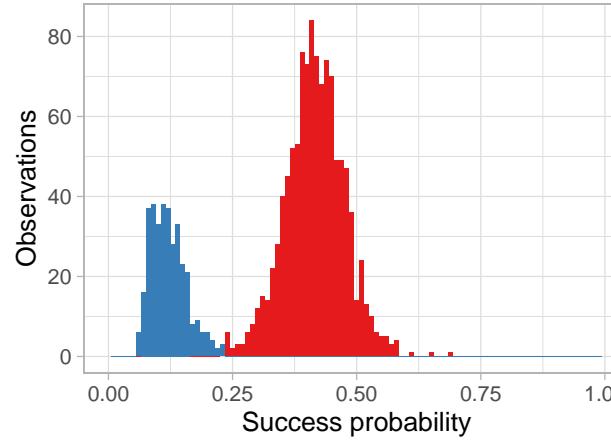
N = 448; C1 3.66%, Tail 11.66%, C2 84.67%



MM ($\omega = 30$; $\epsilon = 2e-07$; SSE $1.578e-03$) LV > 0

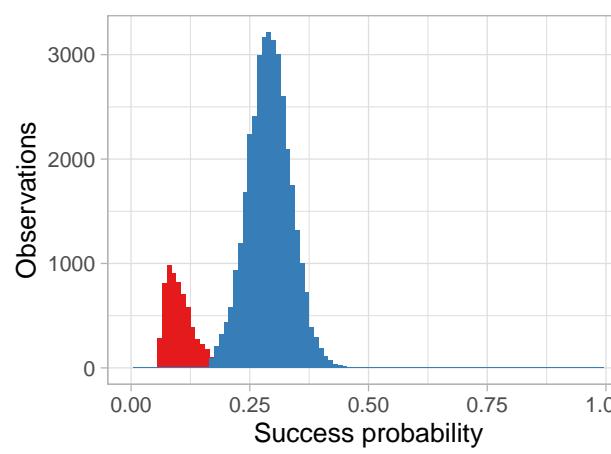
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



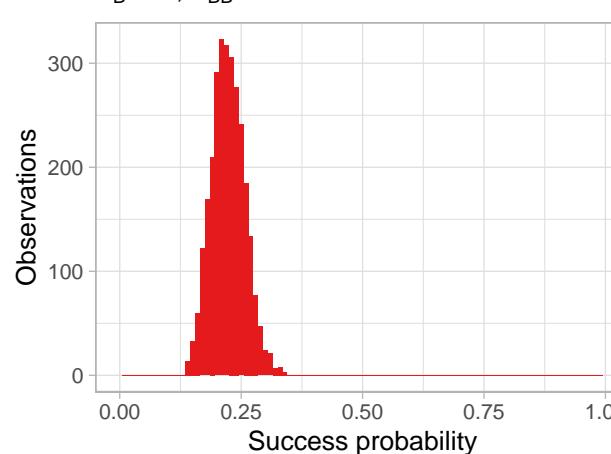
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



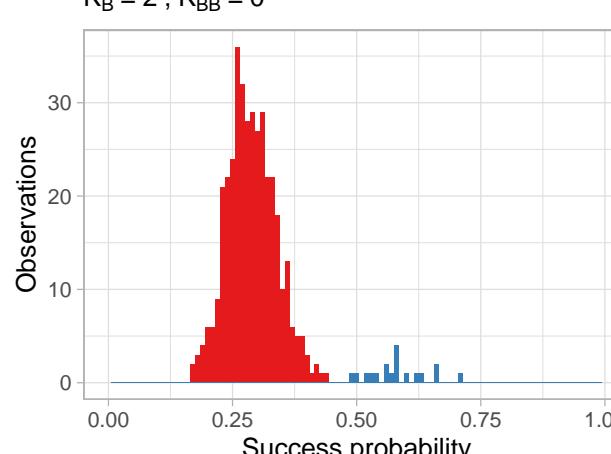
Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$

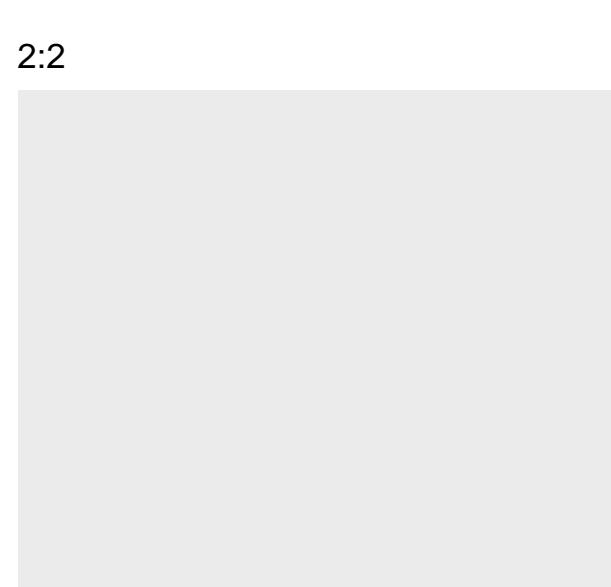


Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

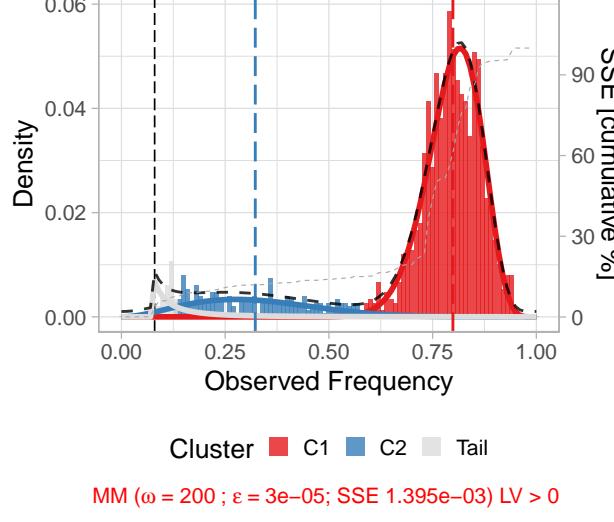


170101_HMFregCPCT_FR12246223_FR12246089_CPCT02070041

ONLY SNVs (min 150 – max 50000)

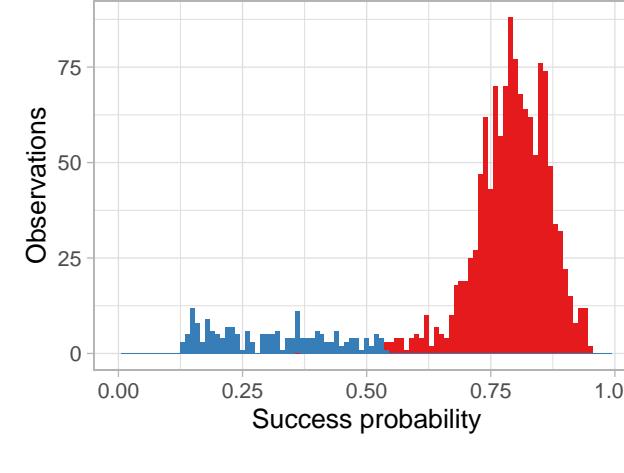
Karyotype: 1:0

N = 1500; Tail 3.57%, C2 12.53%, C1 83.9%



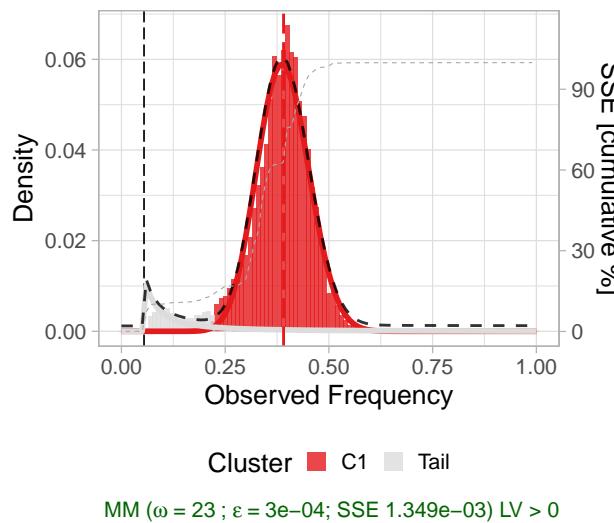
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



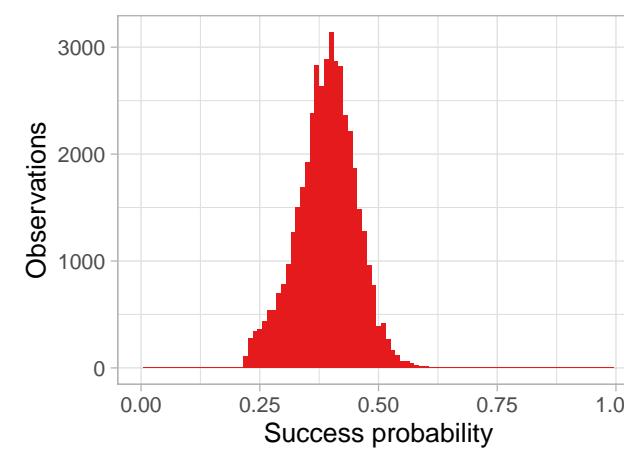
Karyotype: 1:1

N = 46581; Tail 7.84%, C1 92.16%



Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

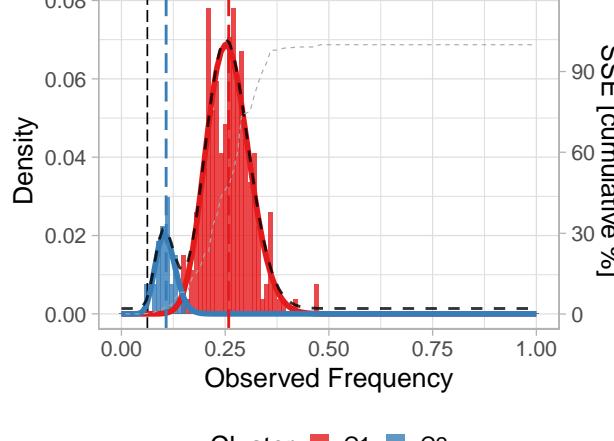
2:2

170101_HMFregCPCT_FR12246232_FR12246090_CPCT02070040

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

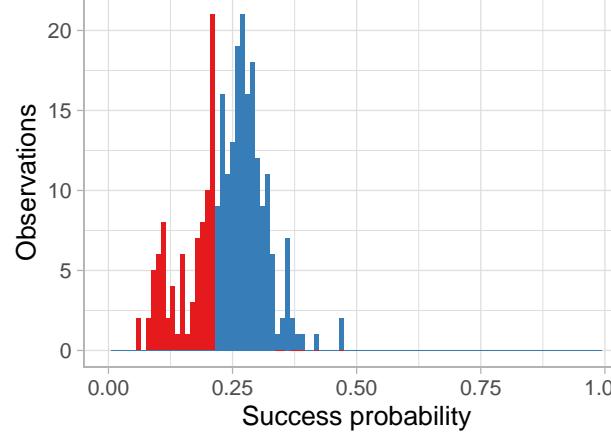
N = 269; Tail 0%, C2 12.02%, C1 87.98%



MM ($\omega = 185$; $\epsilon = 2e-07$; SSE 3.198e-03) LV > 0

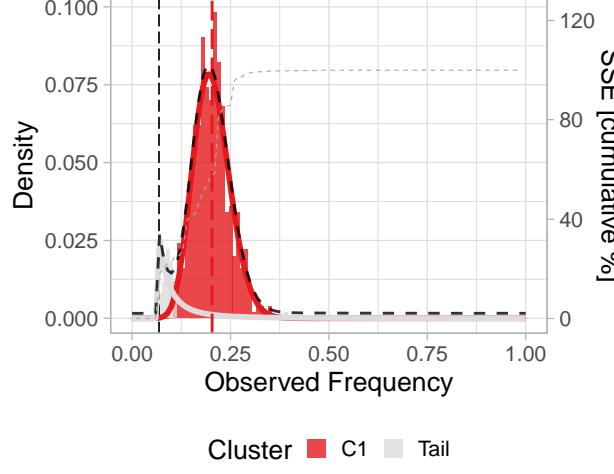
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

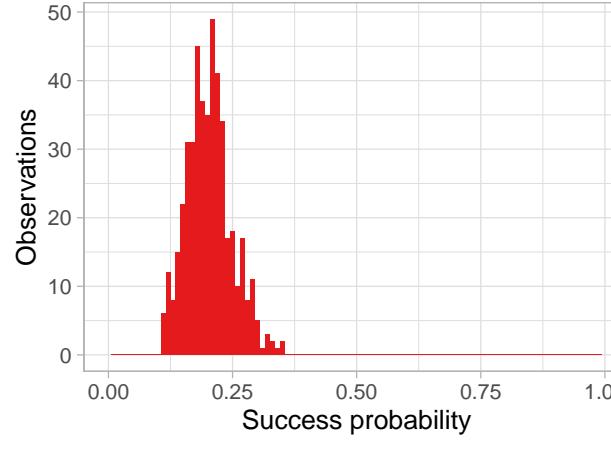
N = 499; Tail 9.79%, C1 90.21%



MM ($\omega = 52$; $\epsilon = 8e-08$; SSE 2.537e-03) LV > 0

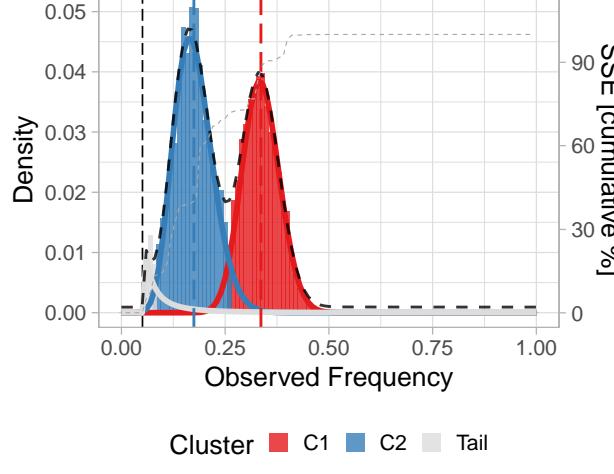
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

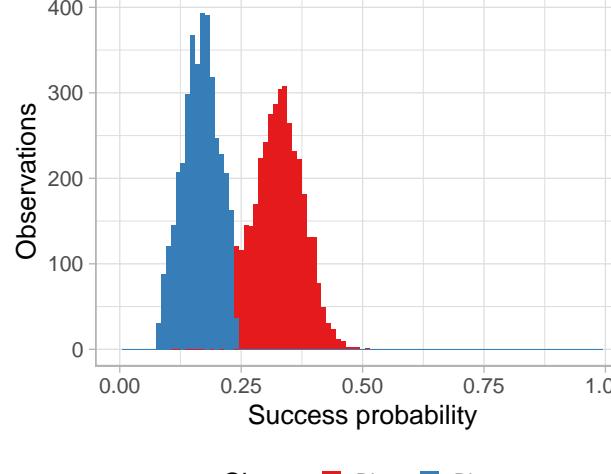
N = 7739; Tail 4.43%, C1 43.15%, C2 52.42%



MM ($\omega = 151$; $\epsilon = 1e-05$; SSE 5.371e-04) LV > 0

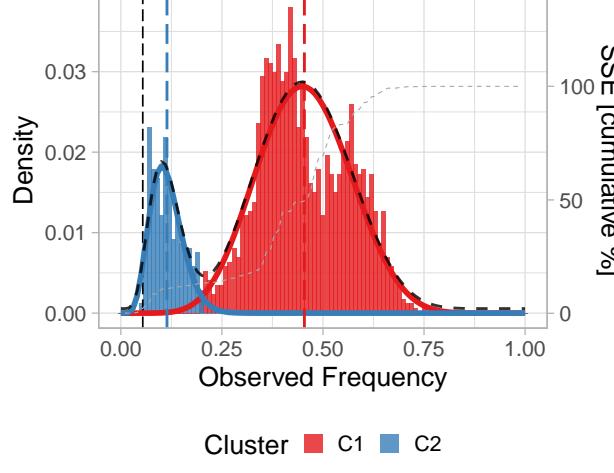
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

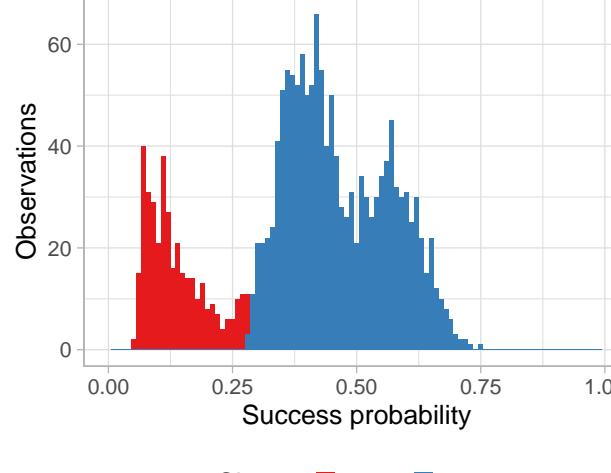
N = 1737; Tail 0%, C2 17.57%, C1 82.43%



MM ($\omega = 86$; $\epsilon = 1e-05$; SSE 1.809e-03) LV > 0

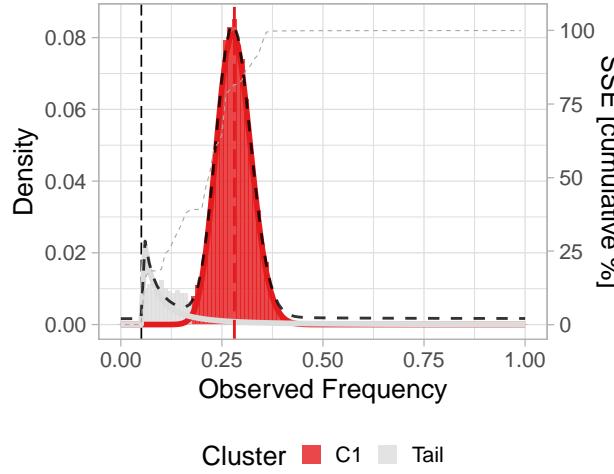
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

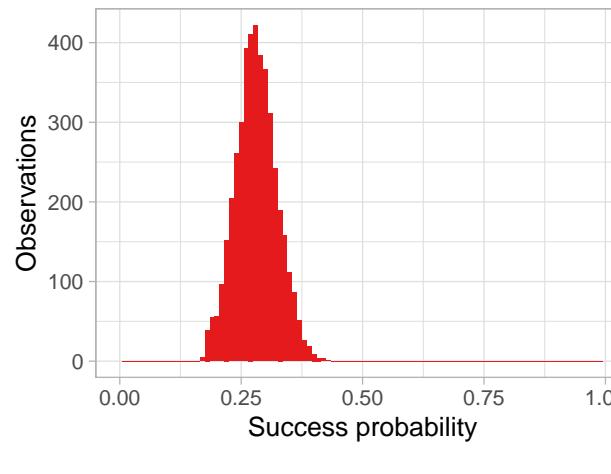
N = 4949; Tail 13.73%, C1 86.27%



MM ($\omega = 23$; $\epsilon = 1e-05$; SSE 1.118e-03) LV > 0

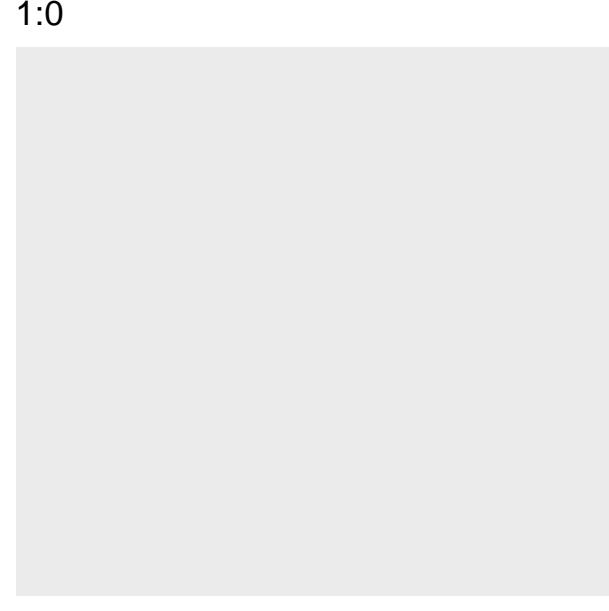
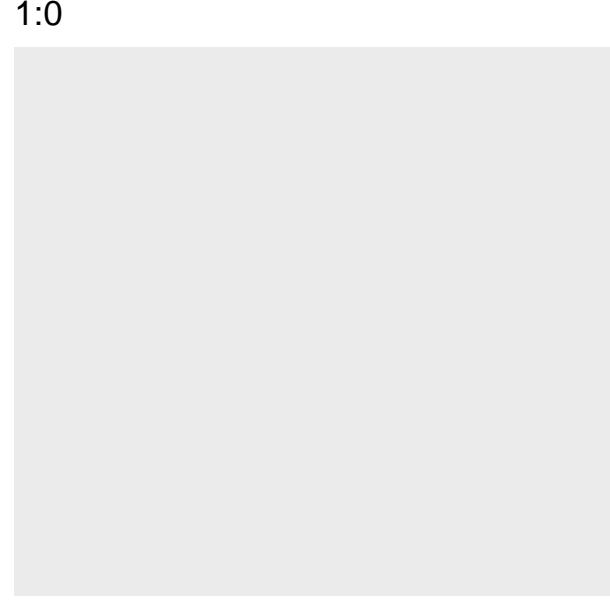
Karyotype: 2:2

$K_B = 1, K_{BB} = 0$



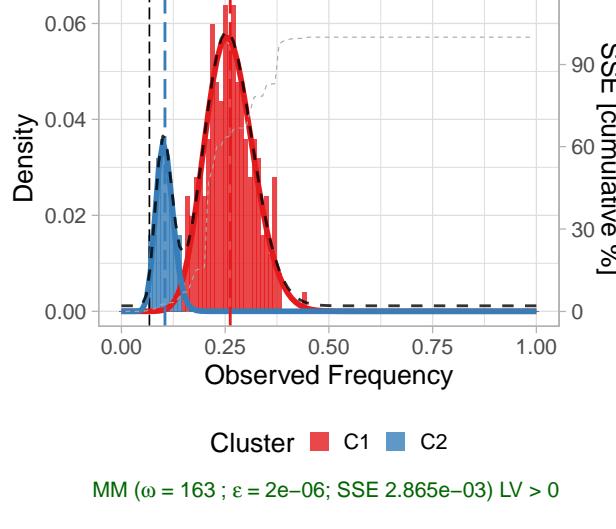
170101_HMFregCPCT_FR13271945_FR12246085_CPCT02180001

ONLY SNVs (min 150 – max 50000)



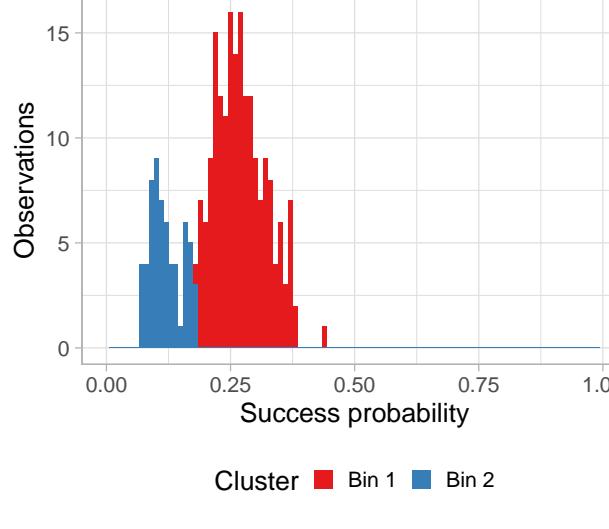
Karyotype: 1:1

N = 251; Tail 0%, C2 18.04%, C1 81.96%



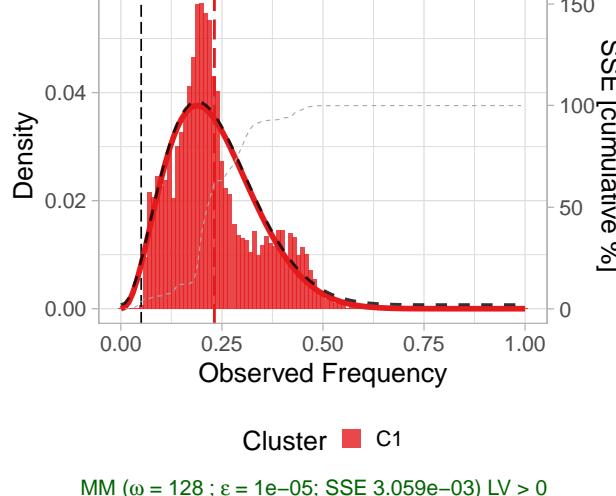
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



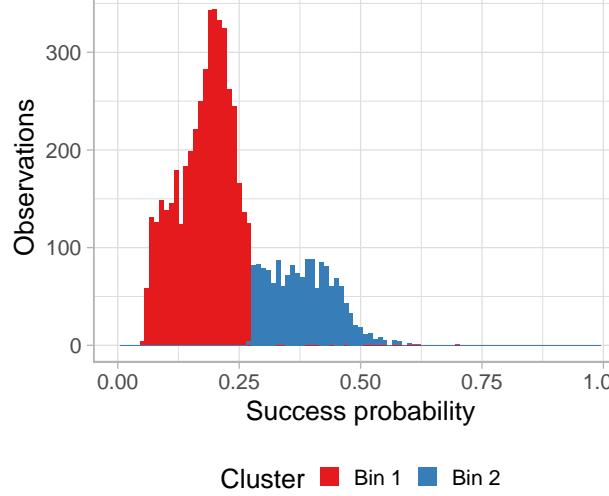
Karyotype: 2:1

N = 6078; Tail 0%, C1 100%



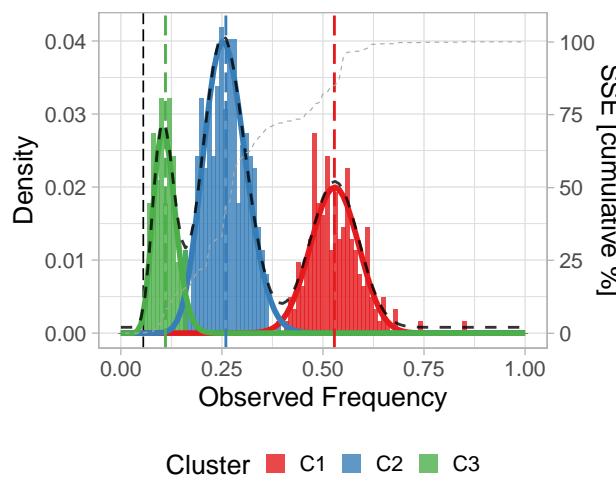
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



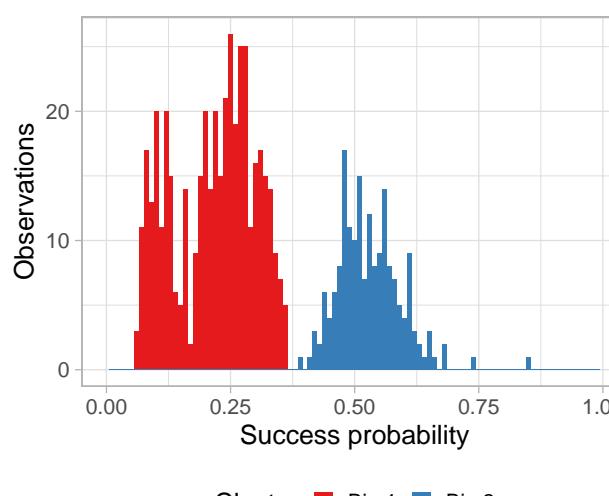
Karyotype: 2:0

N = 621; Tail 0%, C3 18.89%, C1 29.5%, C2 5



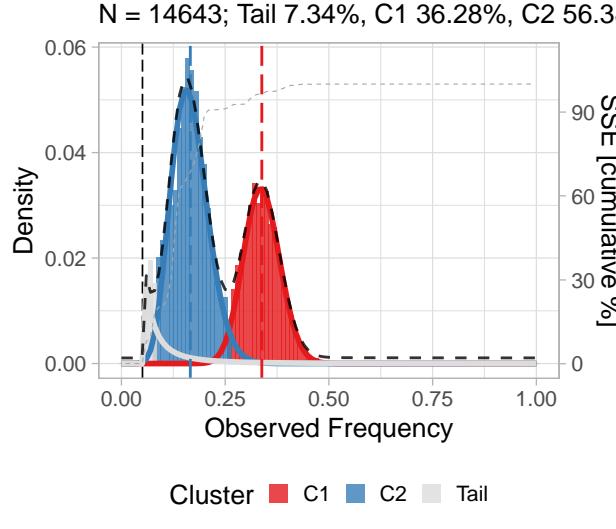
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



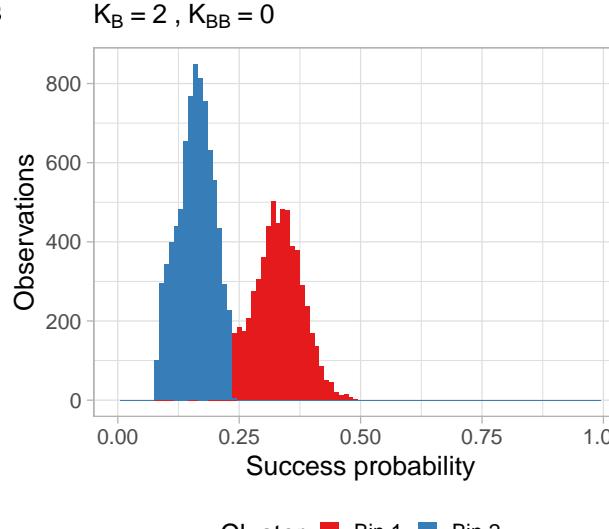
Karyotype: 2:2

N = 14643; Tail 7.34%, C1 36.28%, C2 56.38%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

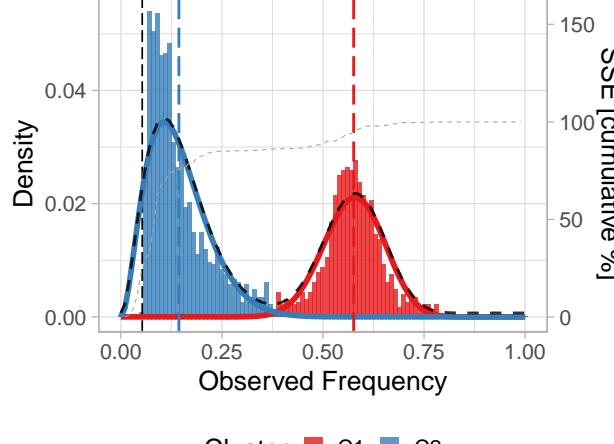


170101_HMFregCPCT_FR13271990_FR12246083_CPCT02180003

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

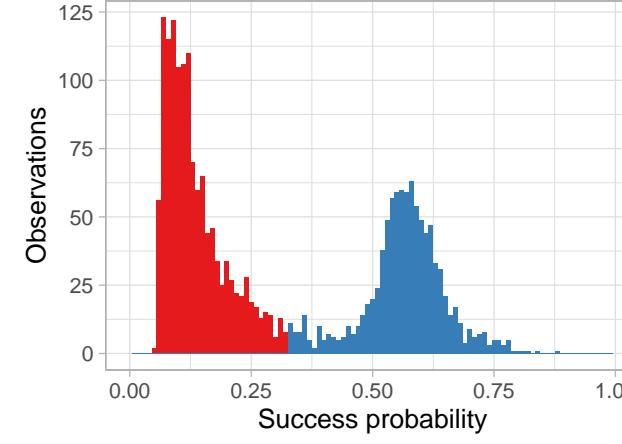
N = 2277; Tail 0%, C1 39.87%, C2 60.13%



MM ($\omega = 58$; $\varepsilon = 2e-04$; SSE 3.676e-03) LV > 0

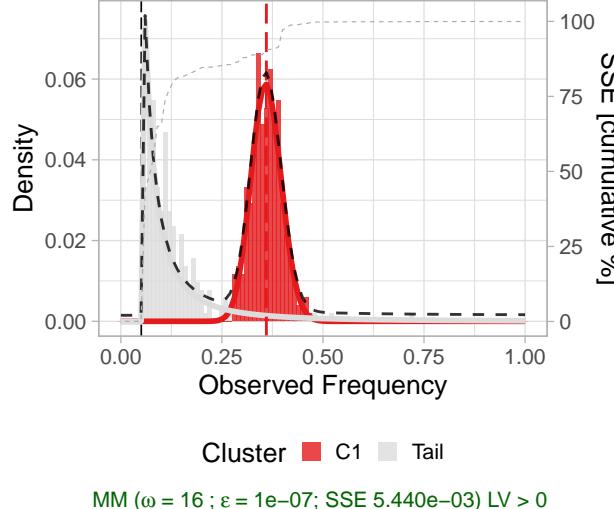
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

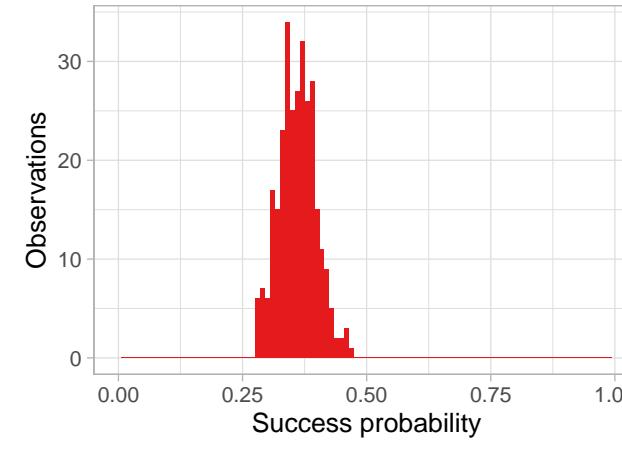
N = 512; Tail 45.13%, C1 54.87%



MM ($\omega = 16$; $\varepsilon = 1e-07$; SSE 5.440e-03) LV > 0

Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

2:2

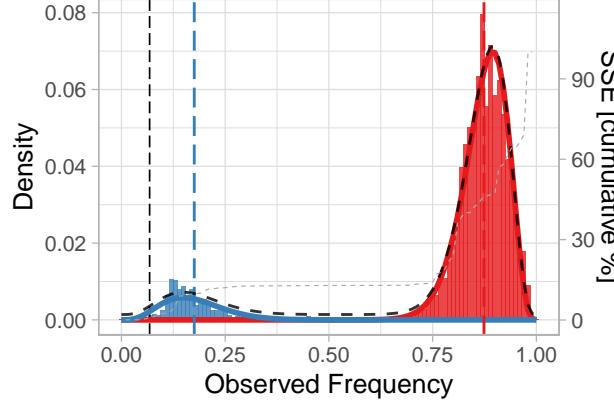
2:2

170103_HMFregCPCT_FR13271946_FR12246084_CPCT02180002

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

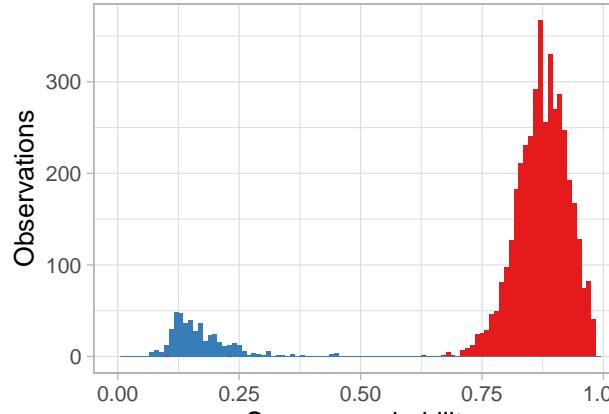
N = 4608; Tail 0%, C2 10.29%, C1 89.71%



MM ($\omega = 28$; $\epsilon = 6e-04$; SSE 9.412e-04) LV > 0

Karyotype: 1:0

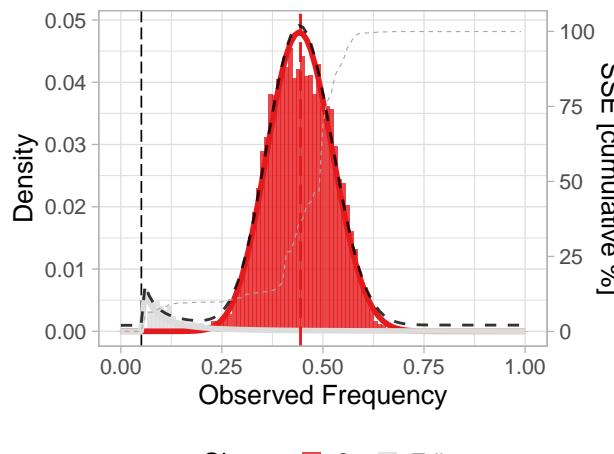
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

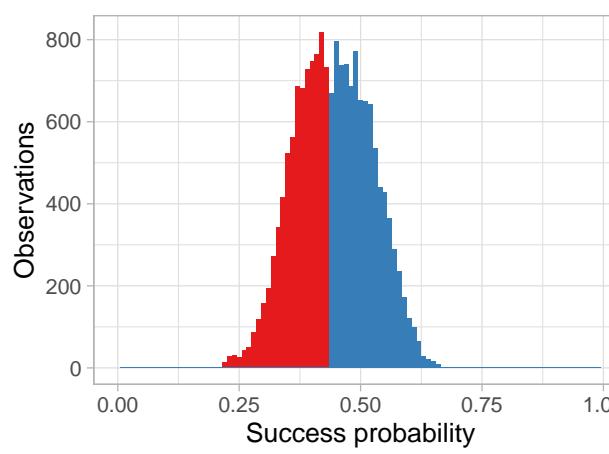
N = 18009; Tail 4.66%, C1 95.34%



MM ($\omega = 14$; $\epsilon = 2e-05$; SSE 7.293e-04) LV > 0

Karyotype: 1:1

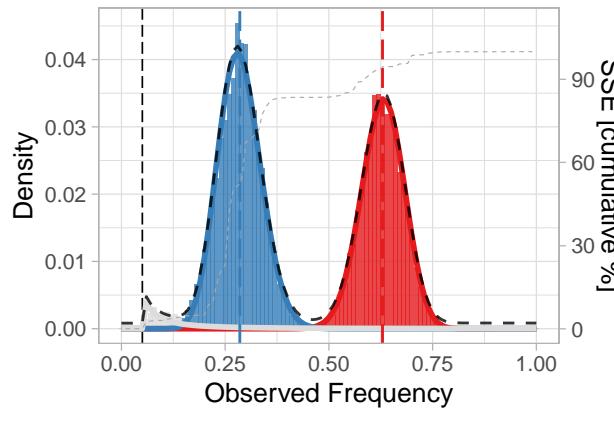
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

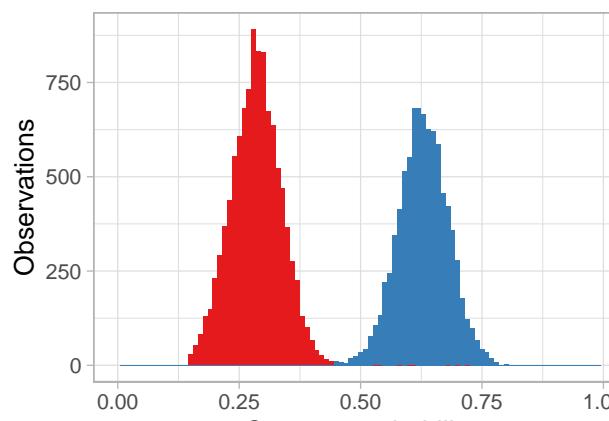
N = 19606; Tail 2.98%, C1 44.18%, C2 52.84%



MM ($\omega = 30$; $\epsilon = 7e-05$; SSE 3.740e-04) LV > 0

Karyotype: 2:1

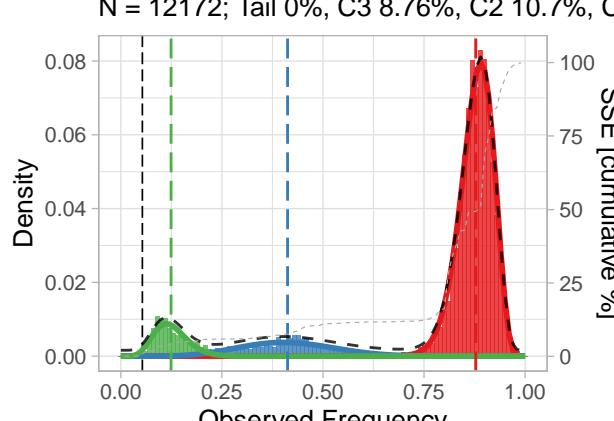
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

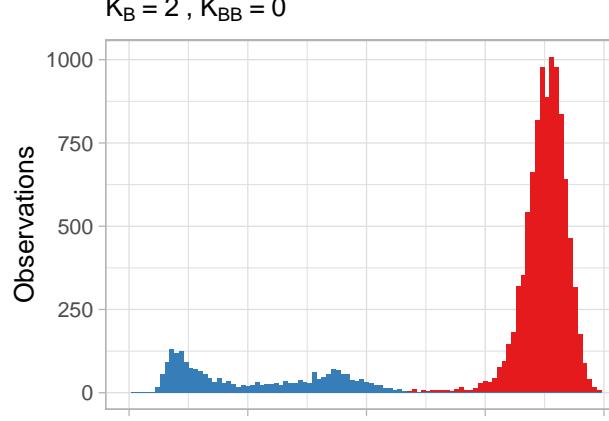
N = 12172; Tail 0%, C3 8.76%, C2 10.7%, C1



MM ($\omega = 107$; $\epsilon = 1e-04$; SSE 4.994e-04) LV > 0

Karyotype: 2:0

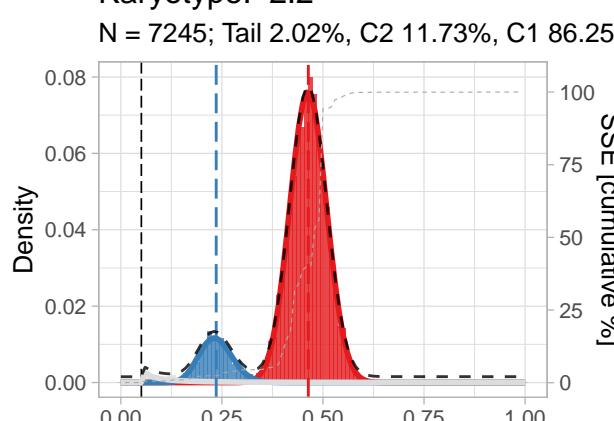
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

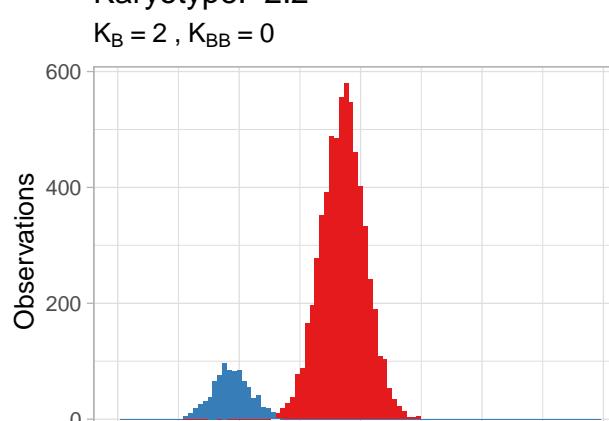
N = 7245; Tail 2.02%, C2 11.73%, C1 86.25%



MM ($\omega = 55$; $\epsilon = 1e-05$; SSE 6.003e-04) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

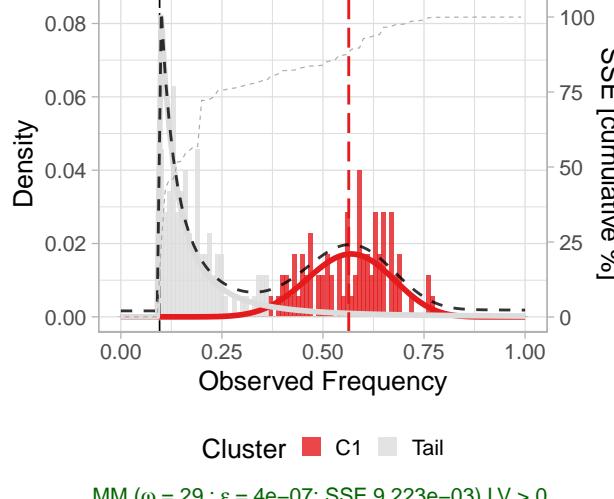


Cluster ■ Bin 1 ■ Bin 2

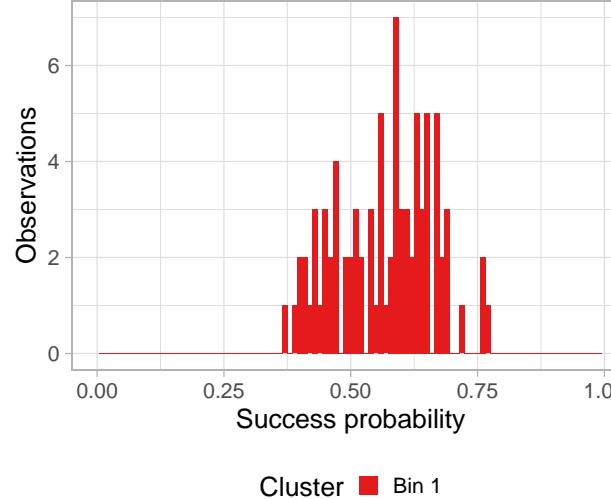
170106_HMFregCPCT_FR12246011_FR13980147_CPCT02070049

ONLY SNVs (min 150 – max 50000)

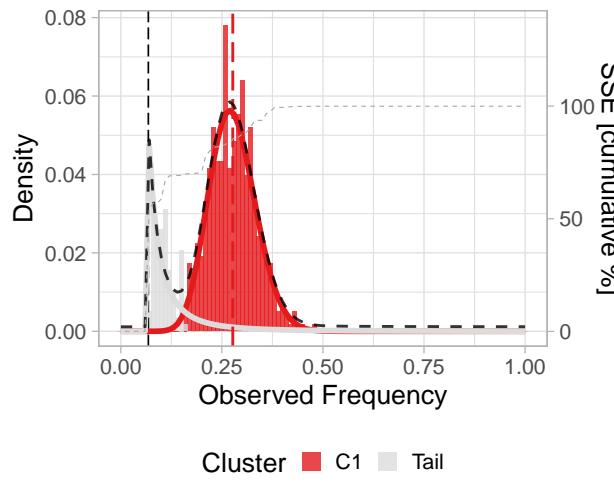
Karyotype: 1:0
N = 175; C1 44.59%, Tail 55.41%



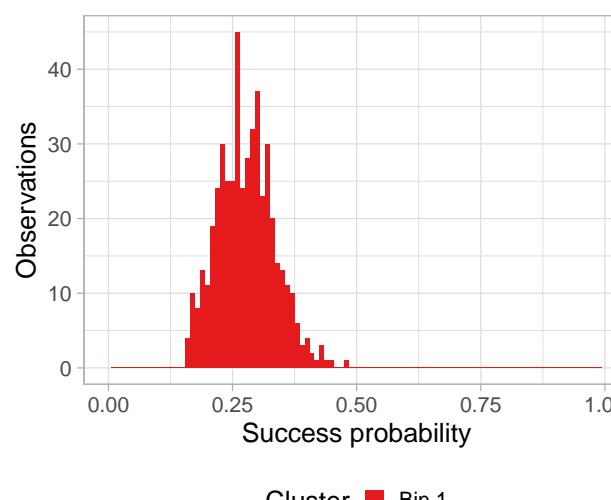
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



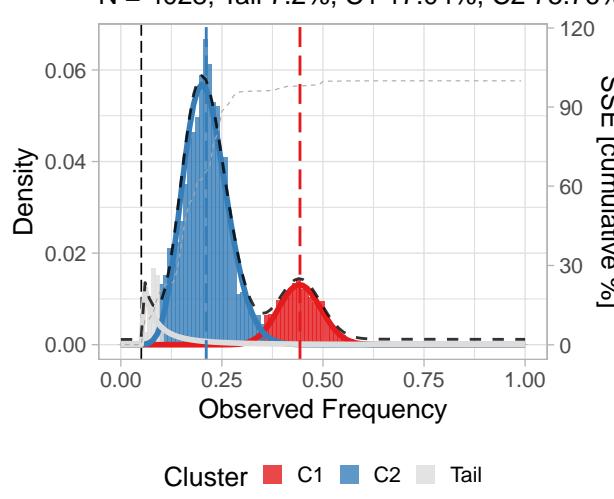
Karyotype: 1:1
N = 577; Tail 19.68%, C1 80.32%



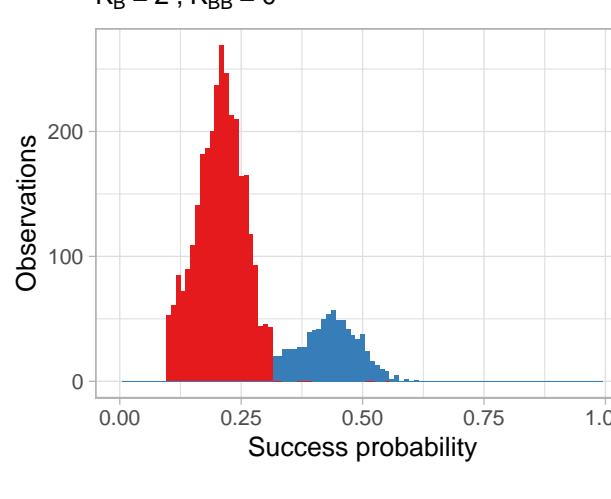
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



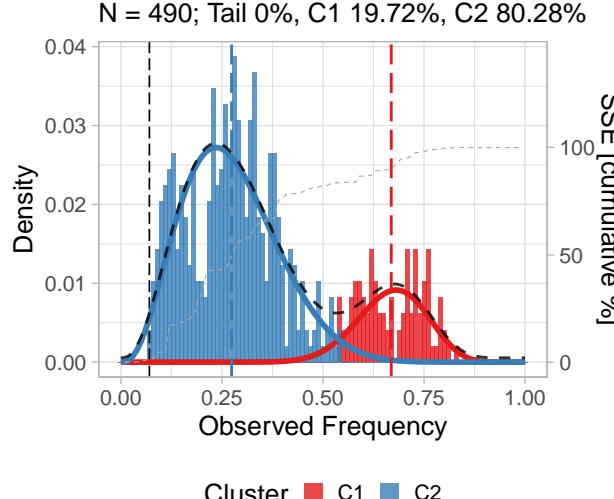
Karyotype: 2:1
N = 4028; Tail 7.2%, C1 17.04%, C2 75.76%



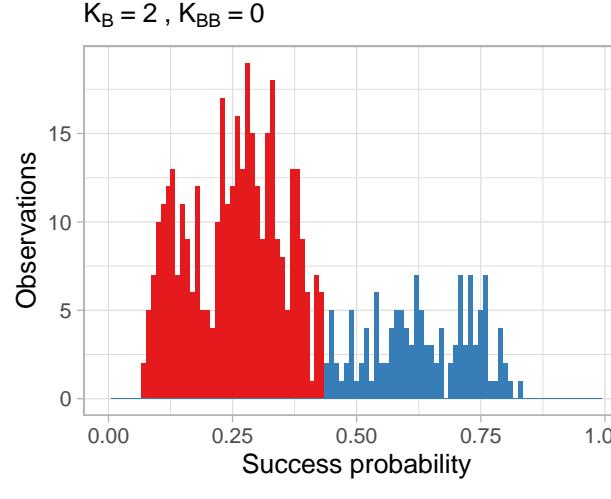
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



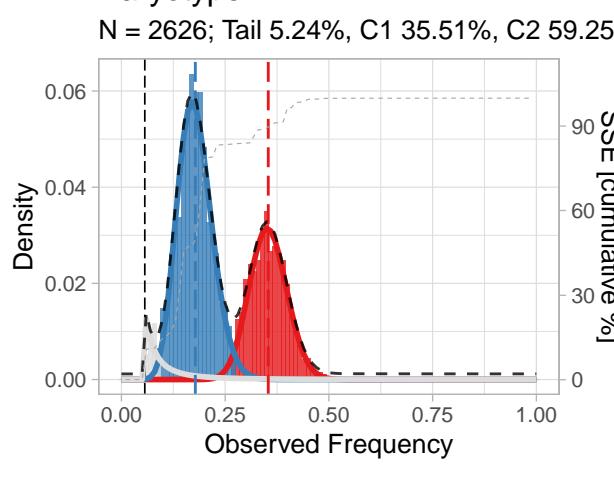
Karyotype: 2:0
N = 490; Tail 0%, C1 19.72%, C2 80.28%



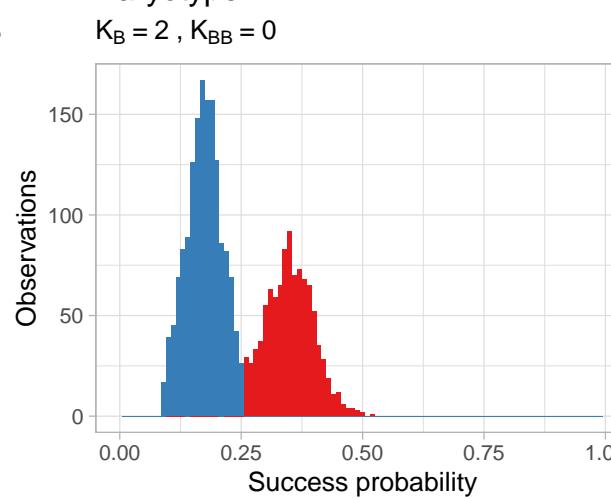
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 2626; Tail 5.24%, C1 35.51%, C2 59.25%



Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$

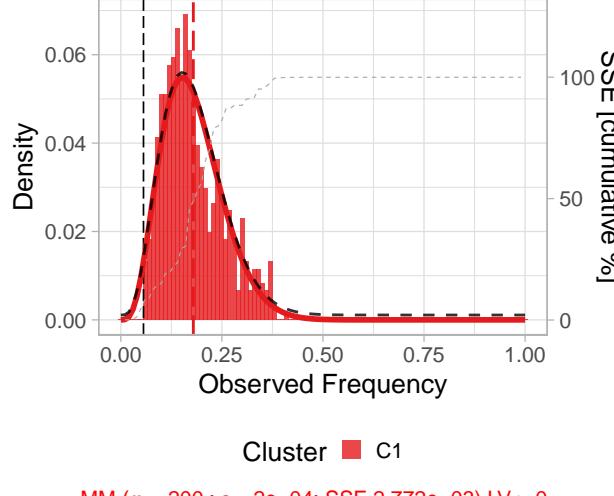


170106_HMFregCPCT_FR12246014_FR13980143_CPCT02070046

ONLY SNVs (min 150 – max 50000)

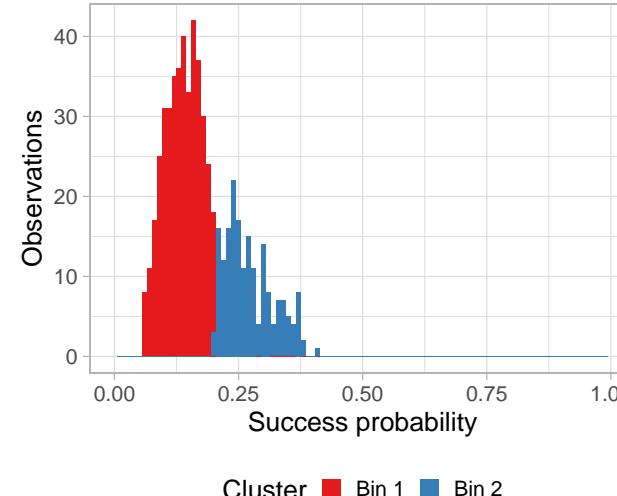
Karyotype: 1:0

N = 607; Tail 0%, C1 100%



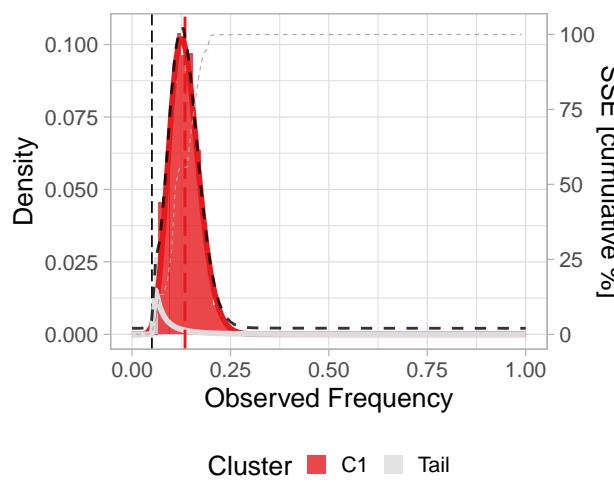
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



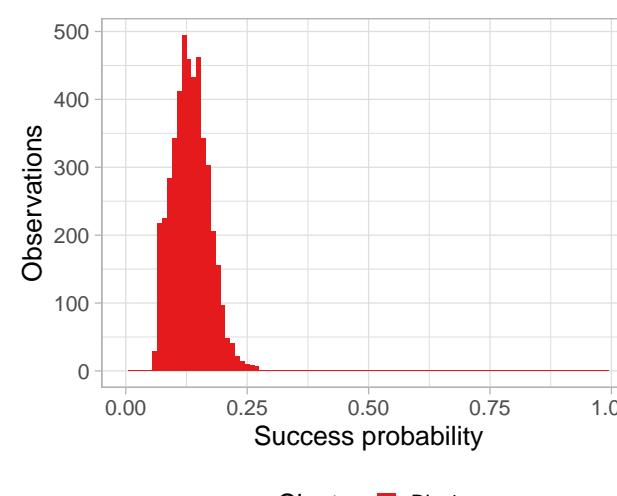
Karyotype: 1:1

N = 4760; Tail 6.47%, C1 93.53%



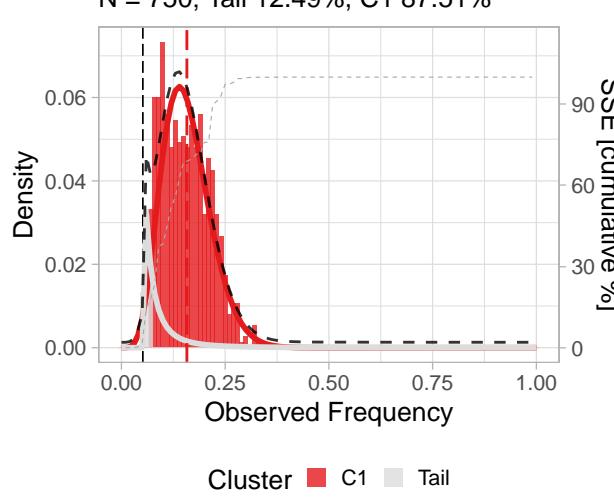
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



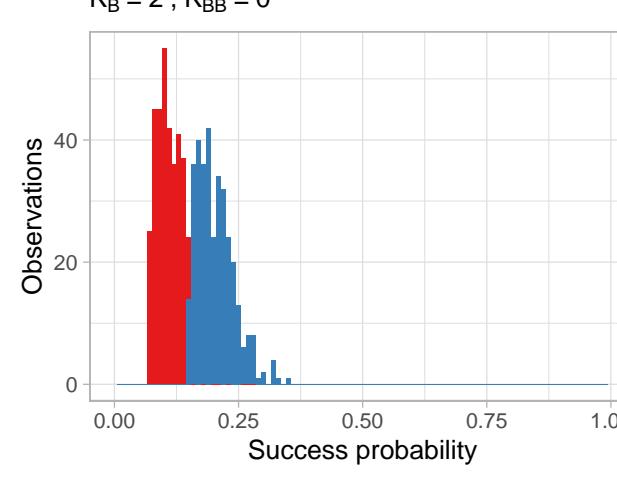
Karyotype: 2:1

N = 750; Tail 12.49%, C1 87.51%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

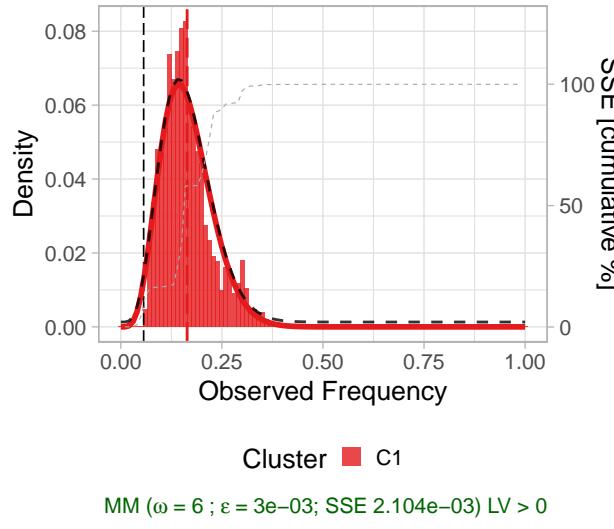
2:2

170106_HMFregCPCT_FR12246179_FR13980146_CPCT02070039

ONLY SNVs (min 150 – max 50000)

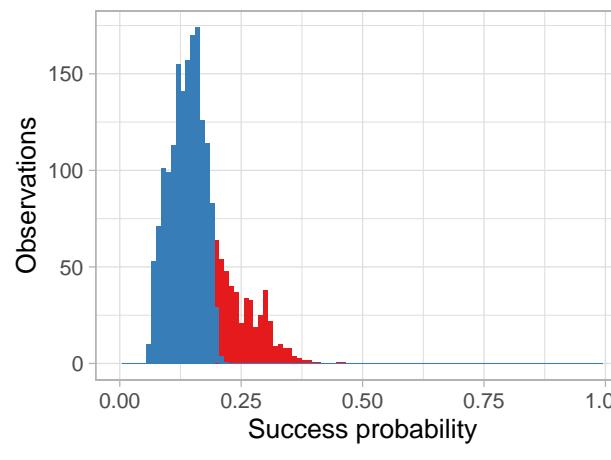
Karyotype: 1:0

N = 2103; Tail 0%, C1 100%



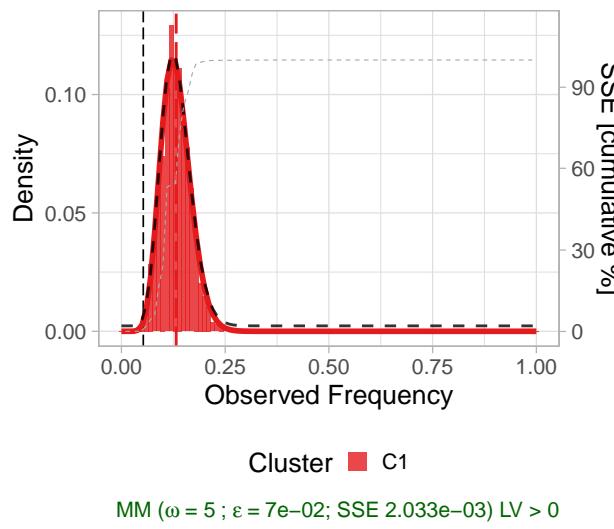
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



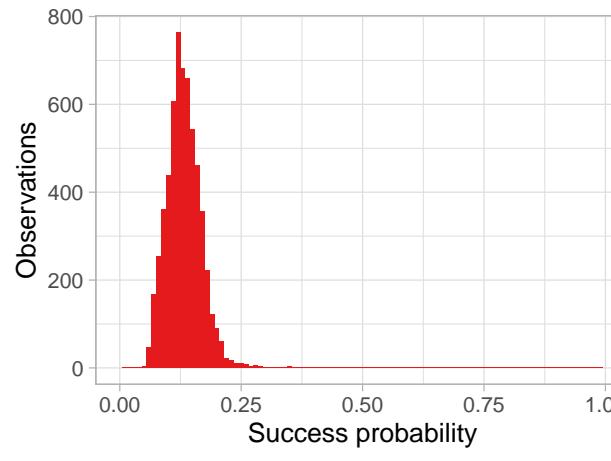
Karyotype: 1:1

N = 5923; Tail 0%, C1 100%



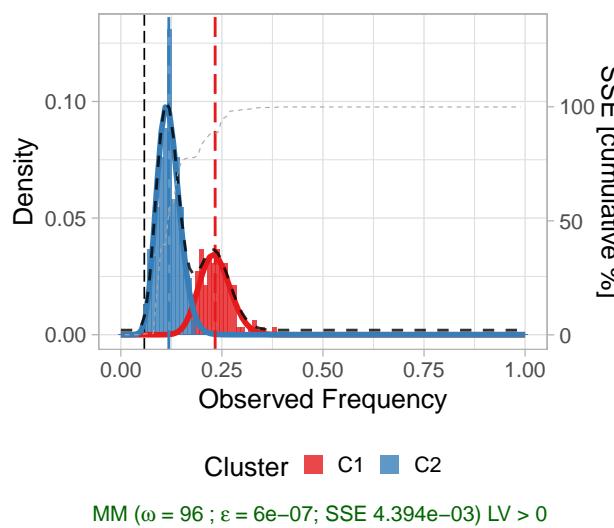
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



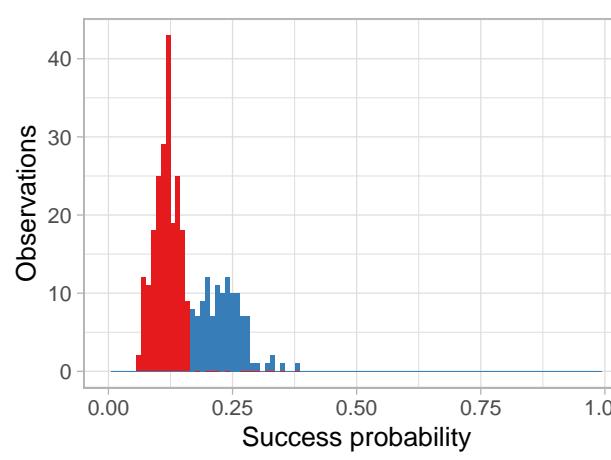
Karyotype: 2:1

N = 328; Tail 0%, C1 32.6%, C2 67.4%



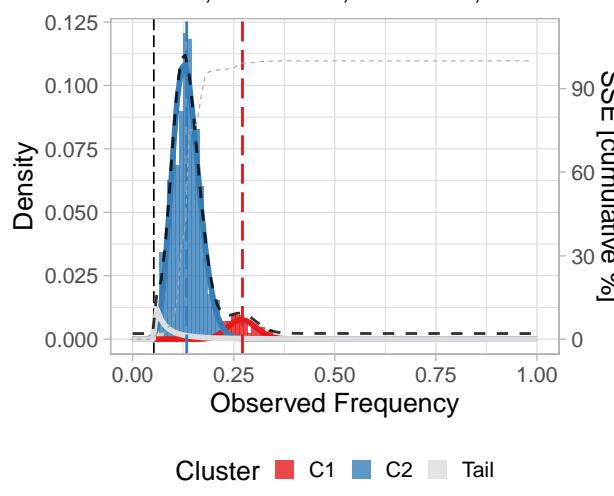
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



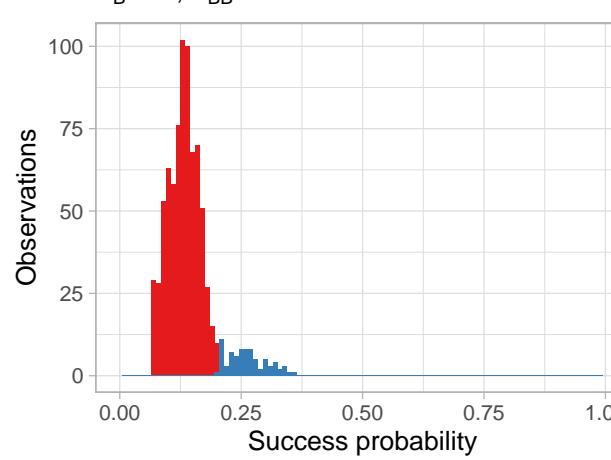
Karyotype: 2:0

N = 846; Tail 5.21%, C1 6.75%, C2 88.04%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

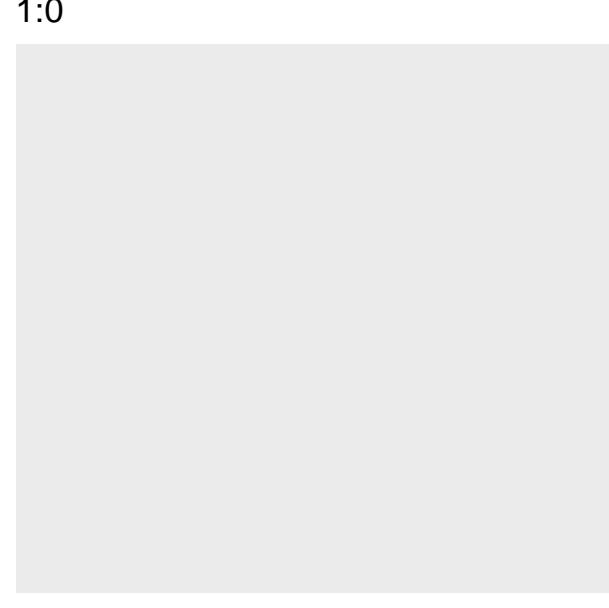
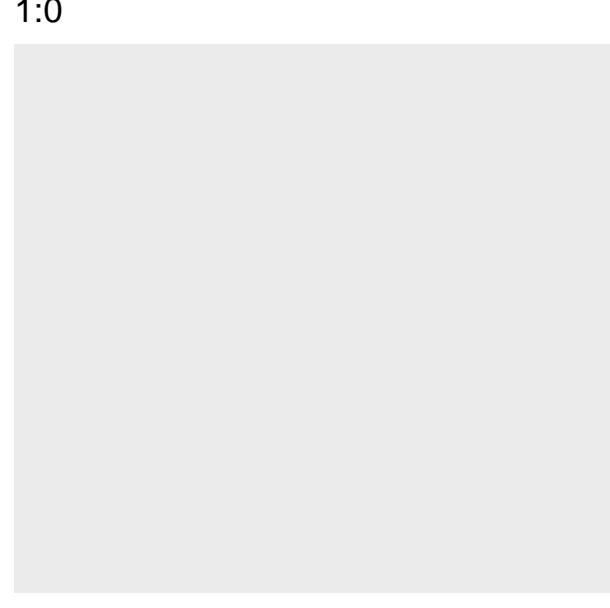


2:2

2:2

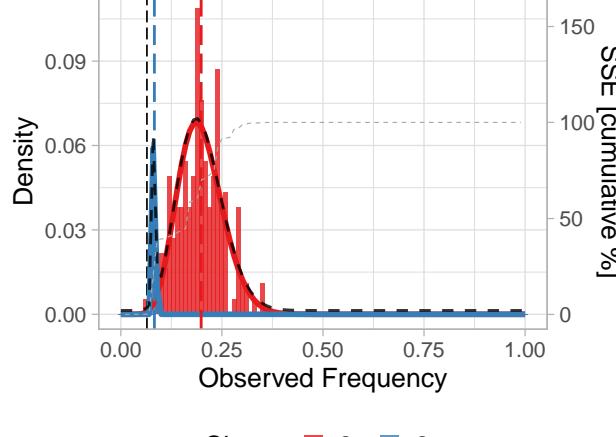
170108_HMFregCPCT_FR12246136_FR13980162_CPCT02020422

ONLY SNVs (min 150 – max 50000)



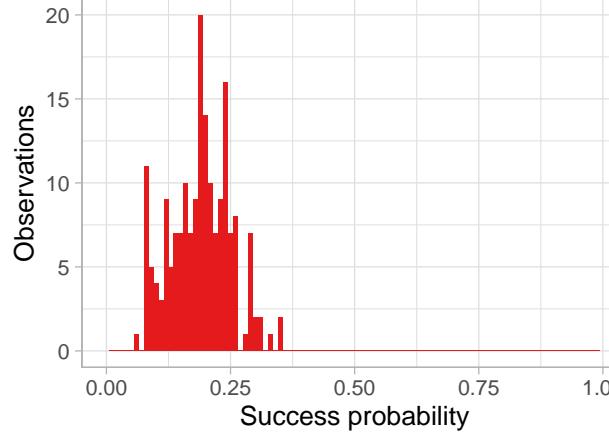
Karyotype: 1:1

N = 184; Tail 0%, C2 7.23%, C1 92.77%



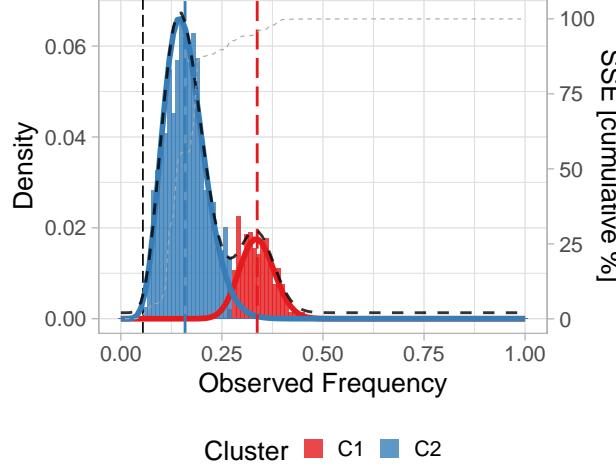
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



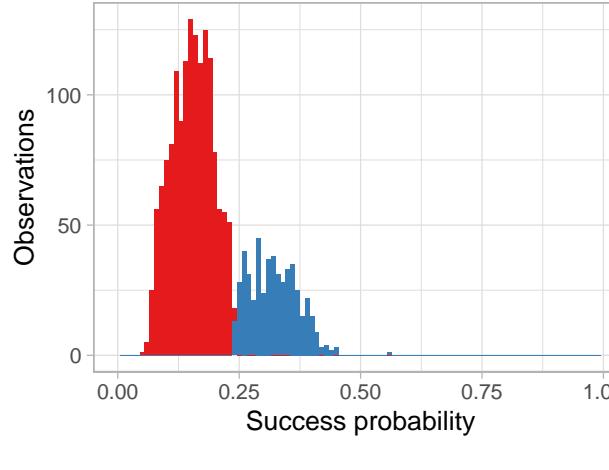
Karyotype: 2:1

N = 1986; Tail 0%, C1 18.8%, C2 81.2%



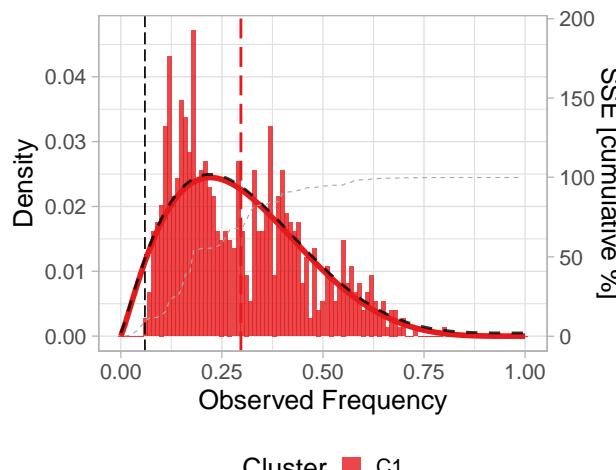
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



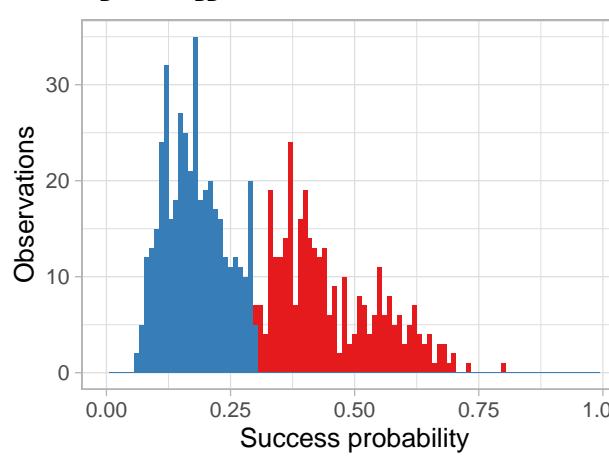
Karyotype: 2:0

N = 742; Tail 0%, C1 100%



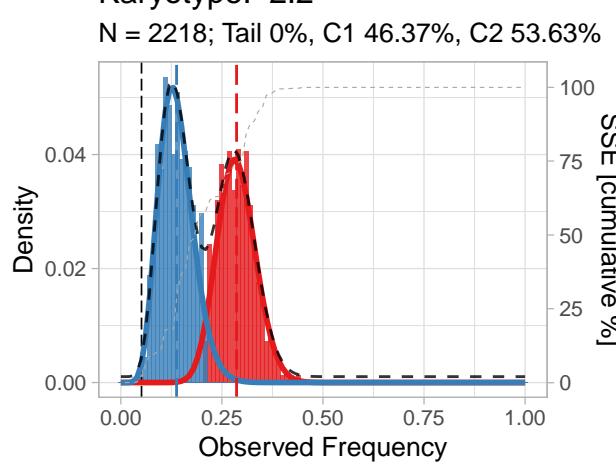
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



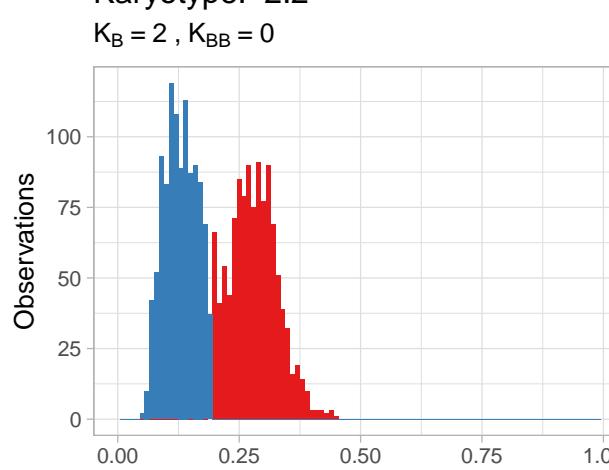
Karyotype: 2:2

N = 2218; Tail 0%, C1 46.37%, C2 53.63%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



MM ($\omega = 164$; $\epsilon = 1e-06$; SSE 1.048e-02) LV > 0

MM ($\omega = 180$; $\epsilon = 1e-03$; SSE 1.347e-03) LV > 0

MM ($\omega = 180$; $\epsilon = 3e-04$; SSE 3.285e-03) LV > 0

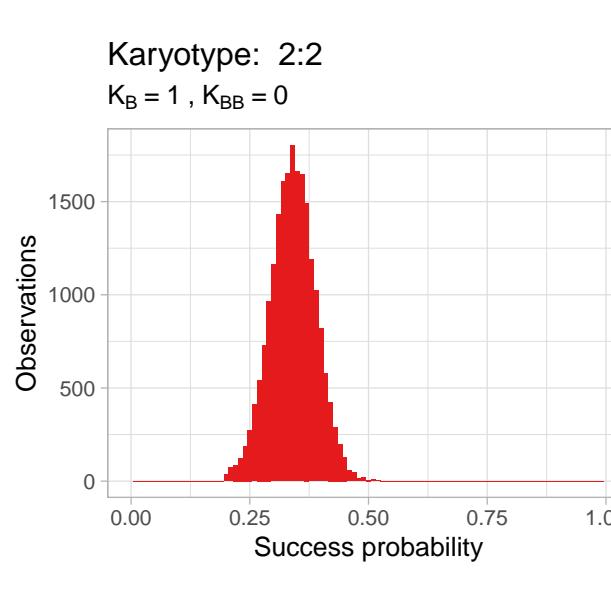
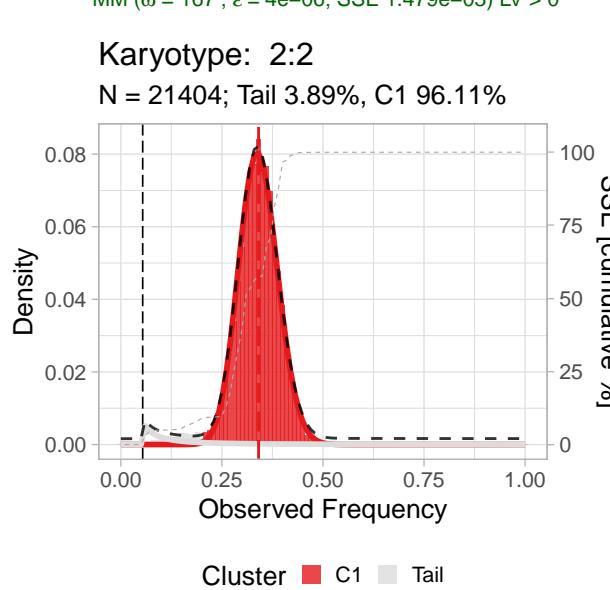
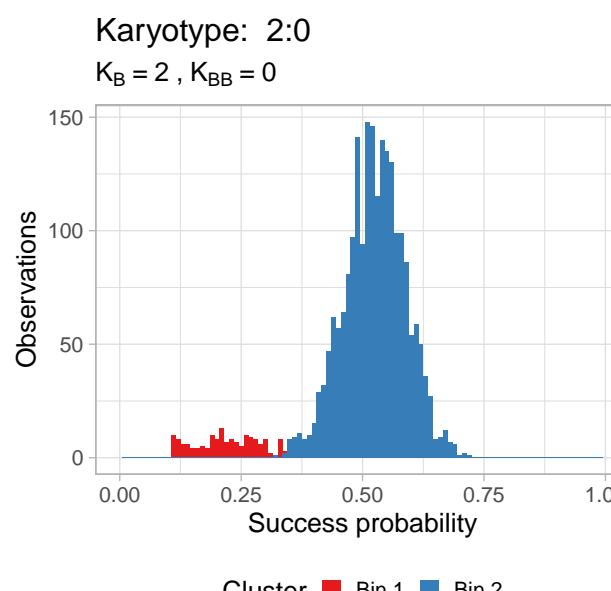
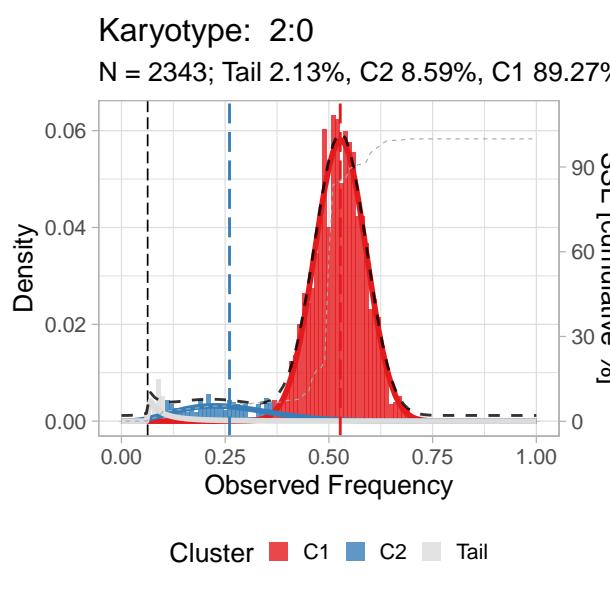
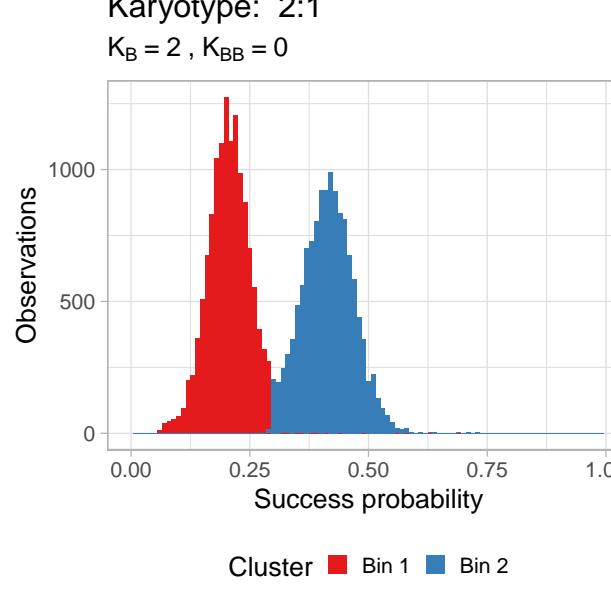
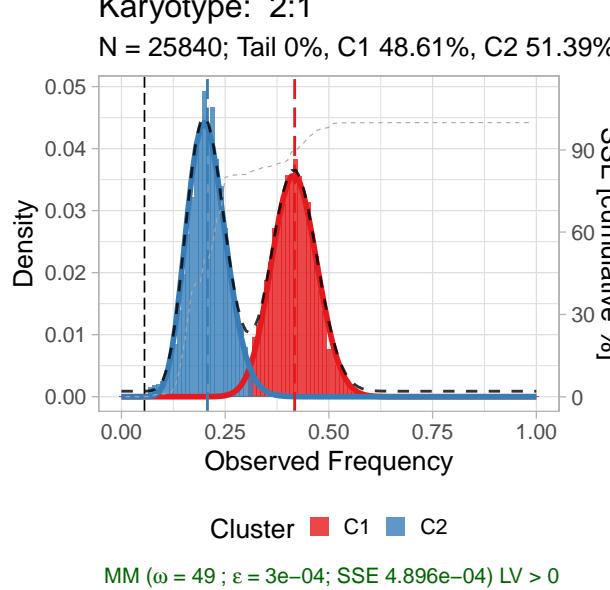
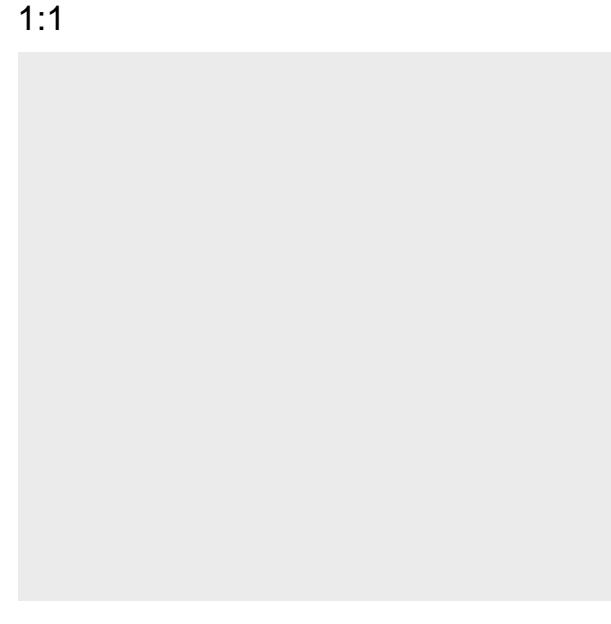
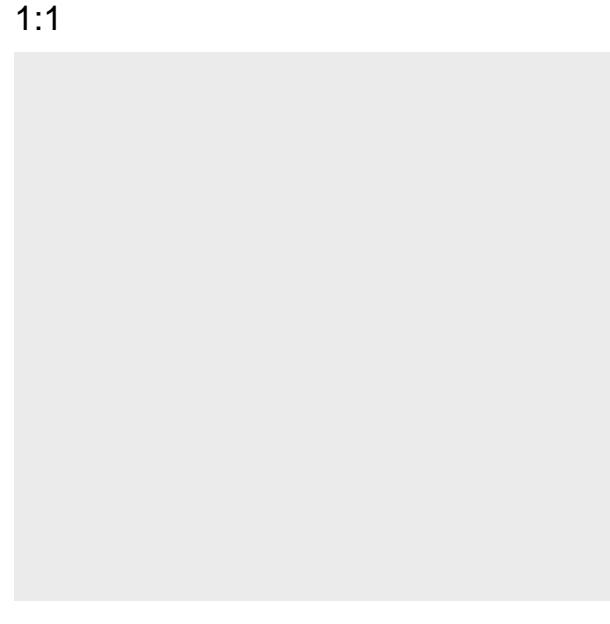
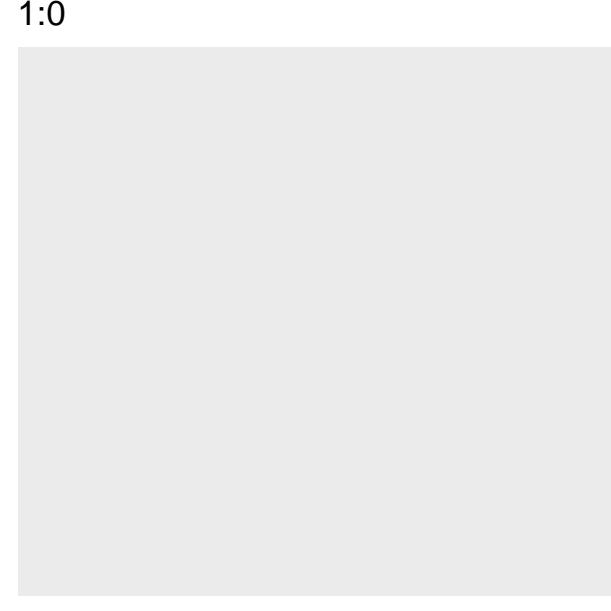
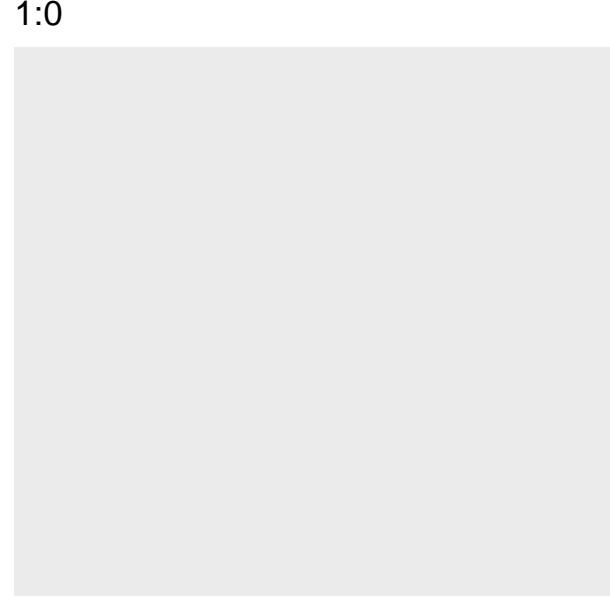
MM ($\omega = 151$; $\epsilon = 5e-06$; SSE 4.915e-04) LV > 0

MM ($\omega = 151$; $\epsilon = 5e-06$; SSE 4.915e-04) LV > 0

MM ($\omega = 151$; $\epsilon = 5e-06$; SSE 4.915e-04) LV > 0

170110_HMFregCPCT_FR12246037_FR13980156_CPCT02020426

ONLY SNVs (min 150 – max 50000)

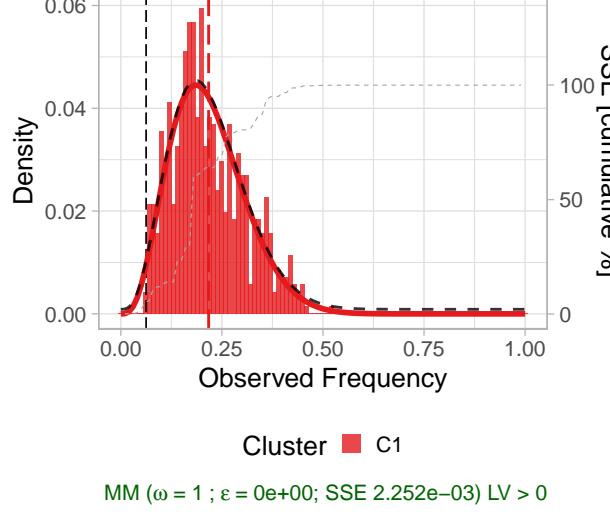


170110_HMFregCPCT_FR12246039_FR13980178_CPCT02030302

ONLY SNVs (min 150 – max 50000)

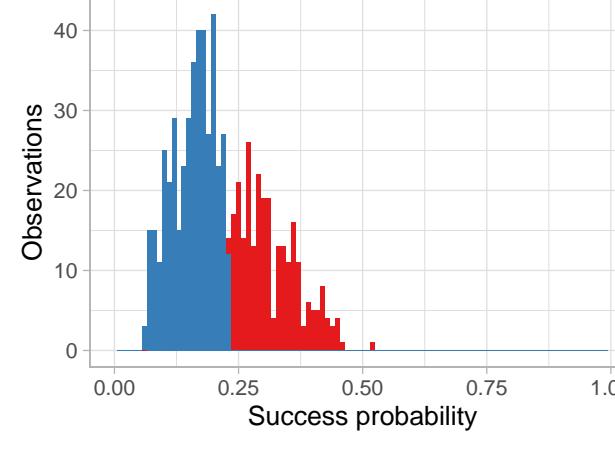
Karyotype: 1:0

N = 706; Tail 0%, C1 100%



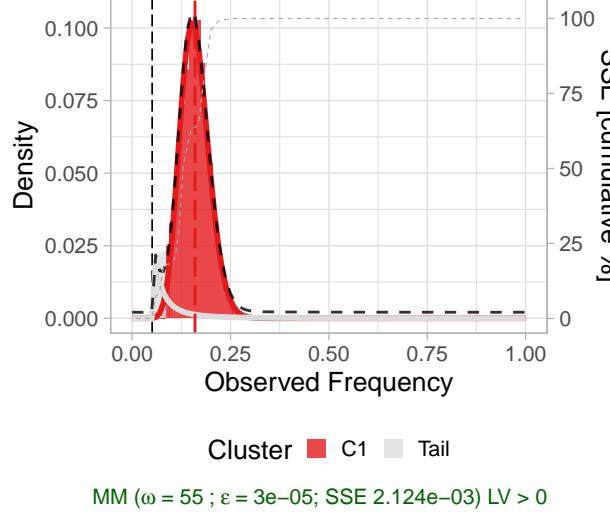
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



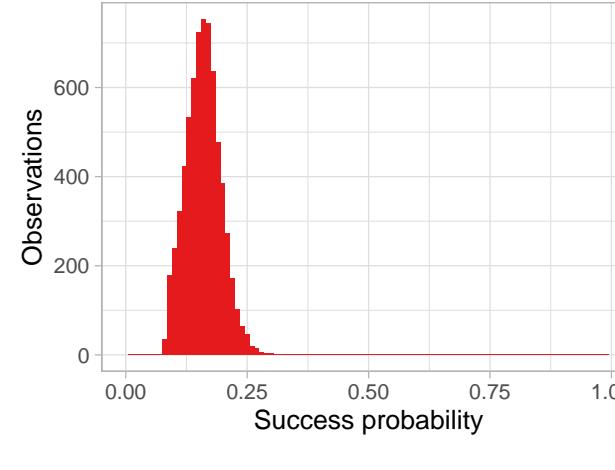
Karyotype: 1:1

N = 7240; Tail 8.74%, C1 91.26%



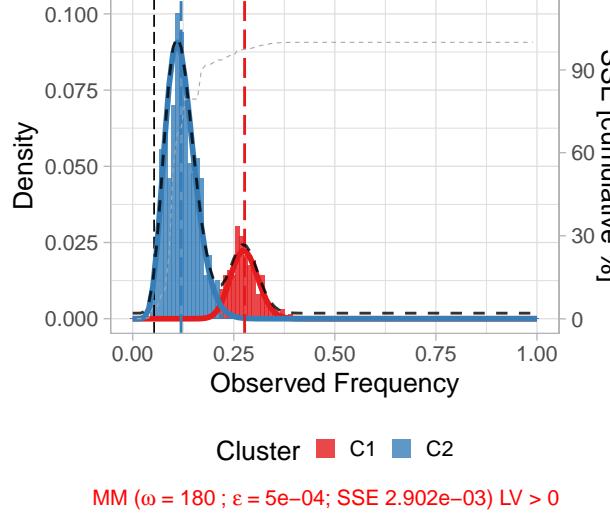
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



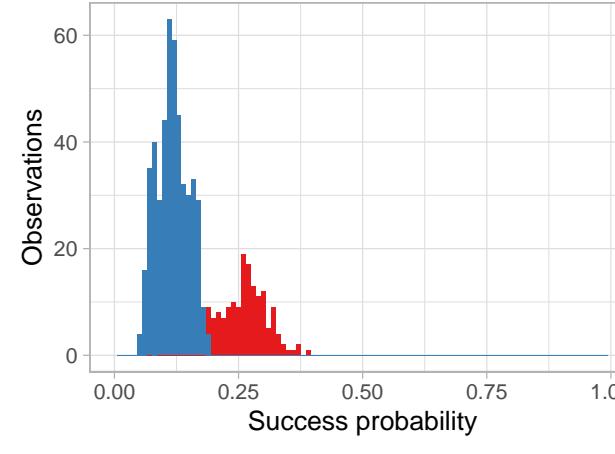
Karyotype: 2:1

N = 628; Tail 0%, C1 18.86%, C2 81.14%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

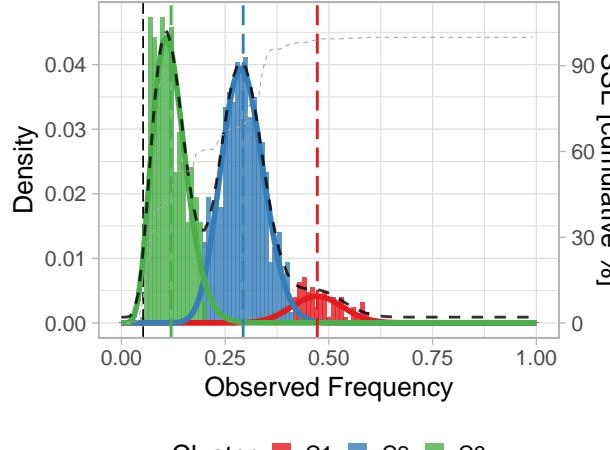
2:2

170114_HMFregCPCT_FR12246218_FR13980167_CPCT02050086

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

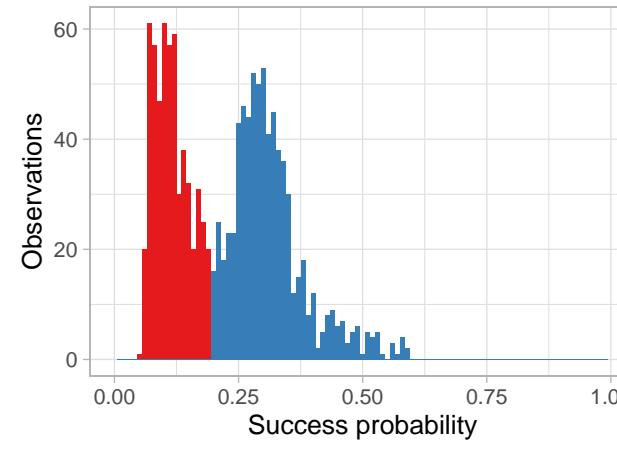
N = 1288; Tail 0%, C1 6.28%, C3 43.61%, C2



MM ($\omega = 180$; $\epsilon = 7e-04$; SSE $1.384e-03$) LV > 0

Karyotype: 1:0

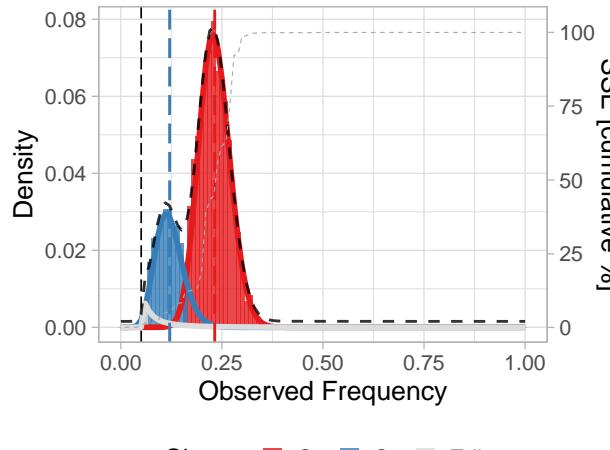
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

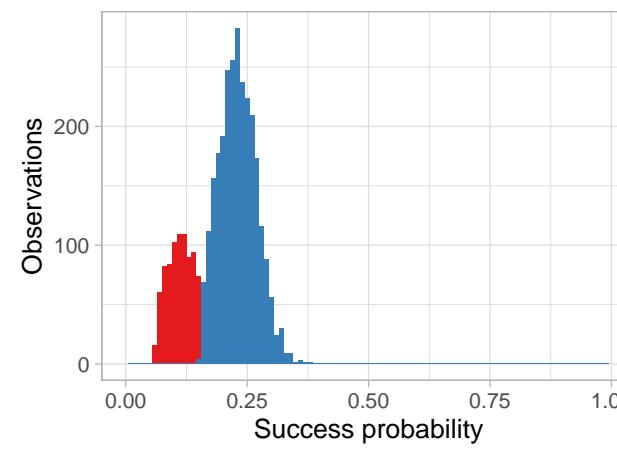
N = 3563; Tail 3.02%, C2 24.53%, C1 72.45%



MM ($\omega = 180$; $\epsilon = 1e-04$; SSE $7.183e-04$) LV > 0

Karyotype: 1:1

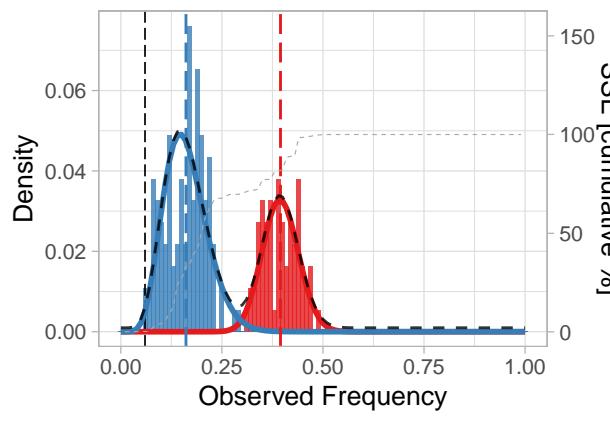
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

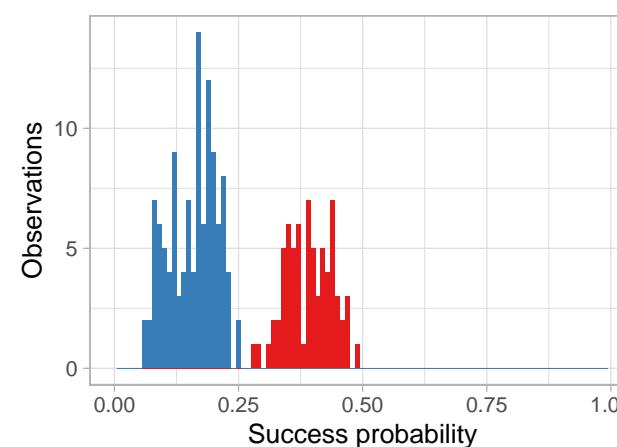
N = 184; Tail 0%, C1 36.66%, C2 63.34%



MM ($\omega = 27$; $\epsilon = 5e-06$; SSE $6.181e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:0

2:0

2:2

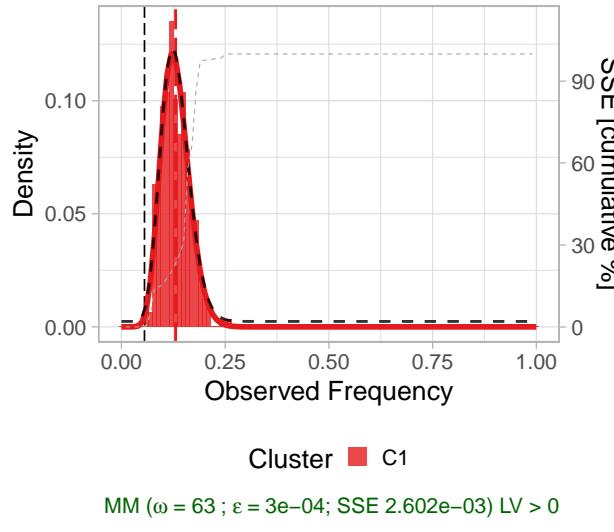
2:2

170114_HMFregCPCT_FR13980180_FR13980139_CPCT02010455

ONLY SNVs (min 150 – max 50000)

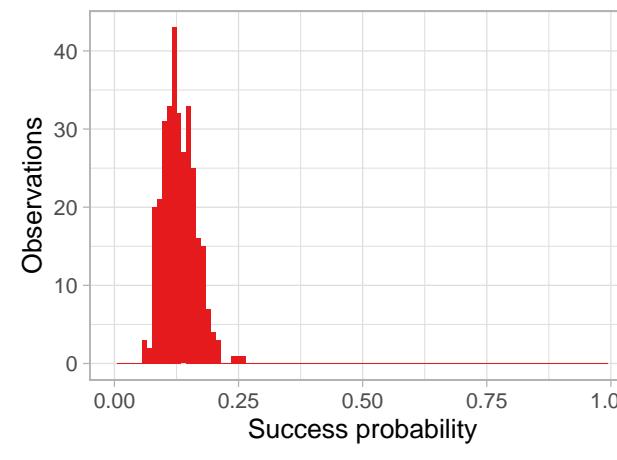
Karyotype: 1:0

N = 318; Tail 0%, C1 100%



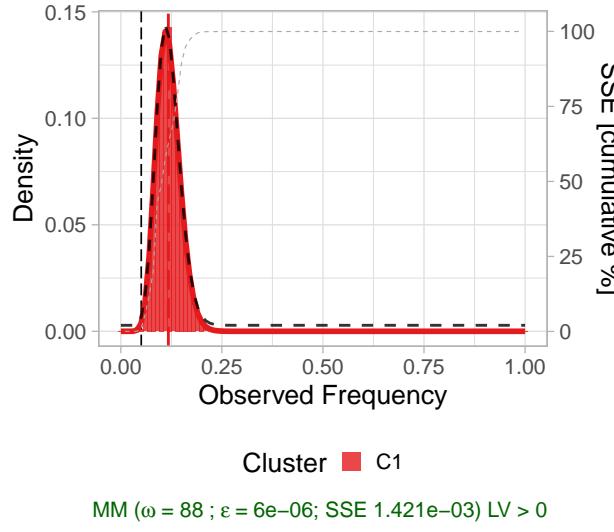
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



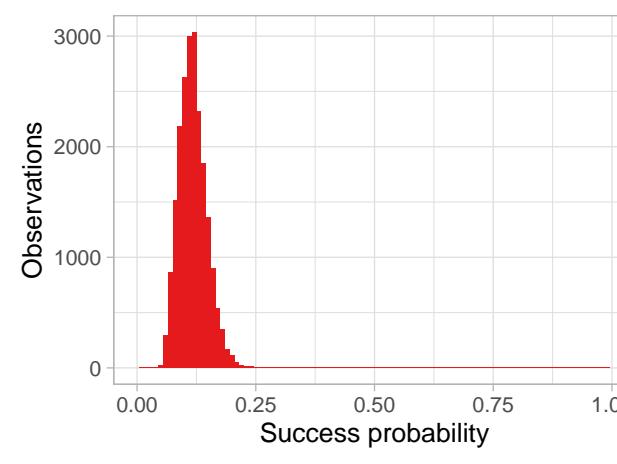
Karyotype: 1:1

N = 21271; Tail 0%, C1 100%



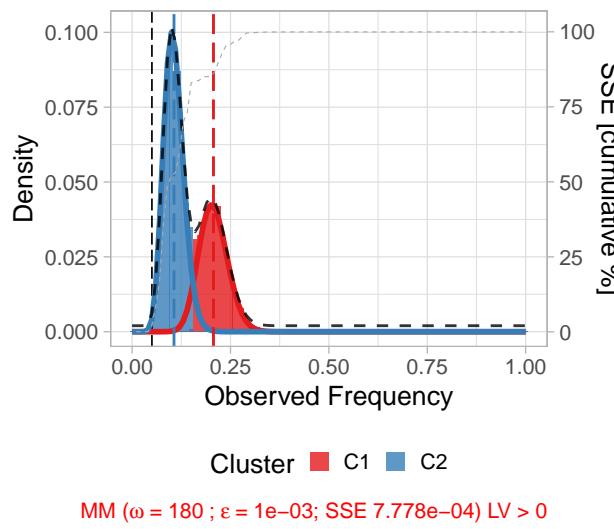
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



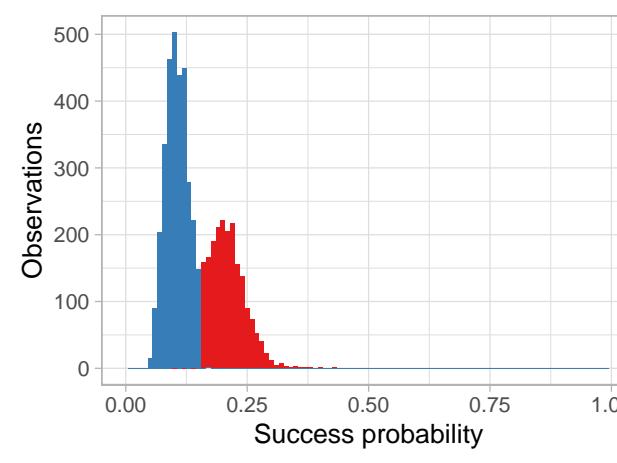
Karyotype: 2:1

N = 5165; Tail 0%, C1 38.3%, C2 61.7%



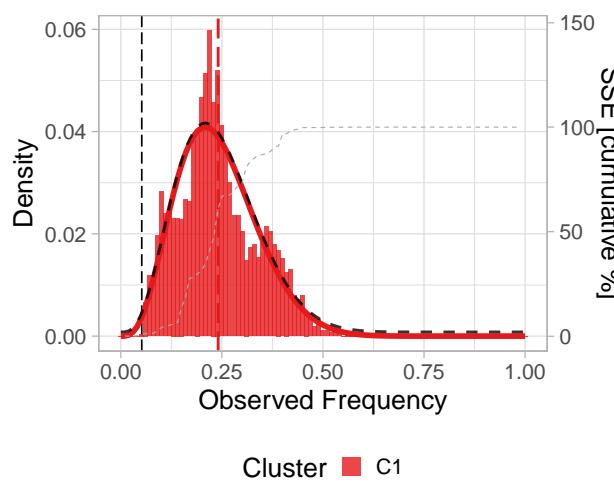
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



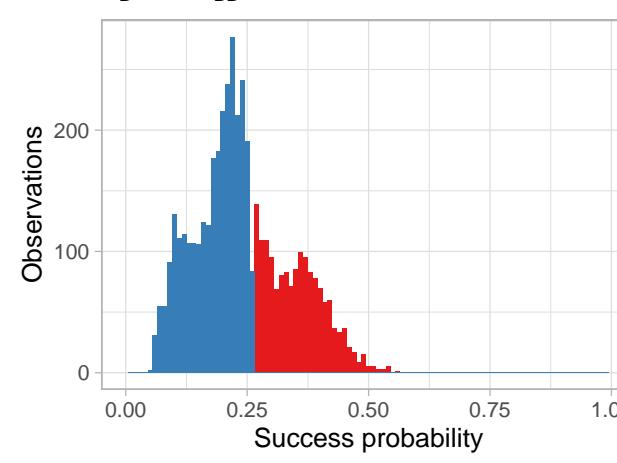
Karyotype: 2:0

N = 4632; Tail 0%, C1 100%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

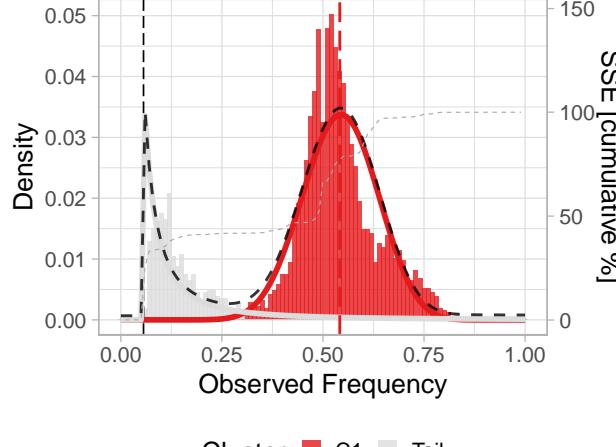
2:2

170121_HMFregCPCT_FR13981226_FR13980137_CPCT02010451

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

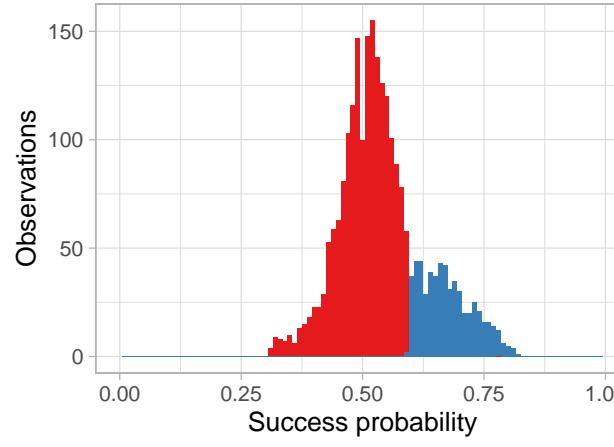
N = 3084; Tail 21.43%, C1 78.57%



MM ($\omega = 19$; $\epsilon = 3e-05$; SSE 4.111e-03) LV > 0

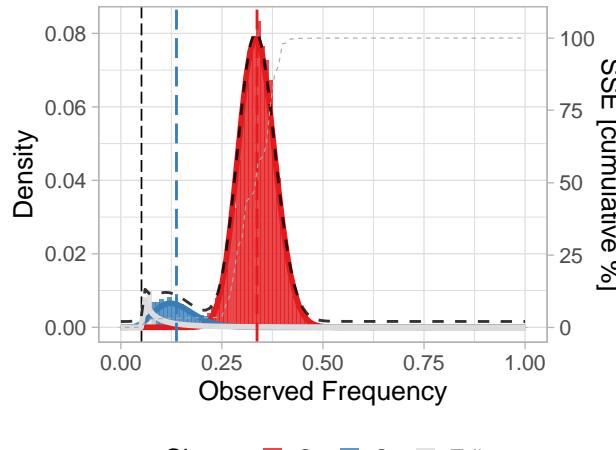
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

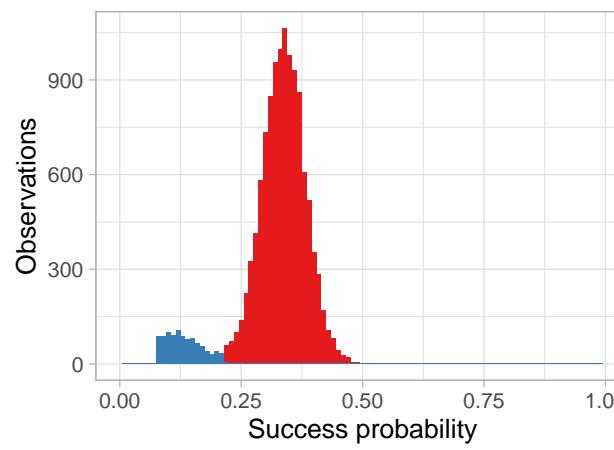
N = 12796; Tail 3.71%, C2 7.72%, C1 88.57%



MM ($\omega = 180$; $\epsilon = 1e-02$; SSE 9.609e-04) LV > 0

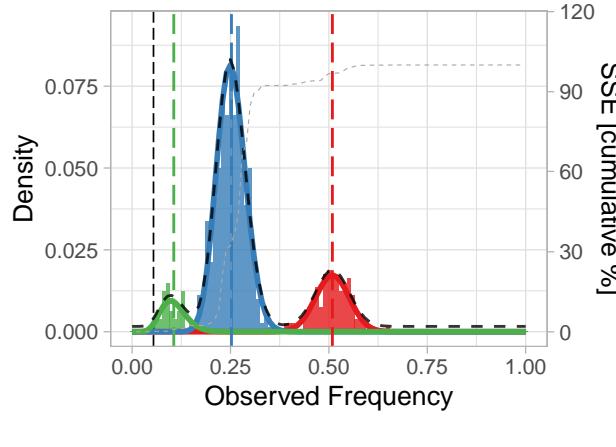
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

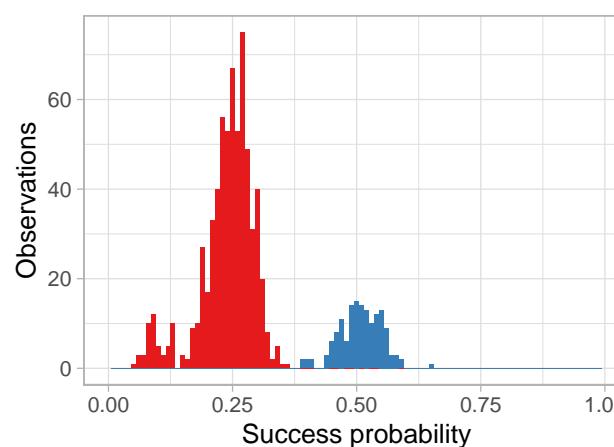
N = 803; Tail 0%, C3 7.34%, C1 18.44%, C2



MM ($\omega = 180$; $\epsilon = 3e-02$; SSE 3.153e-03) LV > 0

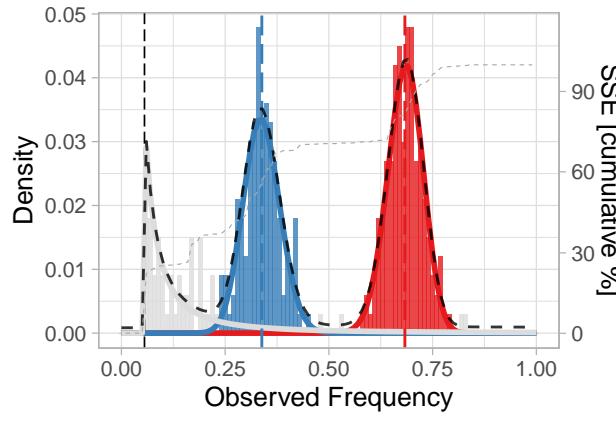
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

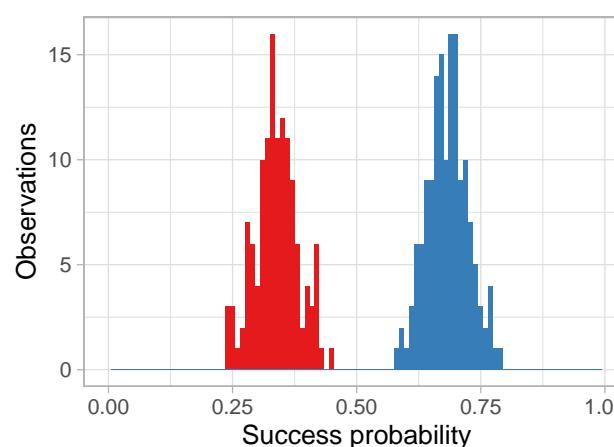
N = 334; Tail 18.35%, C2 37.01%, C1 44.64%



MM ($\omega = 38$; $\epsilon = 8e-07$; SSE 3.096e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$

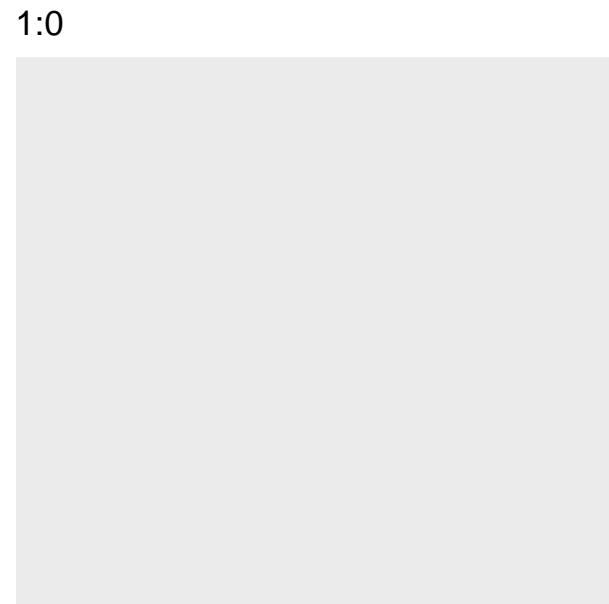
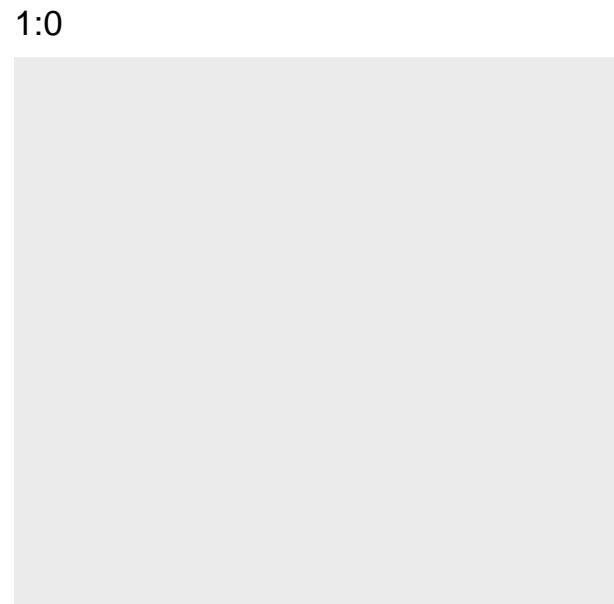


2:2

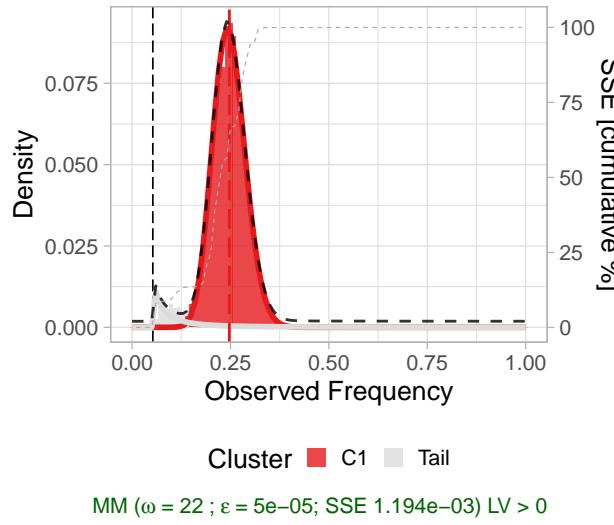


170217_HMFregCPCT_FR10246709_FR13979990_CPCT02020445

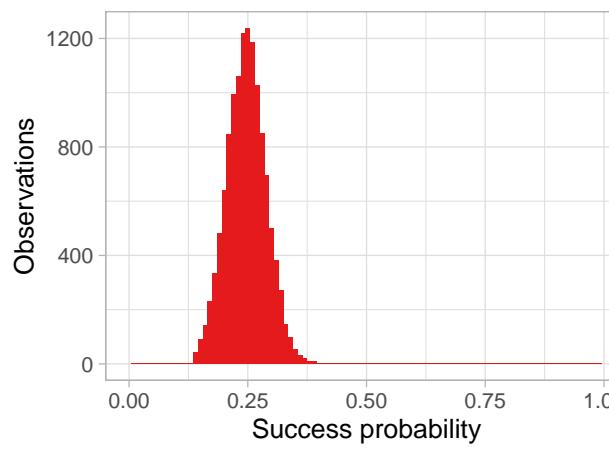
ONLY SNVs (min 150 – max 50000)



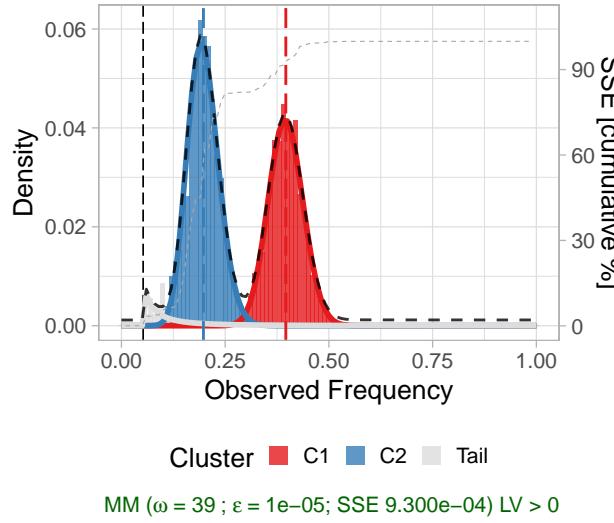
Karyotype: 1:1
N = 13239; Tail 5.92%, C1 94.08%



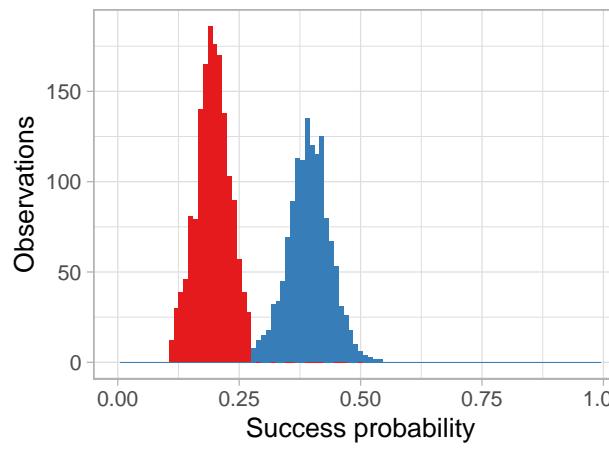
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



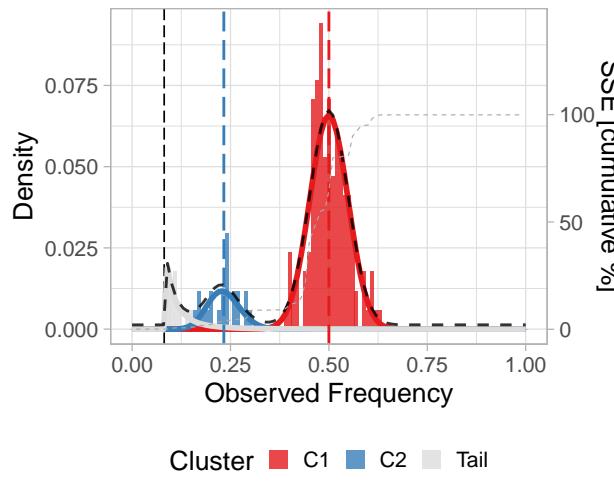
Karyotype: 2:1
N = 3008; Tail 3.53%, C1 43.55%, C2 52.92%



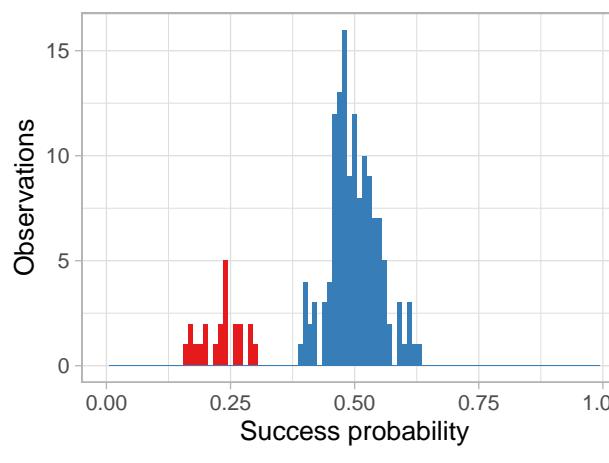
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



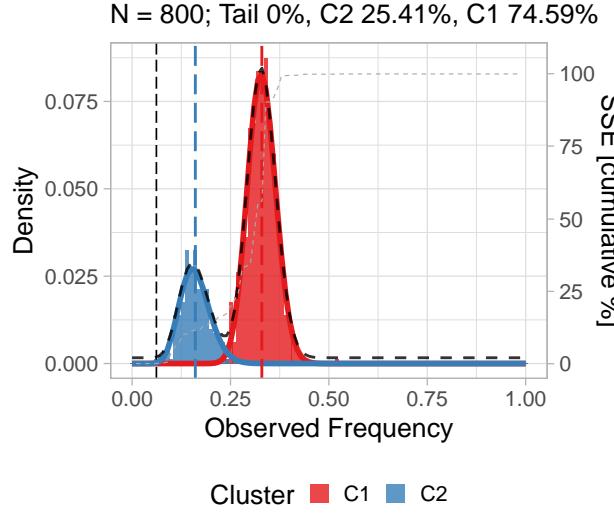
Karyotype: 2:0
N = 170; Tail 8.3%, C2 11.81%, C1 79.88%



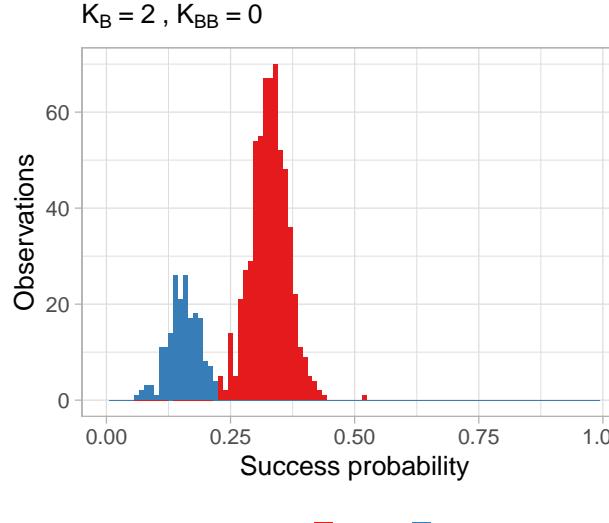
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 800; Tail 0%, C2 25.41%, C1 74.59%



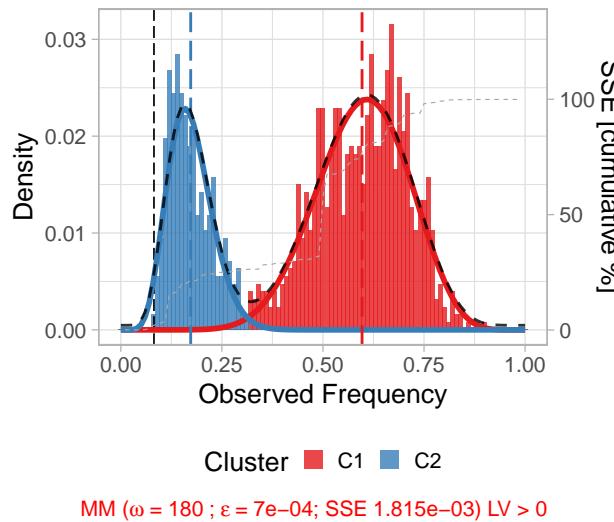
Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



170224_HMFregCPCT_FR13274329_FR13274464_CPCT02070070

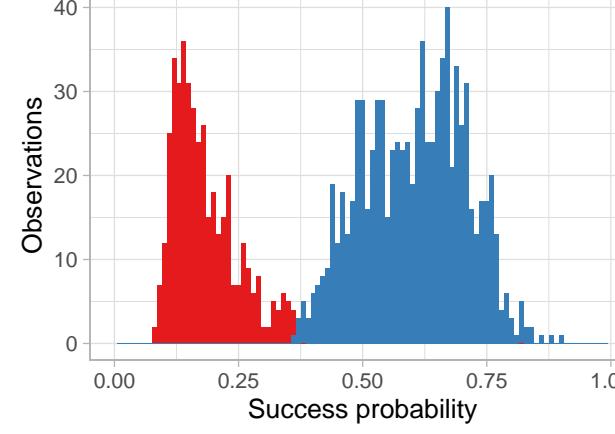
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 1267; Tail 0%, C2 30.48%, C1 69.52%

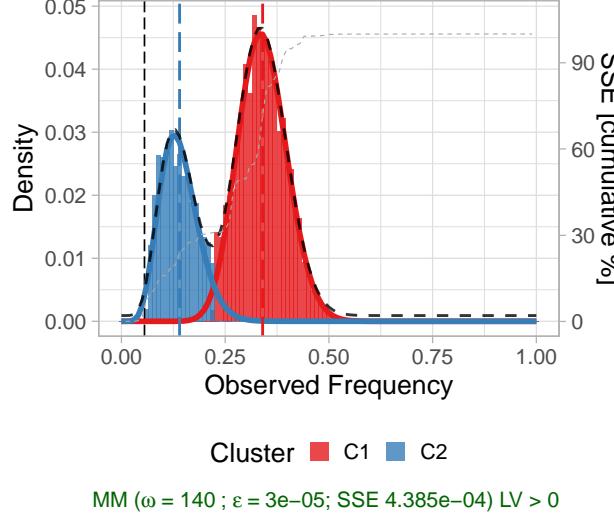


Karyotype: 1:0

$K_B = 2, K_{BB} = 0$

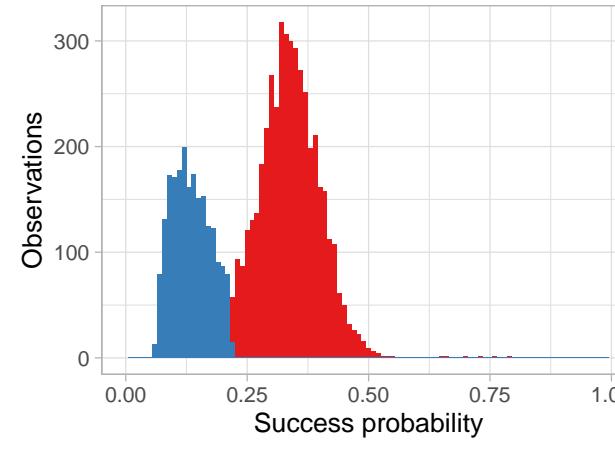


Karyotype: 1:1
N = 6554; Tail 0%, C2 33.01%, C1 66.99%

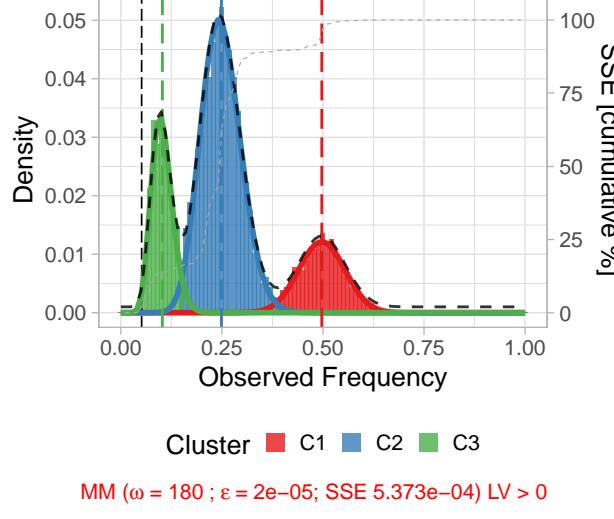


Karyotype: 1:1

$K_B = 2, K_{BB} = 0$

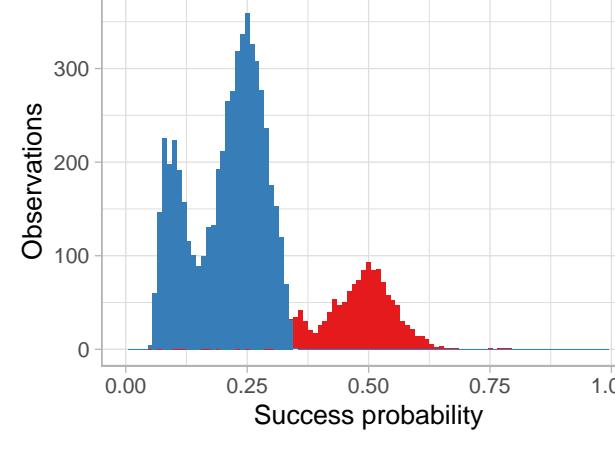


Karyotype: 2:1
N = 6866; Tail 0%, C1 17.27%, C3 21.3%, C2

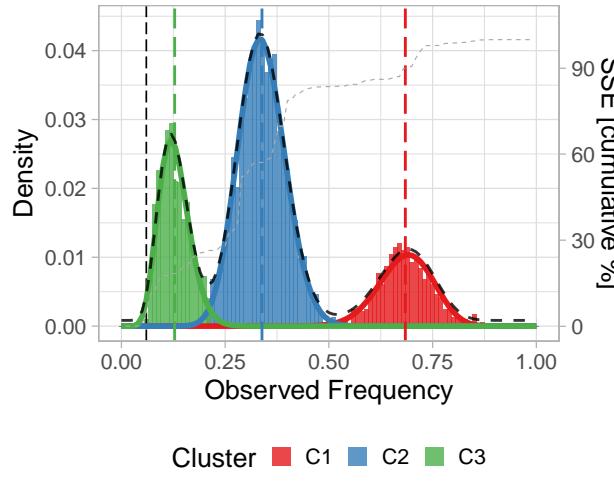


Karyotype: 2:1

$K_B = 2, K_{BB} = 0$

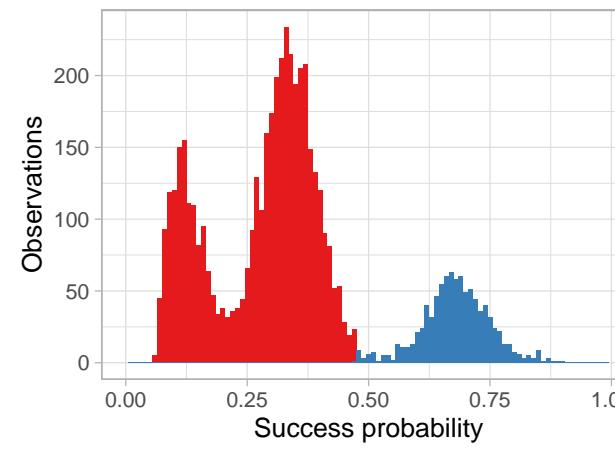


Karyotype: 2:0
N = 5270; Tail 0%, C1 16.86%, C3 24.38%, C2

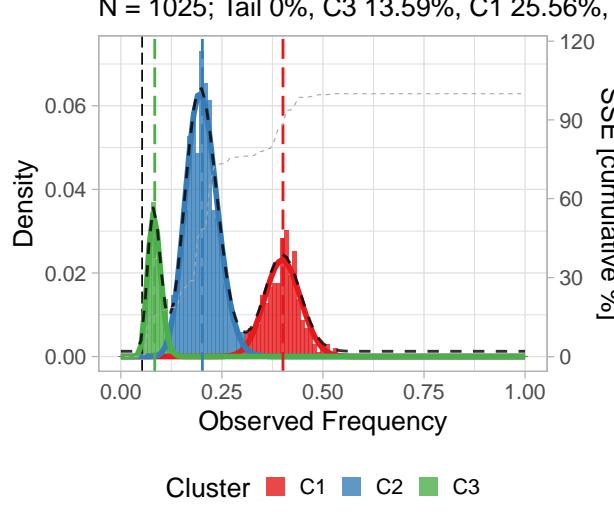


Karyotype: 2:0

$K_B = 2, K_{BB} = 0$

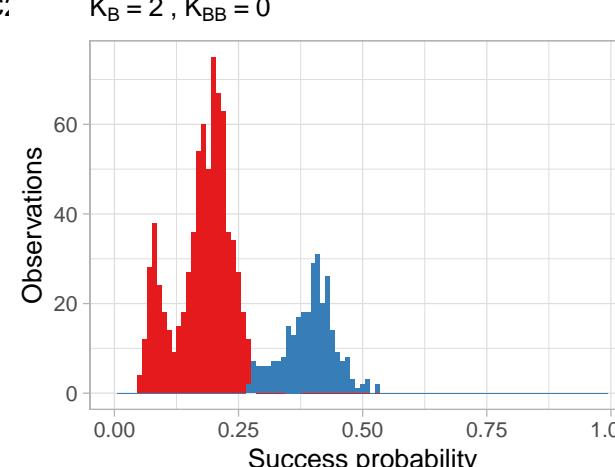


Karyotype: 2:2
N = 1025; Tail 0%, C3 13.59%, C1 25.56%, C2



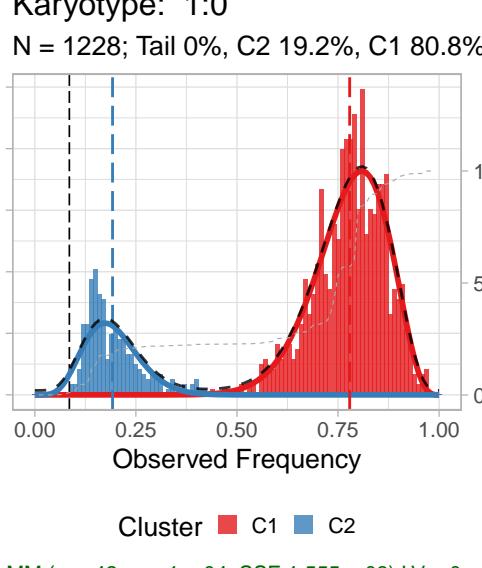
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

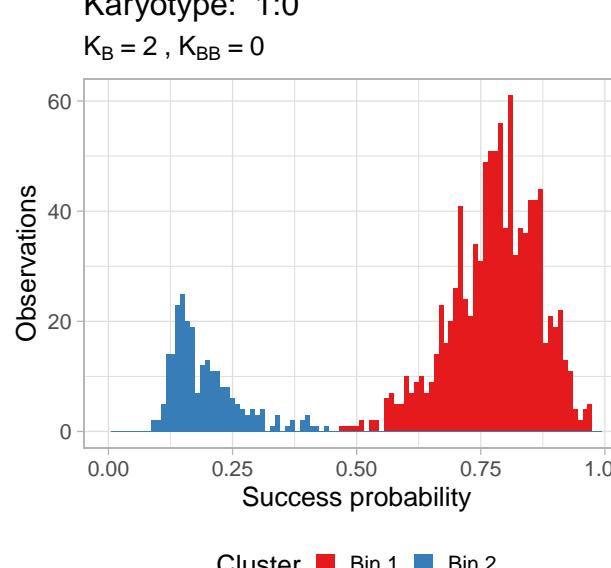


170225_HMFregCPCT_FR12251595_FR13274439_CPCT02050055

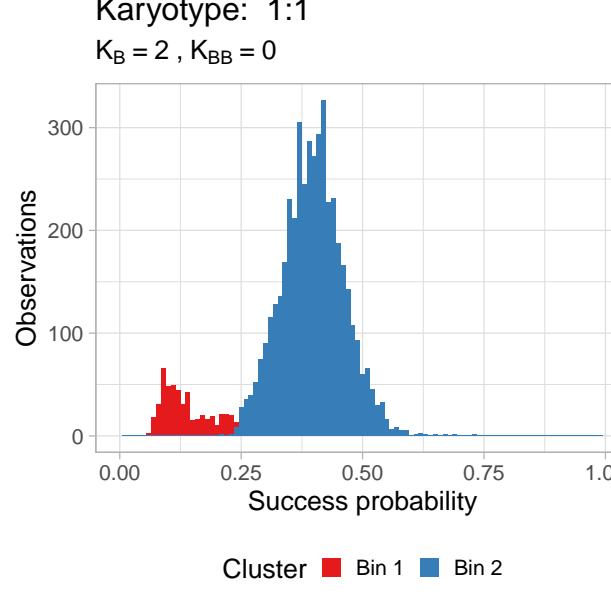
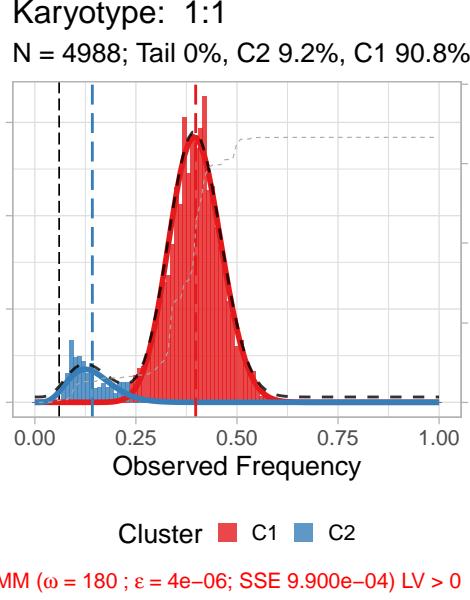
ONLY SNVs (min 150 – max 50000)



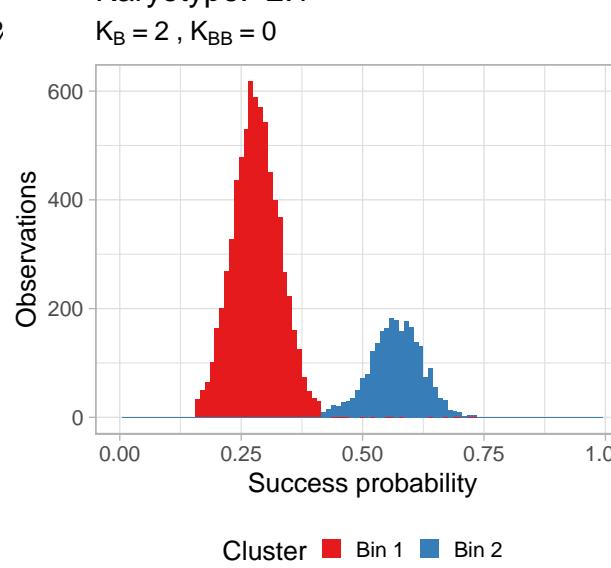
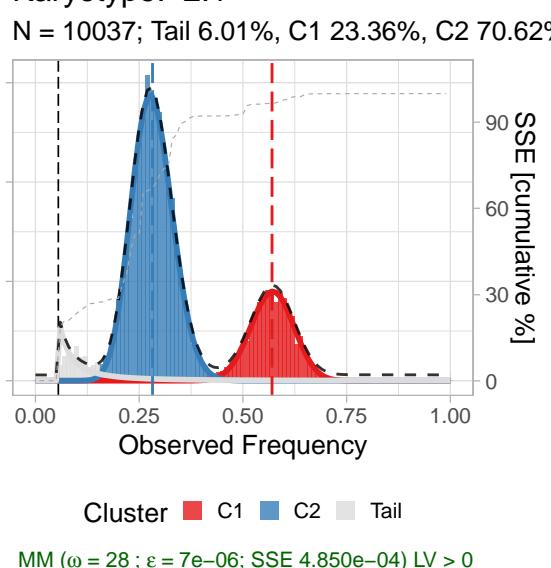
MM ($\omega = 42$; $\epsilon = 1e-04$; SSE 1.555e-03) LV > 0



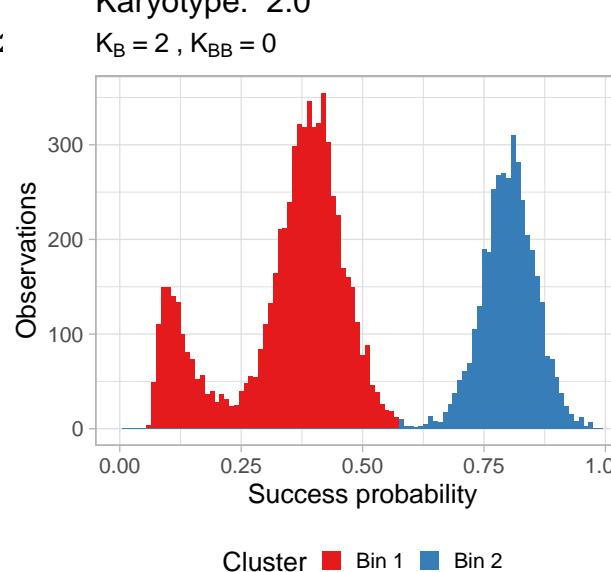
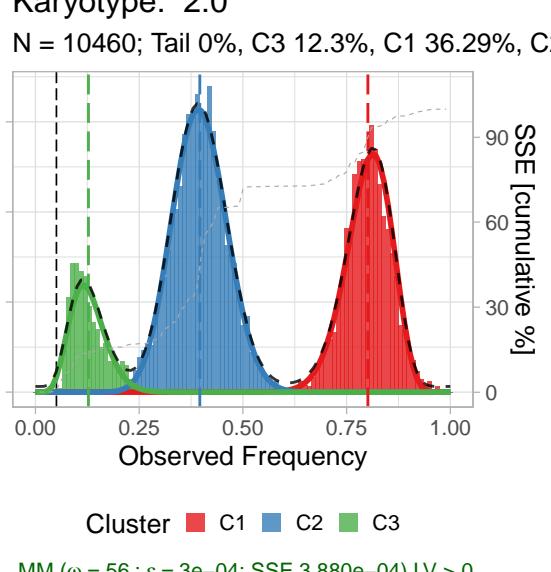
MM ($\omega = 180$; $\epsilon = 4e-06$; SSE 9.900e-04) LV > 0



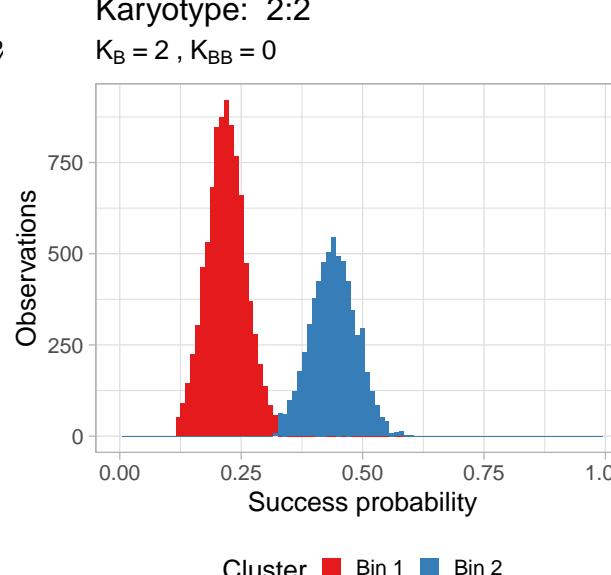
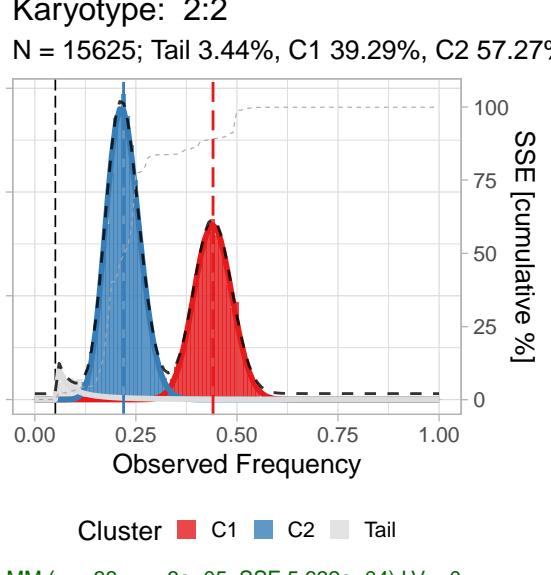
MM ($\omega = 28$; $\epsilon = 7e-06$; SSE 4.850e-04) LV > 0



MM ($\omega = 56$; $\epsilon = 3e-04$; SSE 3.880e-04) LV > 0



MM ($\omega = 33$; $\epsilon = 3e-05$; SSE 5.632e-04) LV > 0

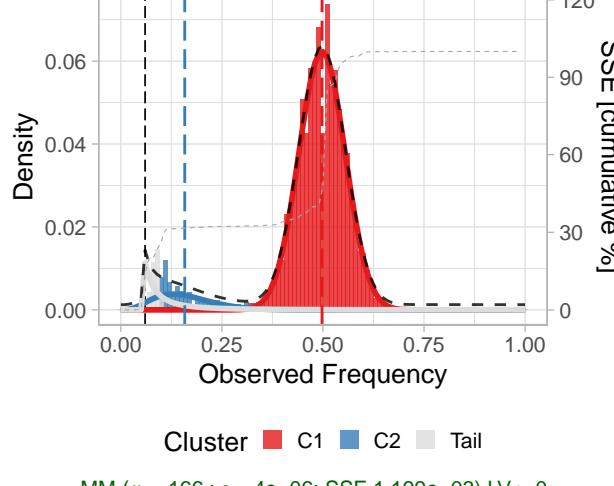


170301_HMFregCPCT_FR13980005_FR10248416_CPCT02010493

ONLY SNVs (min 150 – max 50000)

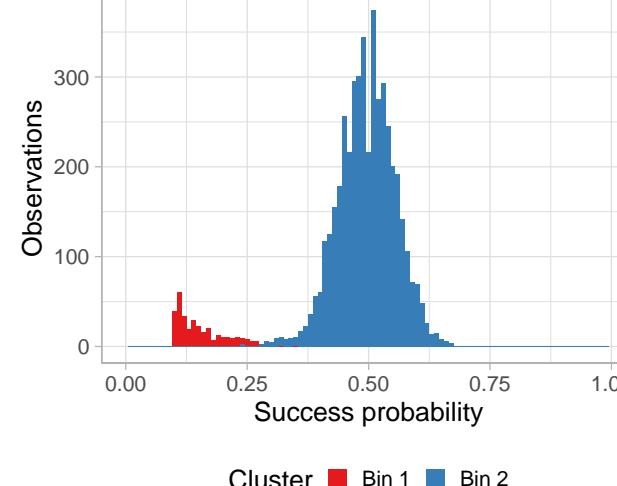
Karyotype: 1:0

N = 5071; Tail 4.67%, C2 6.46%, C1 88.87%



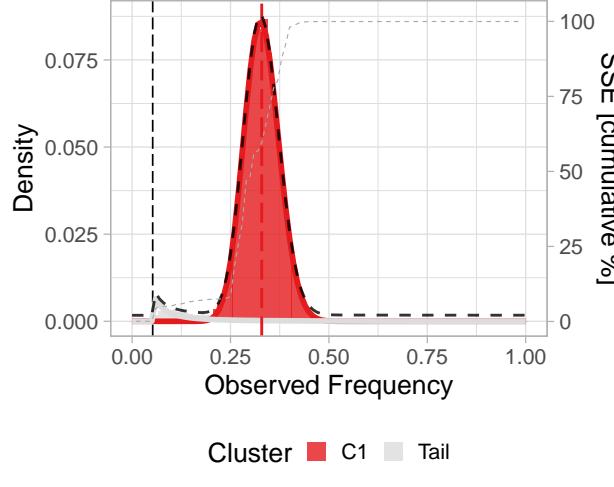
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



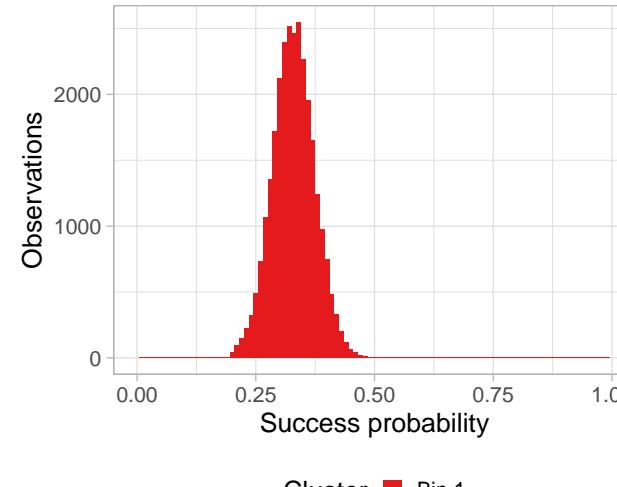
Karyotype: 1:1

N = 29421; Tail 4.27%, C1 95.73%



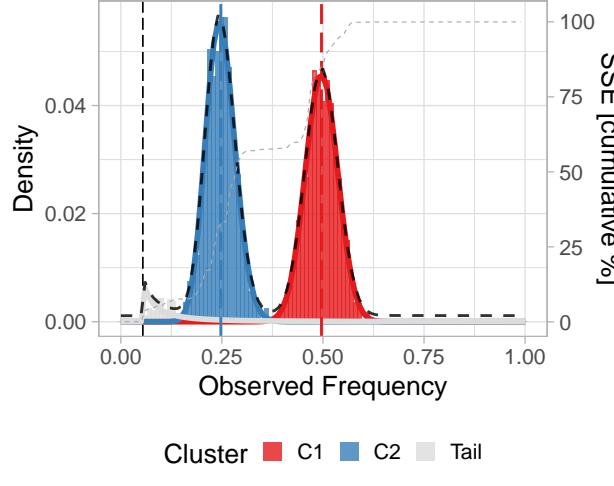
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



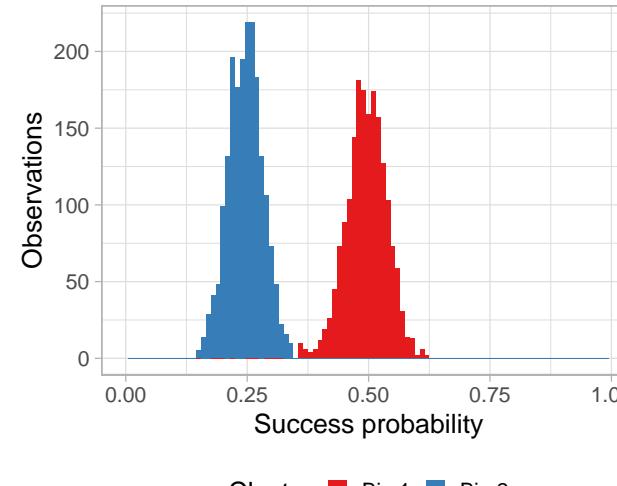
Karyotype: 2:1

N = 3889; Tail 3.8%, C1 46.09%, C2 50.11%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

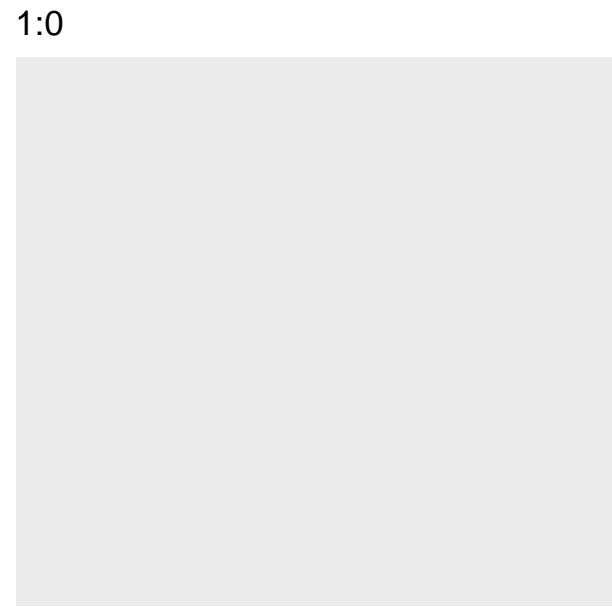
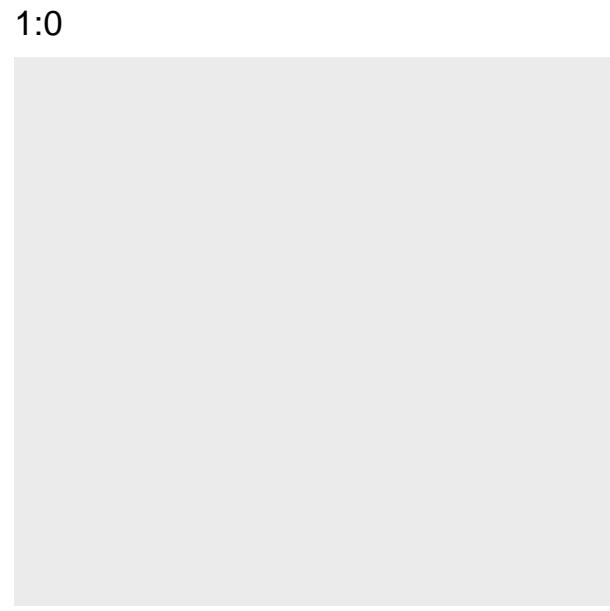
2:0

2:2

2:2

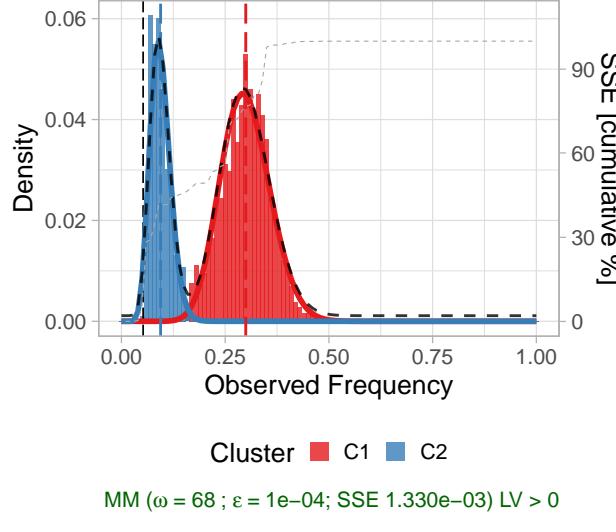
170308_HMFregCPCT_FR13274573_FR10244742_CPCT02070096

ONLY SNVs (min 150 – max 50000)



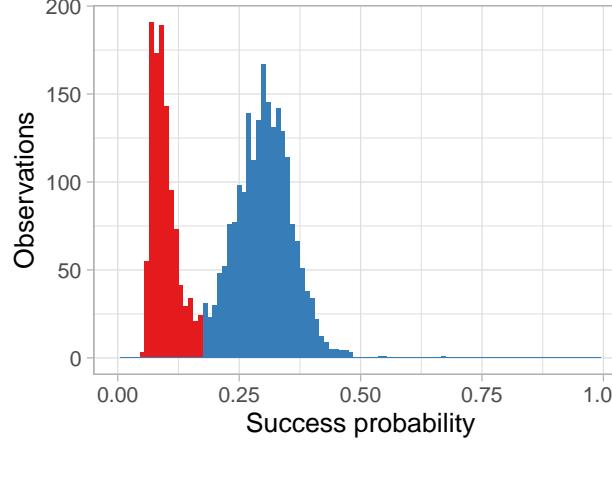
Karyotype: 1:1

N = 3150; Tail 0%, C2 32.95%, C1 67.05%



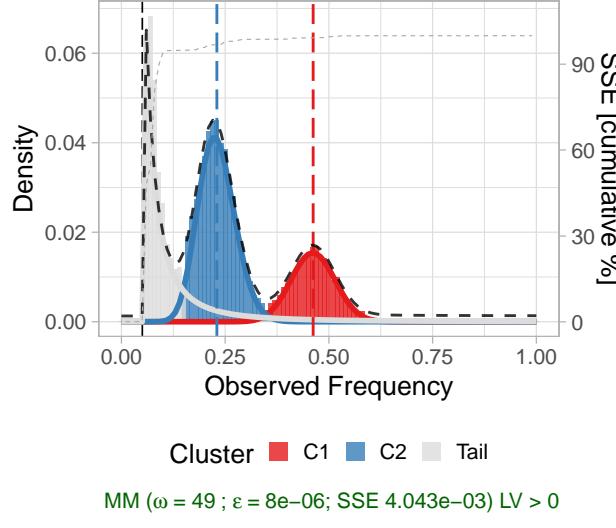
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



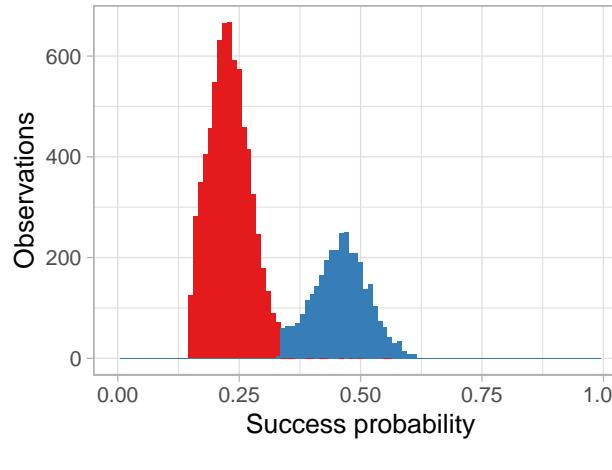
Karyotype: 2:1

N = 14837; C1 20.36%, Tail 34.37%, C2 45.27%



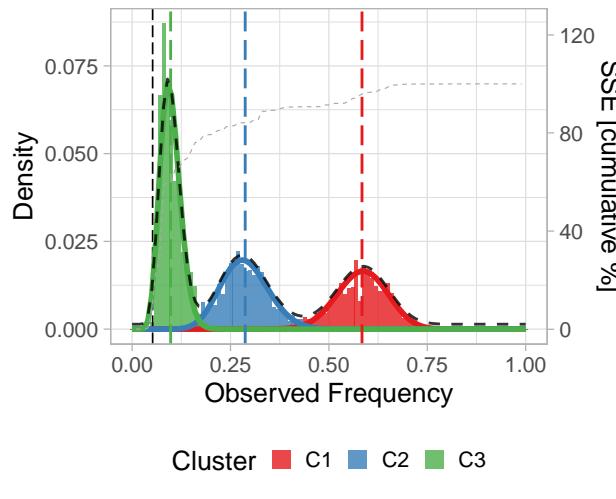
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



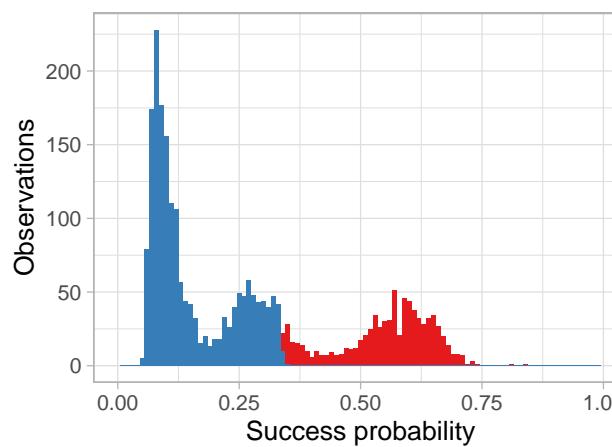
Karyotype: 2:0

N = 2617; Tail 0%, C1 26.6%, C2 29.46%, C3 43.94%



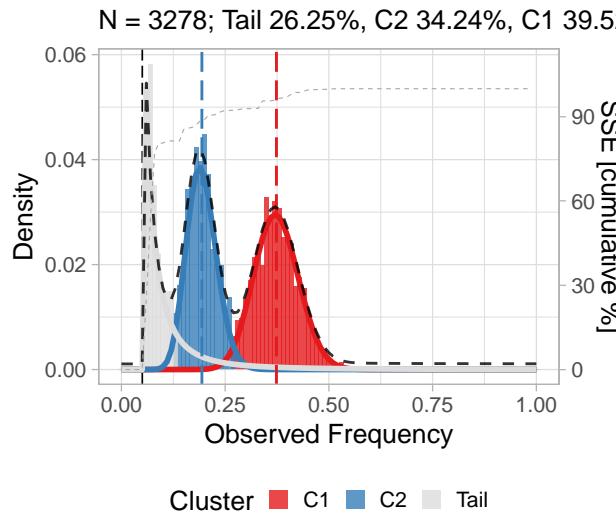
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



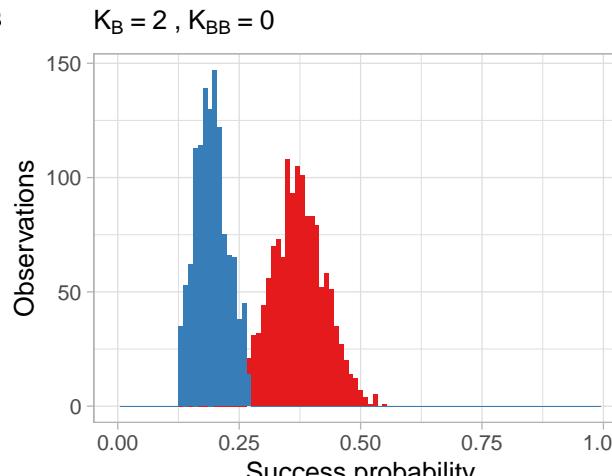
Karyotype: 2:2

N = 3278; Tail 26.25%, C2 34.24%, C1 39.52%



Karyotype: 2:2

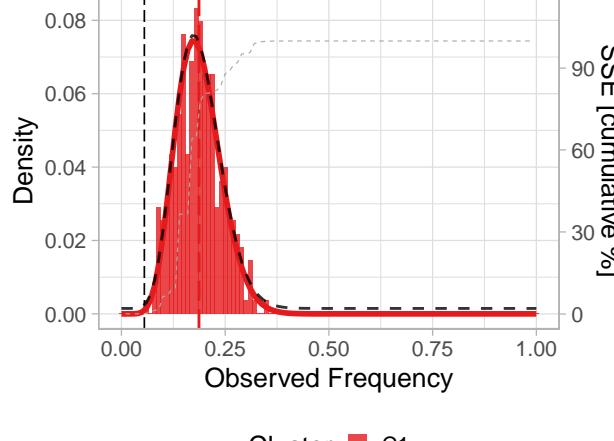
$K_B = 2$, $K_{BB} = 0$



170311_HMFregCPCT_FR10248404_FR10244744_CPCT02070094

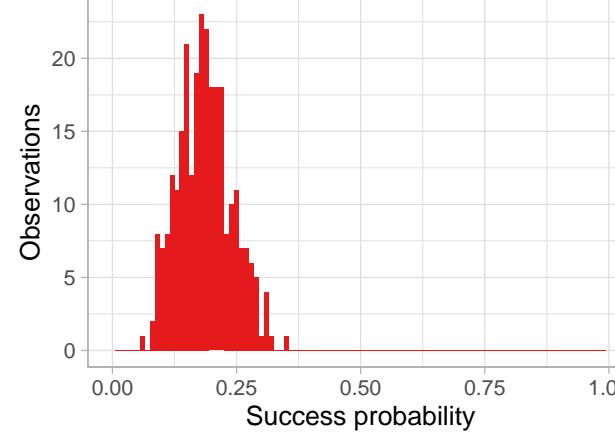
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 276; Tail 0%, C1 100%

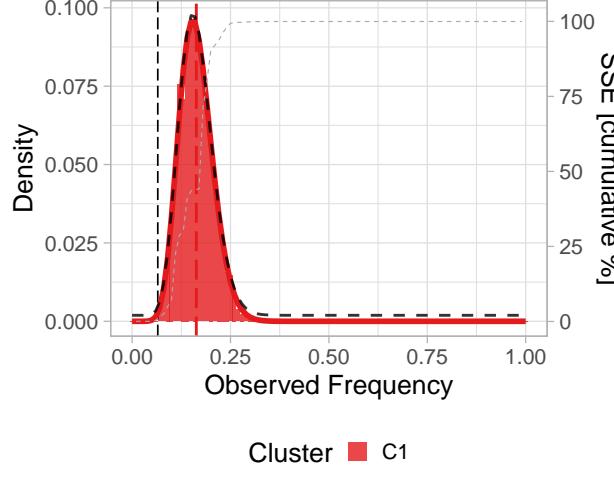


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $2.689e-03$) LV > 0

Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$

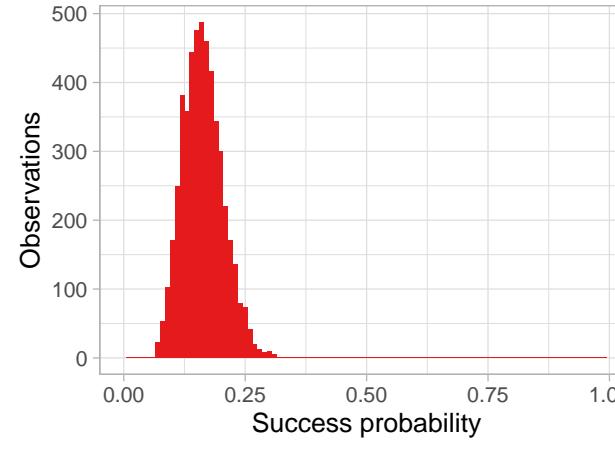


Karyotype: 1:1
N = 5043; Tail 0%, C1 100%

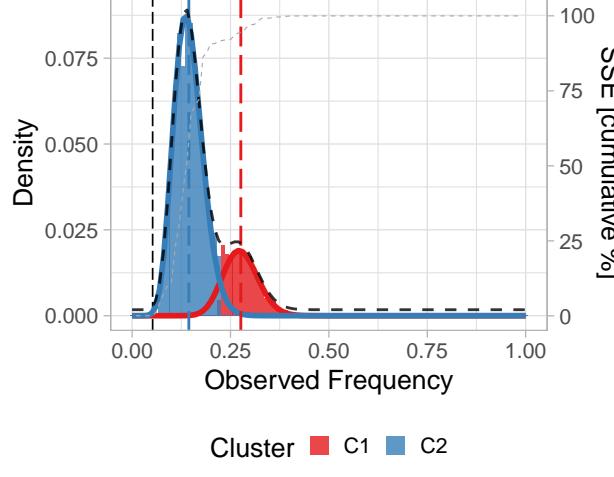


MM ($\omega = 2$; $\epsilon = 2e+04$; SSE $7.485e-04$) LV > 0

Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$

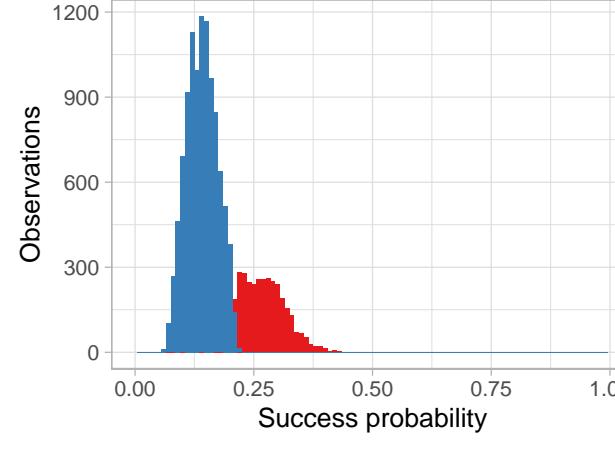


Karyotype: 2:1
N = 13721; Tail 0%, C1 20.81%, C2 79.19%

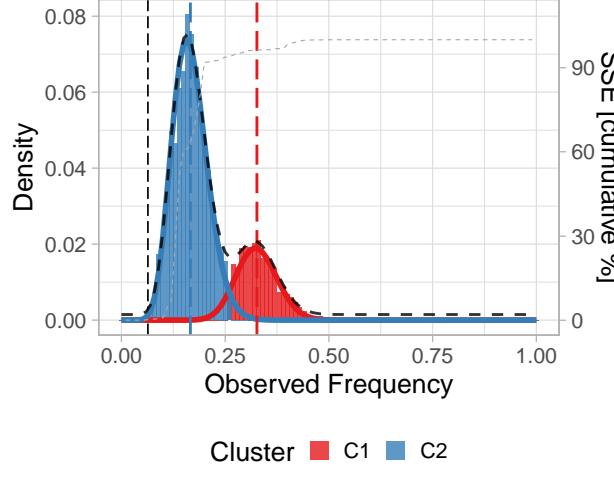


MM ($\omega = 180$; $\epsilon = 1e-03$; SSE $6.195e-04$) LV > 0

Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$

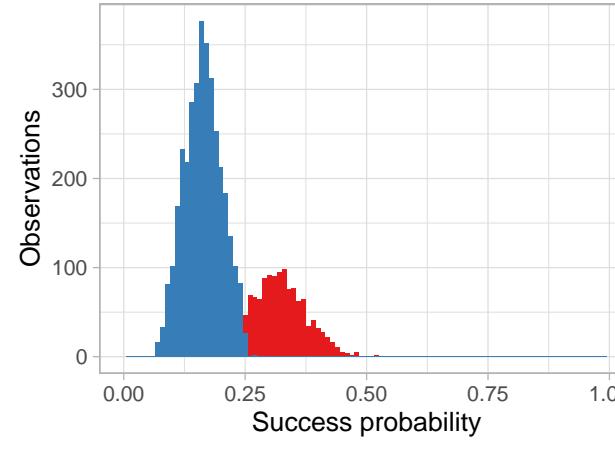


Karyotype: 2:0
N = 4684; Tail 0%, C1 23.13%, C2 76.87%

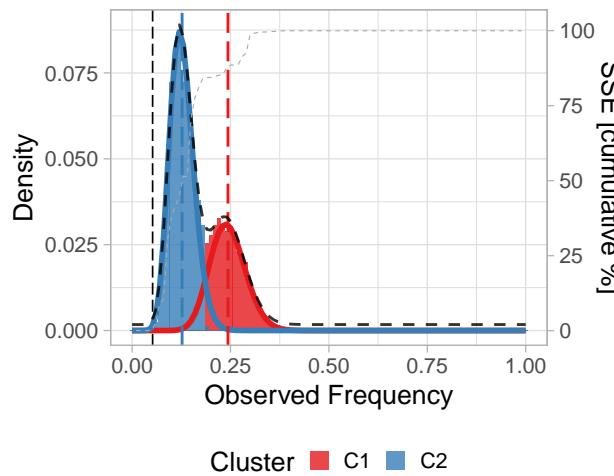


MM ($\omega = 180$; $\epsilon = 3e-04$; SSE $7.577e-04$) LV > 0

Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$

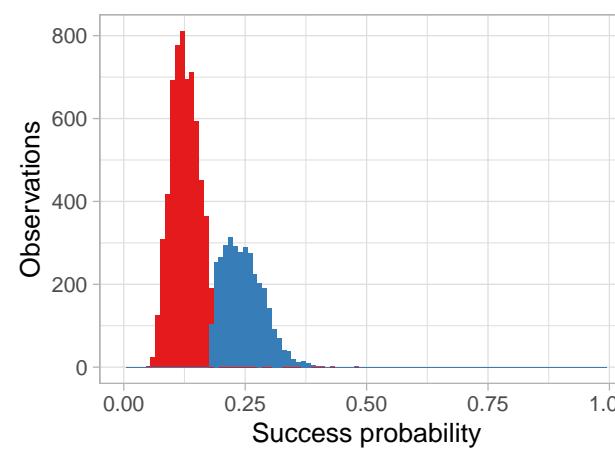


Karyotype: 2:2
N = 9580; Tail 0%, C1 34.58%, C2 65.42%



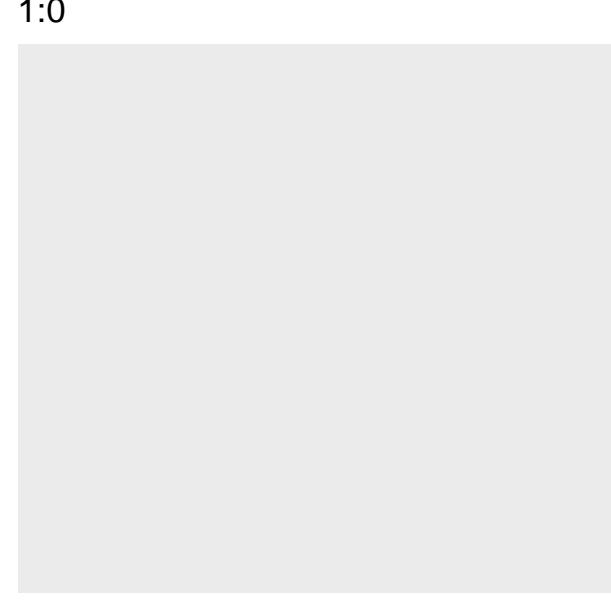
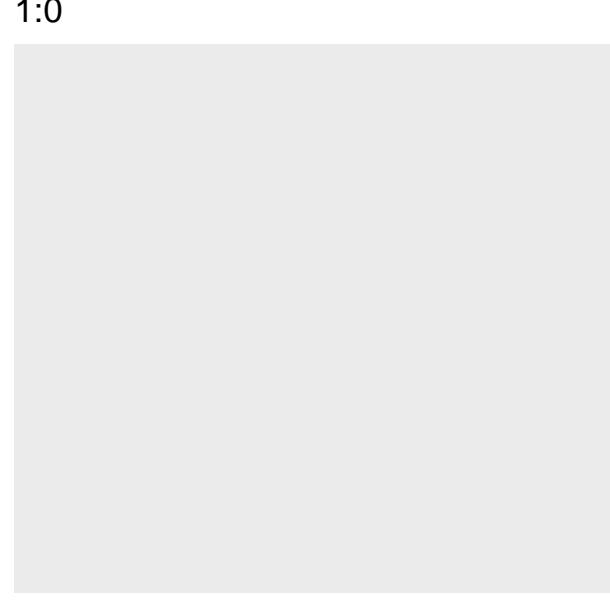
MM ($\omega = 180$; $\epsilon = 7e-03$; SSE $5.771e-04$) LV > 0

Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$

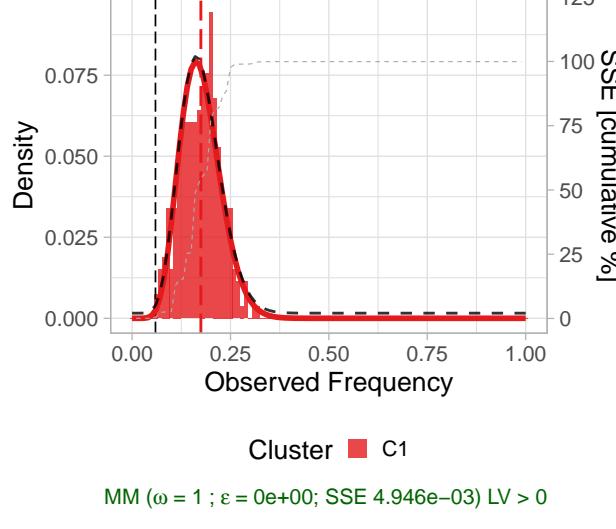


170402_HMFregCPCT_FR12245098_FR11441986_CPCT02070102

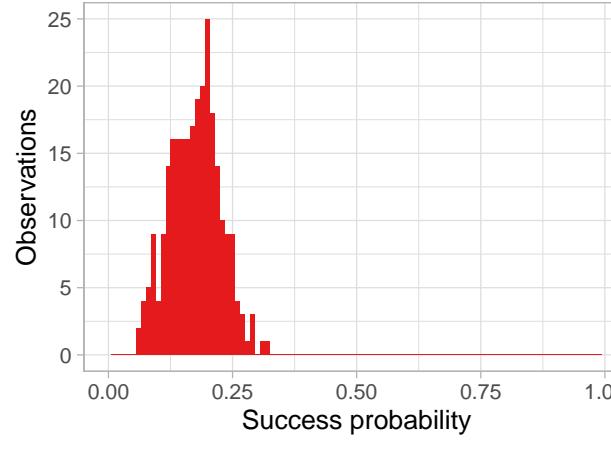
ONLY SNVs (min 150 – max 50000)



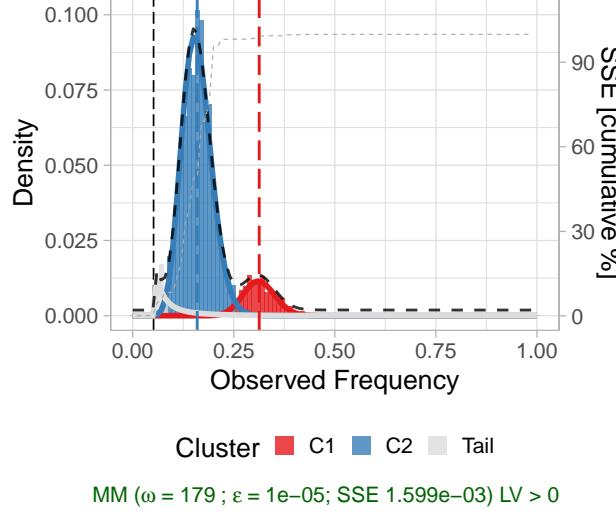
Karyotype: 1:1
N = 265; Tail 0%, C1 100%



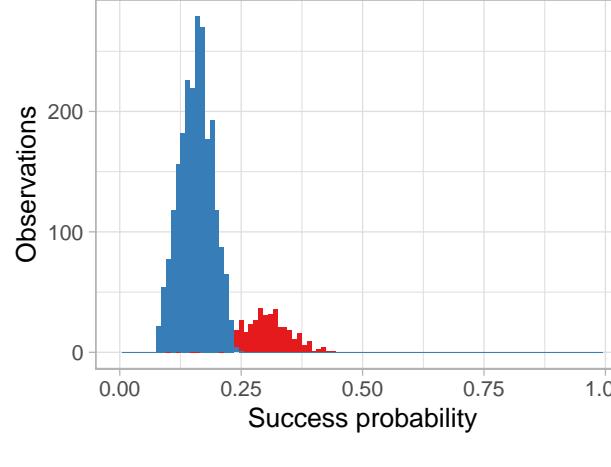
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



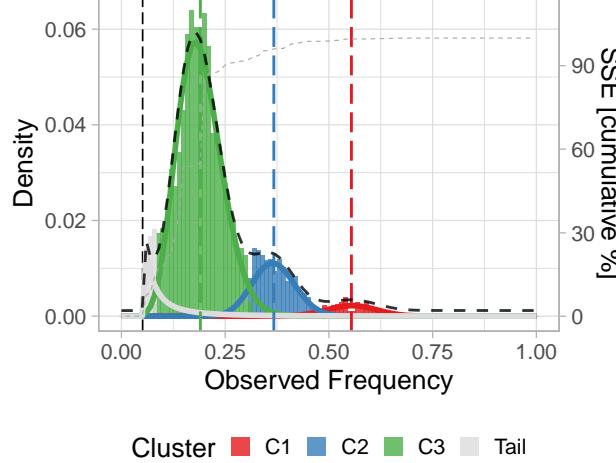
Karyotype: 2:1
N = 2746; Tail 5.68%, C1 11.2%, C2 83.12%



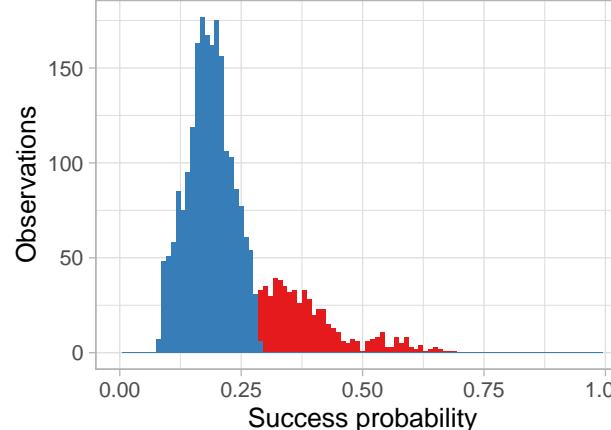
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



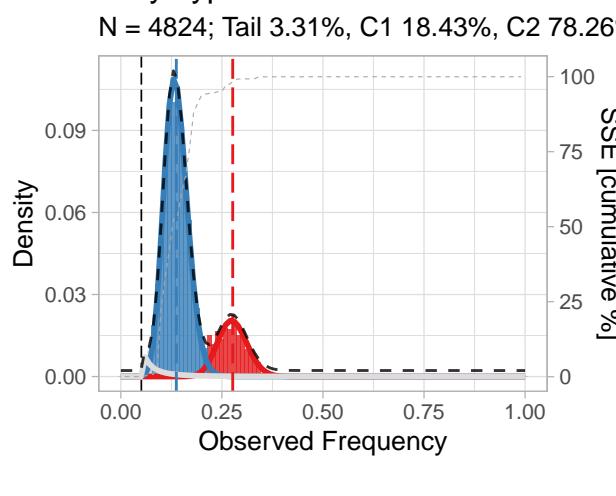
Karyotype: 2:0
N = 2768; C1 3.24%, Tail 6.73%, C2 14.15%, C3 80.08%



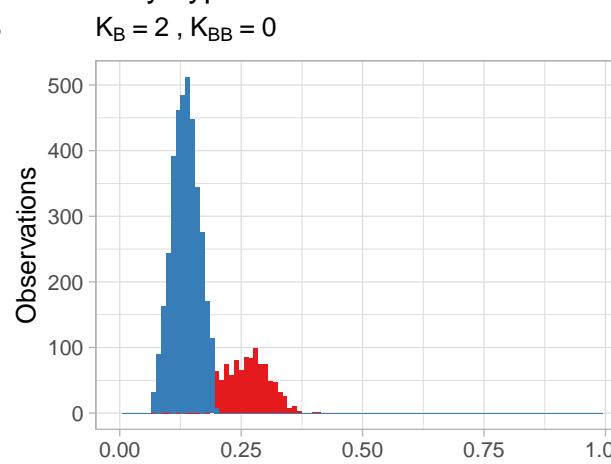
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 4824; Tail 3.31%, C1 18.43%, C2 78.26%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

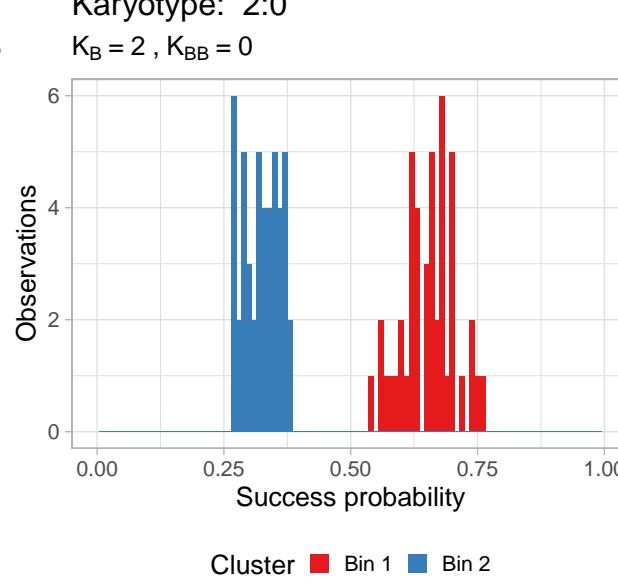
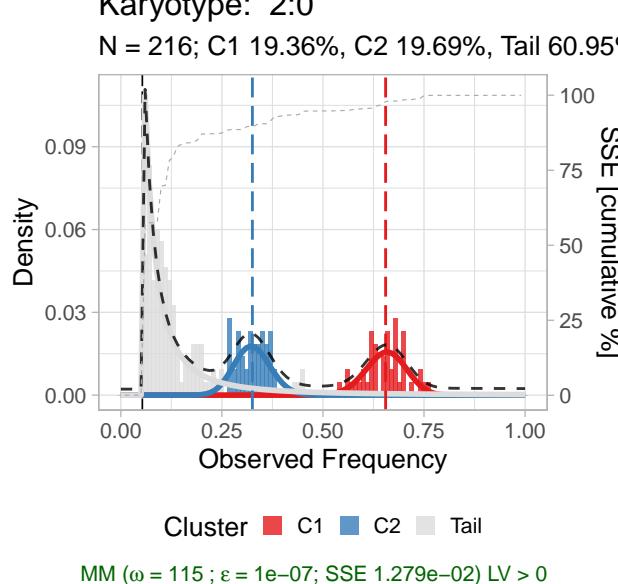
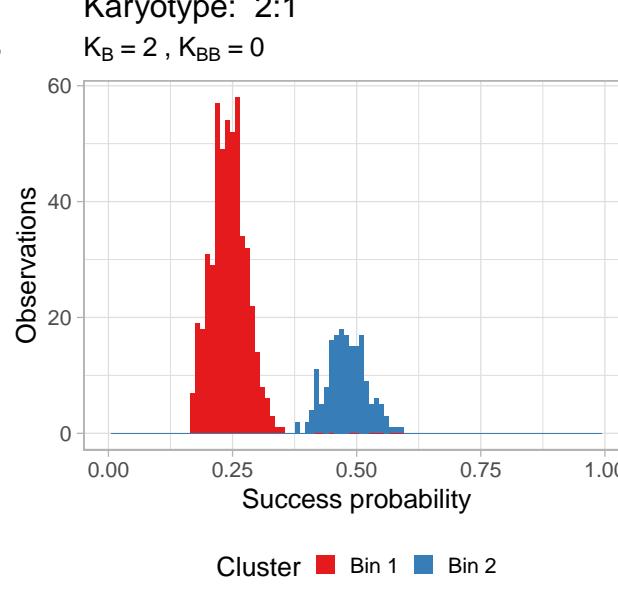
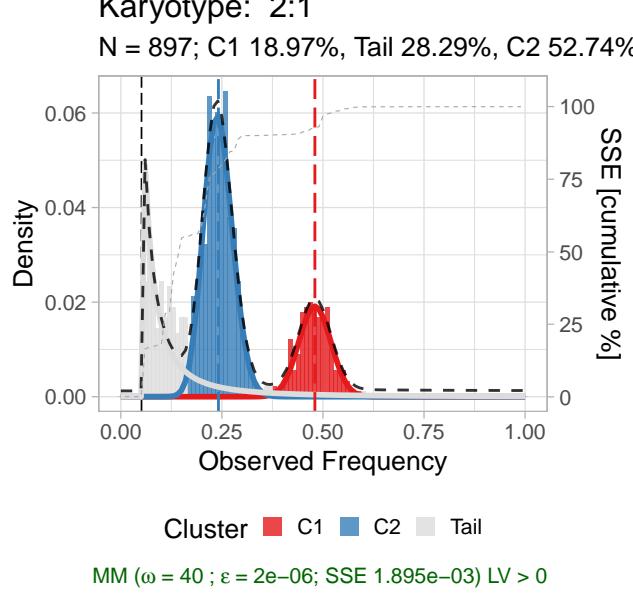
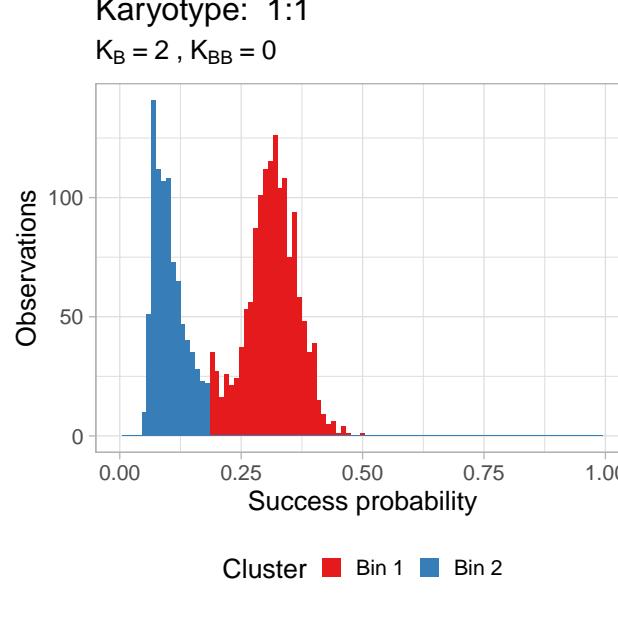
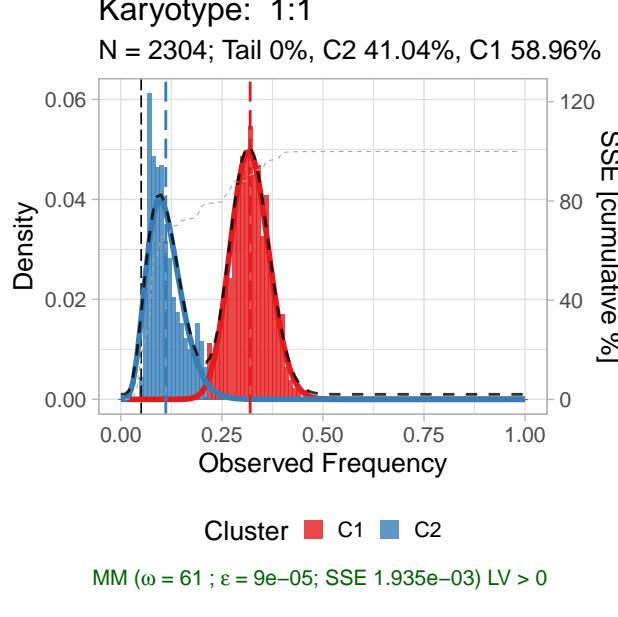


170402_HMFregCPCT_FR12245105_FR11441980_CPCT02080079

ONLY SNVs (min 150 – max 50000)

1:0

1:0



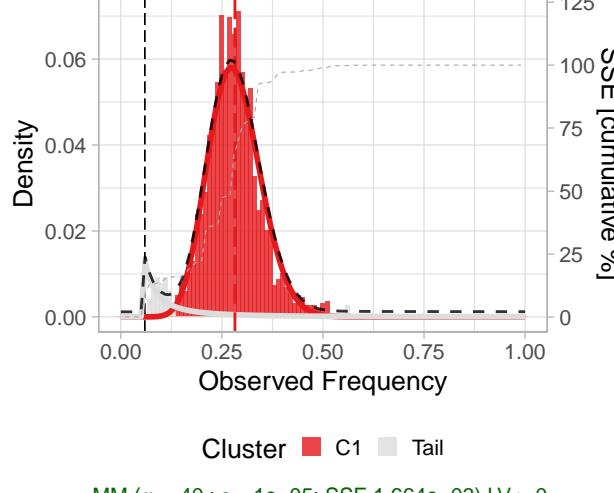
2:2

2:2

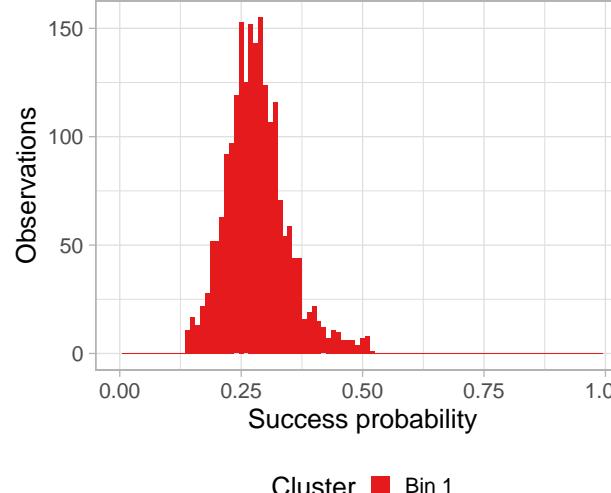
170404_HMFregCPCT_FR12245086_FR12245170_CPCT02010530

ONLY SNVs (min 150 – max 50000)

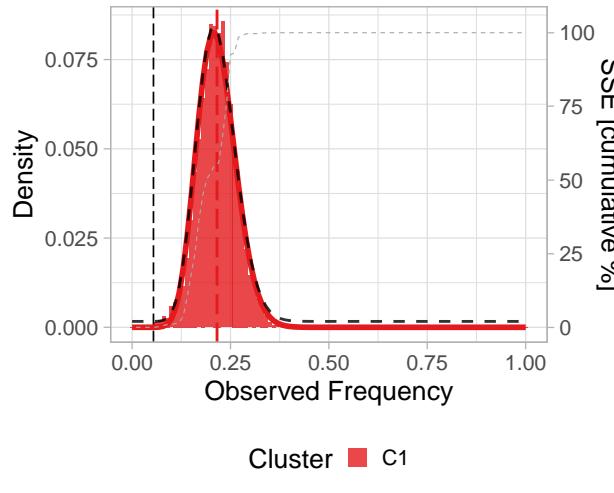
Karyotype: 1:0
N = 2178; Tail 7.07%, C1 92.93%



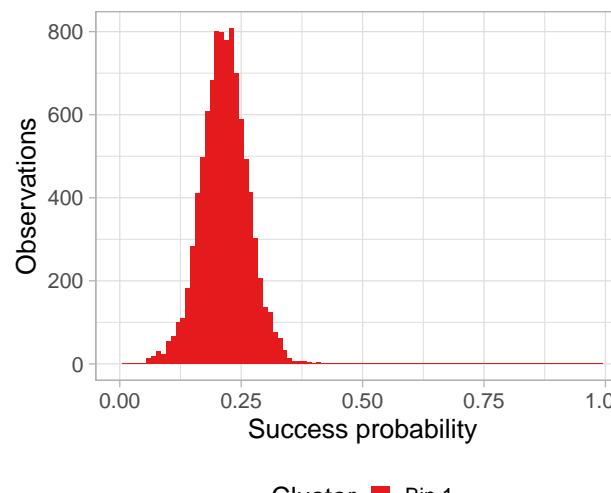
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



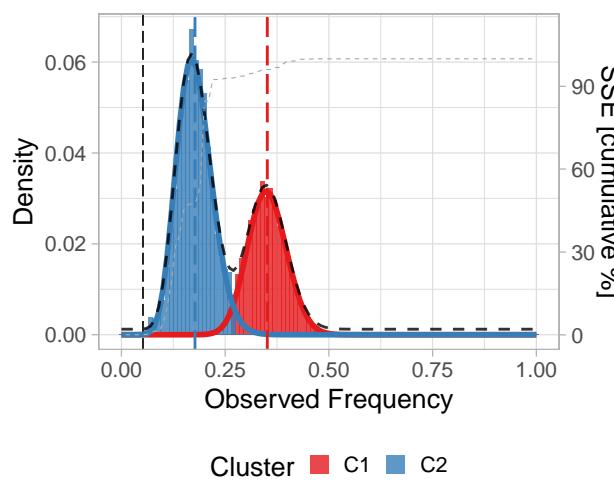
Karyotype: 1:1
N = 9443; Tail 0%, C1 100%



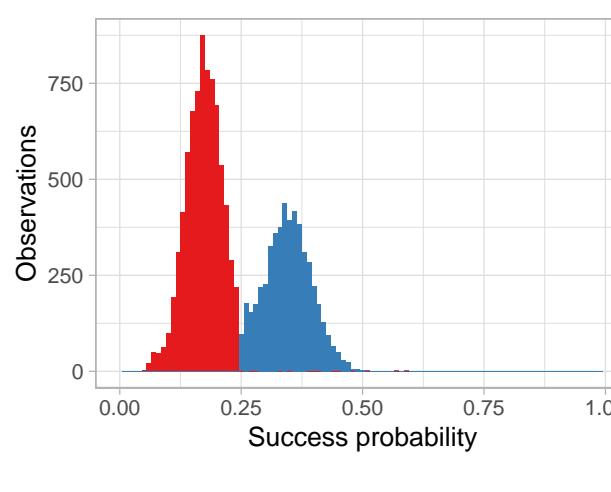
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



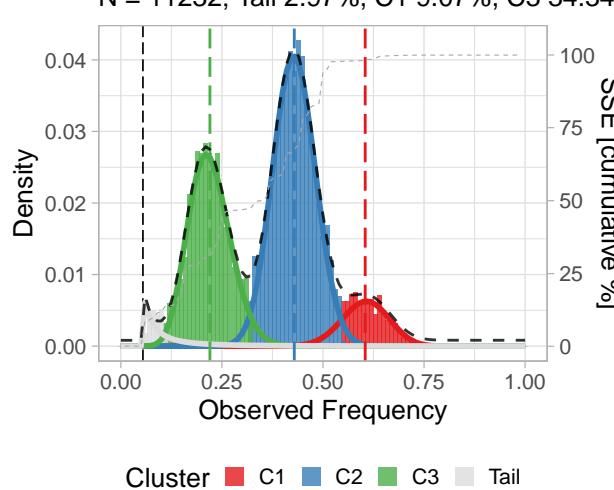
Karyotype: 2:1
N = 13002; Tail 0%, C1 36.81%, C2 63.19%



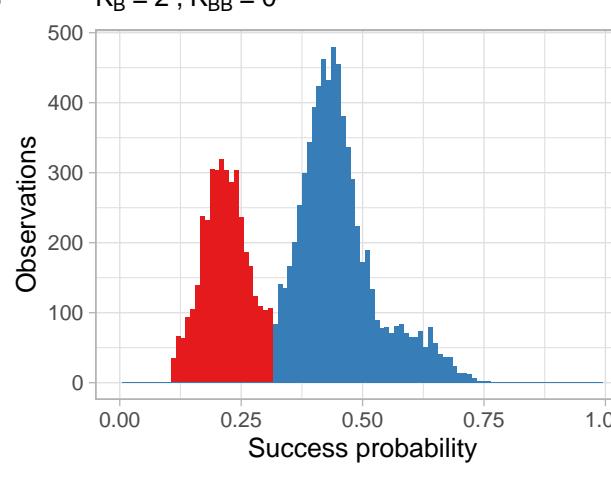
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



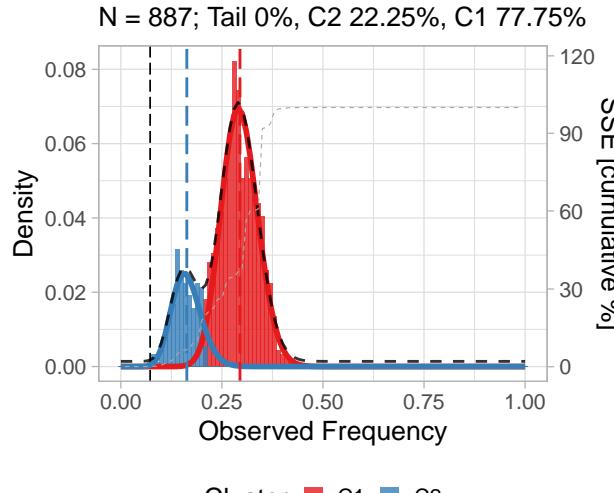
Karyotype: 2:0
N = 11232; Tail 2.97%, C1 9.07%, C3 34.34%



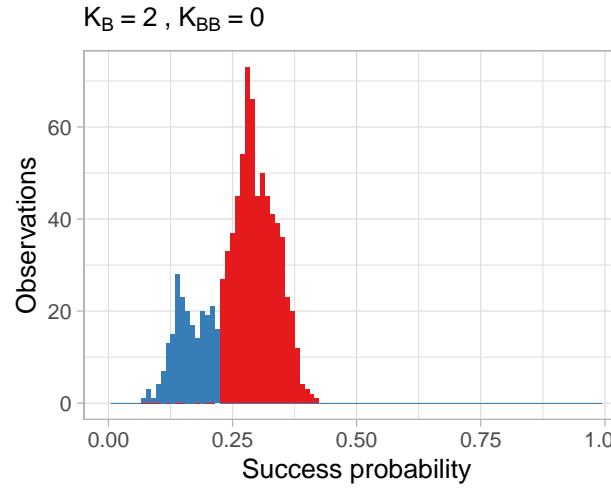
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 887; Tail 0%, C2 22.25%, C1 77.75%

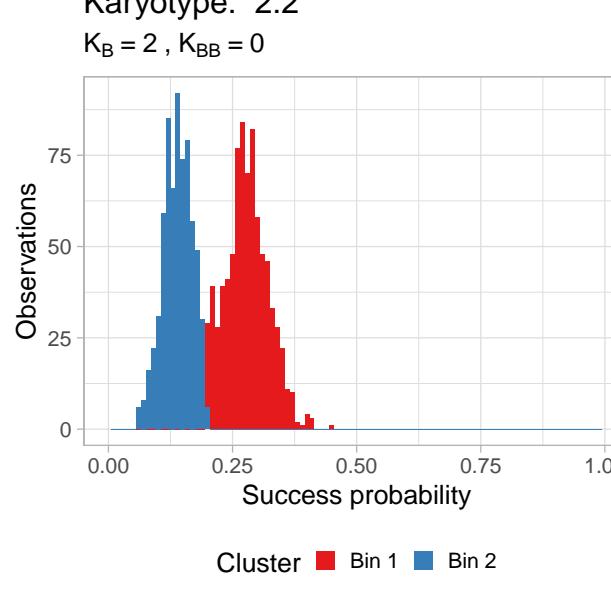
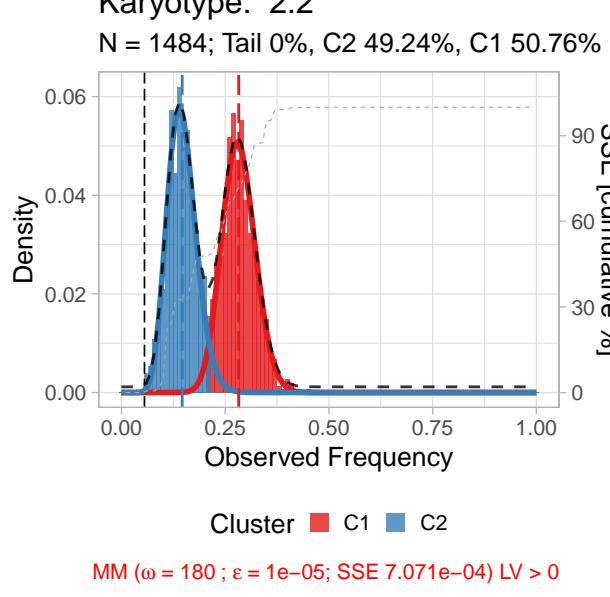
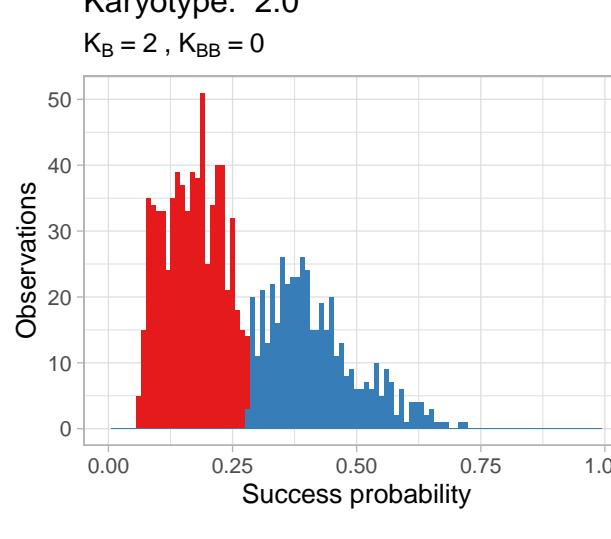
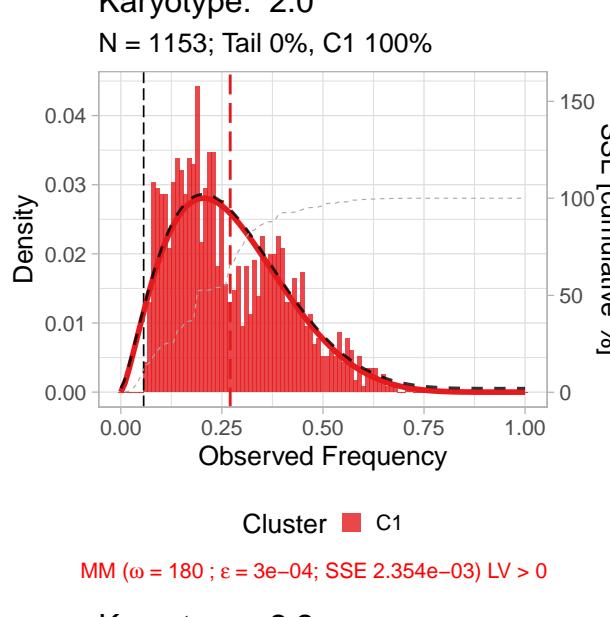
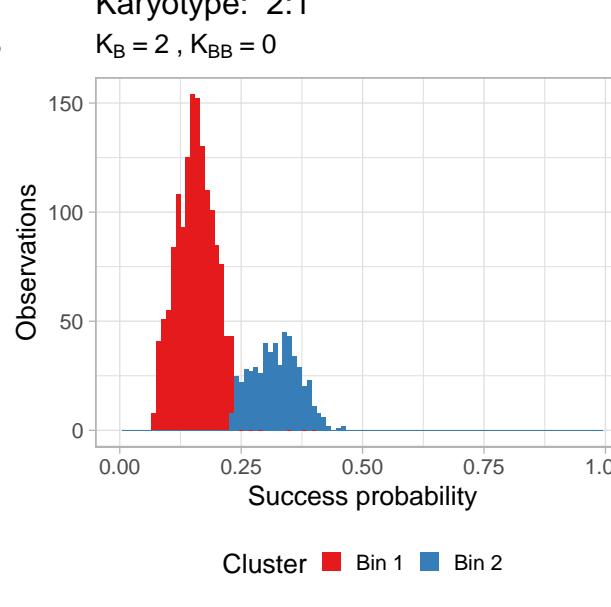
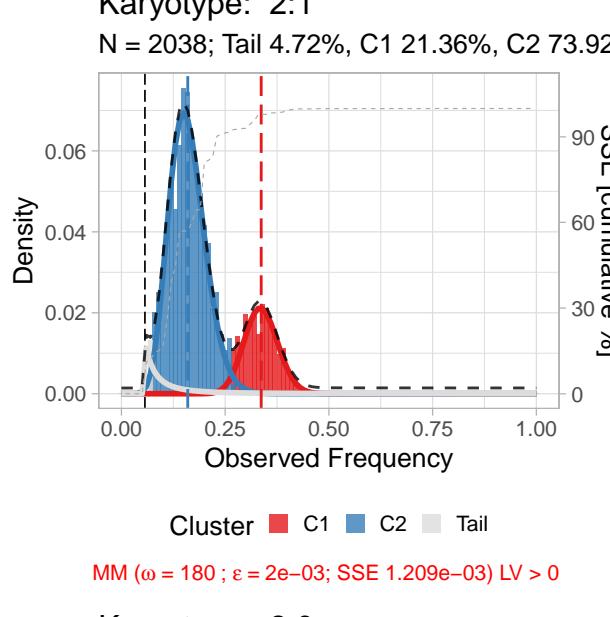
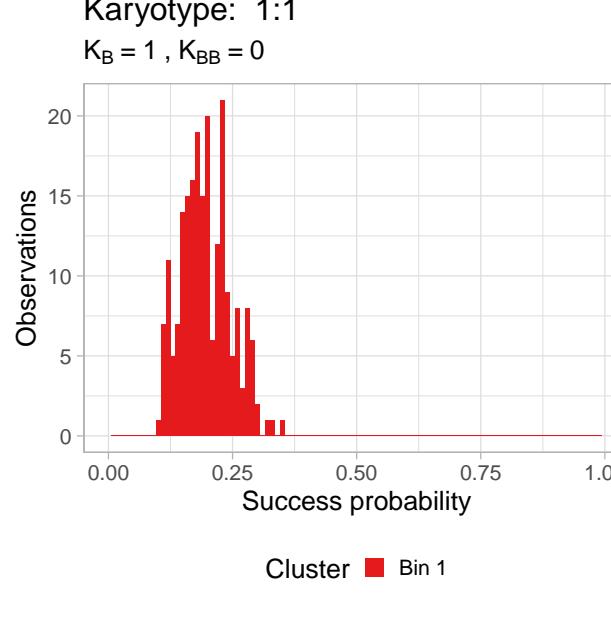
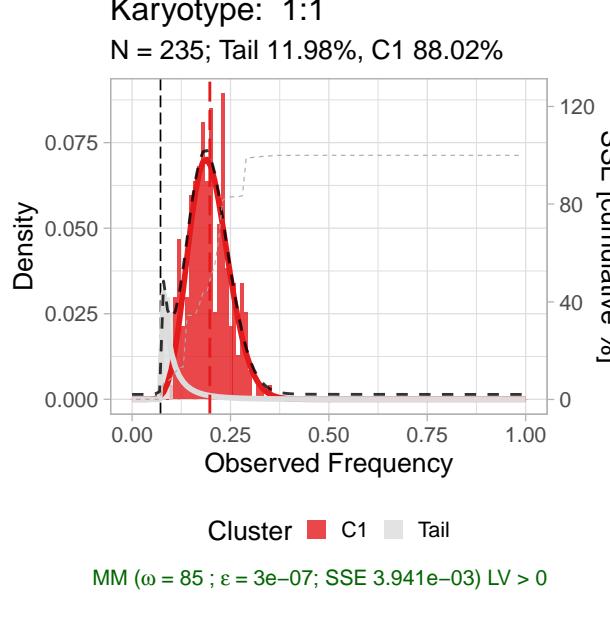
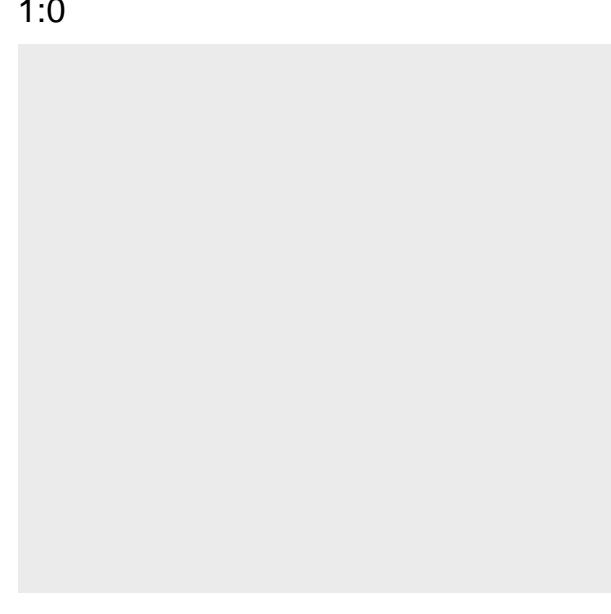
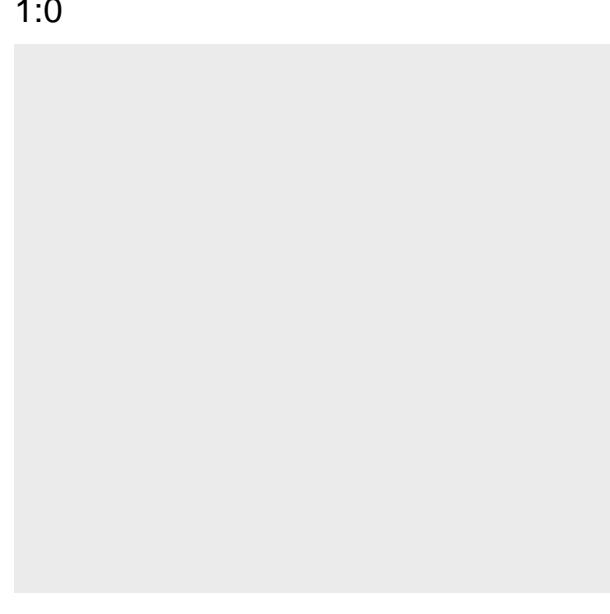


Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$



170516_HMFregCPCT_FR11442507_FR14064688_CPCT02050149

ONLY SNVs (min 150 – max 50000)

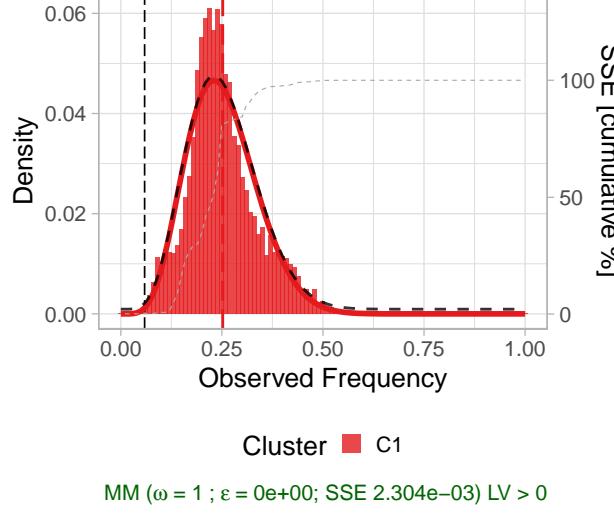


170523_HMFregCPCT_FR10304577_FR14064683_CPCT02050052

ONLY SNVs (min 150 – max 50000)

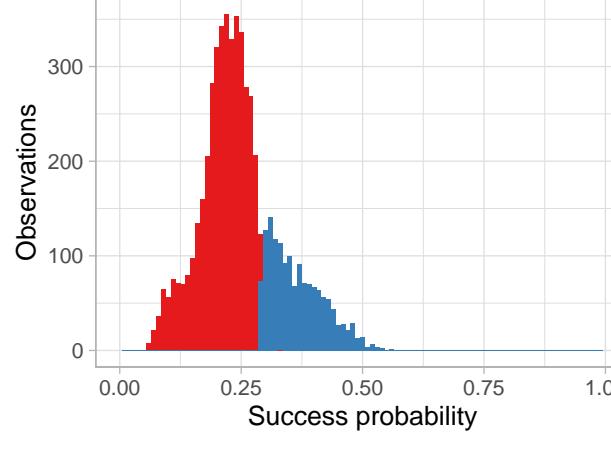
Karyotype: 1:0

N = 5815; Tail 0%, C1 100%



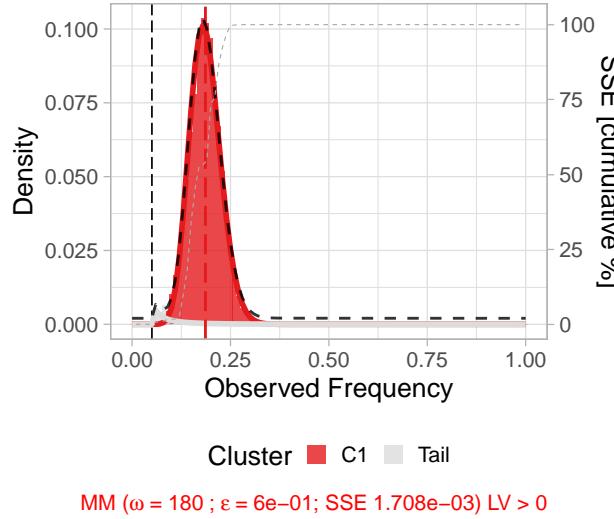
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



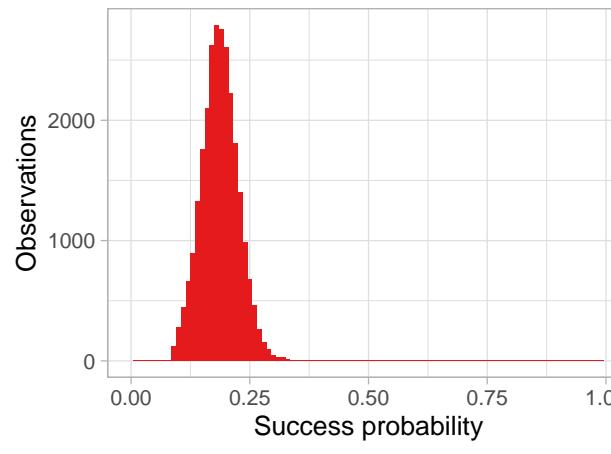
Karyotype: 1:1

N = 26972; Tail 2.51%, C1 97.49%



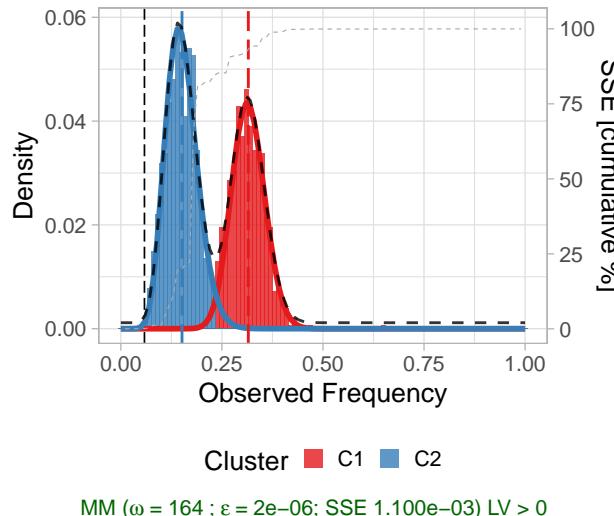
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



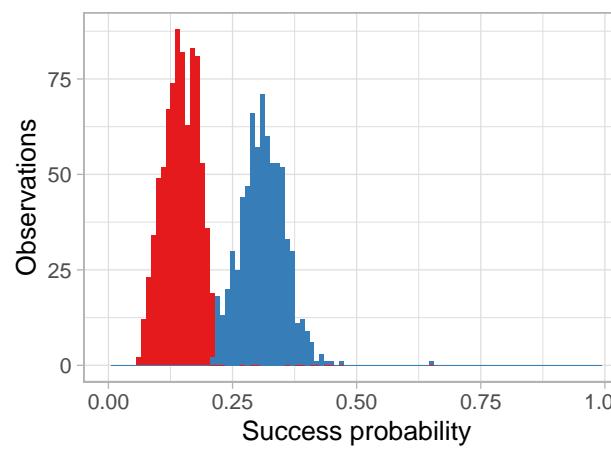
Karyotype: 2:1

N = 1538; Tail 0%, C1 44.42%, C2 55.58%



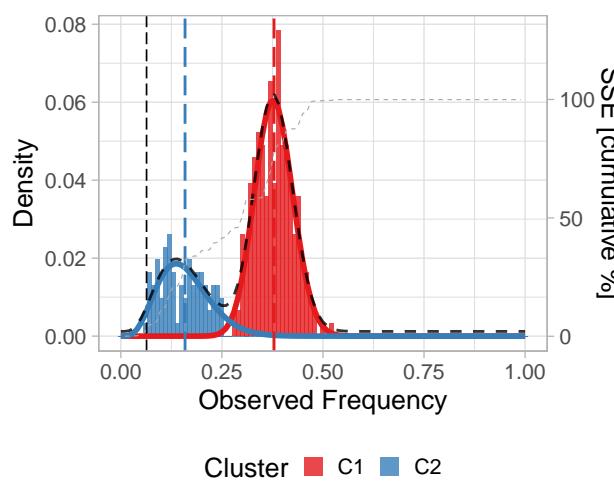
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



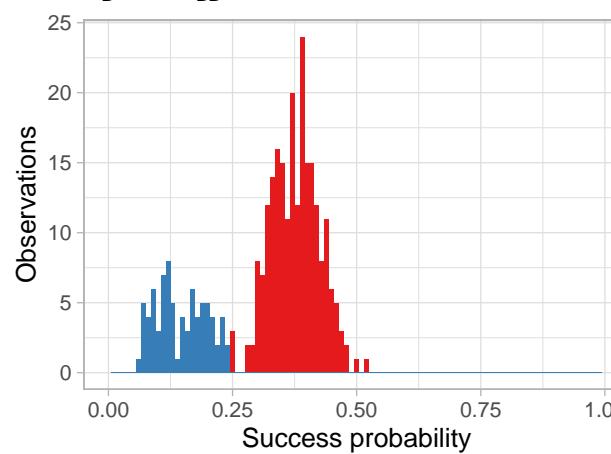
Karyotype: 2:0

N = 306; Tail 0%, C2 28.47%, C1 71.53%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

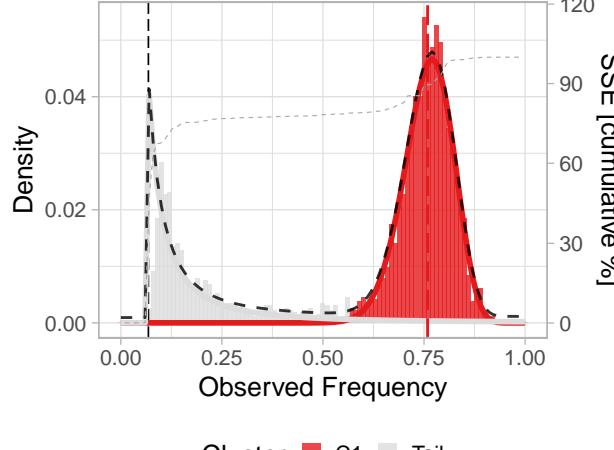
2:2

170605_HMFregCPCT_FR13255972_FR13256009_CPCT02050170

ONLY SNVs (min 150 – max 50000)

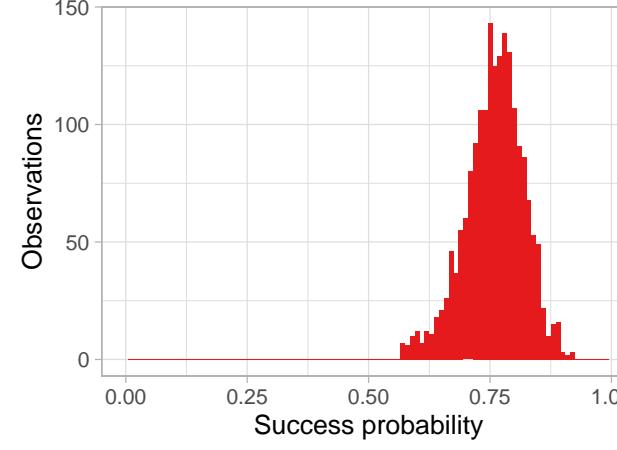
Karyotype: 1:0

N = 2644; Tail 29.08%, C1 70.92%



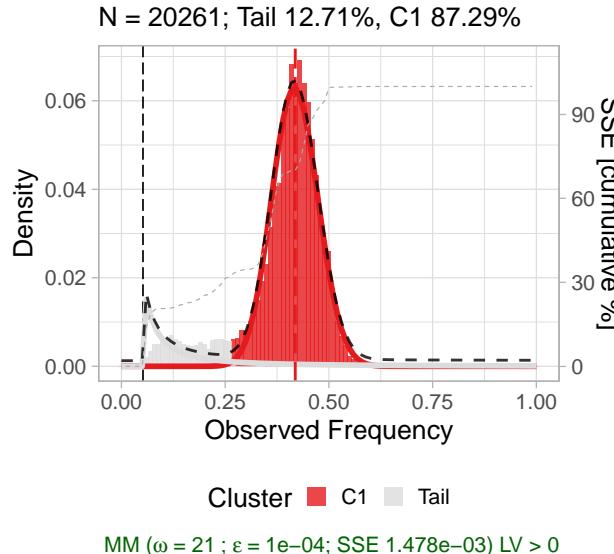
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



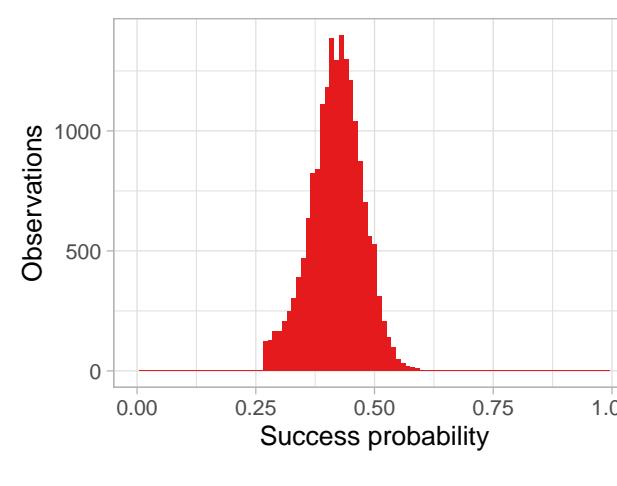
Karyotype: 1:1

N = 20261; Tail 12.71%, C1 87.29%



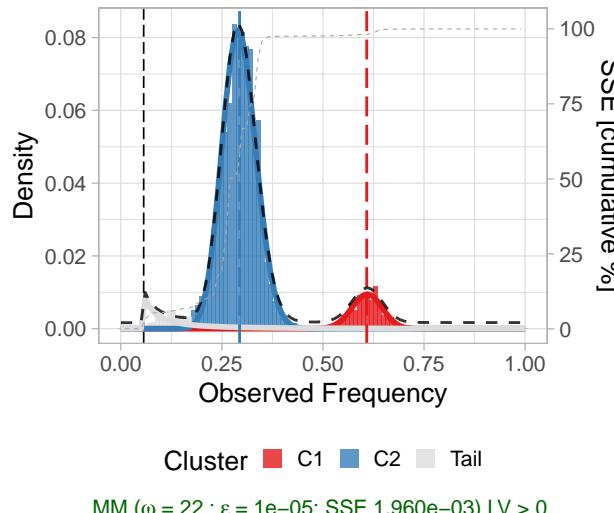
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



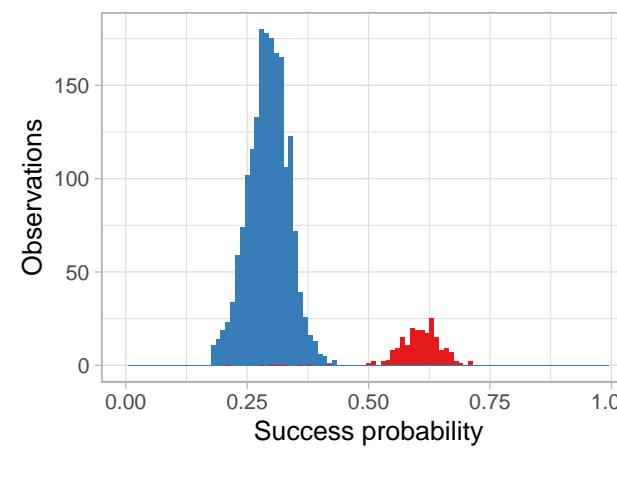
Karyotype: 2:1

N = 2149; Tail 5.63%, C1 8.86%, C2 85.51%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

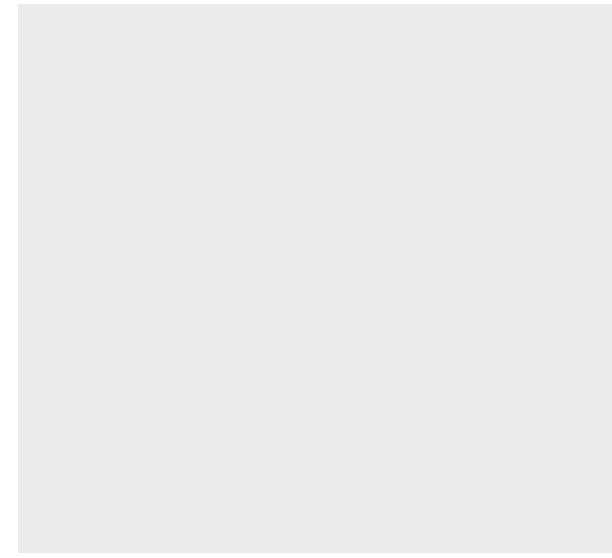
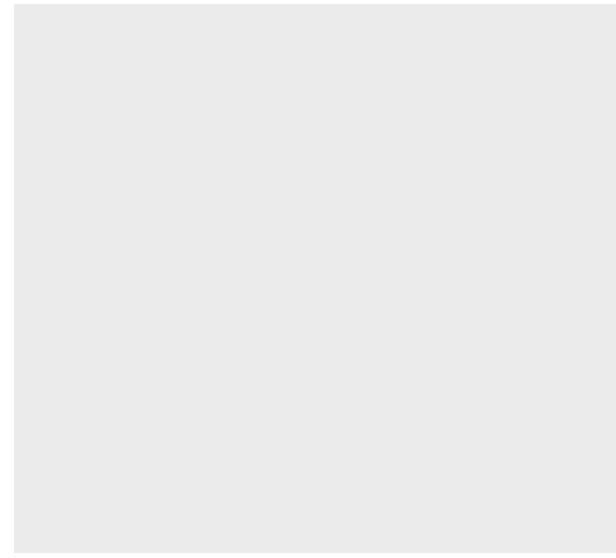
2:2

170605_HMFregCPCT_FR13255981_FR13256011_CPCT02050168

ONLY SNVs (min 150 – max 50000)

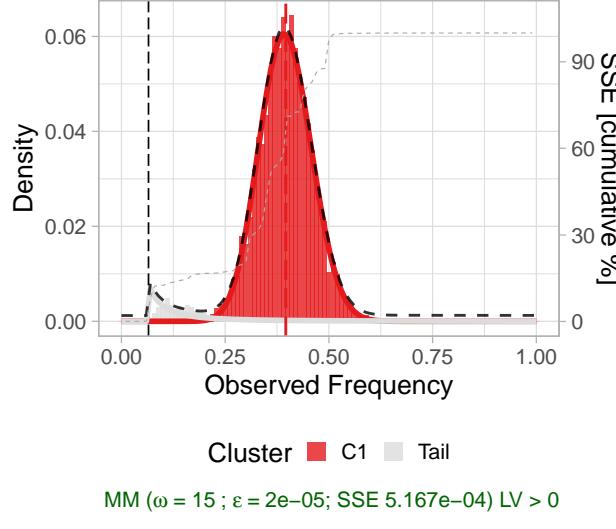
1:0

1:0



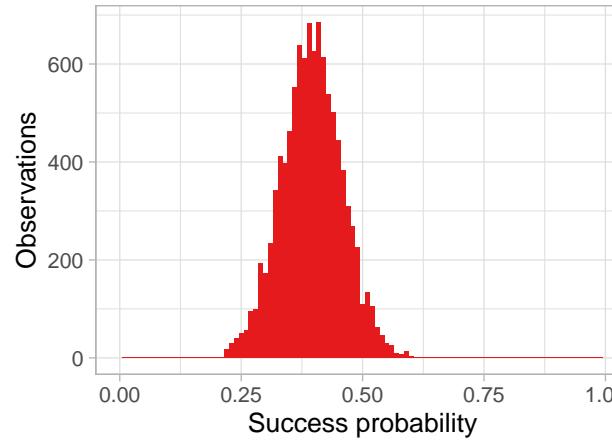
Karyotype: 1:1

N = 10651; Tail 4.78%, C1 95.22%



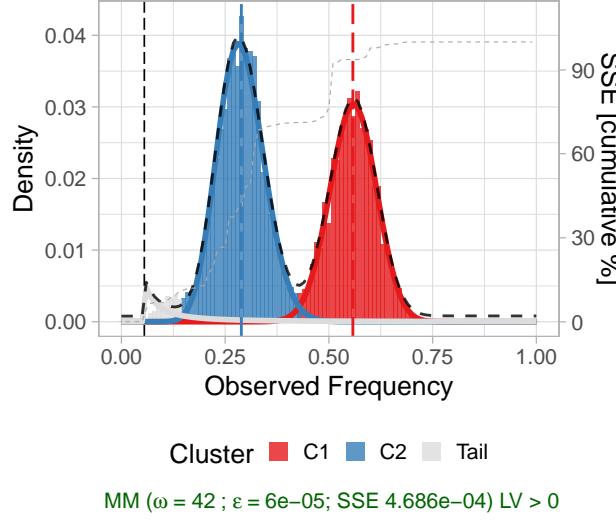
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



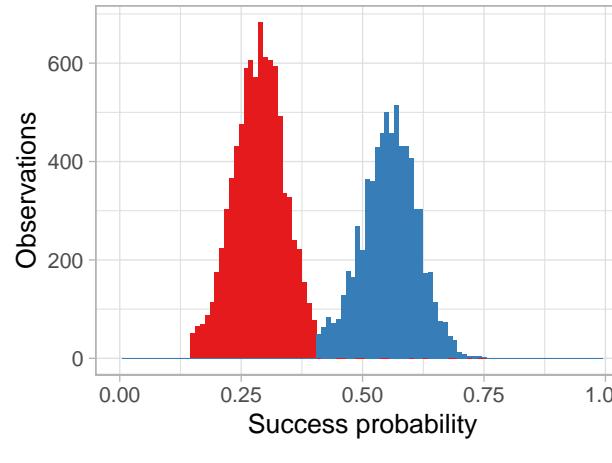
Karyotype: 2:1

N = 15992; Tail 3.3%, C1 42.57%, C2 54.13%



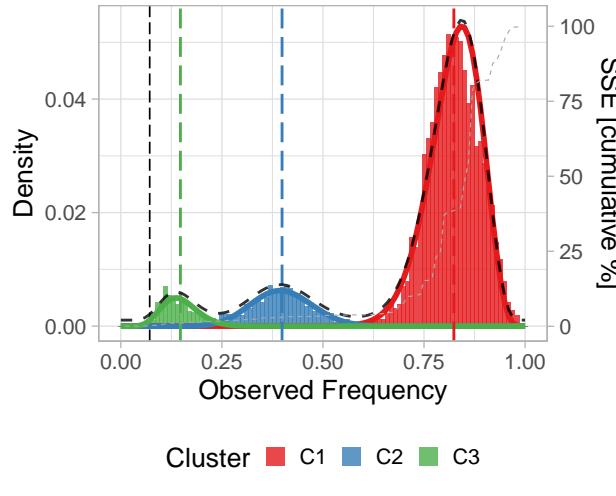
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



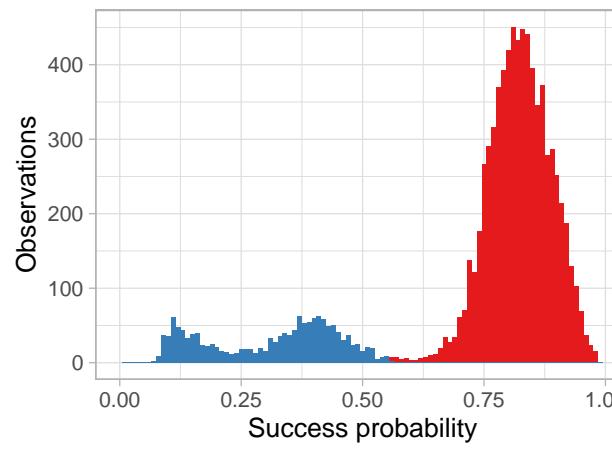
Karyotype: 2:0

N = 8784; Tail 0%, C3 5.4%, C2 11.73%, C1 8



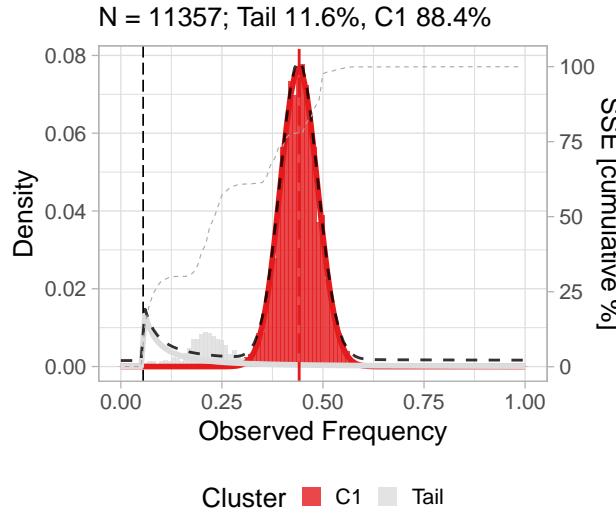
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



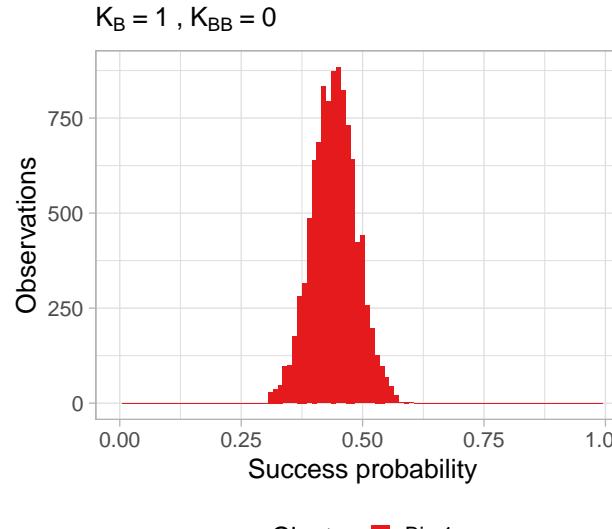
Karyotype: 2:2

N = 11357; Tail 11.6%, C1 88.4%



Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$

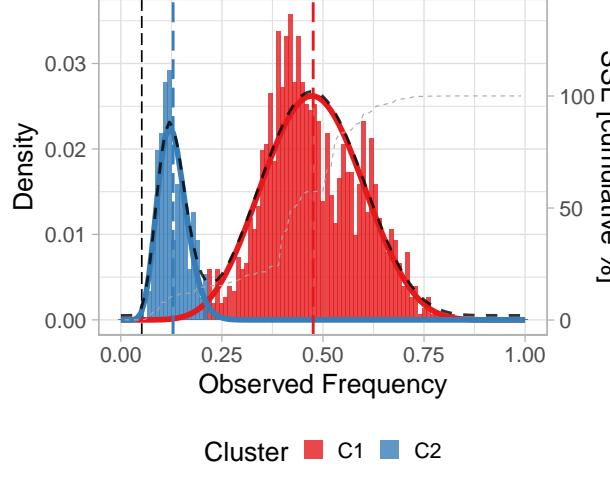


170605_HMFregCPCT_FR13256354_FR13255999_CPCT02020509

ONLY SNVs (min 150 – max 50000)

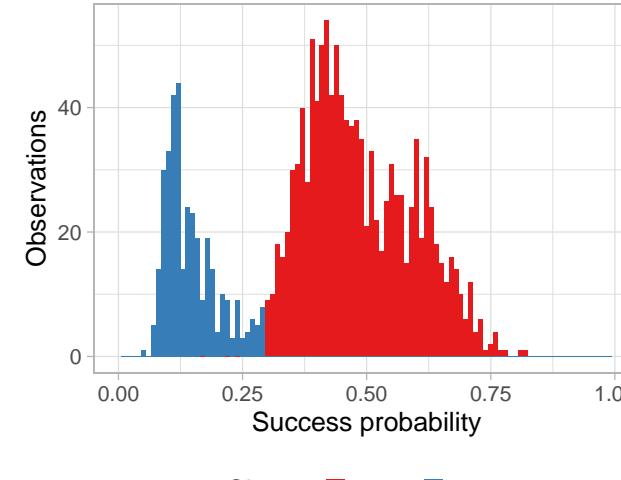
Karyotype: 1:0

N = 1509; Tail 0%, C2 19.69%, C1 80.31%



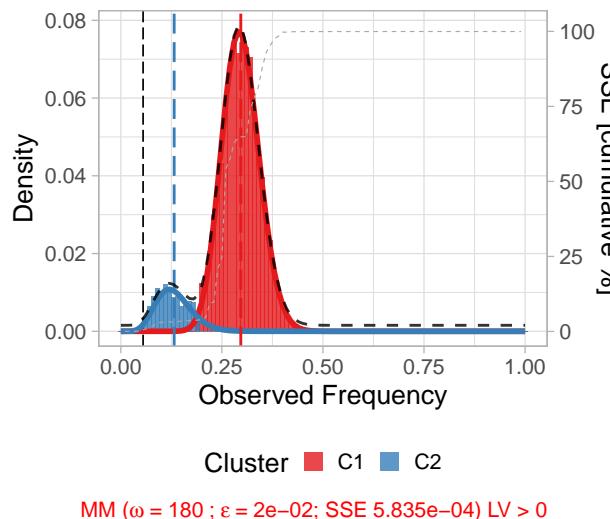
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



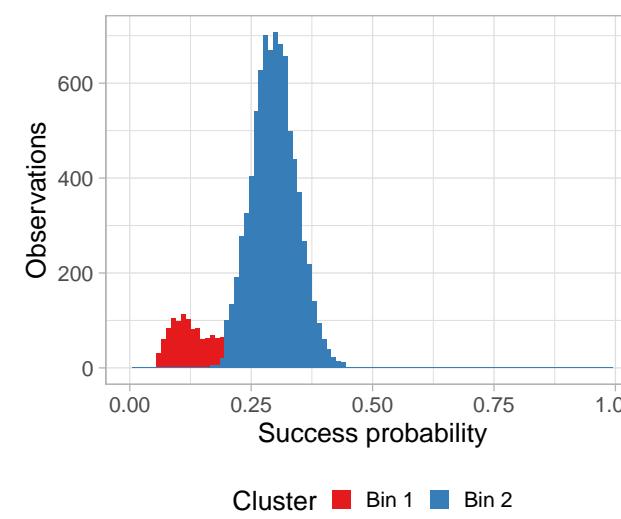
Karyotype: 1:1

N = 9326; Tail 0%, C2 11.28%, C1 88.72%



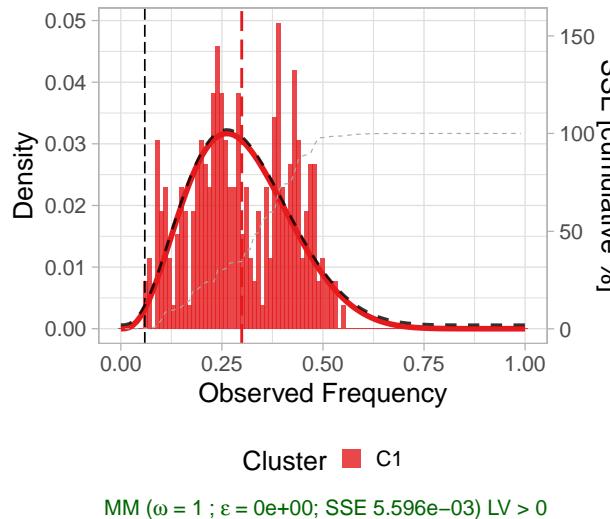
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



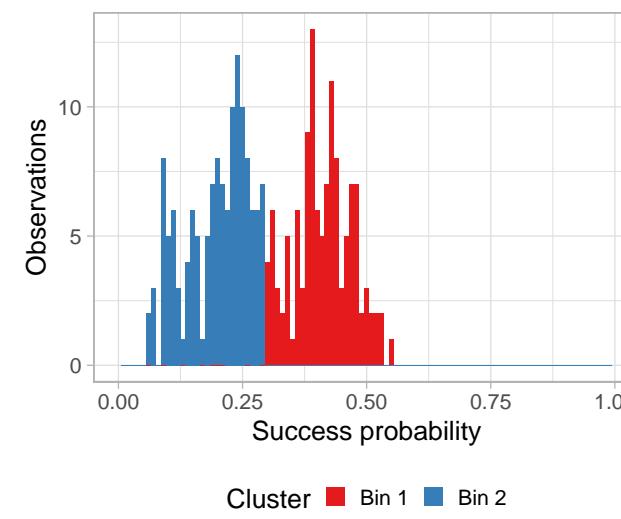
Karyotype: 2:1

N = 262; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

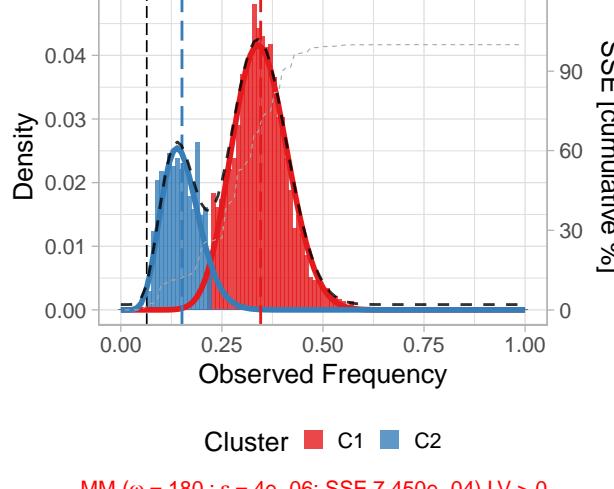
2:2

170702_HMFregCPCT_FR11442725_FR12246700_CPCT02070154

ONLY SNVs (min 150 – max 50000)

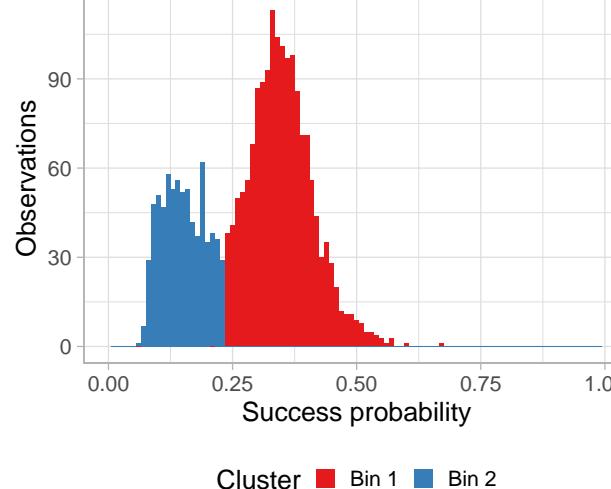
Karyotype: 1:0

N = 2351; Tail 0%, C2 29.17%, C1 70.83%



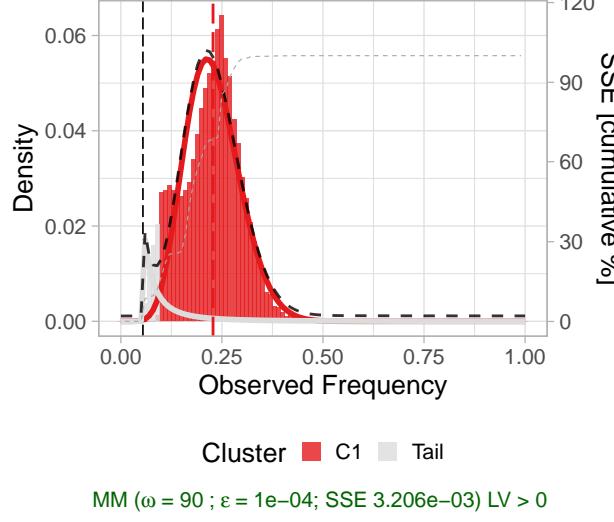
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



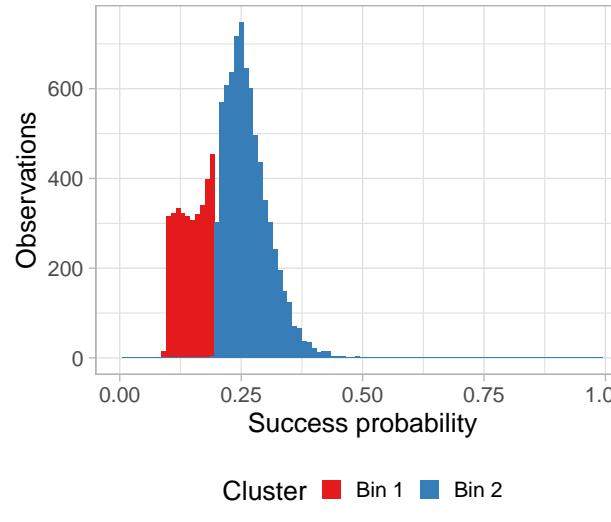
Karyotype: 1:1

N = 11667; Tail 7.8%, C1 92.2%



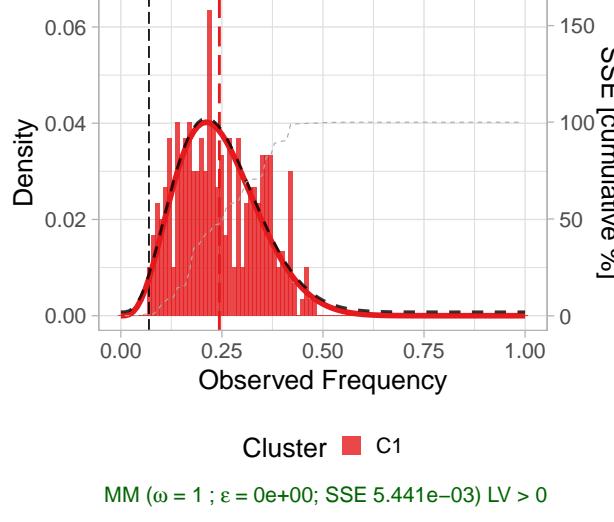
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



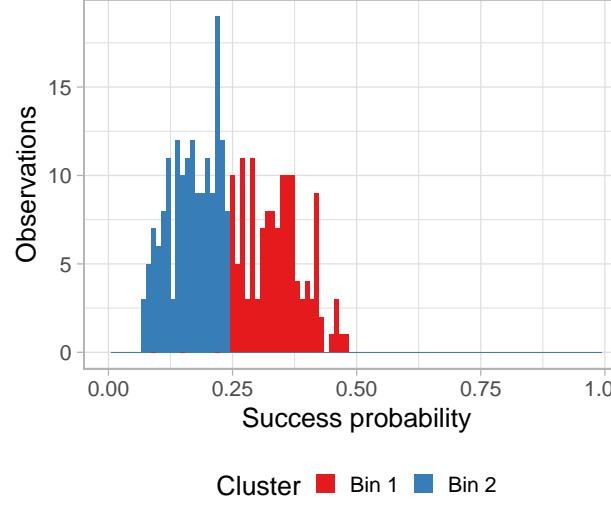
Karyotype: 2:1

N = 299; Tail 0%, C1 100%



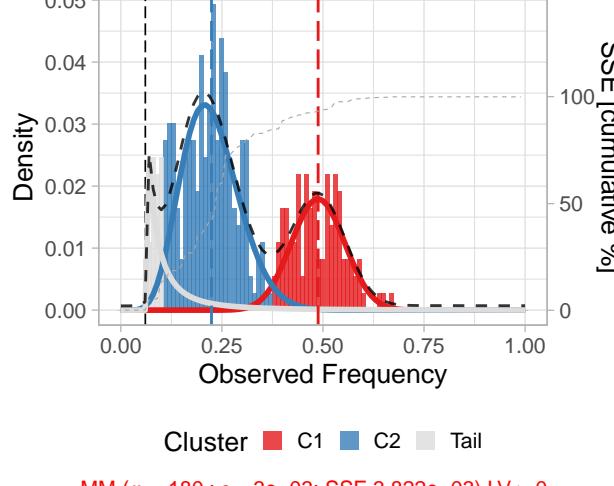
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



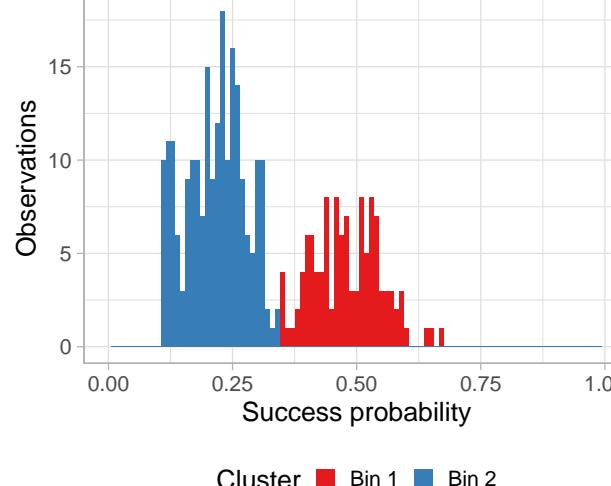
Karyotype: 2:0

N = 365; Tail 12.53%, C1 29.41%, C2 58.06%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$

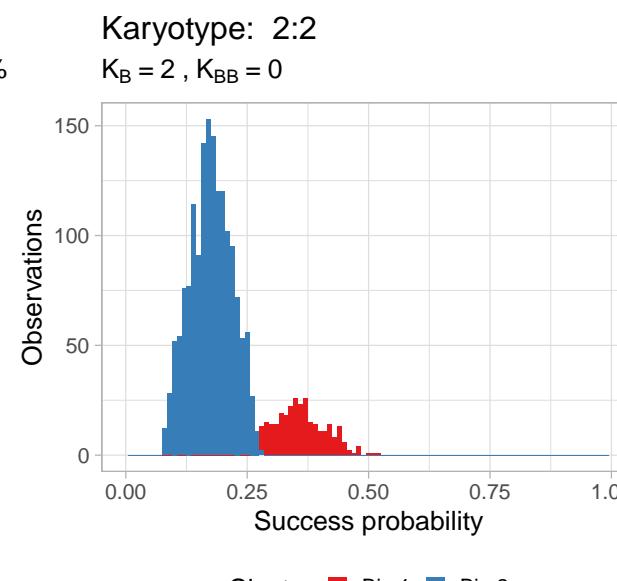
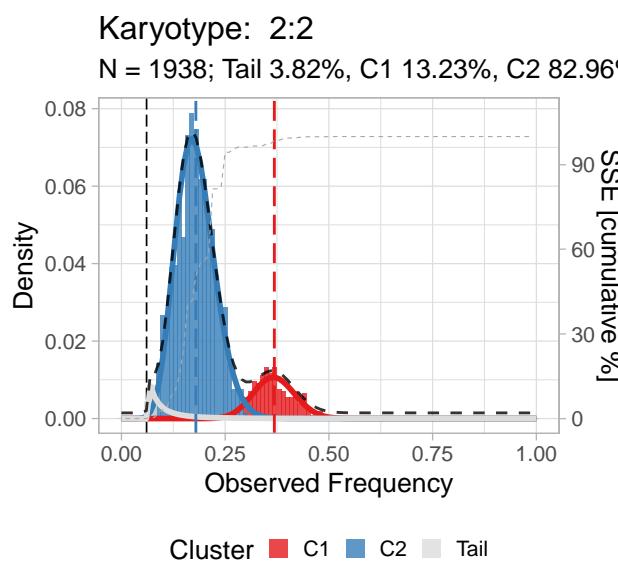
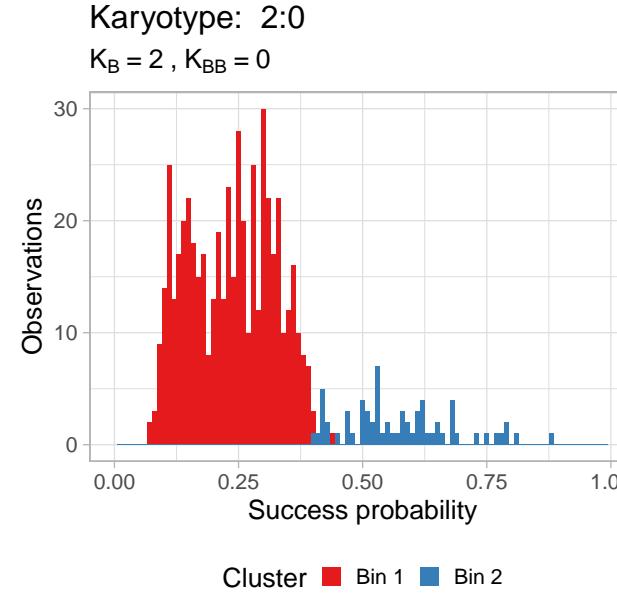
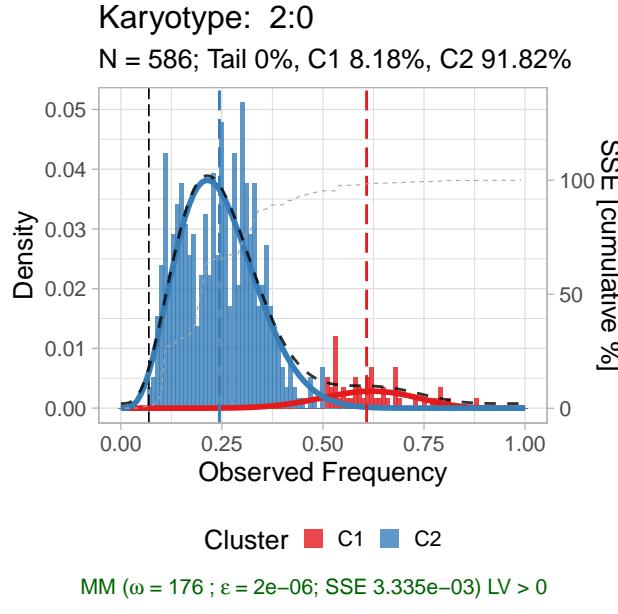
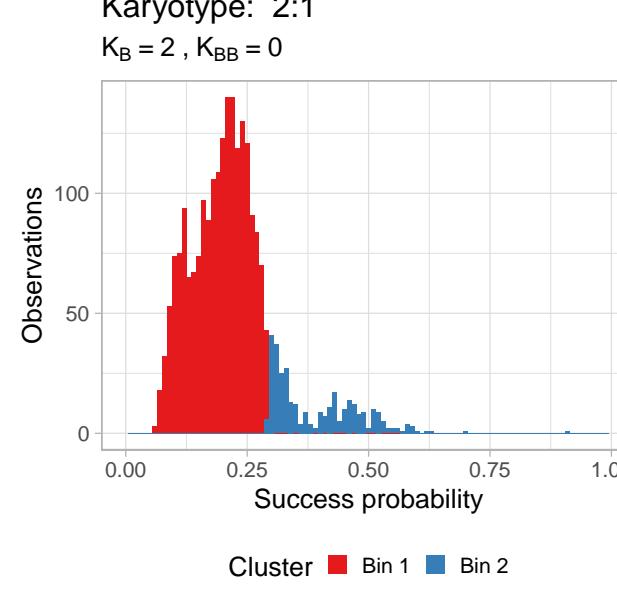
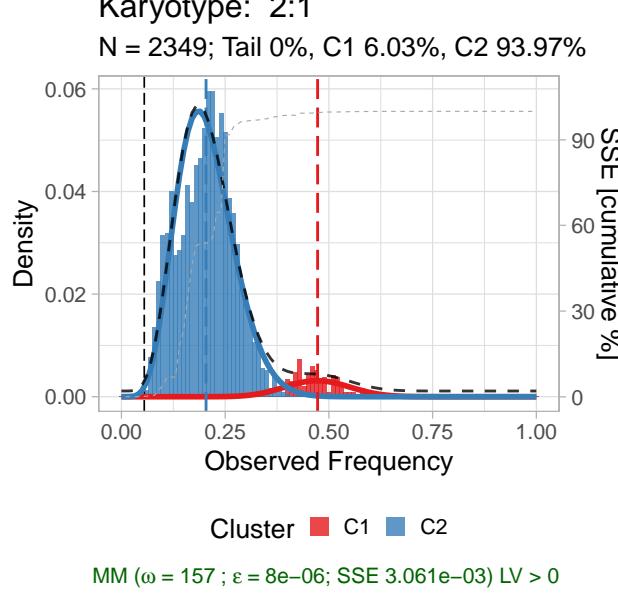
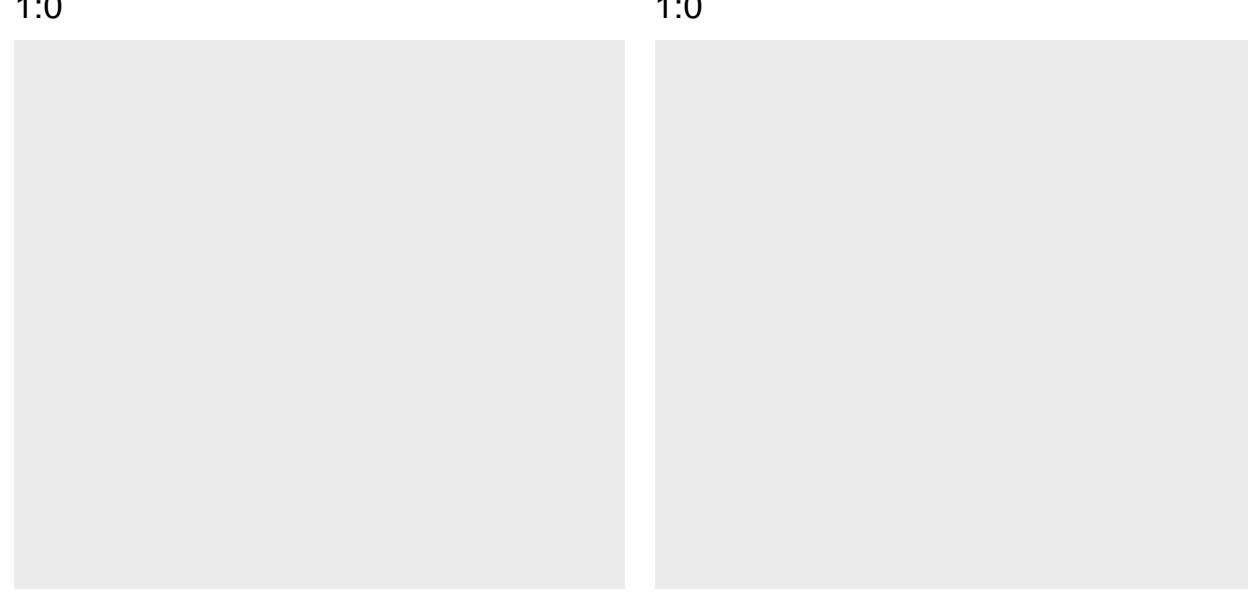


2:2

2:2

170728_HMFregCPCT_FR12246253_FR13999025_CPCT02030350

ONLY SNVs (min 150 – max 50000)

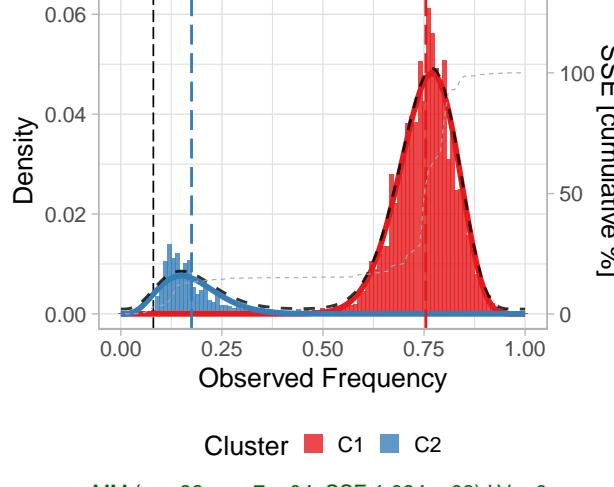


170728_HMFregCPCT_FR12246357_FR13999347_CPCT02010603

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

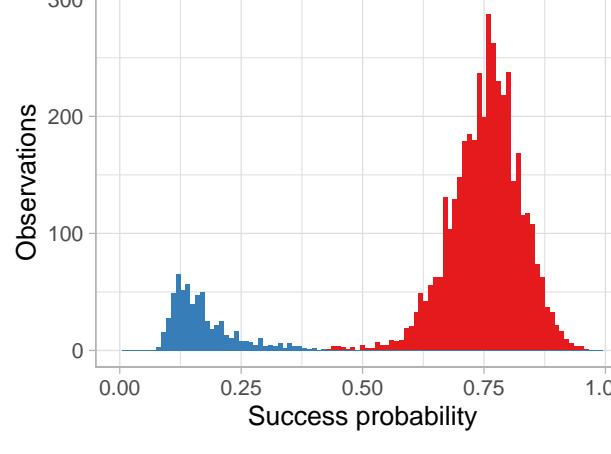
N = 4686; Tail 0%, C2 13.34%, C1 86.66%



MM ($\omega = 38$; $\epsilon = 7e-04$; SSE $1.094e-03$) LV > 0

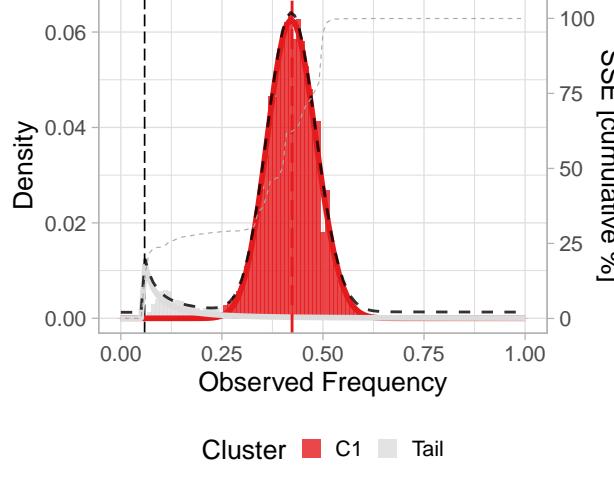
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

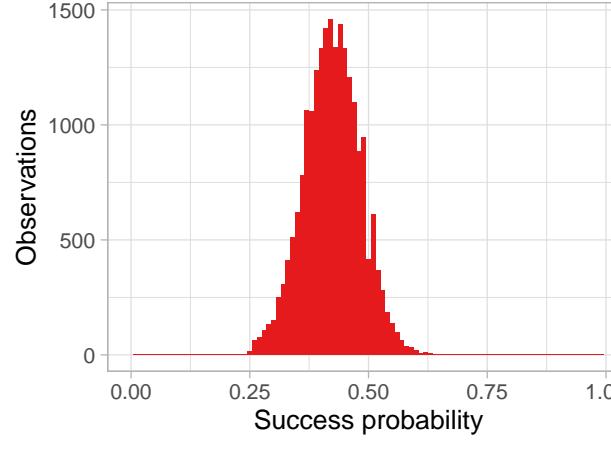
N = 22885; Tail 6.92%, C1 93.08%



MM ($\omega = 13$; $\epsilon = 3e-05$; SSE $8.222e-04$) LV > 0

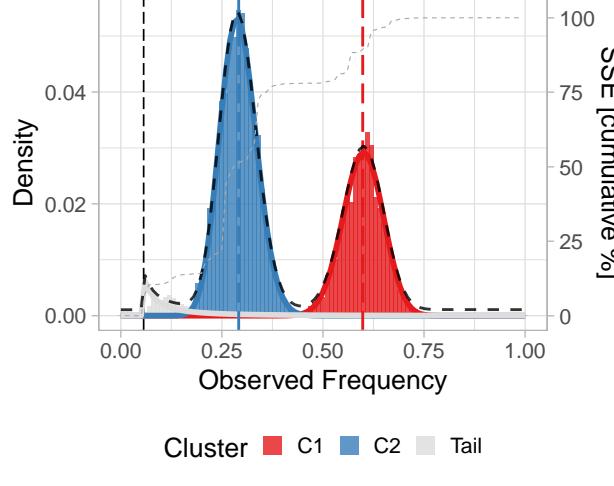
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

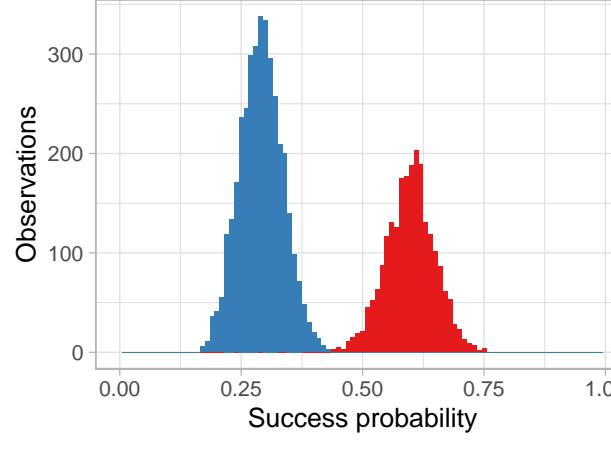
N = 6183; Tail 3.82%, C1 36.46%, C2 59.72%



MM ($\omega = 27$; $\epsilon = 4e-06$; SSE $4.693e-04$) LV > 0

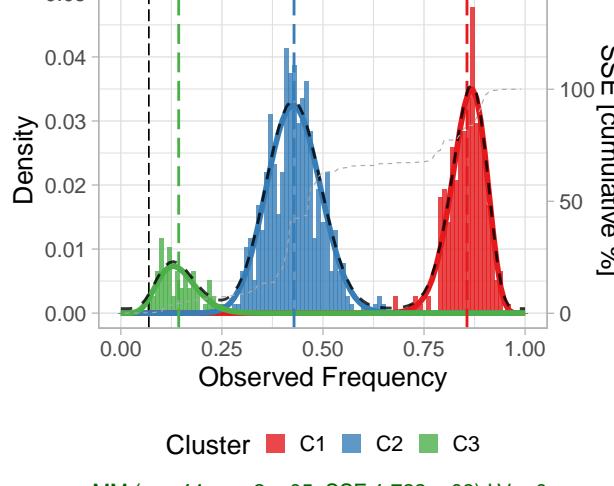
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

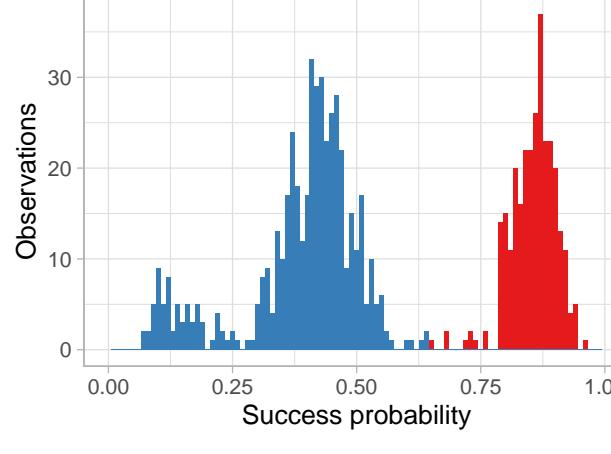
N = 775; Tail 0%, C3 8.52%, C1 37.53%, C2 5



MM ($\omega = 44$; $\epsilon = 2e-05$; SSE $1.722e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

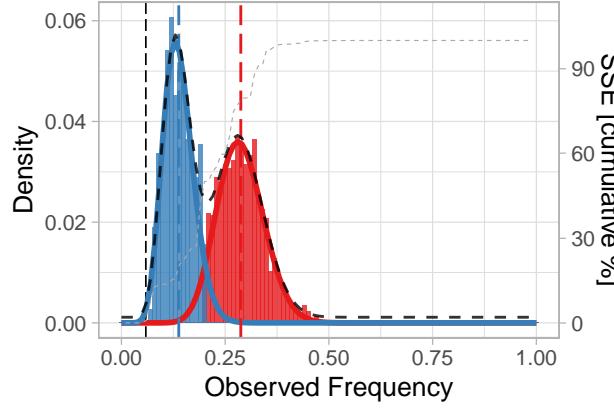


170730_HMFregCPCT_FR13999226_FR13999361_CPCT02070172

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

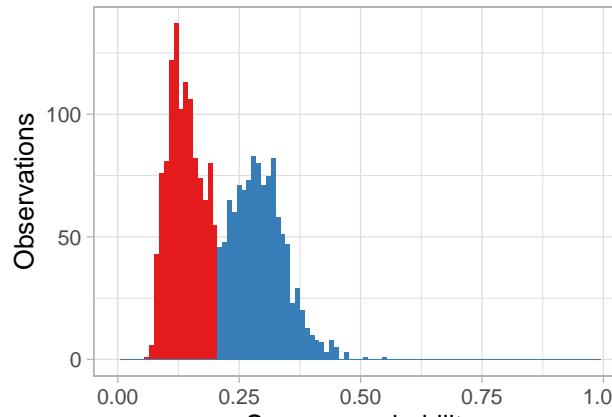
N = 2256; Tail 0%, C2 49.69%, C1 50.31%



MM ($\omega = 180$; $\epsilon = 1e-03$; SSE $7.309e-04$) LV > 0

Karyotype: 1:0

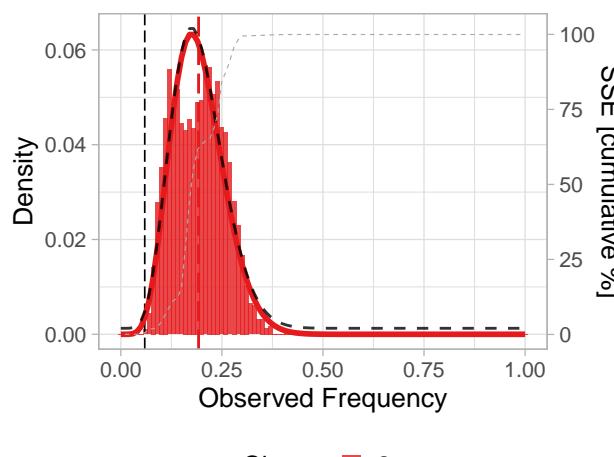
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 8273; Tail 0%, C1 100%

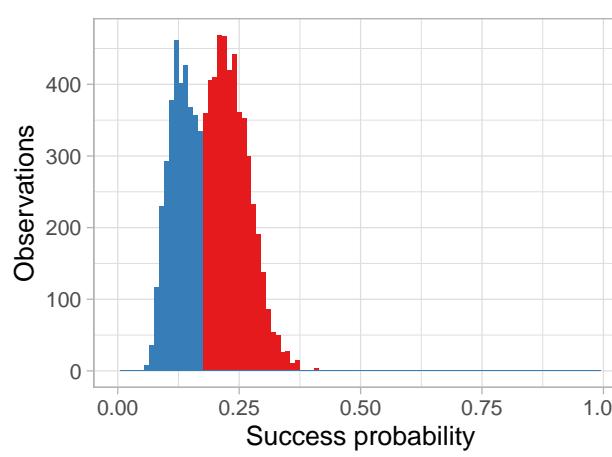


Cluster ■ C1

MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $2.719e-03$) LV > 0

Karyotype: 1:1

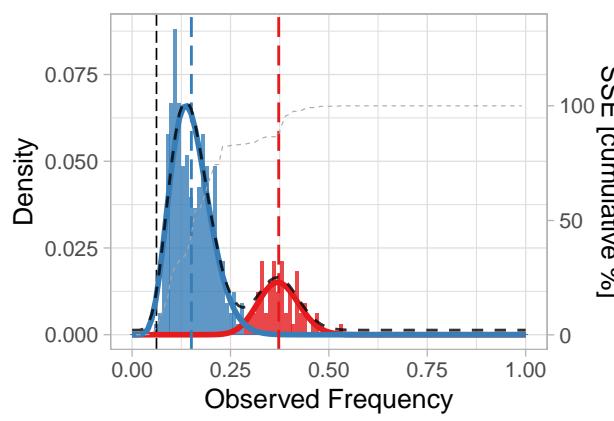
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

N = 329; Tail 0%, C1 19.31%, C2 80.69%

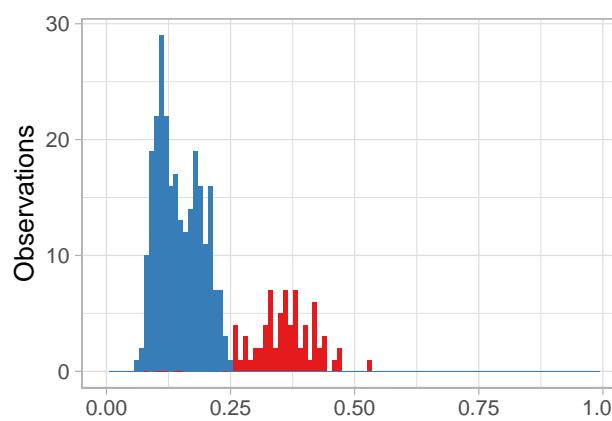


Cluster ■ C1 ■ C2

MM ($\omega = 168$; $\epsilon = 2e-06$; SSE $4.797e-03$) LV > 0

Karyotype: 2:1

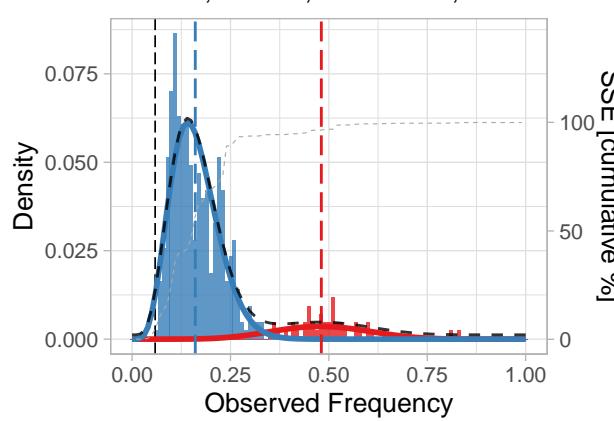
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 428; Tail 0%, C1 10.92%, C2 89.08%

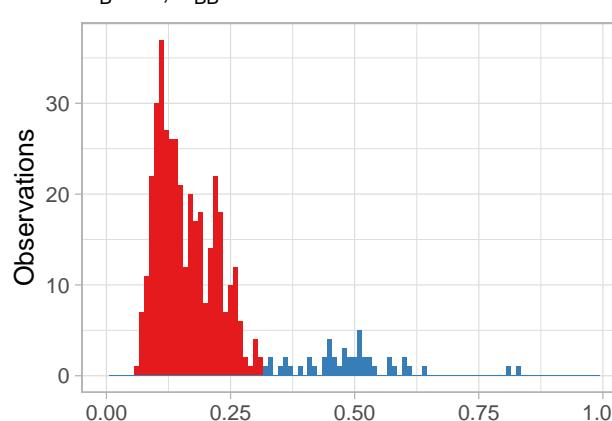


Cluster ■ C1 ■ C2

MM ($\omega = 94$; $\epsilon = 6e-06$; SSE $3.643e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

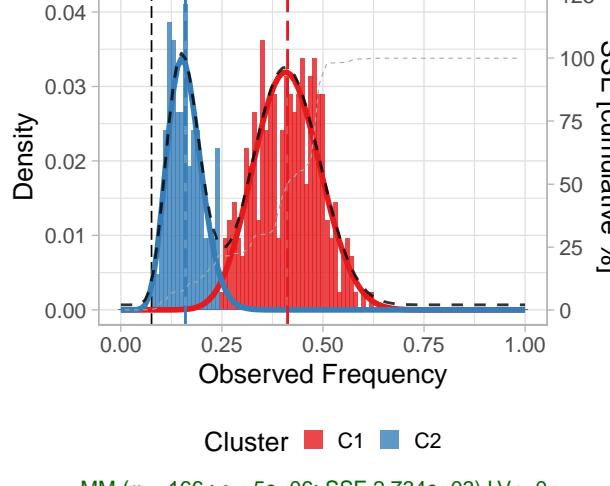
2:2

170811_HMFregCPCT_FR13999438_FR13999359_CPCT02070149

ONLY SNVs (min 150 – max 50000)

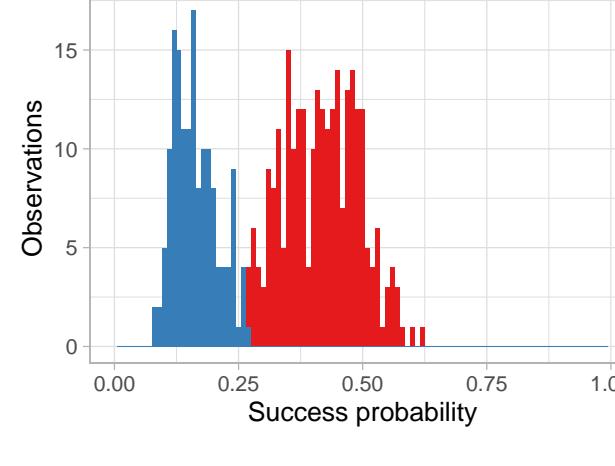
Karyotype: 1:0

N = 414; Tail 0%, C2 34.84%, C1 65.16%



Karyotype: 1:0

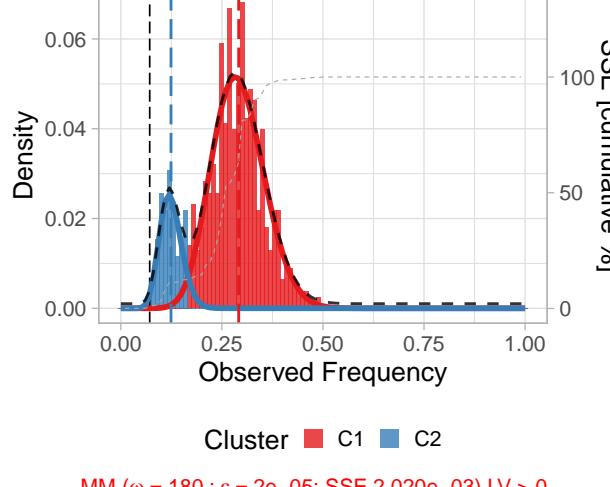
$K_B = 2, K_{BB} = 0$



MM ($\omega = 166$; $\epsilon = 5e-06$; SSE 2.734e-03) LV > 0

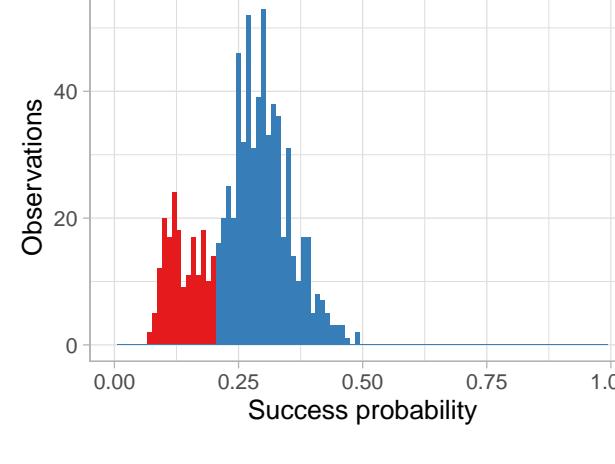
Karyotype: 1:1

N = 778; Tail 0%, C2 16.97%, C1 83.03%



Karyotype: 1:1

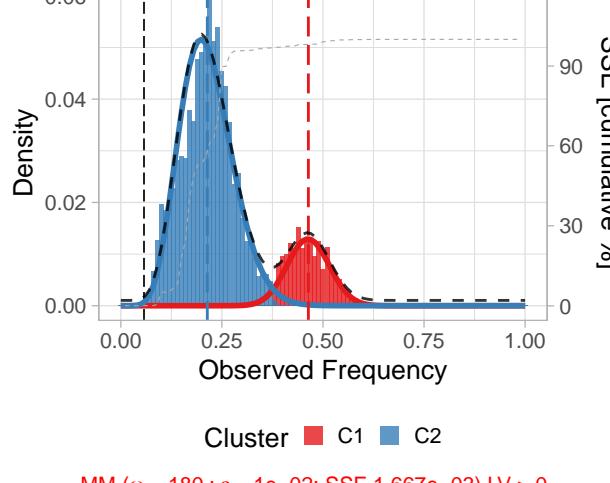
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 2e-05$; SSE 2.020e-03) LV > 0

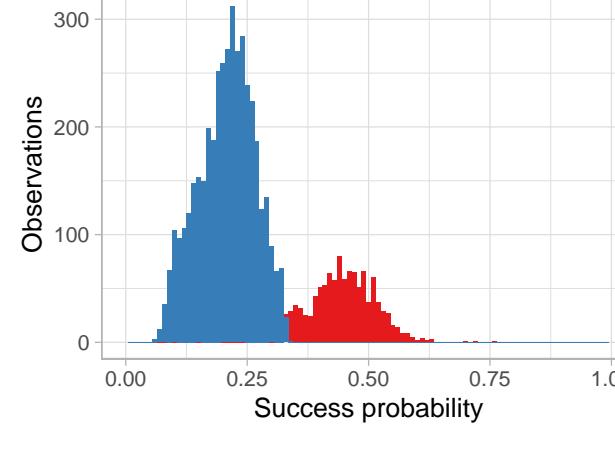
Karyotype: 2:1

N = 5269; Tail 0%, C1 16.81%, C2 83.19%



Karyotype: 2:1

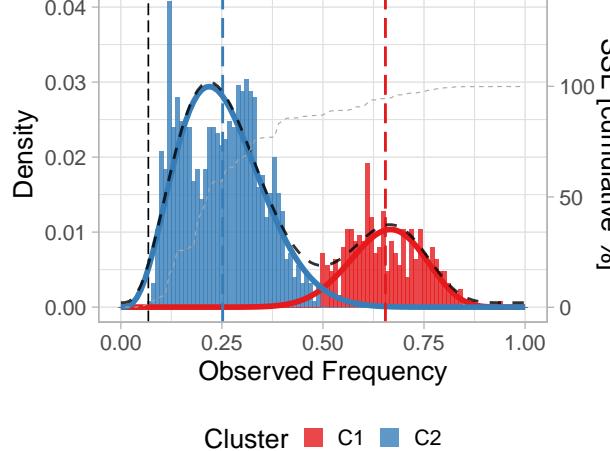
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 1e-02$; SSE 1.667e-03) LV > 0

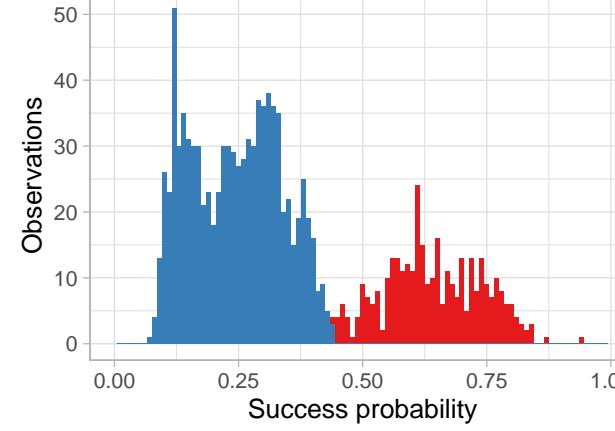
Karyotype: 2:0

N = 1251; Tail 0%, C1 23.93%, C2 76.07%



Karyotype: 2:0

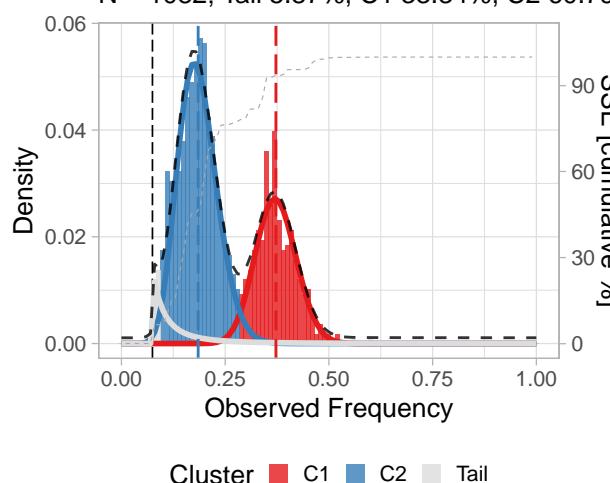
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 8e-03$; SSE 2.440e-03) LV > 0

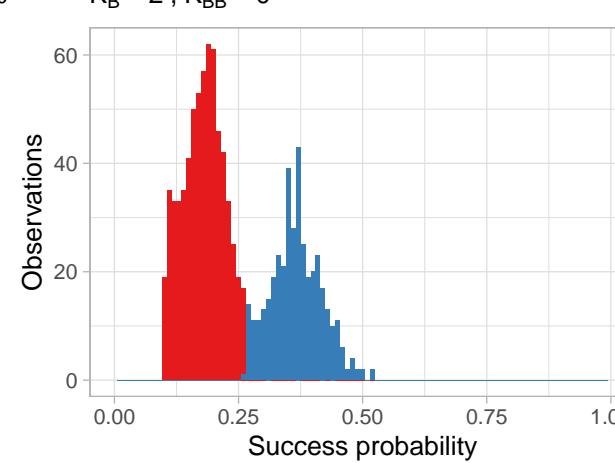
Karyotype: 2:2

N = 1082; Tail 5.87%, C1 33.34%, C2 60.79%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



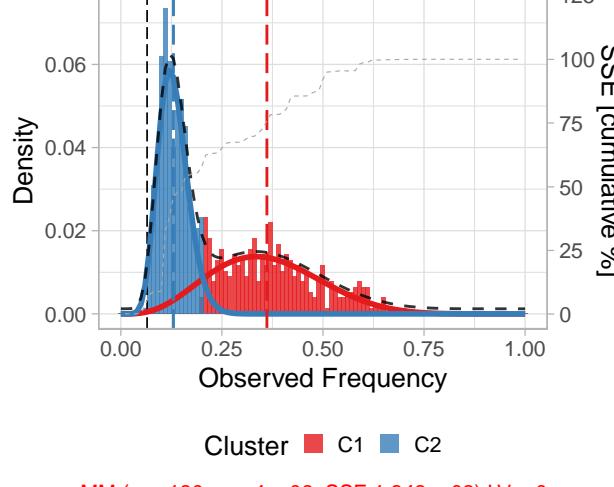
MM ($\omega = 117$; $\epsilon = 1e-06$; SSE 1.560e-03) LV > 0

170812_HMFregCPCT_FR13999162_FR15410889_CPCT02020553

ONLY SNVs (min 150 – max 50000)

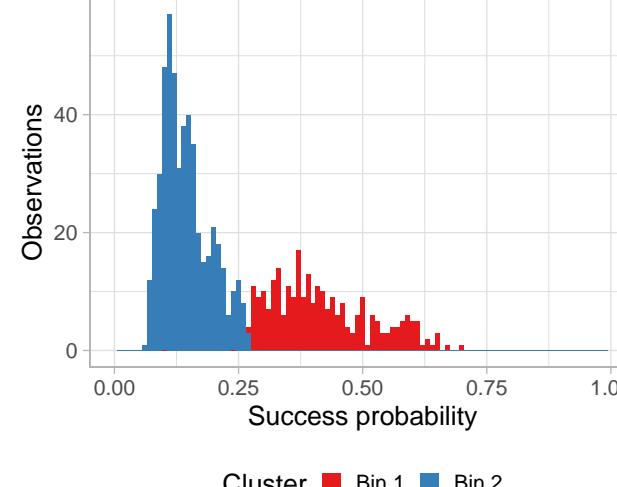
Karyotype: 1:0

N = 775; Tail 0%, C1 47.38%, C2 52.62%



Karyotype: 1:0

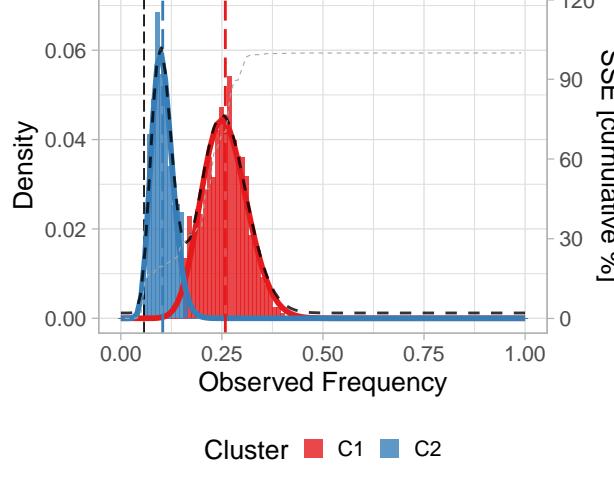
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 4e-06$; SSE $1.848e-03$) LV > 0

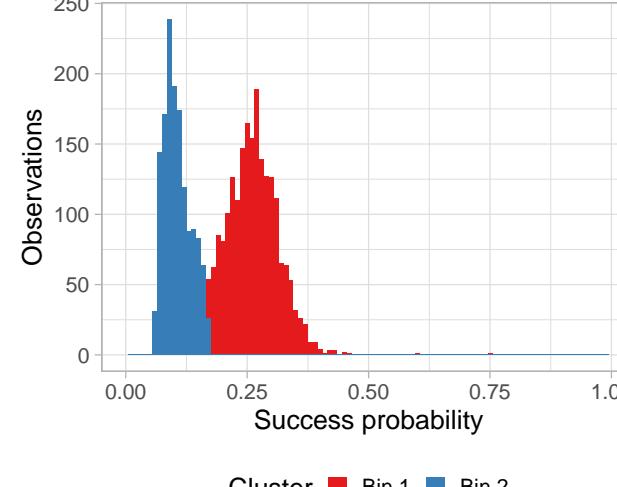
Karyotype: 1:1

N = 3492; Tail 0%, C2 38.15%, C1 61.85%



Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



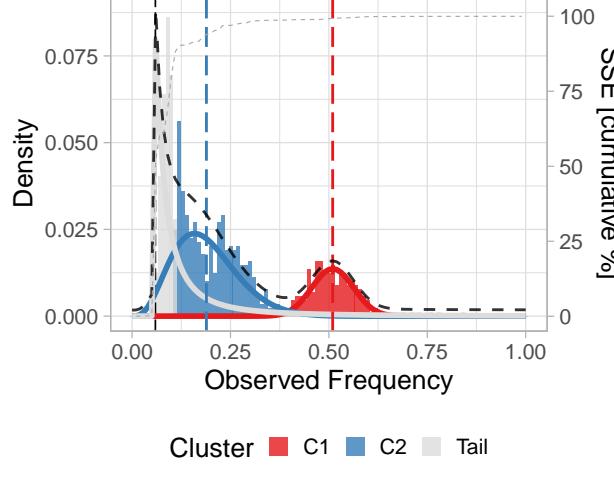
MM ($\omega = 180$; $\epsilon = 2e-02$; SSE $1.062e-03$) LV > 0

2:1

2:1

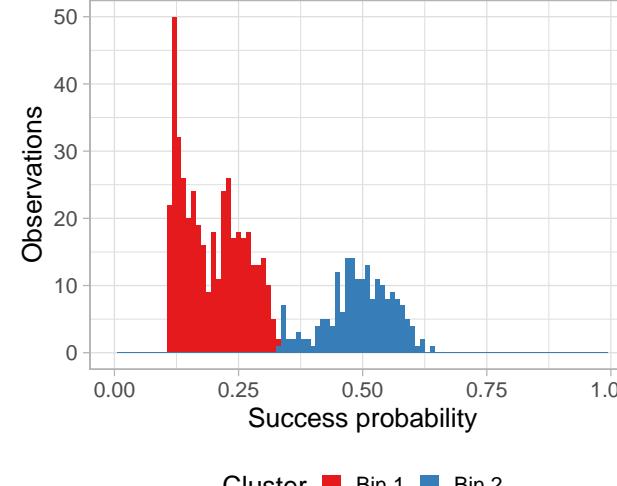
Karyotype: 2:0

N = 893; C1 17.9%, Tail 34.95%, C2 47.15%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



MM ($\omega = 125$; $\epsilon = 2e-06$; SSE $1.369e-02$) LV > 0

Cluster ■ C1 ■ C2 ■ Tail

Cluster ■ Bin 1 ■ Bin 2

2:2

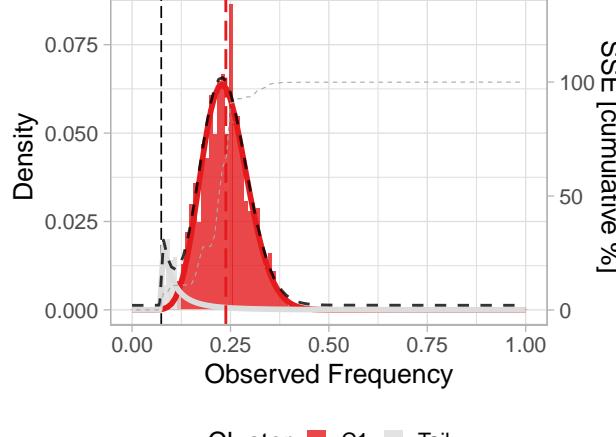
2:2

170821_HMFregCPCT_FR12246252_FR13999145_CPCT02080119

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

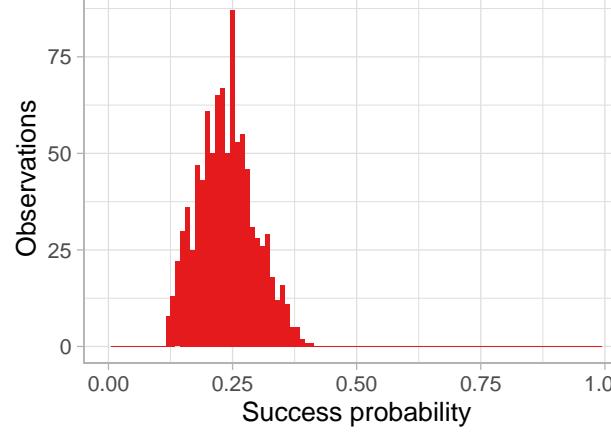
N = 1006; Tail 8.23%, C1 91.77%



MM ($\omega = 46$; $\epsilon = 2e-06$; SSE 2.379e-03) LV > 0

Karyotype: 1:0

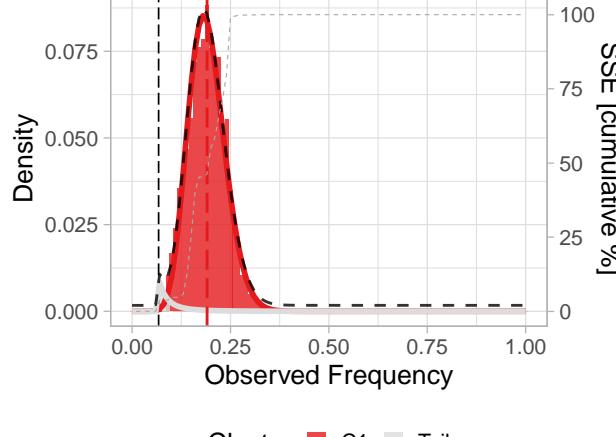
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 1:1

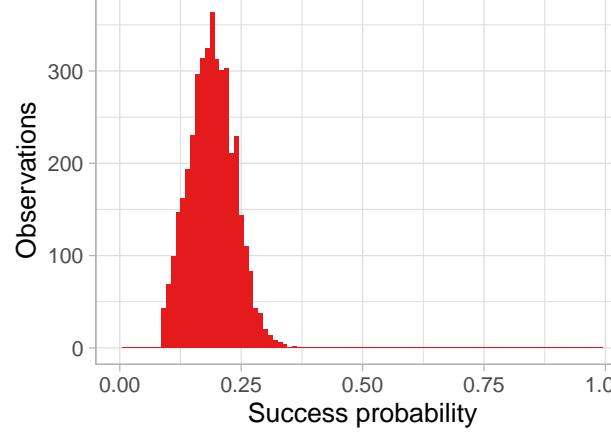
N = 4127; Tail 2.63%, C1 97.37%



MM ($\omega = 149$; $\epsilon = 1e-05$; SSE 1.643e-03) LV > 0

Karyotype: 1:1

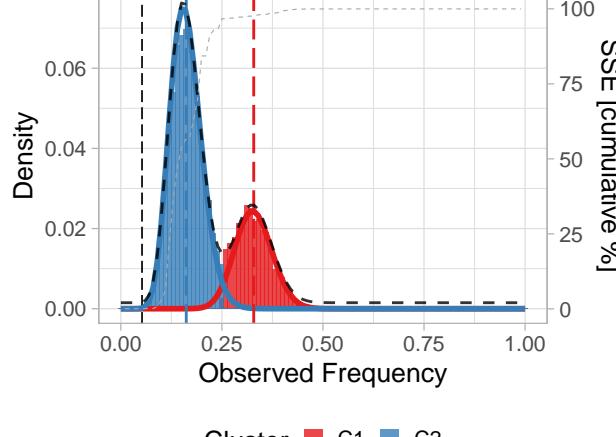
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

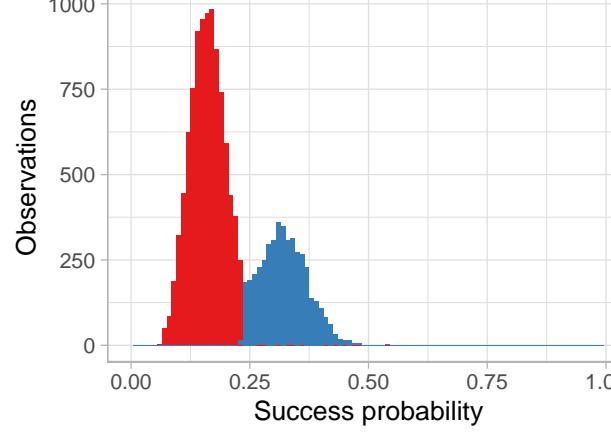
N = 13988; Tail 0%, C1 27.86%, C2 72.14%



MM ($\omega = 180$; $\epsilon = 5e-02$; SSE 8.174e-04) LV > 0

Karyotype: 2:1

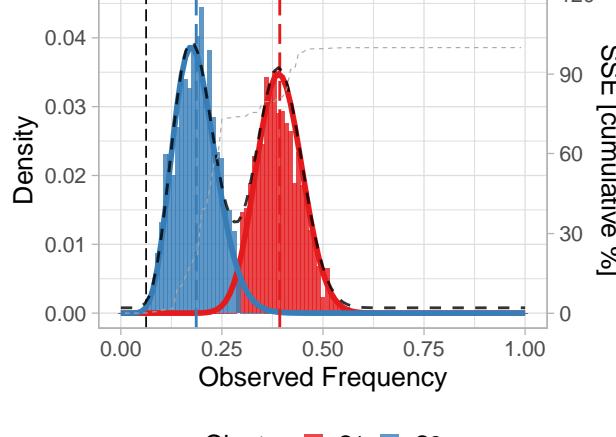
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

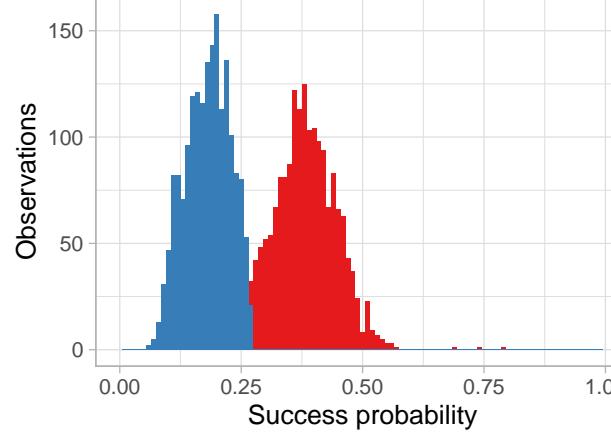
N = 3556; Tail 0%, C1 49.17%, C2 50.83%



MM ($\omega = 180$; $\epsilon = 2e-02$; SSE 8.202e-04) LV > 0

Karyotype: 2:0

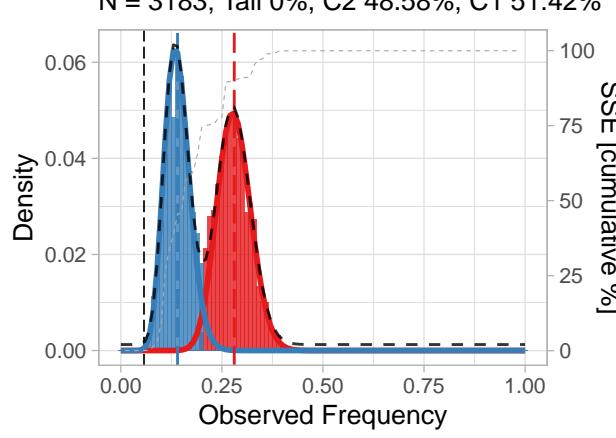
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

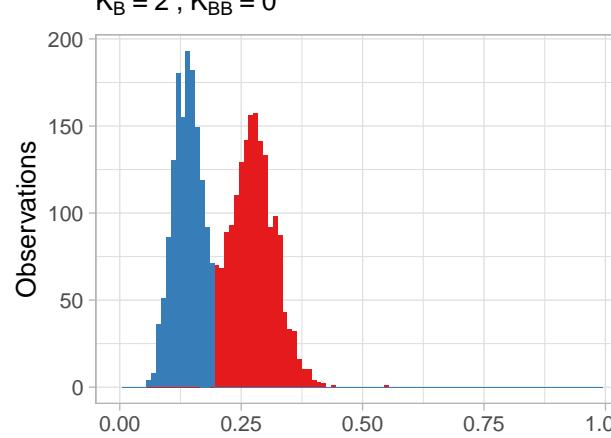
N = 3183; Tail 0%, C2 48.58%, C1 51.42%



MM ($\omega = 180$; $\epsilon = 2e-03$; SSE 8.420e-04) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



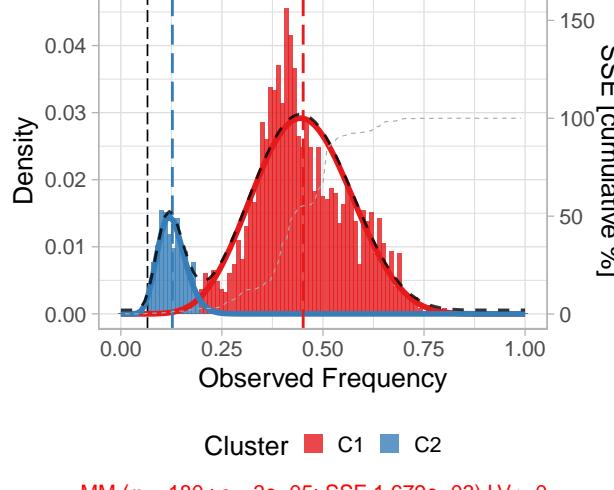
Cluster ■ Bin 1 ■ Bin 2

170825_HMFregCPCT_FR13999444_FR15410591_CPCT02050214

ONLY SNVs (min 150 – max 50000)

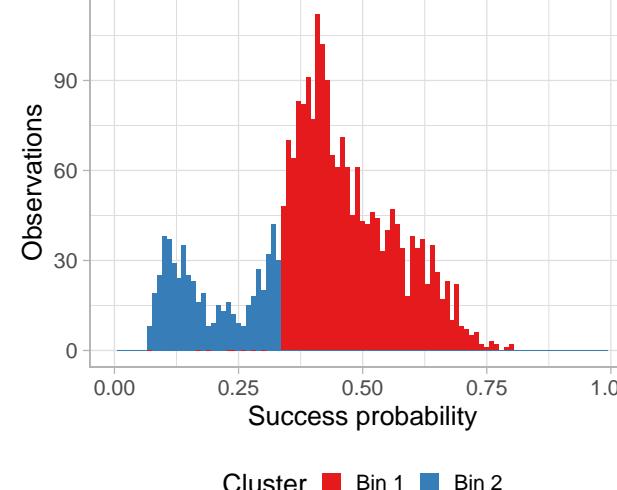
Karyotype: 1:0

N = 2457; Tail 0%, C2 12.12%, C1 87.88%



Karyotype: 1:0

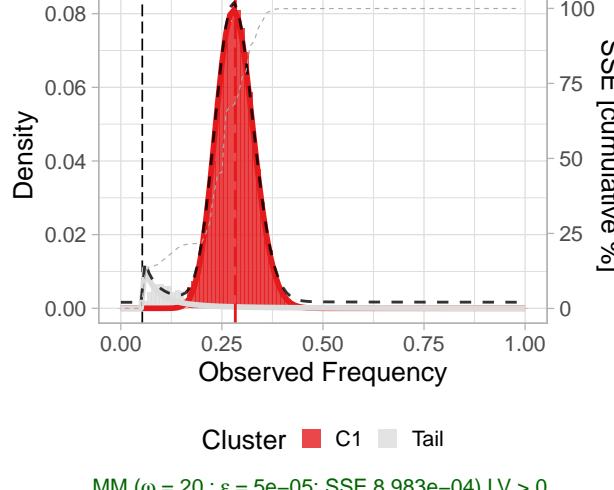
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 3e-05$; SSE $1.679e-03$) LV > 0

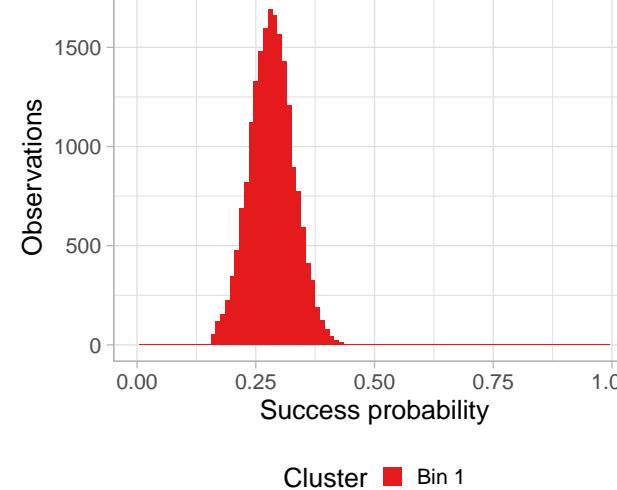
Karyotype: 1:1

N = 20543; Tail 6.51%, C1 93.49%



Karyotype: 1:1

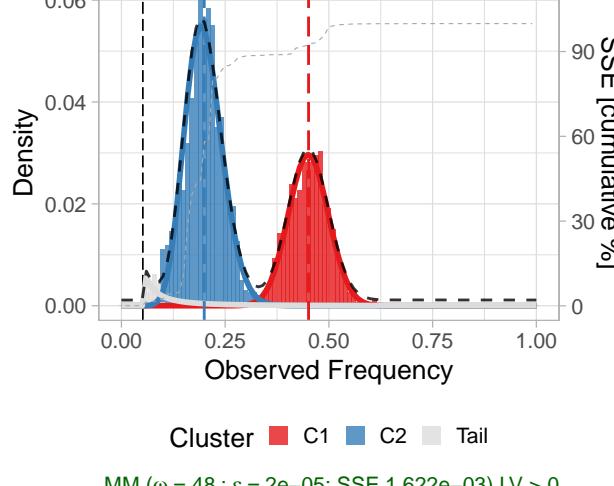
$K_B = 1, K_{BB} = 0$



MM ($\omega = 20$; $\epsilon = 5e-05$; SSE $8.983e-04$) LV > 0

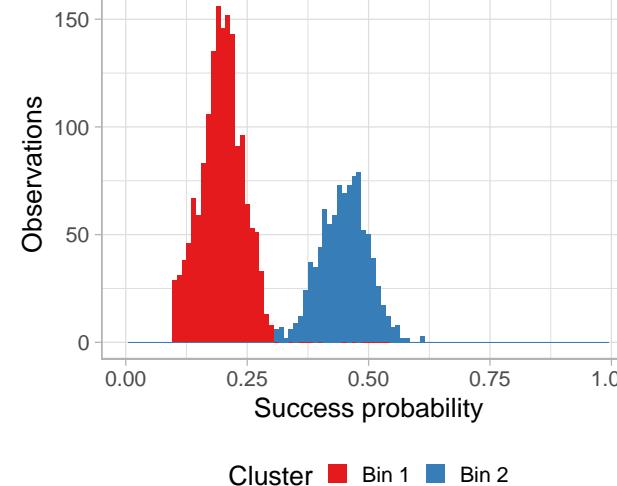
Karyotype: 2:1

N = 2598; Tail 3.39%, C1 35.65%, C2 60.96%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$

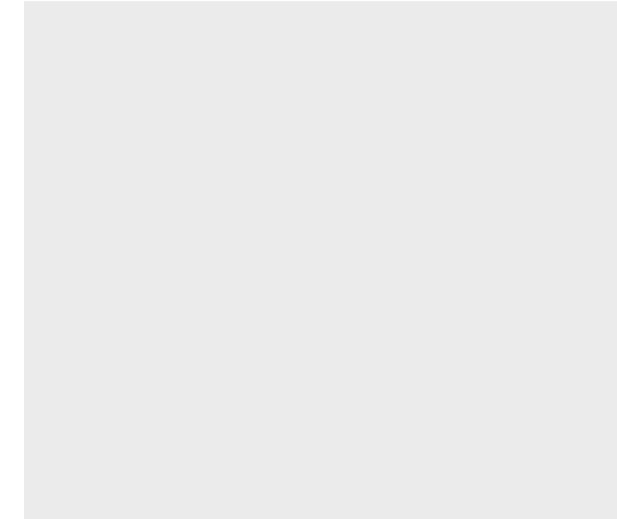


MM ($\omega = 48$; $\epsilon = 2e-05$; SSE $1.622e-03$) LV > 0

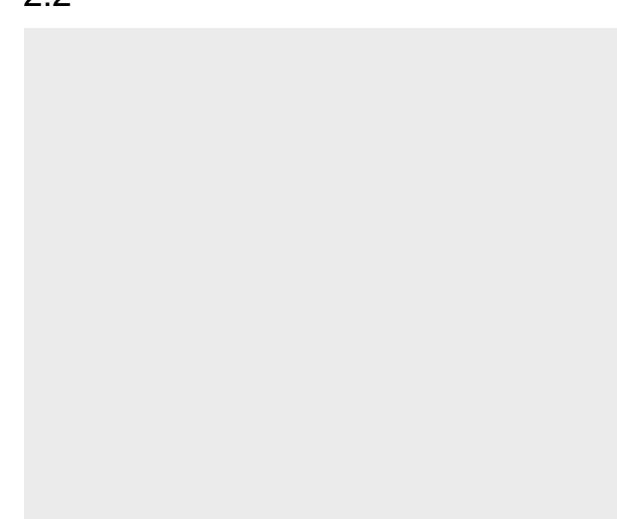
Cluster C1 C2 Tail

Cluster Bin 1 Bin 2

2:0

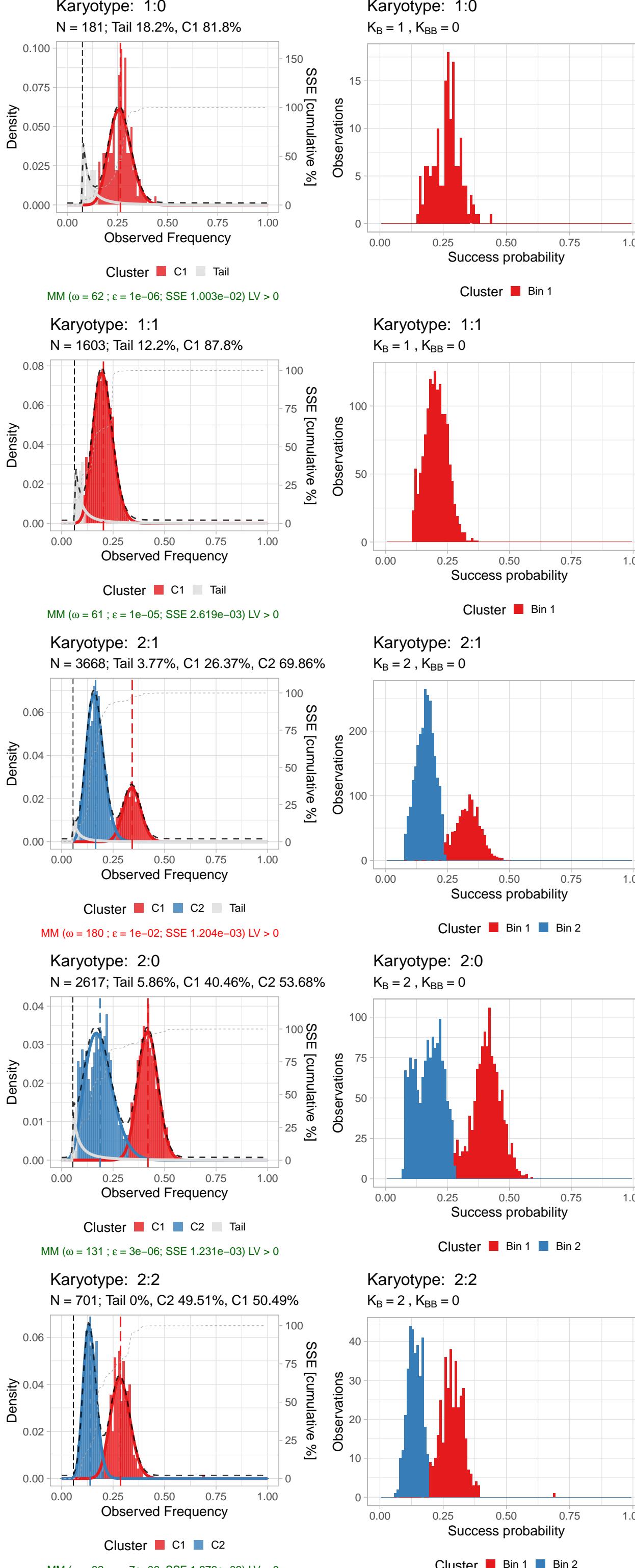


2:2



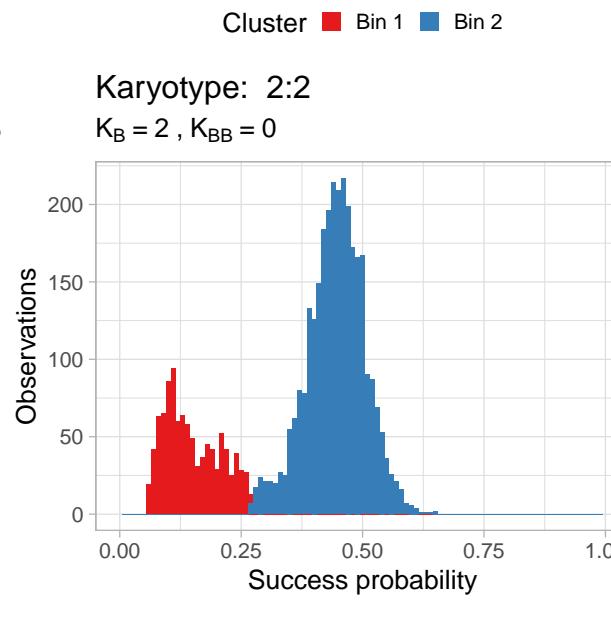
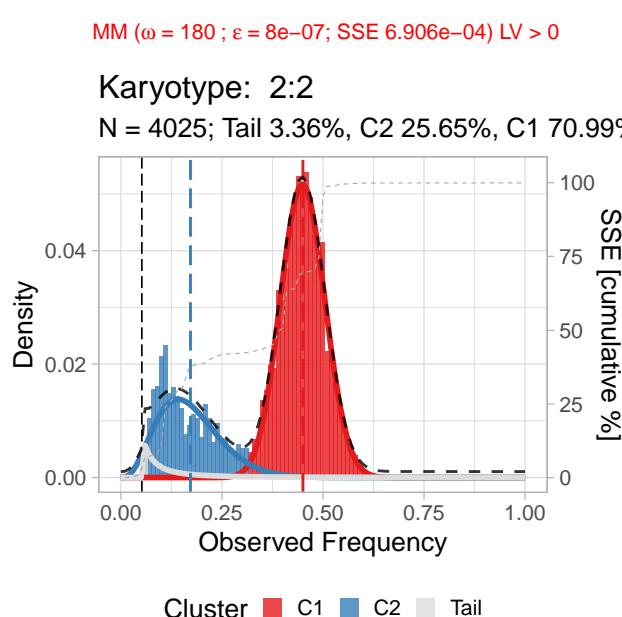
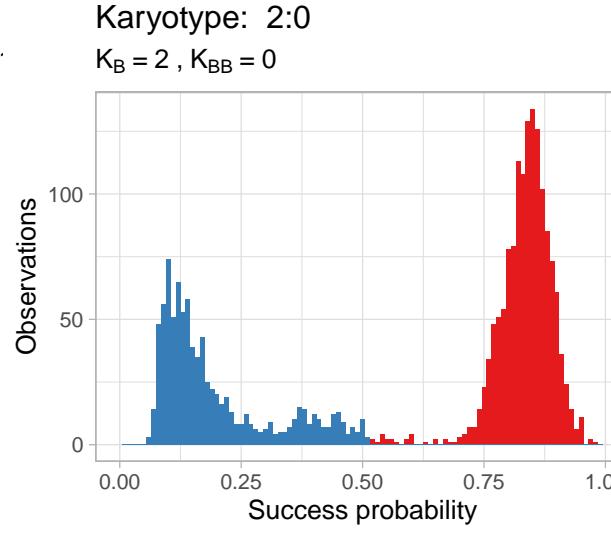
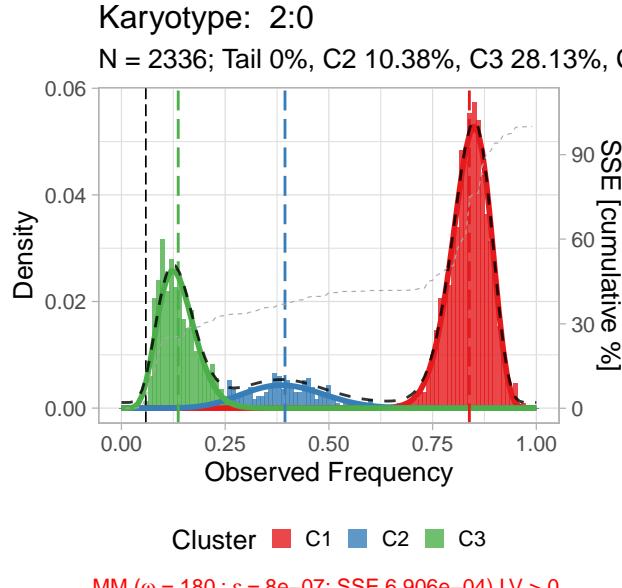
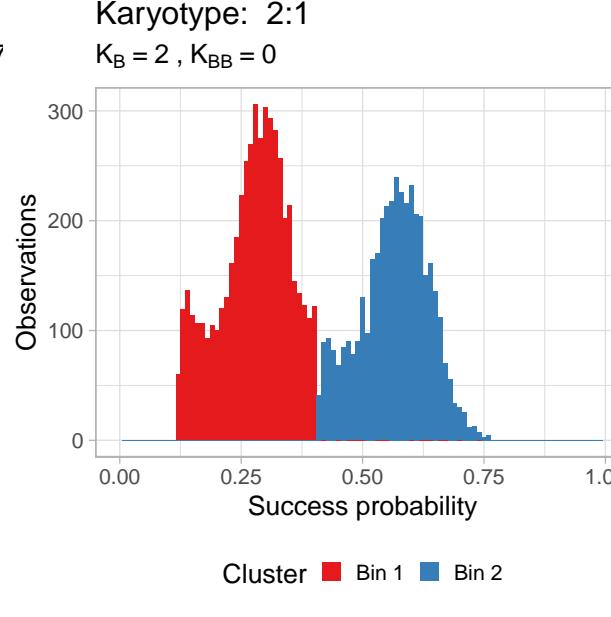
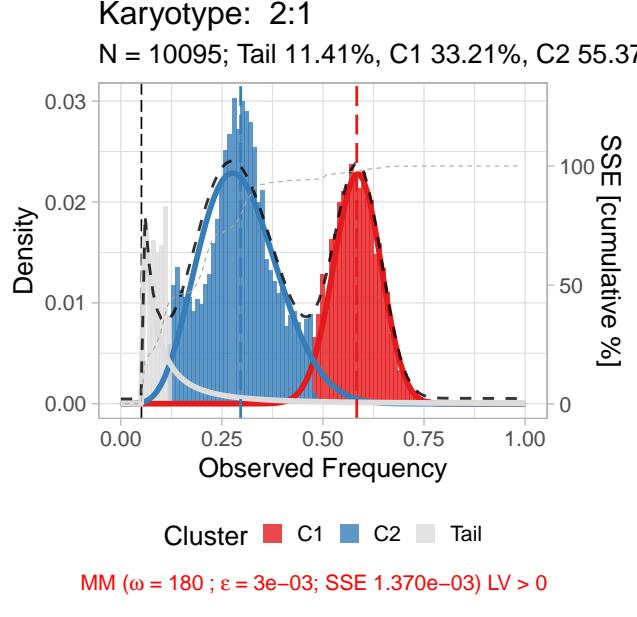
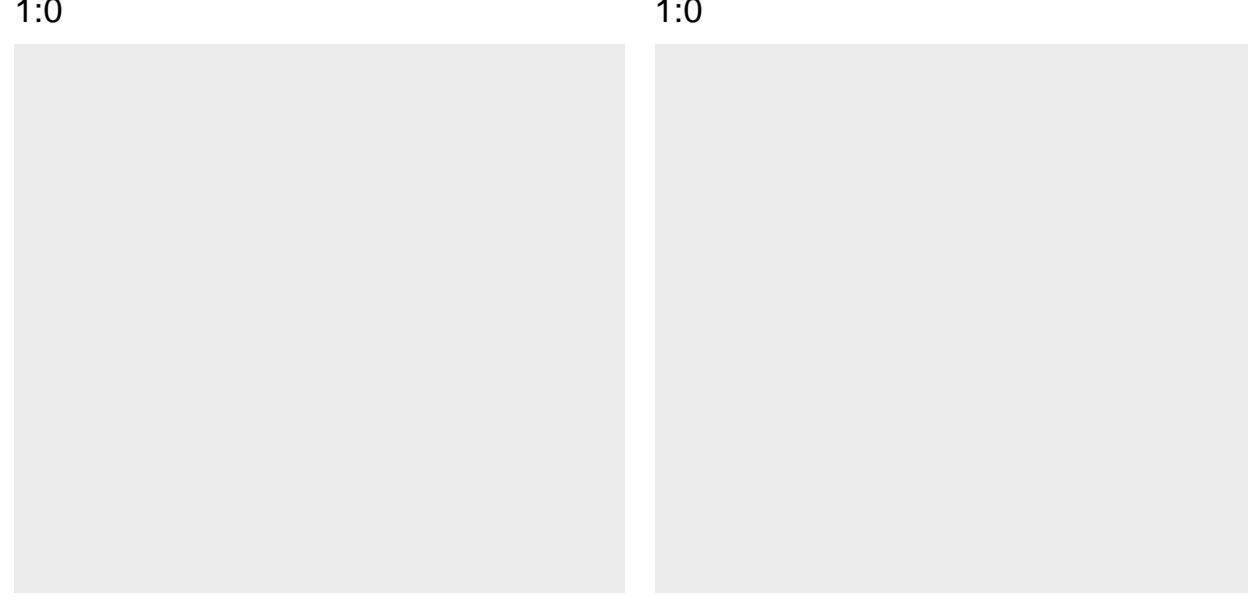
170911_HMFregCPCT_FR15410580_FR14001270_CPCT02030370

ONLY SNVs (min 150 – max 50000)



170913_HMFregCPCT_FR15410846_FR14001153_CPCT02070204

ONLY SNVs (min 150 – max 50000)

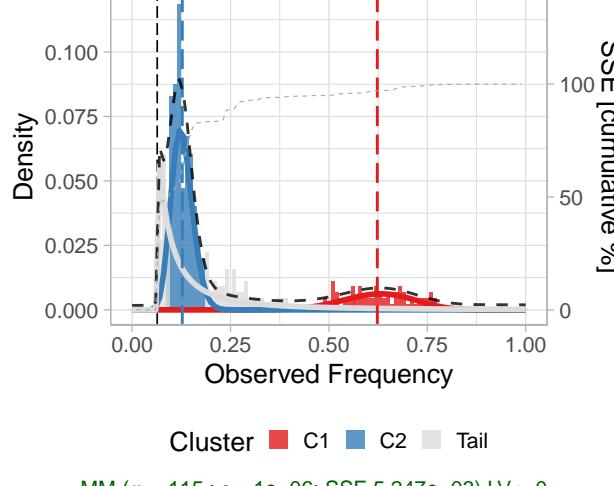


170929_HMFregCPCT_FR14001189_FR15412896_CPCT02020574

ONLY SNVs (min 150 – max 50000)

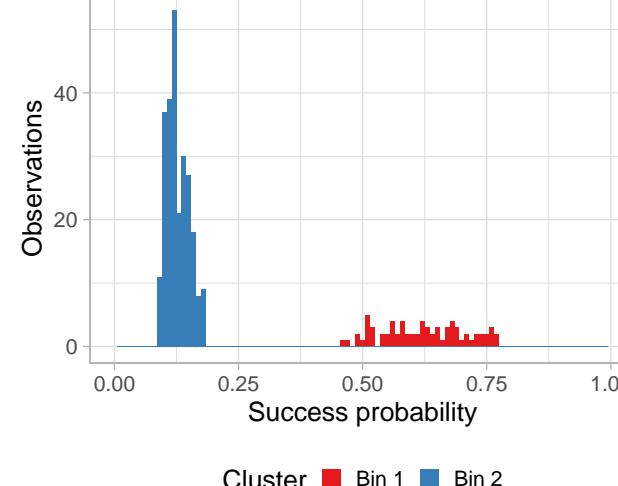
Karyotype: 1:0

N = 447; C1 14.03%, Tail 39.37%, C2 46.6%



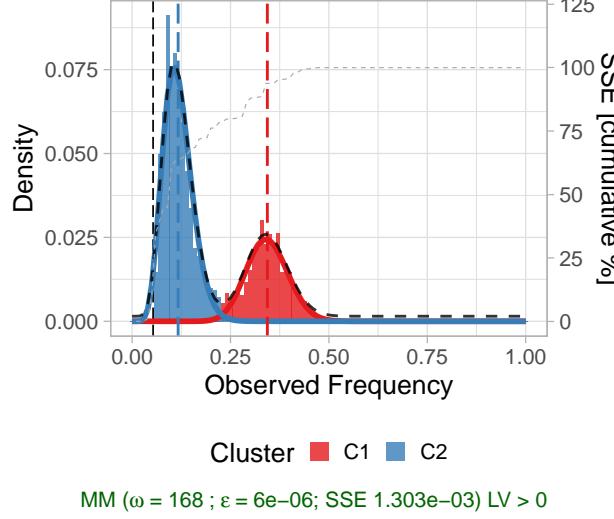
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



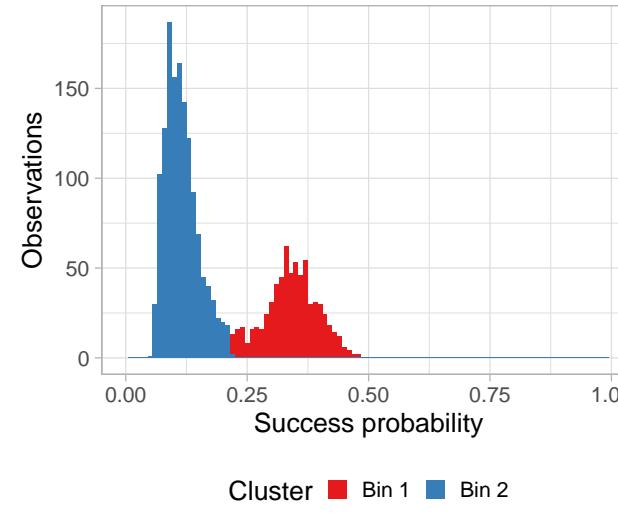
Karyotype: 1:1

N = 2052; Tail 0%, C1 32.21%, C2 67.79%



Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



2:1

2:1

2:0

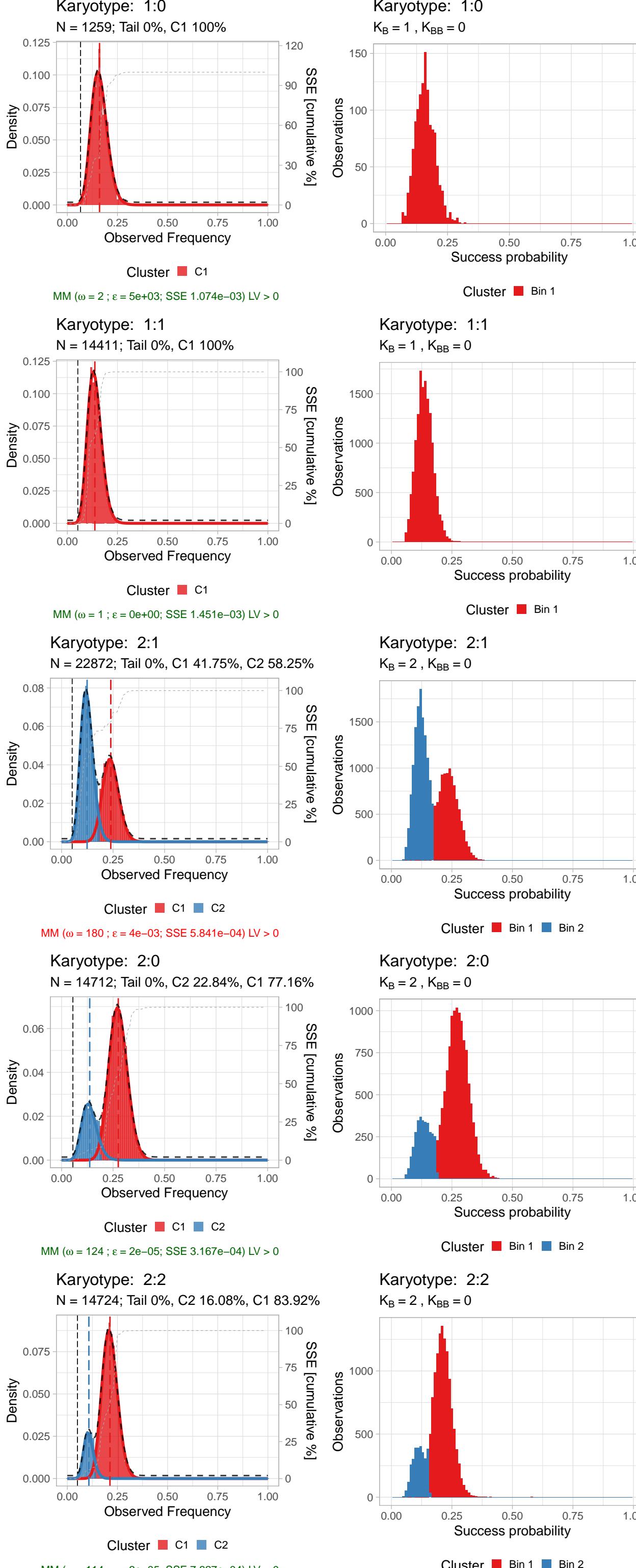
2:0

2:2

2:2

170929_HMFregCPCT_FR14001202_FR15412891_CPCT02080138

ONLY SNVs (min 150 – max 50000)

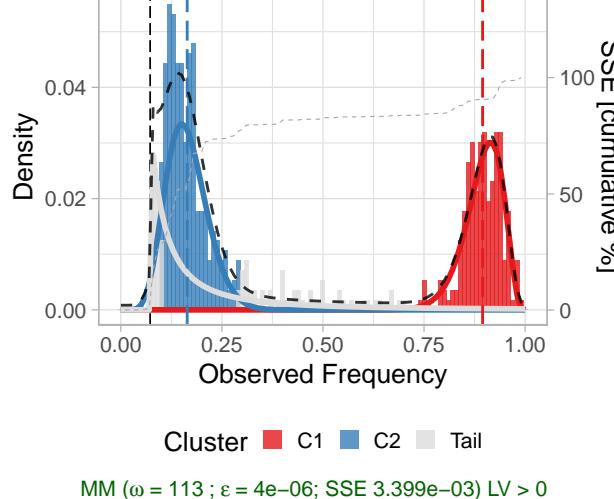


171006_HMFregCPCT_FR14001214_FR15412833_CPCT02050243

ONLY SNVs (min 150 – max 50000)

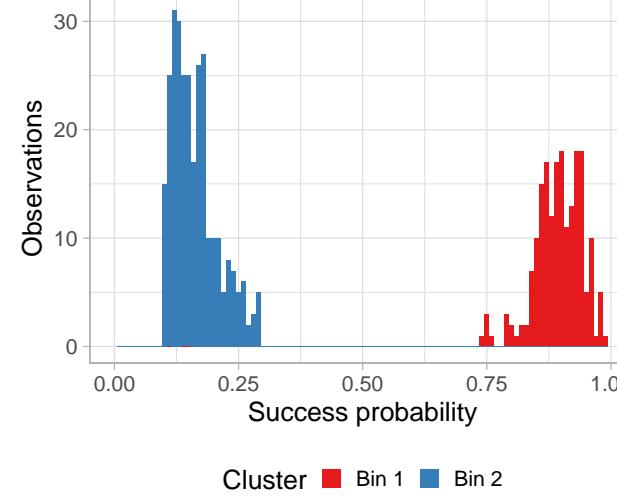
Karyotype: 1:0

N = 564; Tail 24.68%, C1 33.57%, C2 41.75%



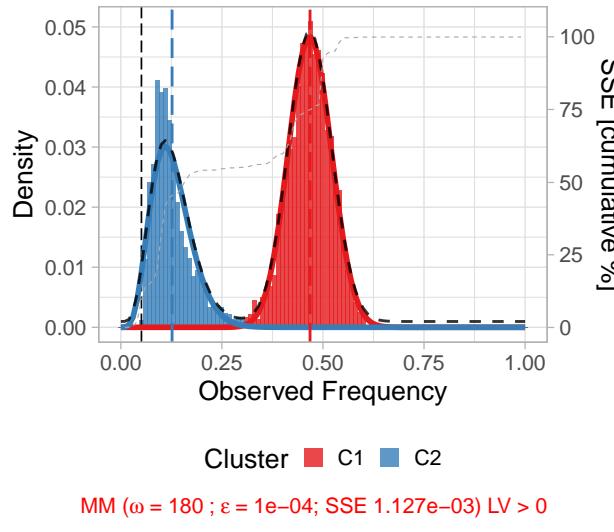
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



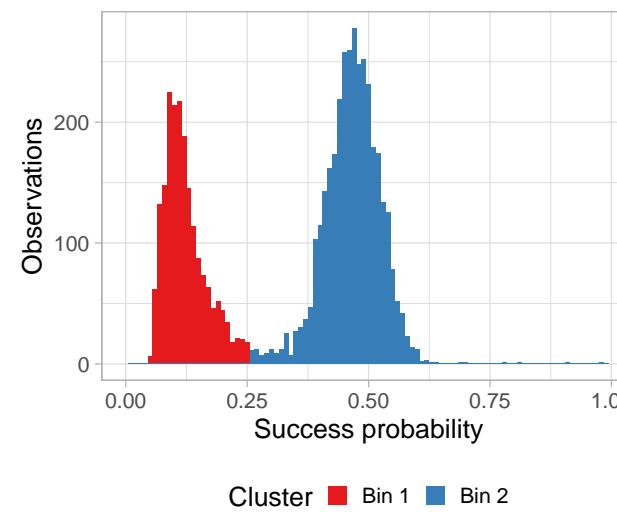
Karyotype: 1:1

N = 5461; Tail 0%, C2 35.5%, C1 64.5%



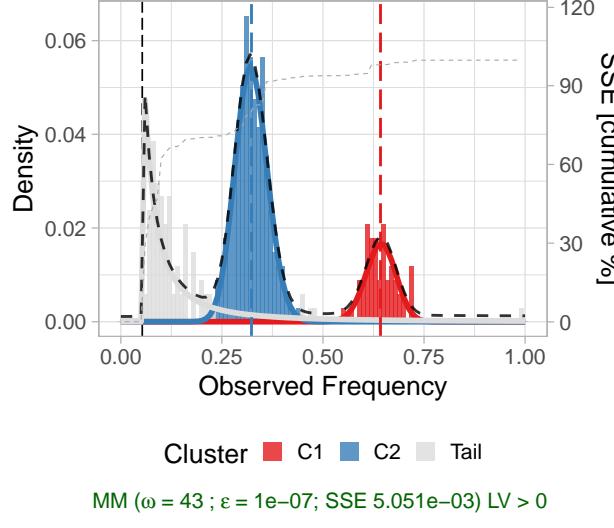
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



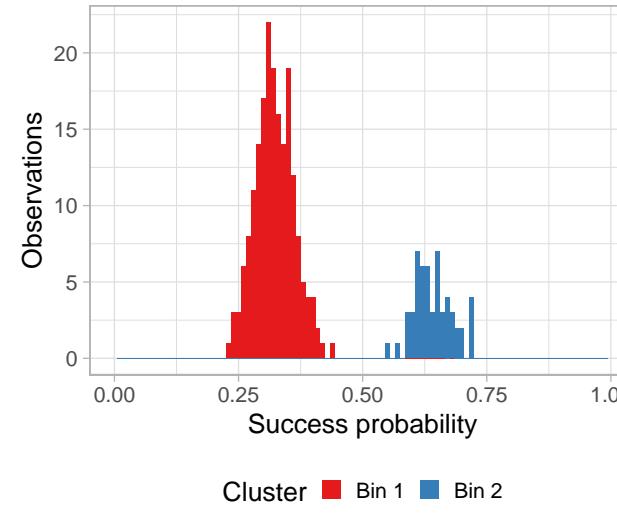
Karyotype: 2:1

N = 337; C1 15.56%, Tail 30.25%, C2 54.19%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

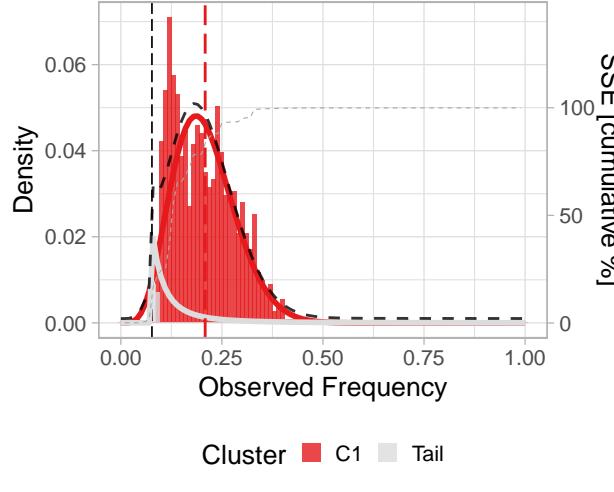
2:2

171006_HMFregCPCT_FR15413004_FR15413657_CPCT02010655

ONLY SNVs (min 150 – max 50000)

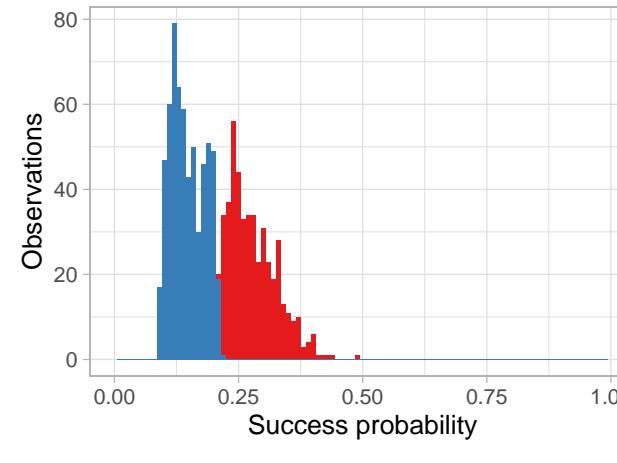
Karyotype: 1:0

N = 1112; Tail 9.25%, C1 90.75%



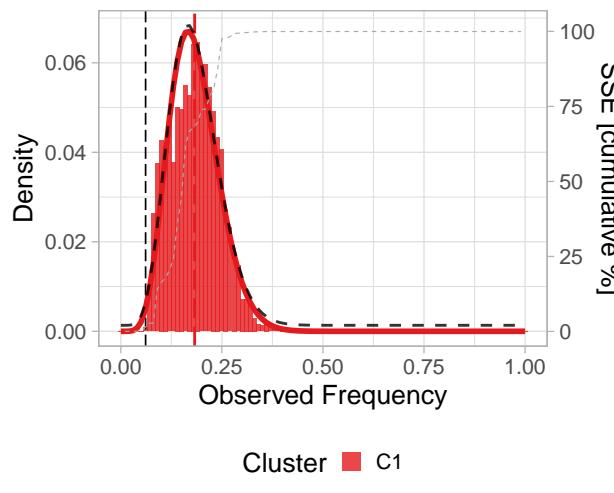
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



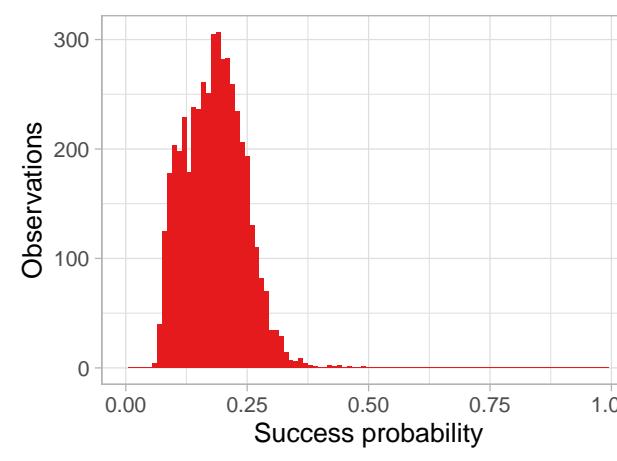
Karyotype: 1:1

N = 4750; Tail 0%, C1 100%



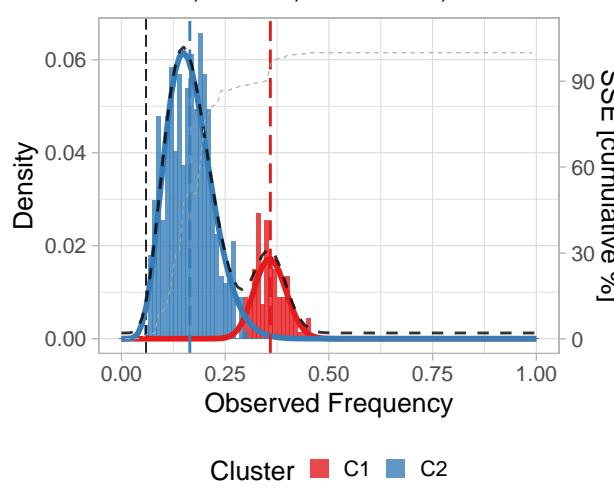
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



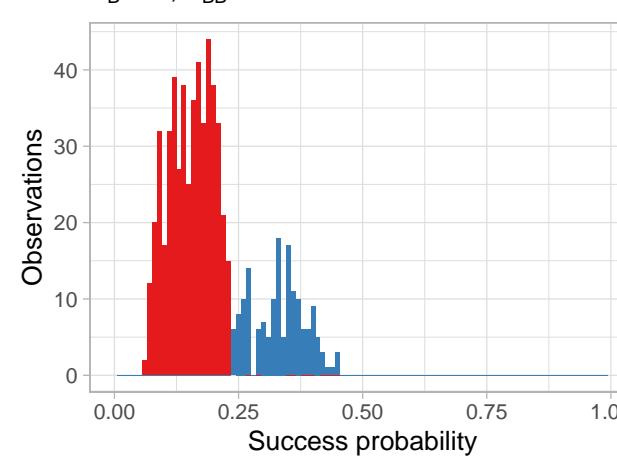
Karyotype: 2:1

N = 669; Tail 0%, C1 16.49%, C2 83.51%



Karyotype: 2:1

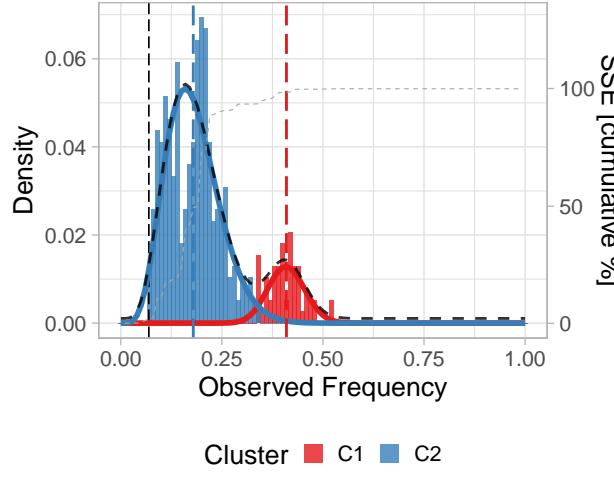
$K_B = 2, K_{BB} = 0$



MM ($\omega = 48$; $\varepsilon = 4e-07$; SSE $3.124e-03$) LV > 0

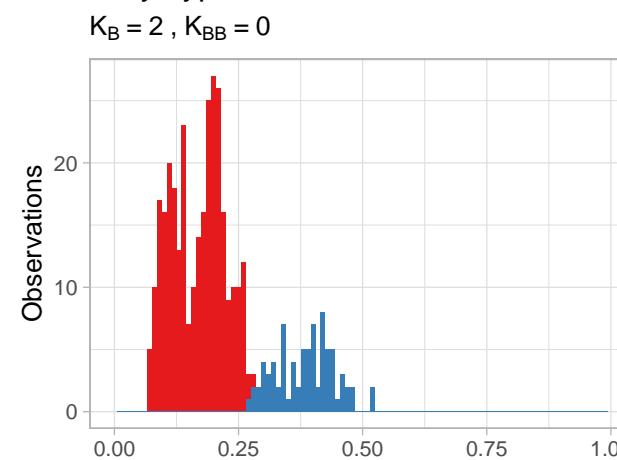
Karyotype: 2:0

N = 389; Tail 0%, C1 14.59%, C2 85.41%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



MM ($\omega = 67$; $\varepsilon = 2e-06$; SSE $7.053e-03$) LV > 0

2:2

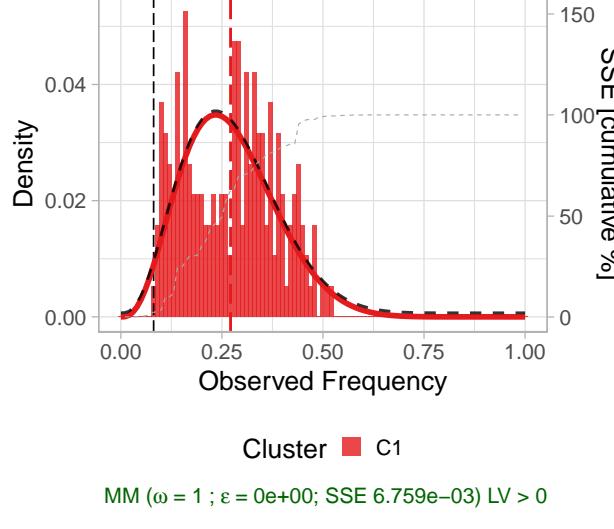


2:2

171009_HMFregCPCT_FR15410583_FR15413631_CPCT02020586

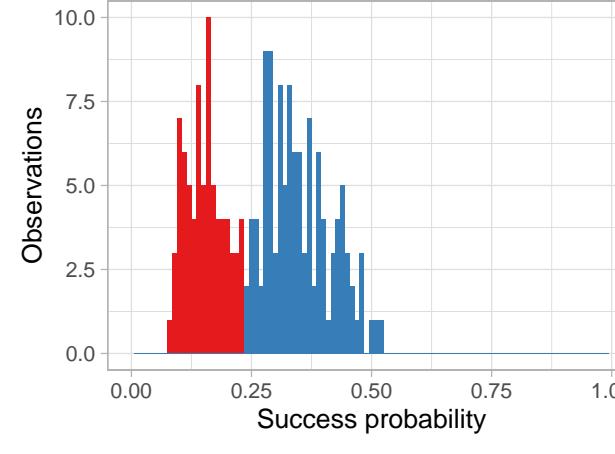
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 190; Tail 0%, C1 100%

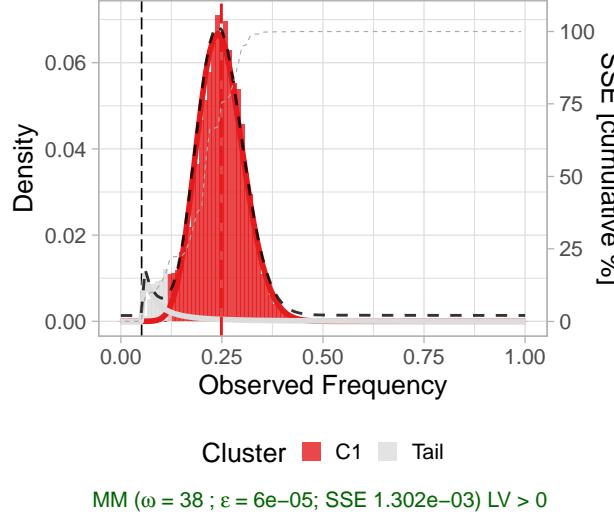


Karyotype: 1:0

$K_B = 2, K_{BB} = 0$

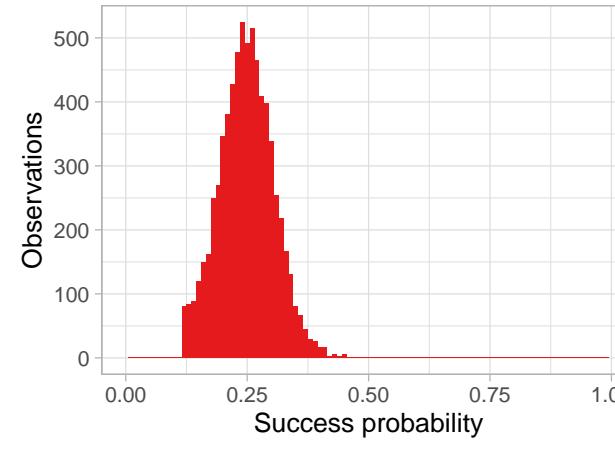


Karyotype: 1:1
N = 7399; Tail 6.17%, C1 93.83%

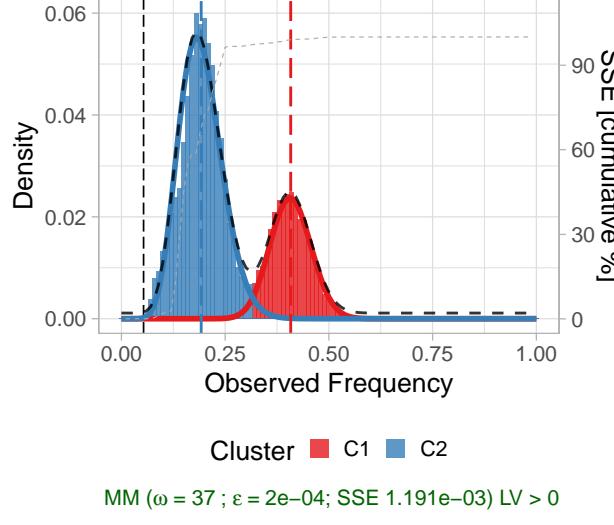


Karyotype: 1:1

$K_B = 1, K_{BB} = 0$

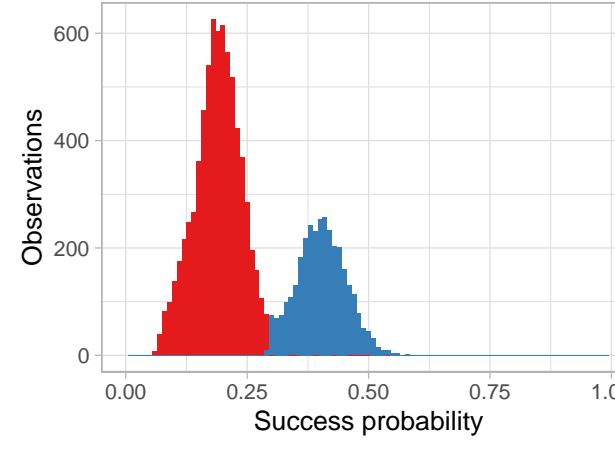


Karyotype: 2:1
N = 10427; Tail 0%, C1 29.28%, C2 70.72%

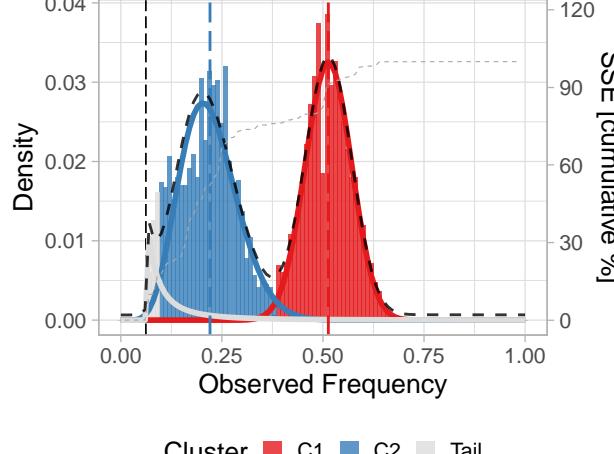


Karyotype: 2:1

$K_B = 2, K_{BB} = 0$

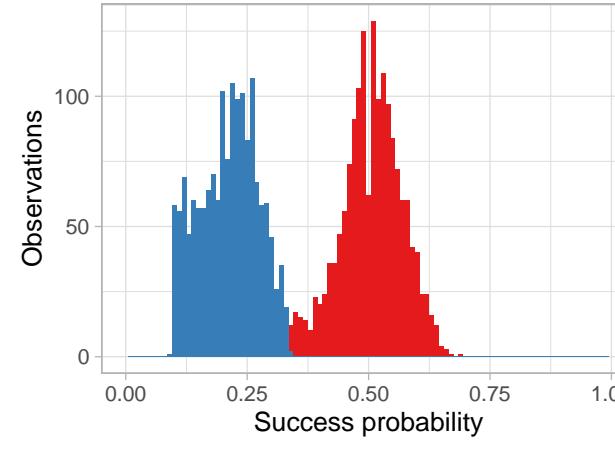


Karyotype: 2:0
N = 3346; Tail 5.8%, C1 46.35%, C2 47.85%

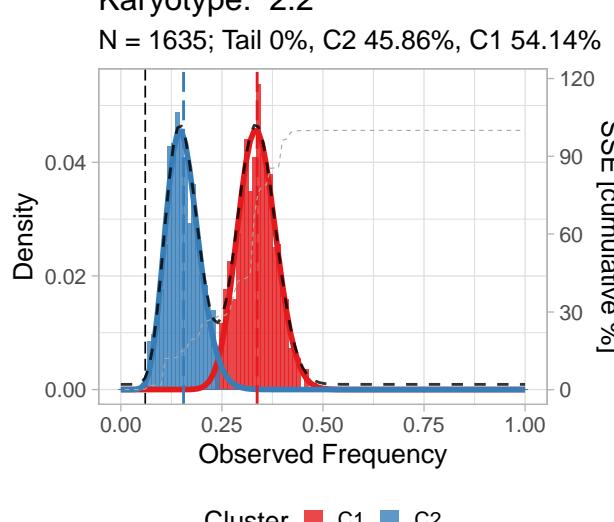


Karyotype: 2:0

$K_B = 2, K_{BB} = 0$

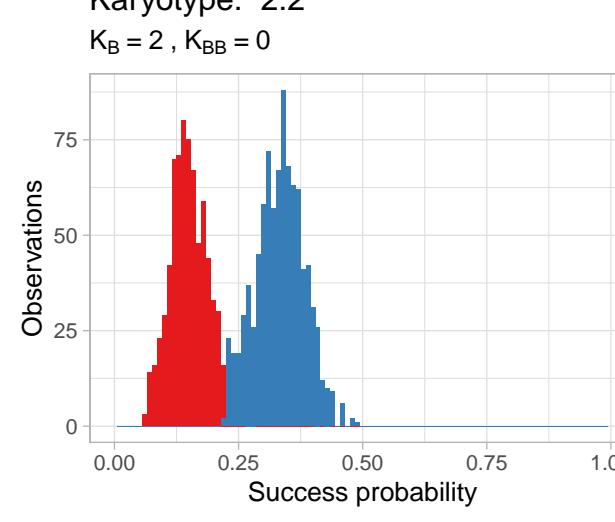


Karyotype: 2:2
N = 1635; Tail 0%, C2 45.86%, C1 54.14%



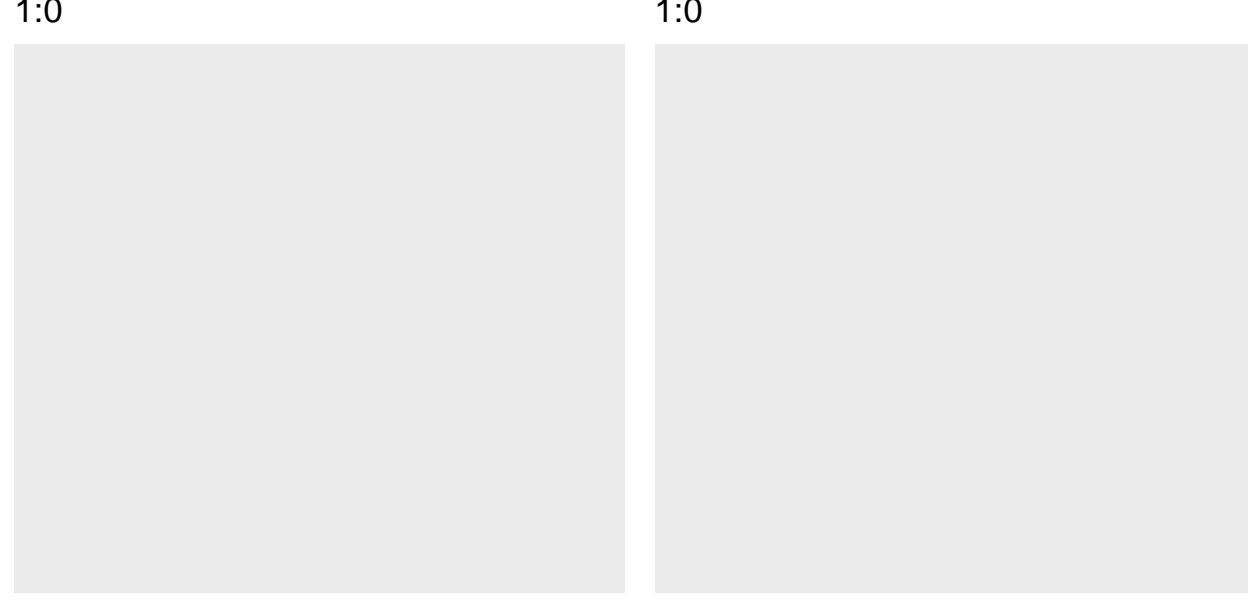
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

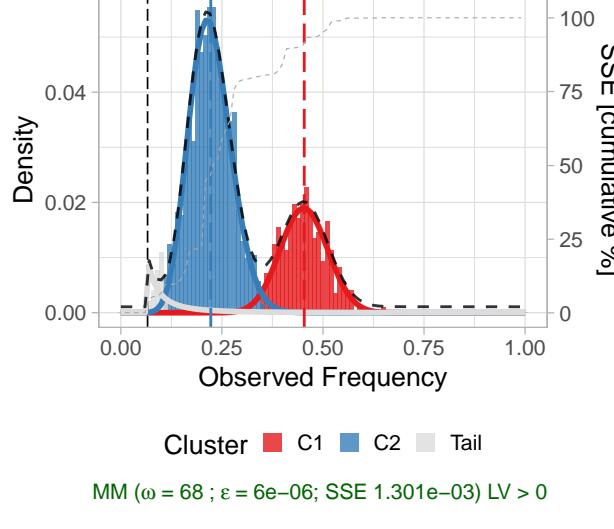


171013_HMFregCPCT_FR15413735_FR15414262_CPCT02070218

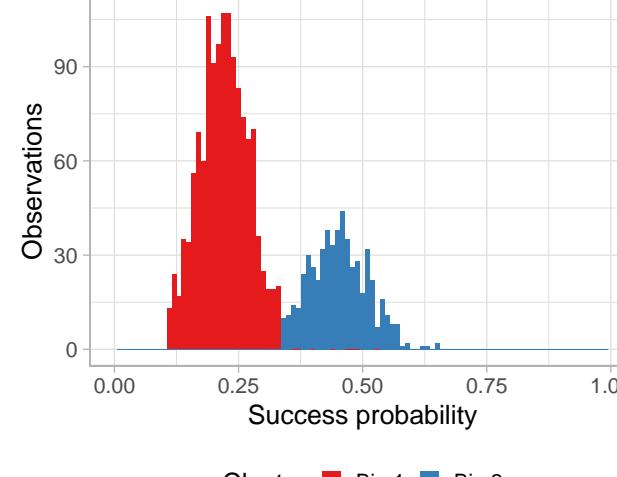
ONLY SNVs (min 150 – max 50000)



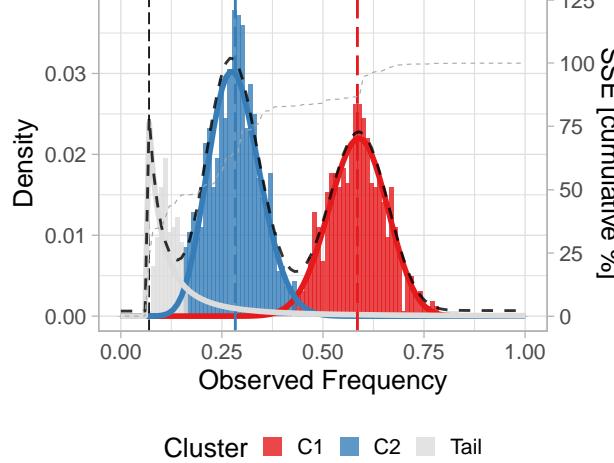
Karyotype: 2:1
N = 1929; Tail 4.02%, C1 27.75%, C2 68.23%



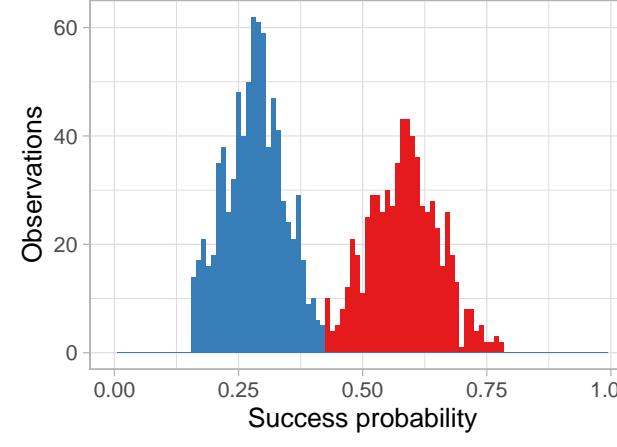
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



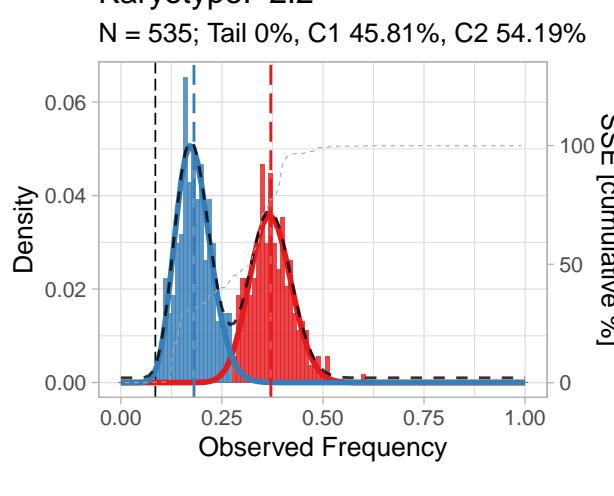
Karyotype: 2:0
N = 1640; Tail 12.8%, C1 39.55%, C2 47.65%



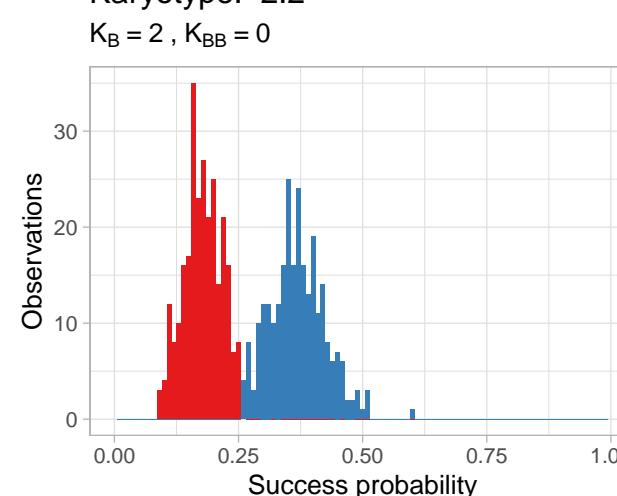
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 535; Tail 0%, C1 45.81%, C2 54.19%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

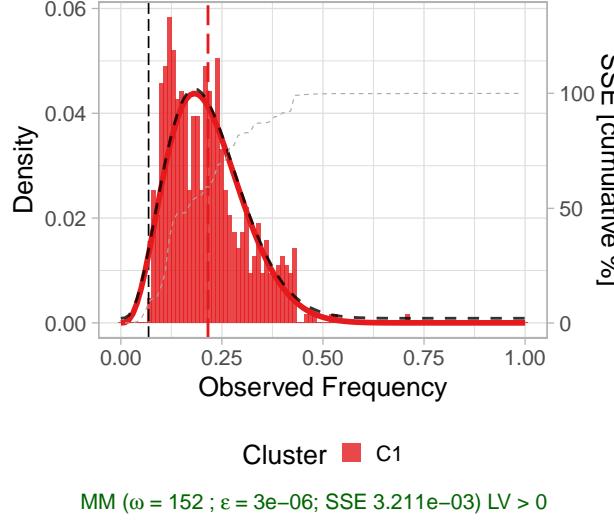


171104_HMFregCPCT_FR12246236_FR15411955_CPCT02060108

ONLY SNVs (min 150 – max 50000)

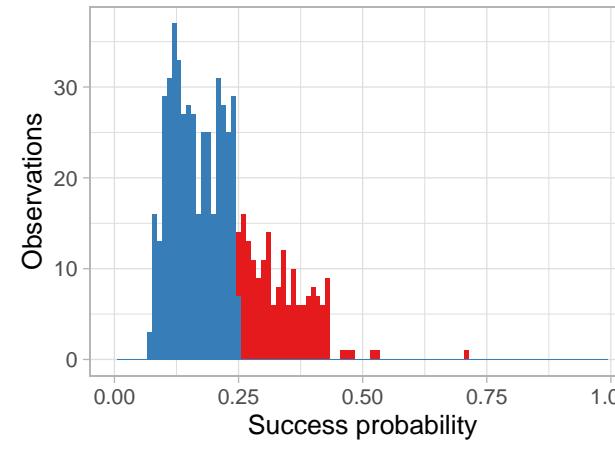
Karyotype: 1:0

N = 634; Tail 0%, C1 100%



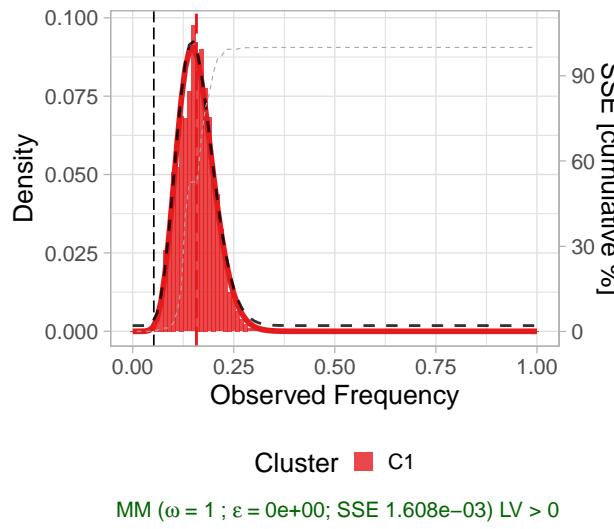
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



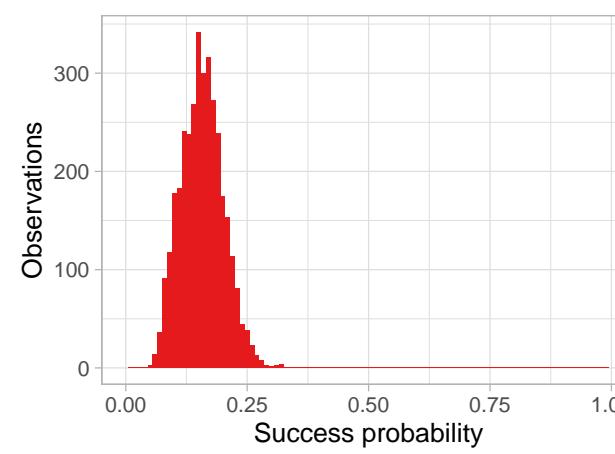
Karyotype: 1:1

N = 3506; Tail 0%, C1 100%



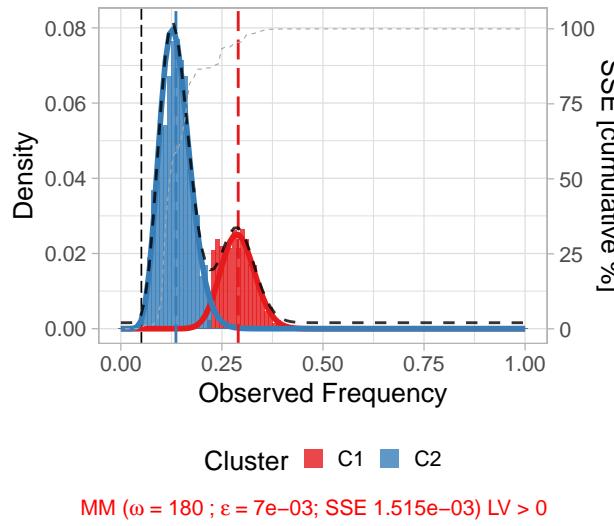
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



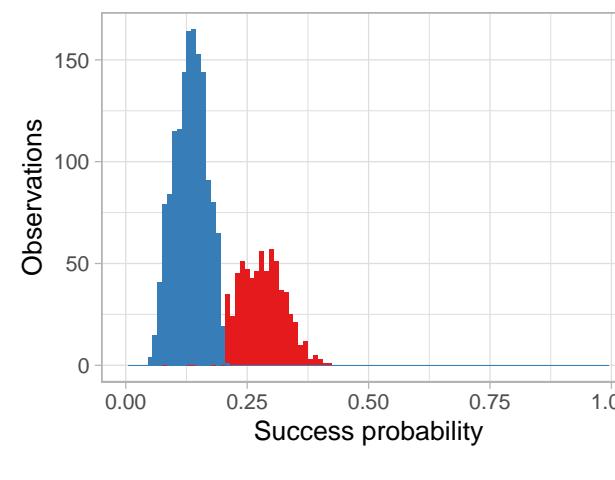
Karyotype: 2:1

N = 2146; Tail 0%, C1 26.28%, C2 73.72%



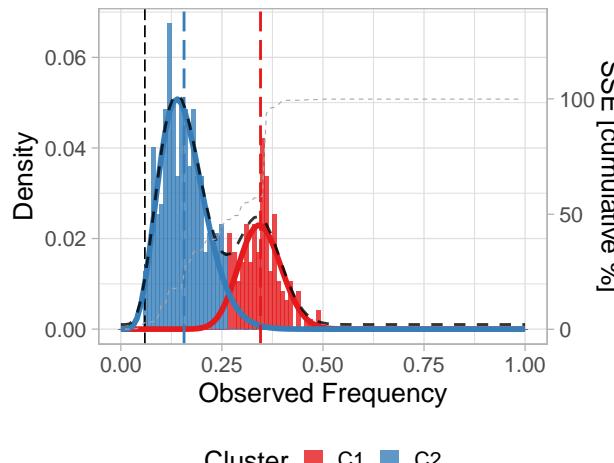
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



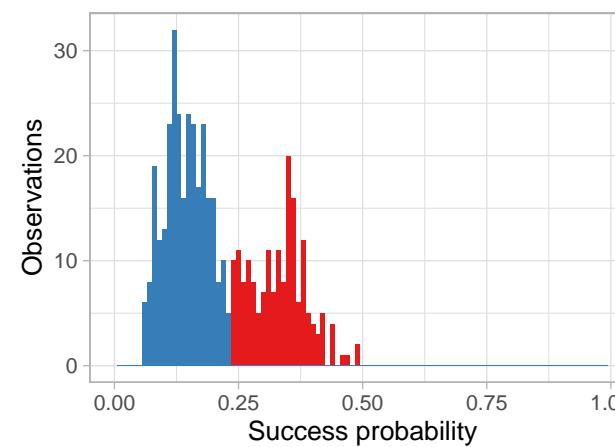
Karyotype: 2:0

N = 474; Tail 0%, C1 29.98%, C2 70.02%



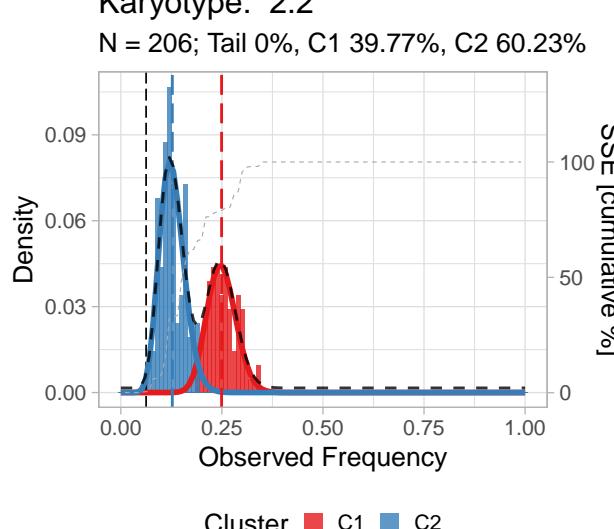
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



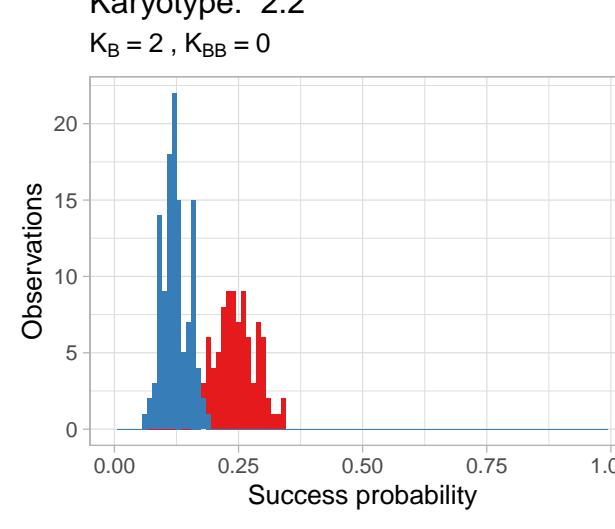
Karyotype: 2:2

N = 206; Tail 0%, C1 39.77%, C2 60.23%



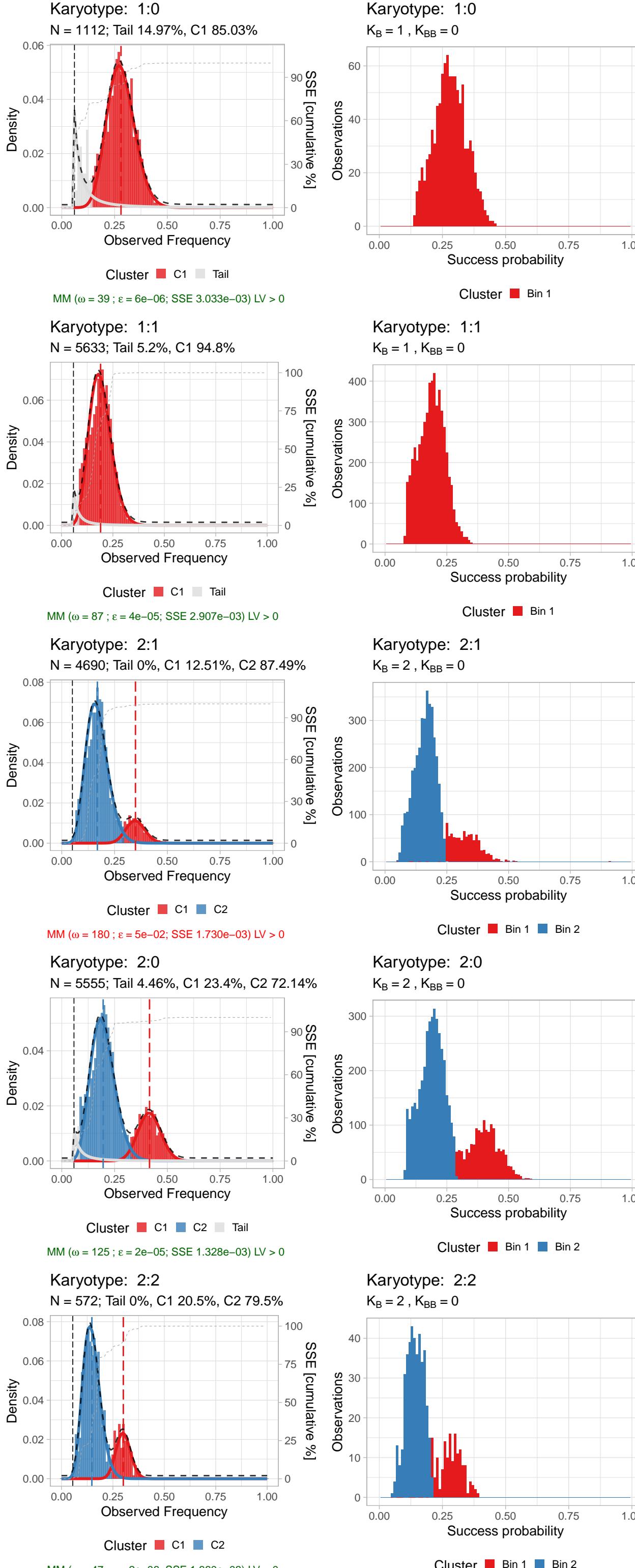
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



171106_HMFregCPCT_FR15414602_FR11442776_CPCT02070237

ONLY SNVs (min 150 – max 50000)

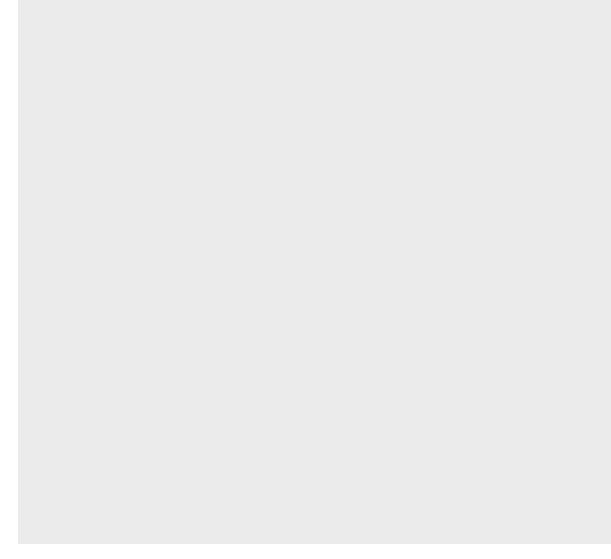
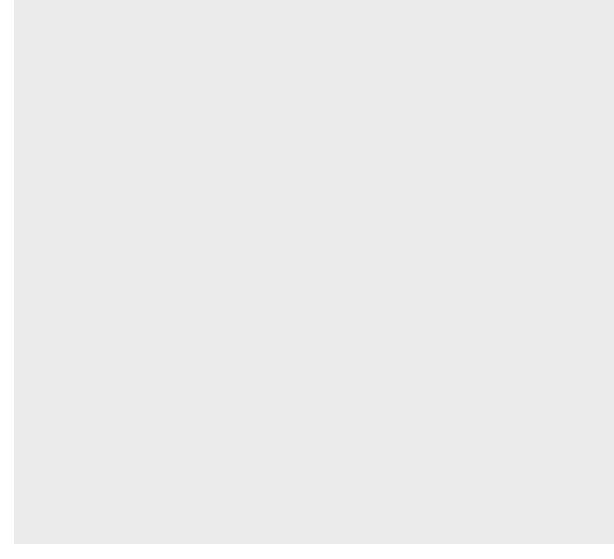


171109_HMFregCPCT_FR15411846_FR14000111_CPCT02050276

ONLY SNVs (min 150 – max 50000)

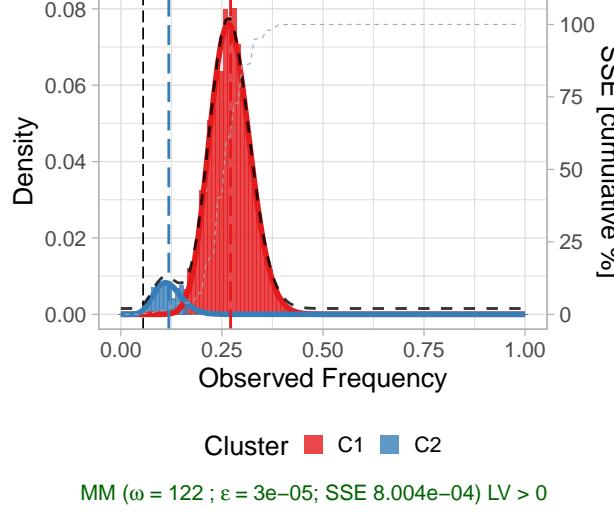
1:0

1:0



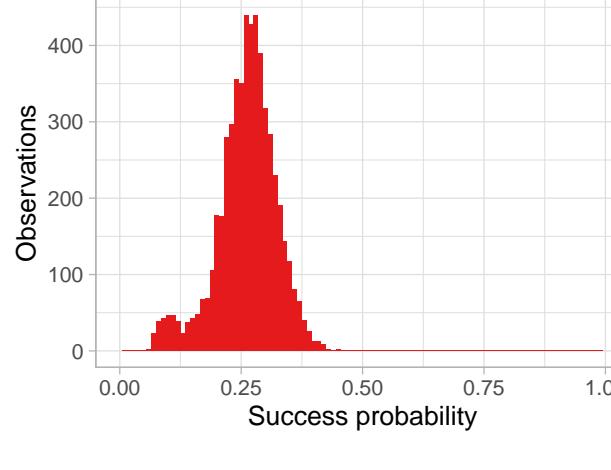
Karyotype: 1:1

N = 5494; Tail 0%, C2 6.88%, C1 93.12%



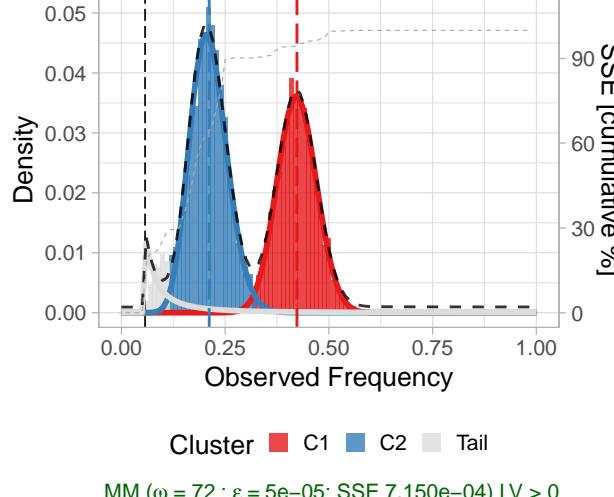
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



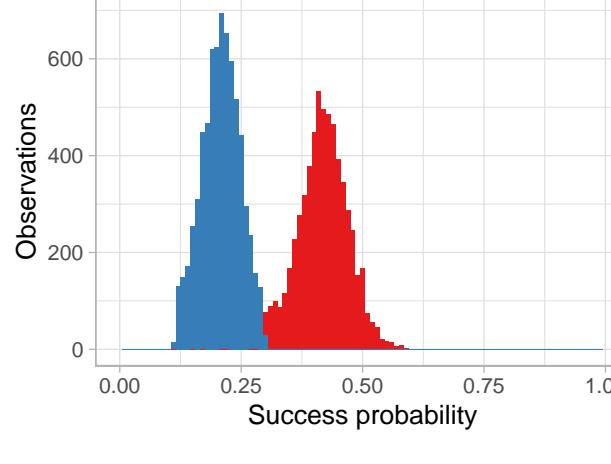
Karyotype: 2:1

N = 13604; Tail 5.69%, C1 42.85%, C2 51.46%



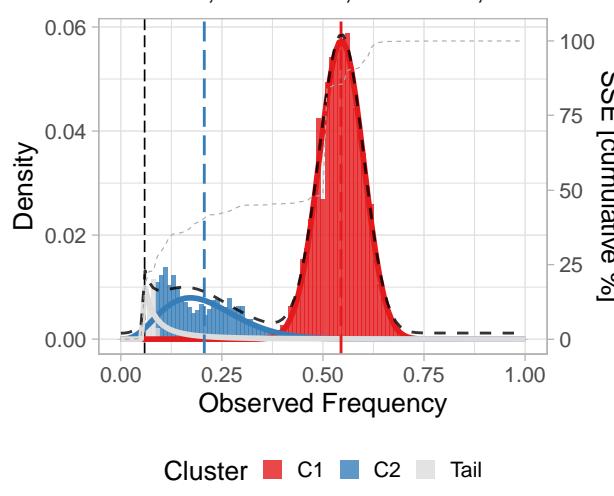
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



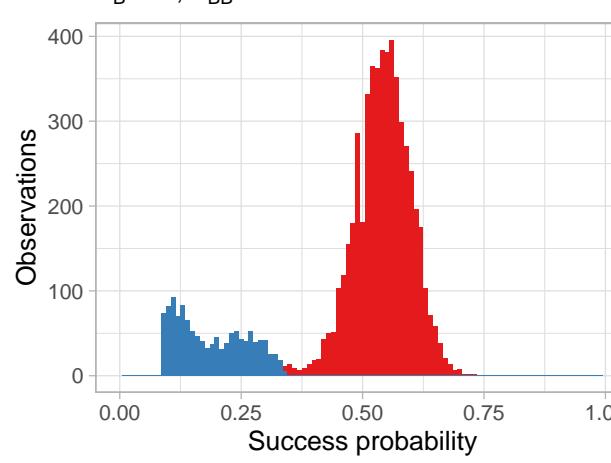
Karyotype: 2:0

N = 6736; Tail 4.45%, C2 17.7%, C1 77.85%



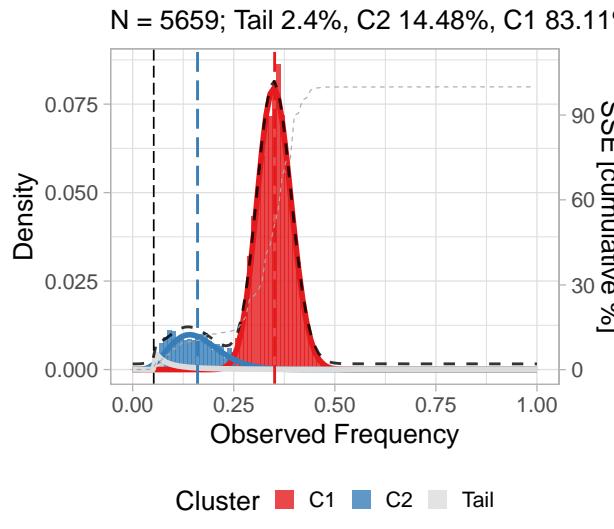
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



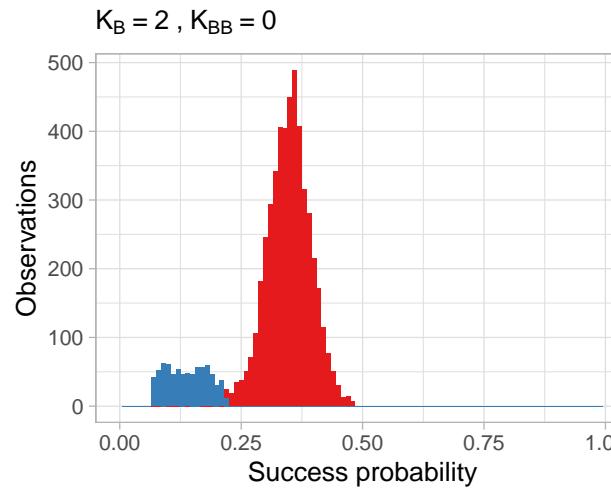
Karyotype: 2:2

N = 5659; Tail 2.4%, C2 14.48%, C1 83.11%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

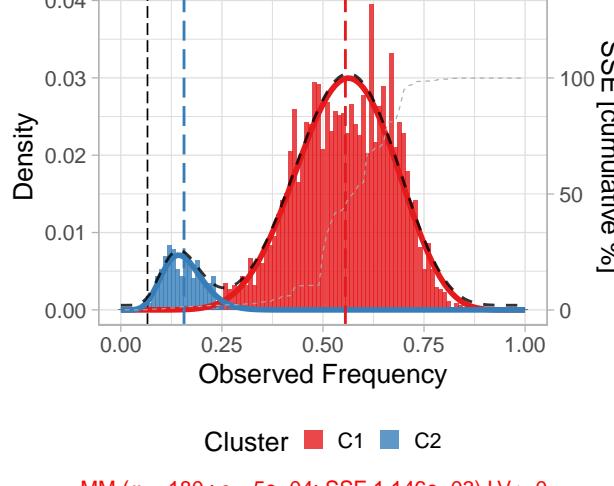


171112_HMFregCPCT_FR15414296_FR13999999_CPCT02020615

ONLY SNVs (min 150 – max 50000)

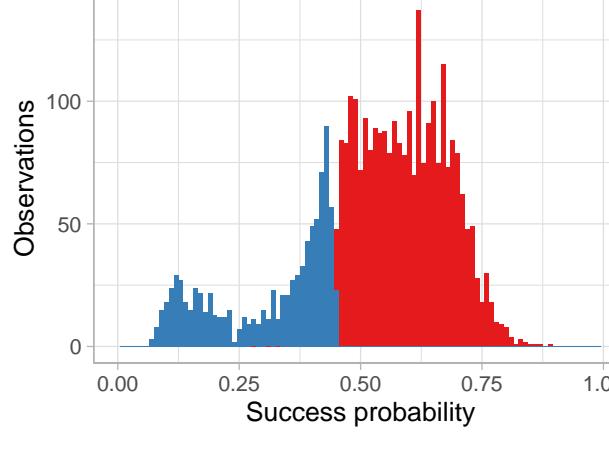
Karyotype: 1:0

N = 3465; Tail 0%, C2 8.62%, C1 91.38%



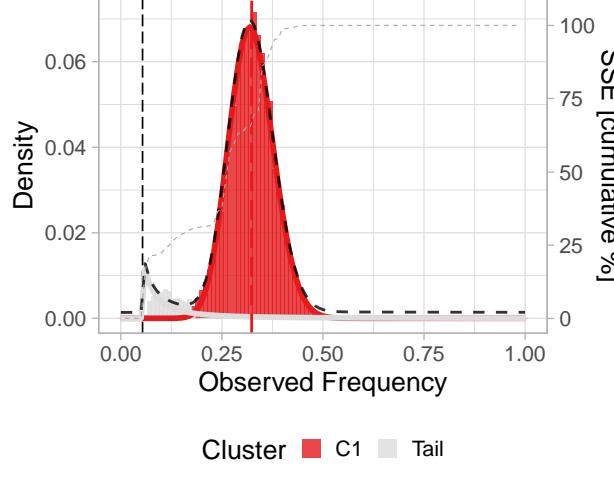
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



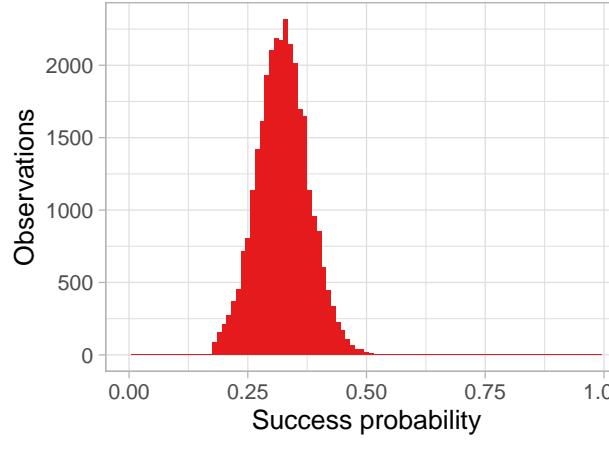
Karyotype: 1:1

N = 32441; Tail 7.2%, C1 92.8%



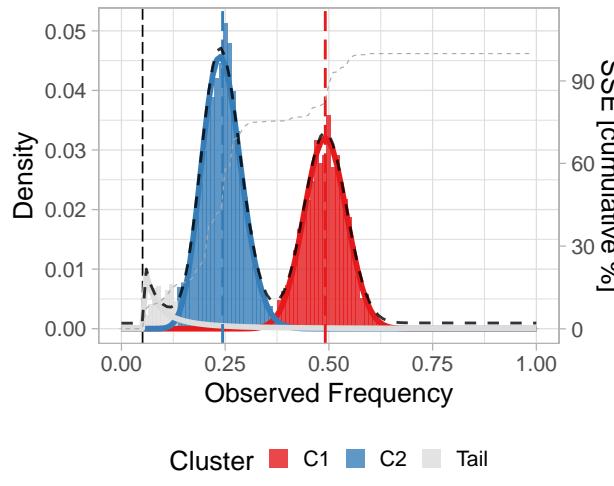
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



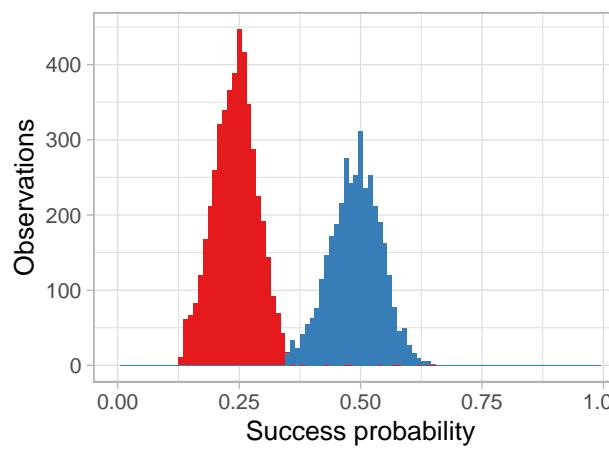
Karyotype: 2:1

N = 8708; Tail 5.93%, C1 40.69%, C2 53.39%



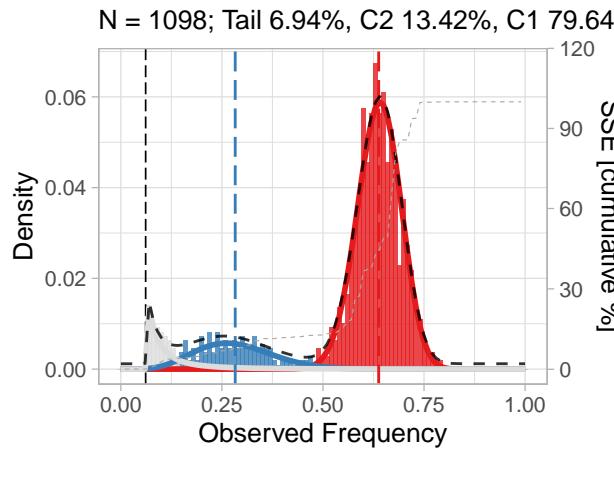
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



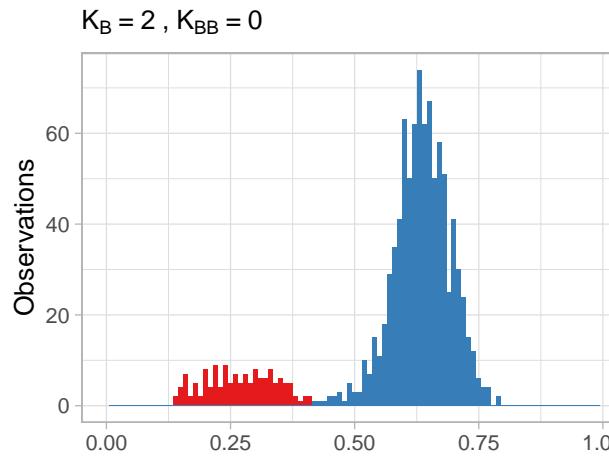
Karyotype: 2:0

N = 1098; Tail 6.94%, C2 13.42%, C1 79.64%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

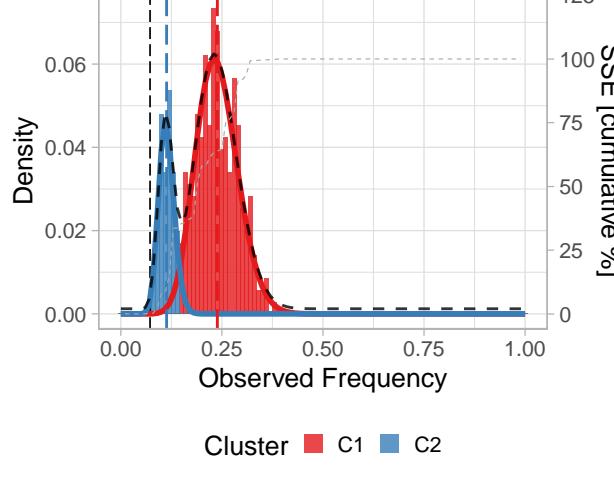
2:2

171122_HMFregCPCT_FR14000122_FR15411943_CPCT02060138

ONLY SNVs (min 150 – max 50000)

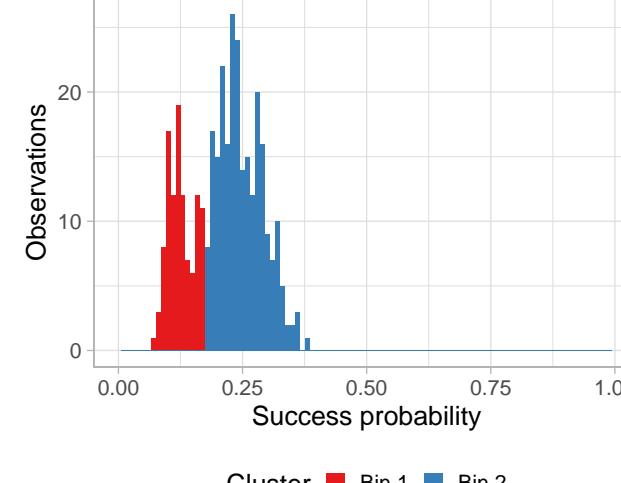
Karyotype: 1:0

N = 354; Tail 0%, C2 21.68%, C1 78.32%



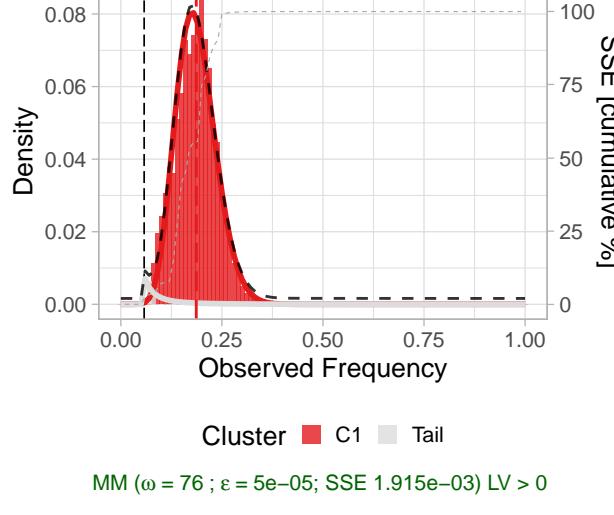
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



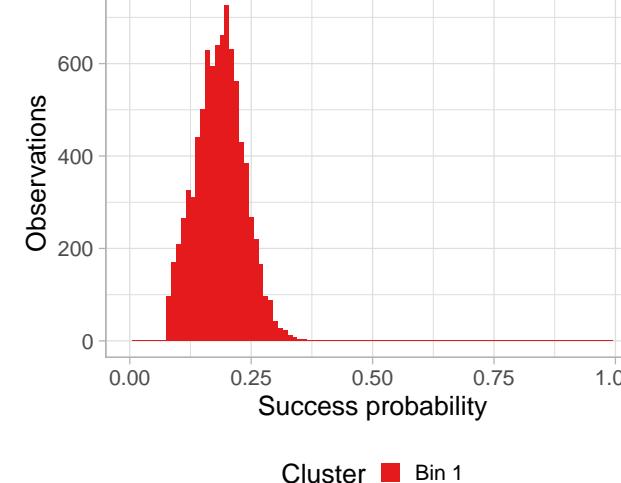
Karyotype: 1:1

N = 8627; Tail 2.69%, C1 97.31%



Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



2:1

2:1

2:0

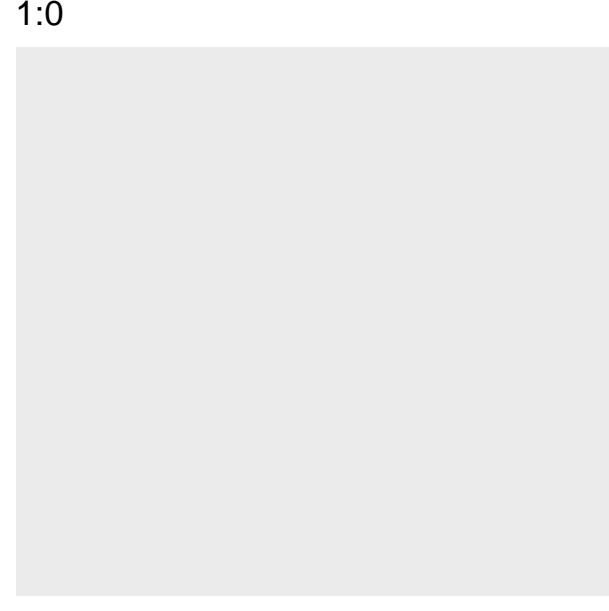
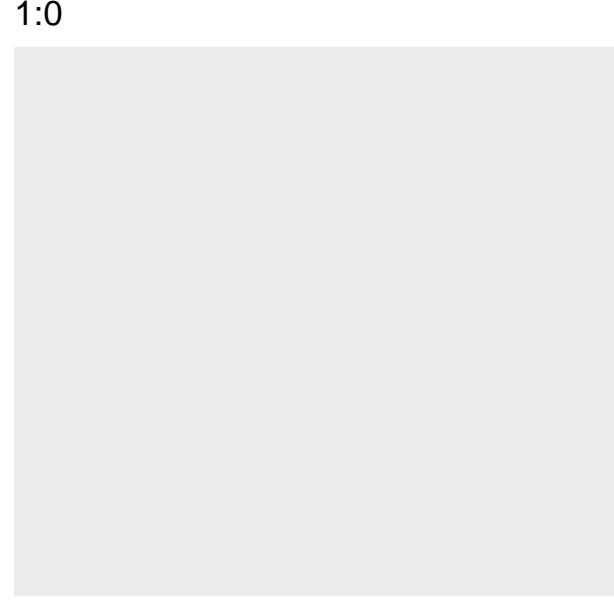
2:0

2:2

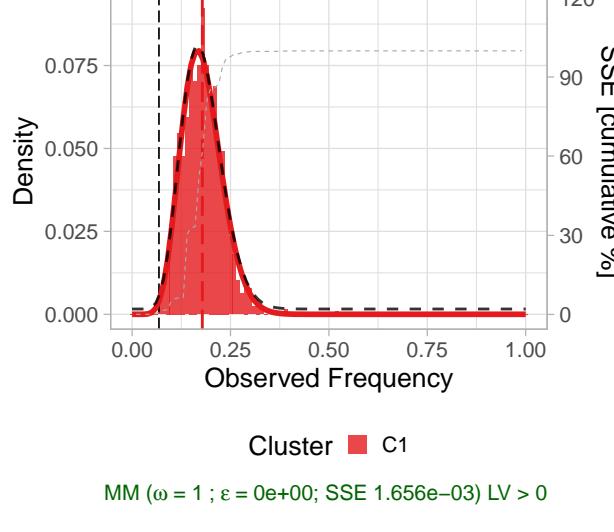
2:2

171123_HMFregCPCT_FR15411903_FR14000240_CPCT02020632

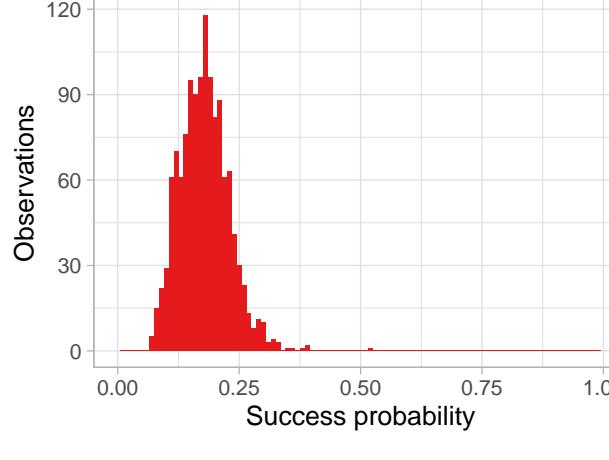
ONLY SNVs (min 150 – max 50000)



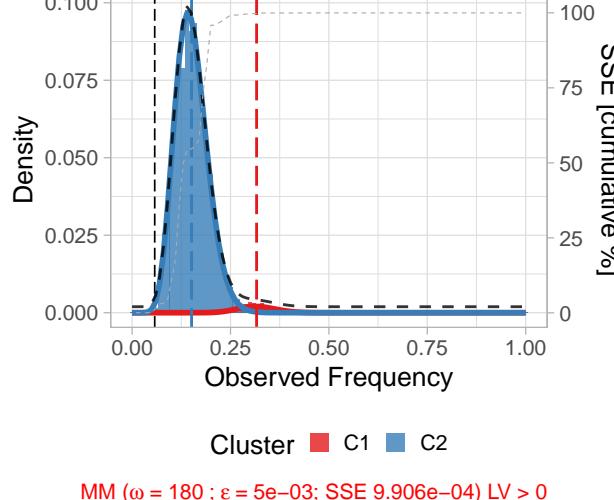
Karyotype: 1:1
N = 1280; Tail 0%, C1 100%



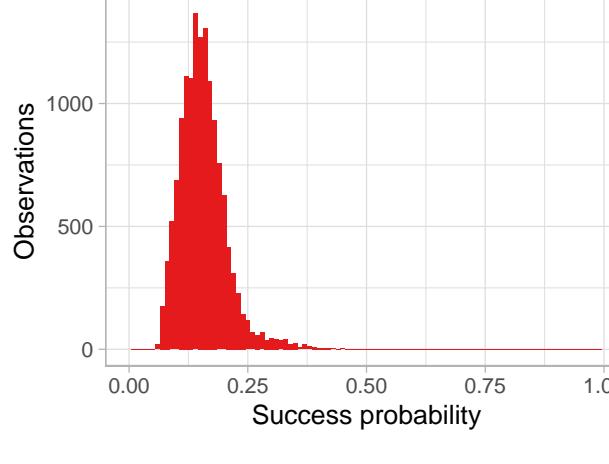
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



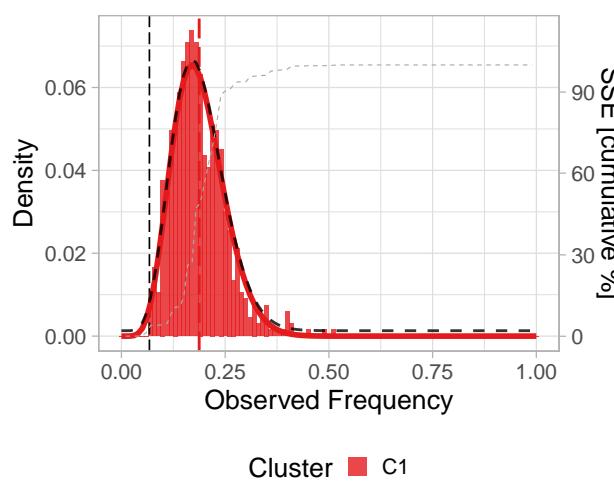
Karyotype: 2:1
N = 14011; Tail 0%, C1 2.4%, C2 97.6%



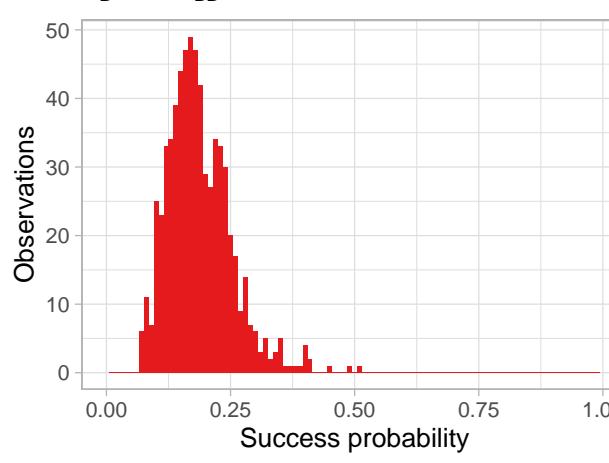
Karyotype: 2:1
 $K_B = 1$, $K_{BB} = 0$



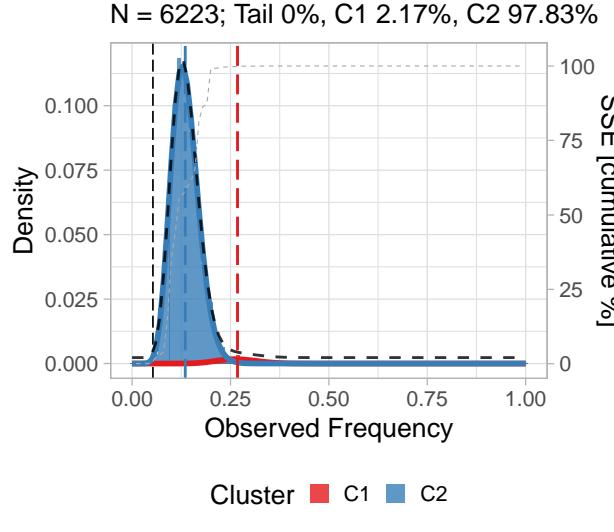
Karyotype: 2:0
N = 664; Tail 0%, C1 100%



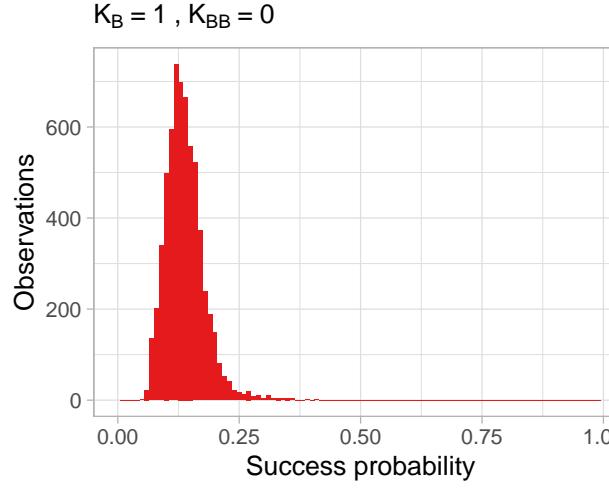
Karyotype: 2:0
 $K_B = 1$, $K_{BB} = 0$



Karyotype: 2:2
N = 6223; Tail 0%, C1 2.17%, C2 97.83%



Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

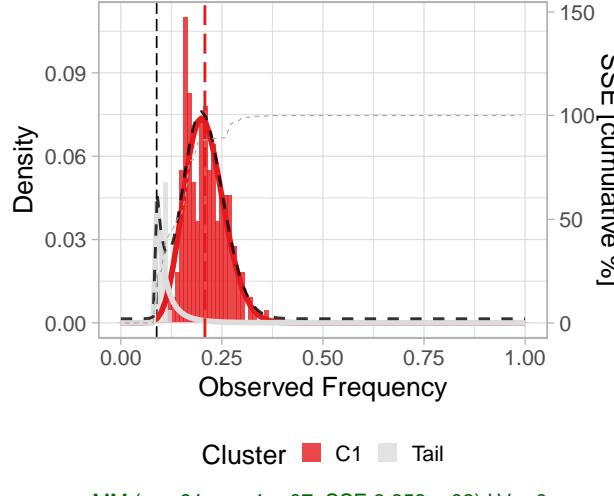


171127_HMFregCPCT_FR15414290_FR14000237_CPCT02010665

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

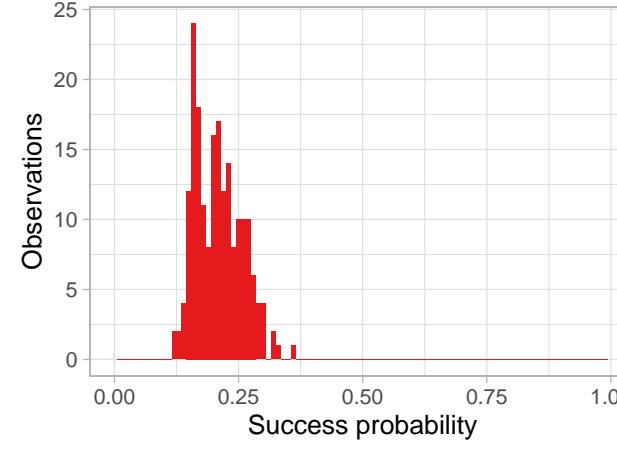
N = 218; Tail 10.81%, C1 89.19%



MM ($\omega = 91$; $\epsilon = 1e-07$; SSE 6.658e-03) LV > 0

Karyotype: 1:0

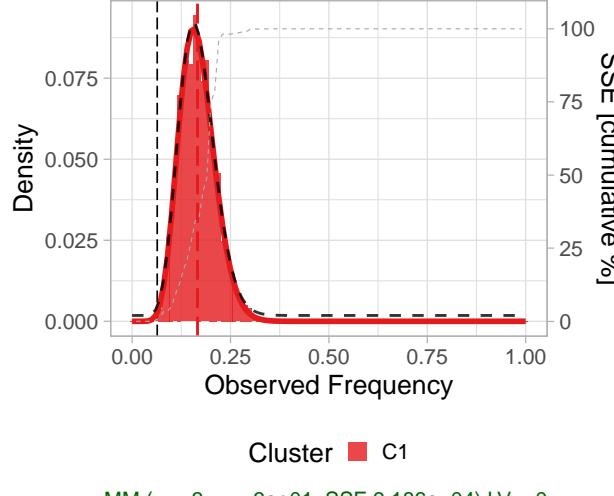
$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 1:1

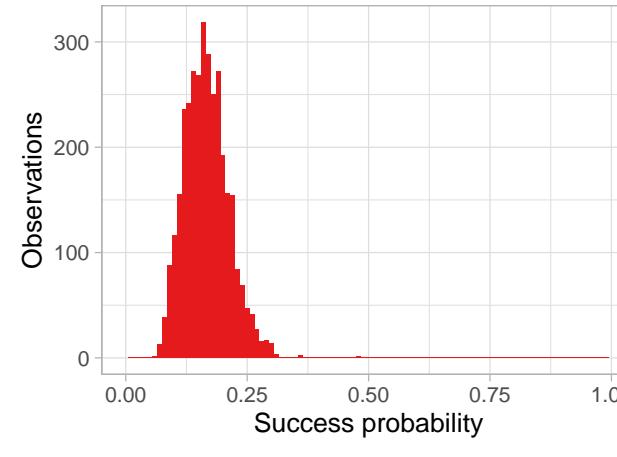
N = 3381; Tail 0%, C1 100%



MM ($\omega = 3$; $\epsilon = 3e+01$; SSE 9.186e-04) LV > 0

Karyotype: 1:1

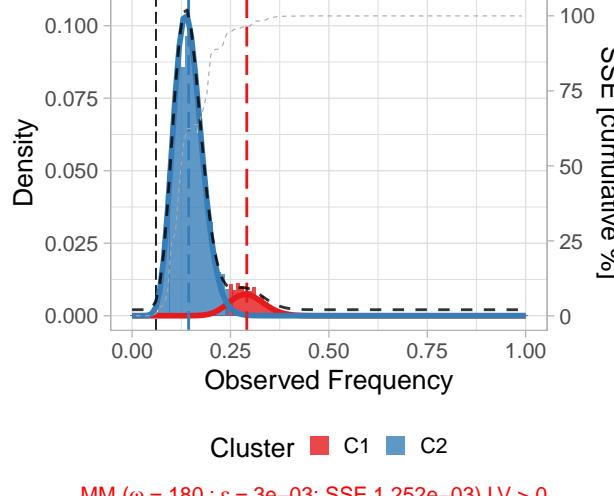
$K_B = 1, K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

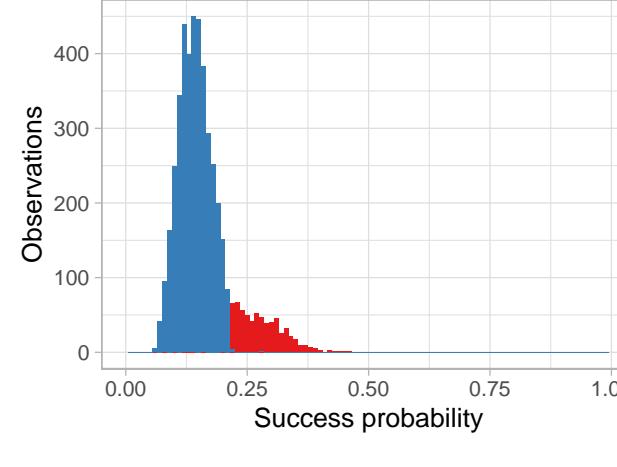
N = 4664; Tail 0%, C1 8.02%, C2 91.98%



MM ($\omega = 180$; $\epsilon = 3e-03$; SSE 1.252e-03) LV > 0

Karyotype: 2:1

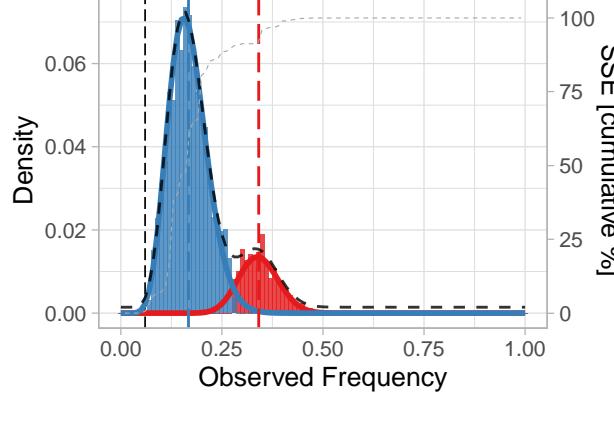
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

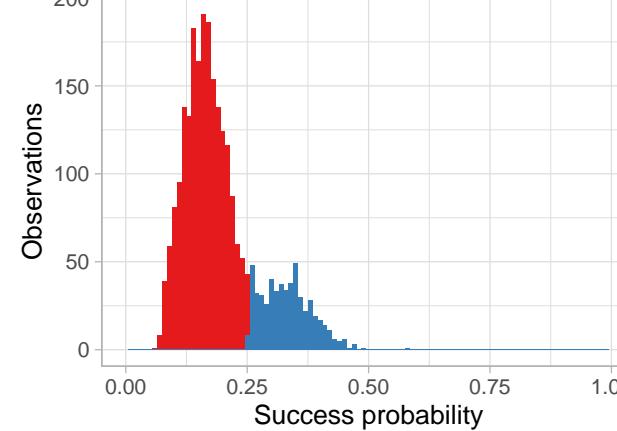
N = 2598; Tail 0%, C1 16.48%, C2 83.52%



MM ($\omega = 180$; $\epsilon = 6e-04$; SSE 6.675e-04) LV > 0

Karyotype: 2:0

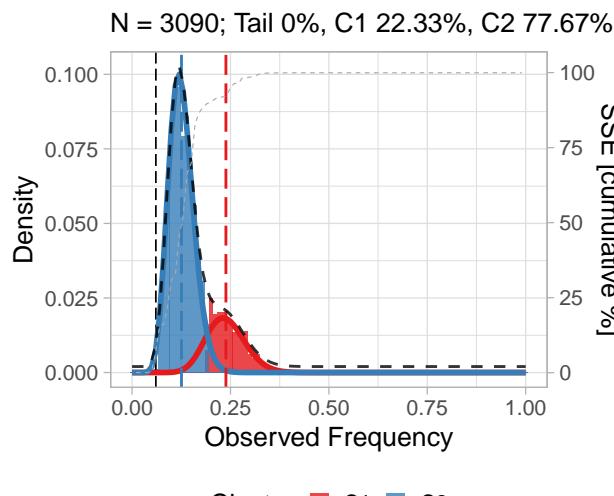
$K_B = 2, K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

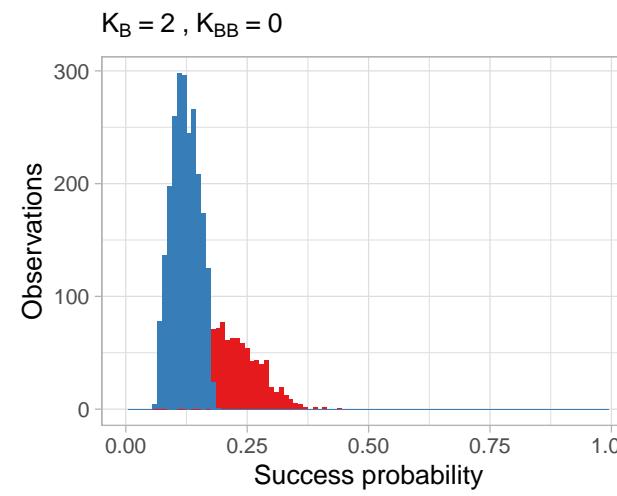
N = 3090; Tail 0%, C1 22.33%, C2 77.67%



MM ($\omega = 180$; $\epsilon = 1e-03$; SSE 8.013e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



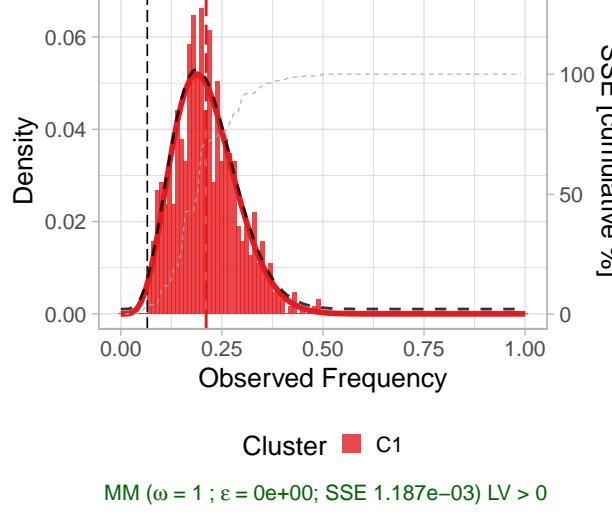
Cluster ■ Bin 1 ■ Bin 2

171202_HMFregCPCT_FR14000406_FR15579913_CPCT02340040

ONLY SNVs (min 150 – max 50000)

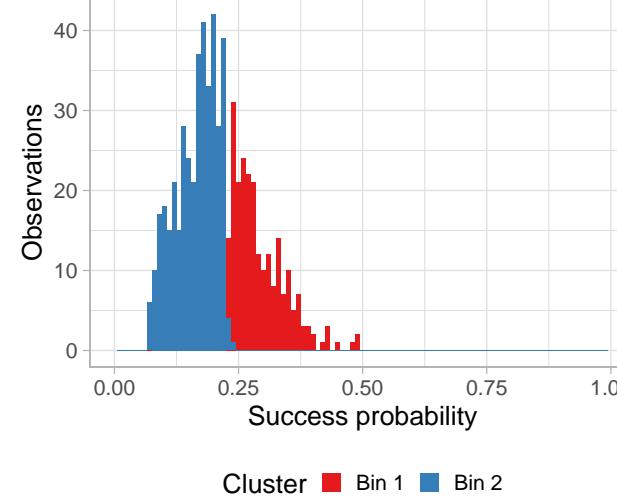
Karyotype: 1:0

N = 634; Tail 0%, C1 100%



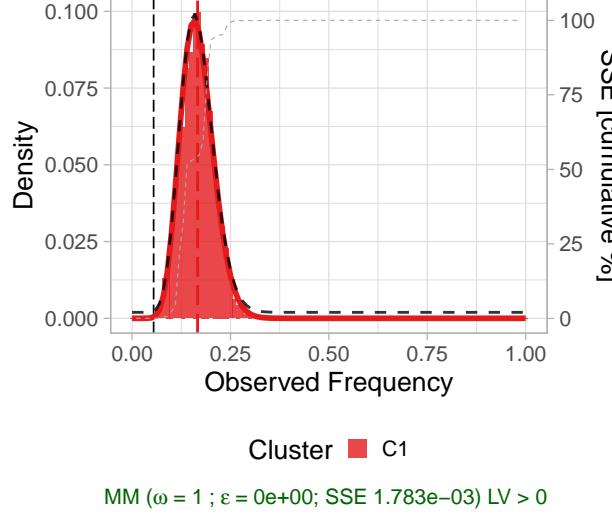
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



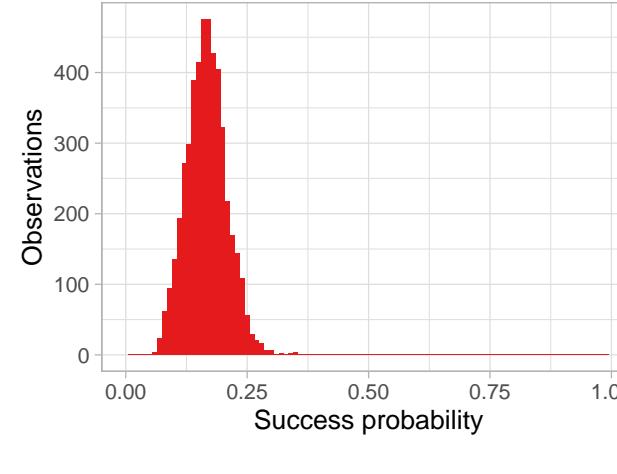
Karyotype: 1:1

N = 4778; Tail 0%, C1 100%



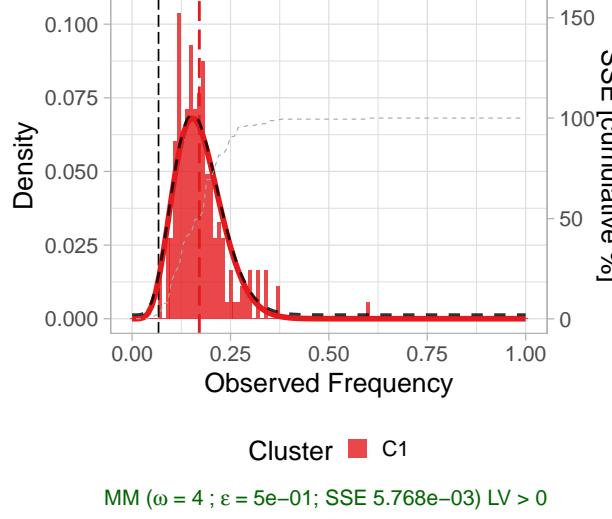
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



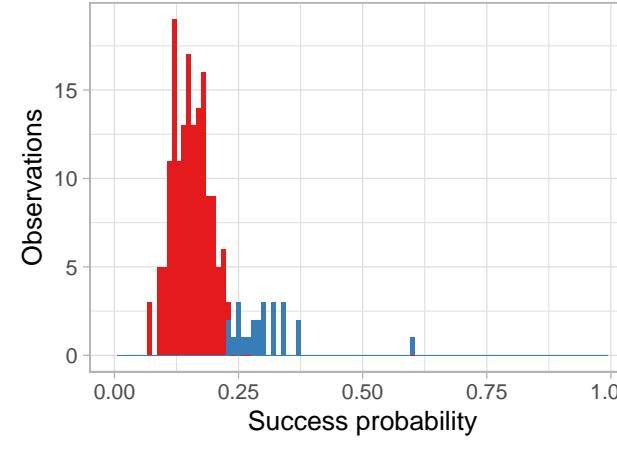
Karyotype: 2:1

N = 183; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

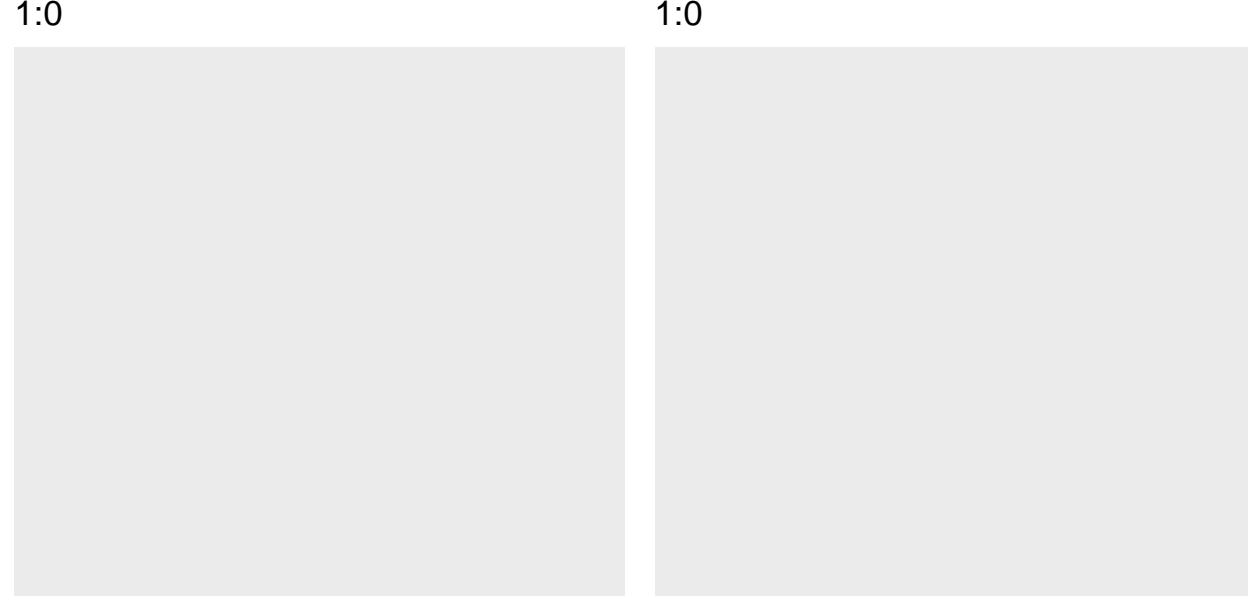
2:0

2:2

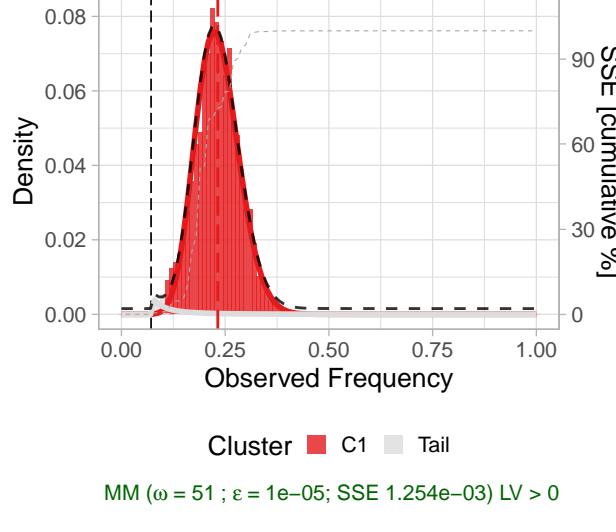
2:2

171210_HMFregCPCT_FR14000180_FR15579786_CPCT02120077

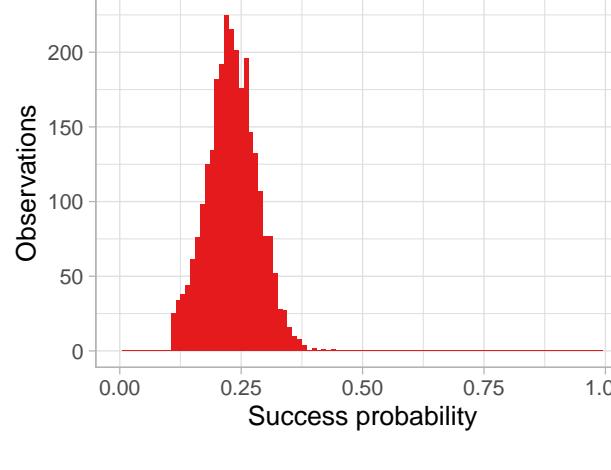
ONLY SNVs (min 150 – max 50000)



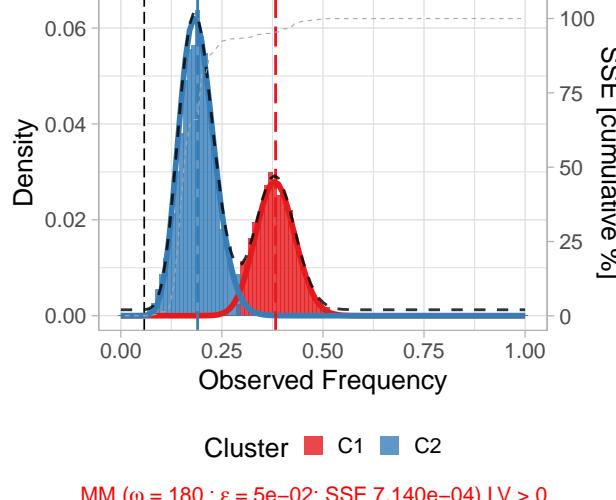
Karyotype: 1:1
N = 2740; Tail 2.14%, C1 97.86%



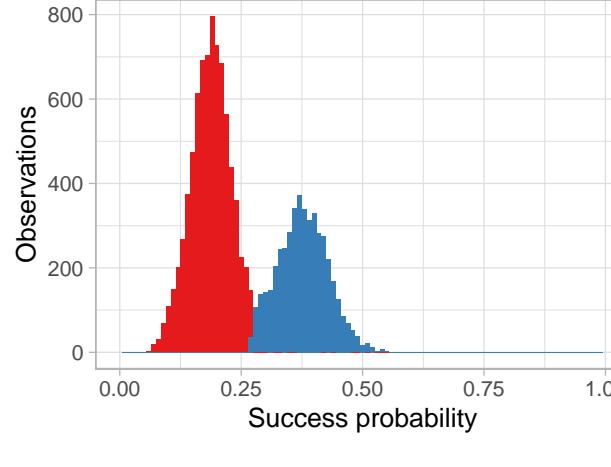
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



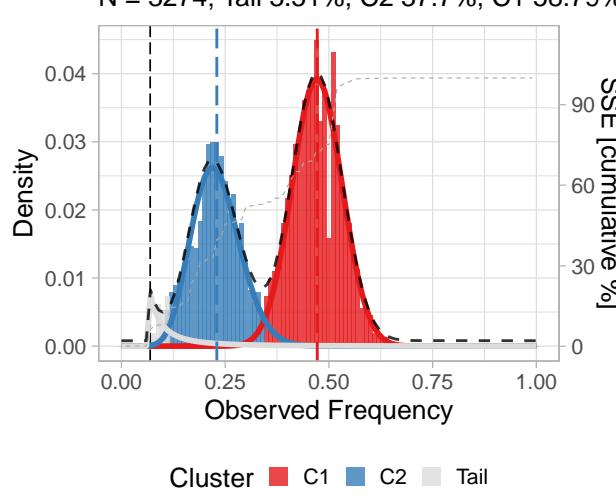
Karyotype: 2:1
N = 12480; Tail 0%, C1 33.64%, C2 66.36%



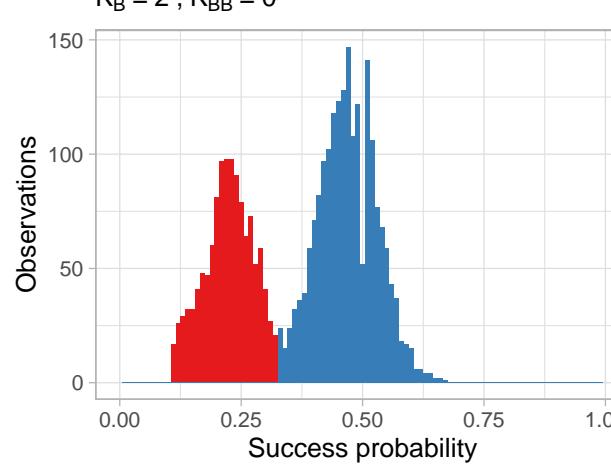
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



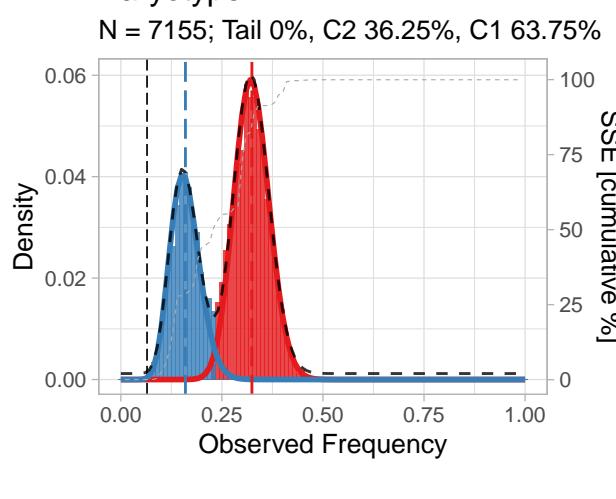
Karyotype: 2:0
N = 3274; Tail 3.51%, C2 37.7%, C1 58.79%



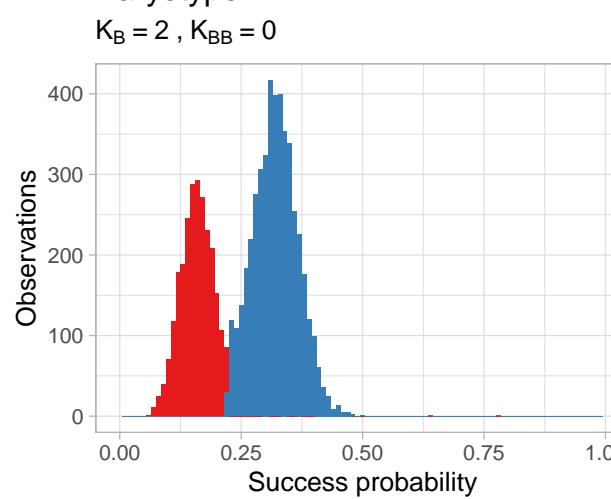
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 7155; Tail 0%, C2 36.25%, C1 63.75%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

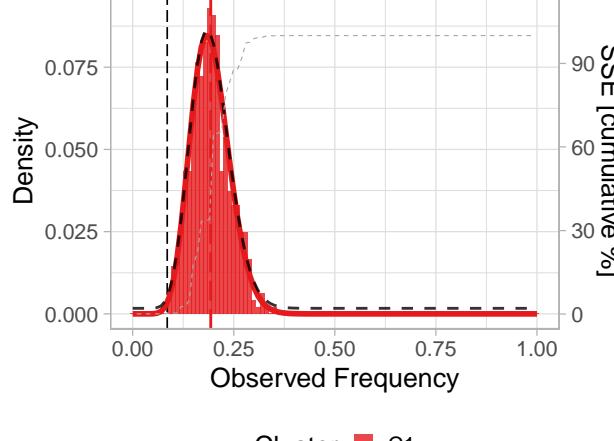


171218_HMFregCPCT_FR15579834_FR14625468_CPCT02030437

ONLY SNVs (min 150 – max 50000)

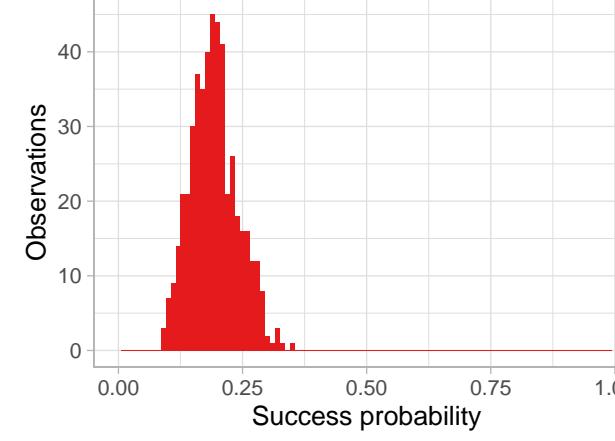
Karyotype: 1:0

N = 484; Tail 0%, C1 100%



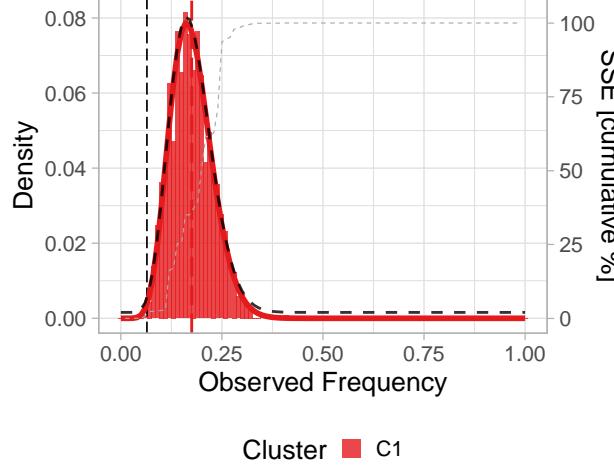
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



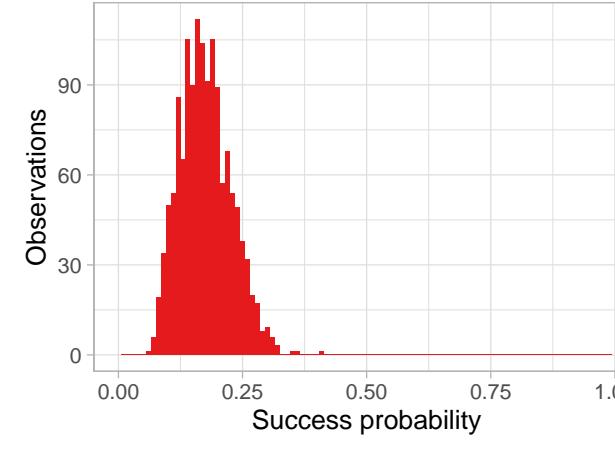
Karyotype: 1:1

N = 1375; Tail 0%, C1 100%



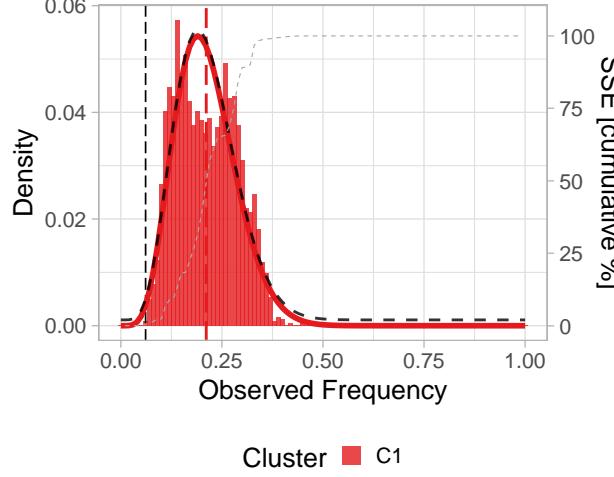
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



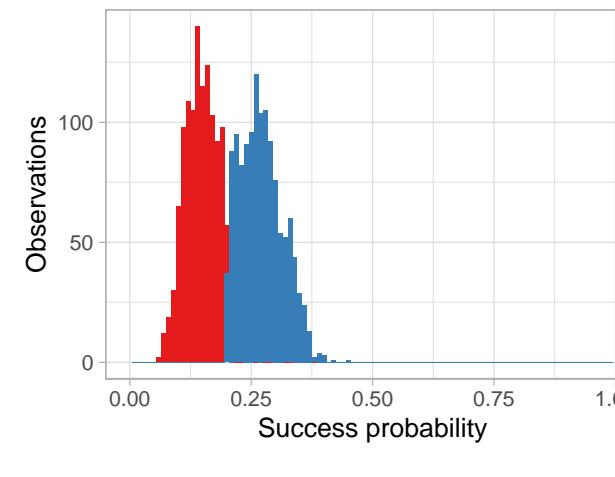
Karyotype: 2:1

N = 2442; Tail 0%, C1 100%



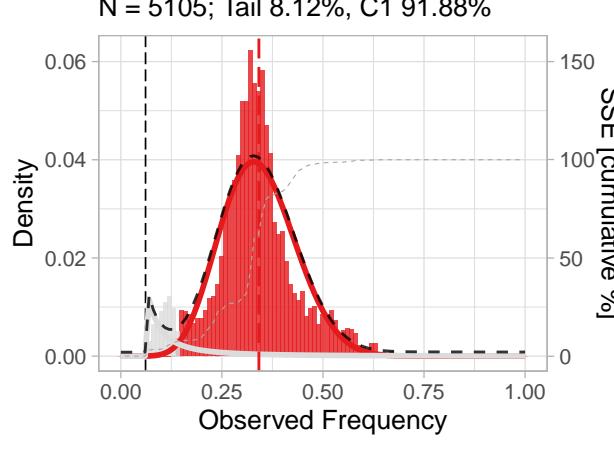
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



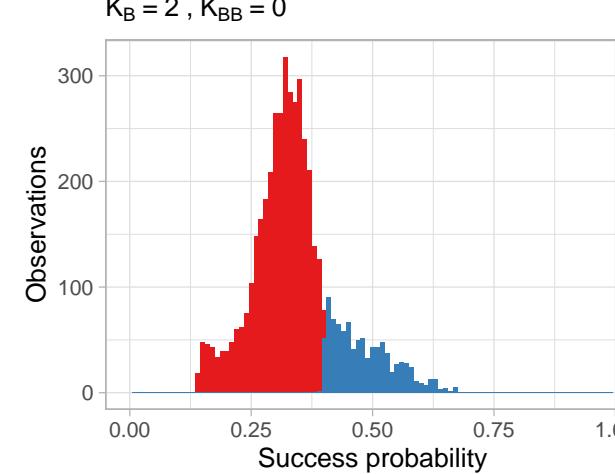
Karyotype: 2:0

N = 5105; Tail 8.12%, C1 91.88%



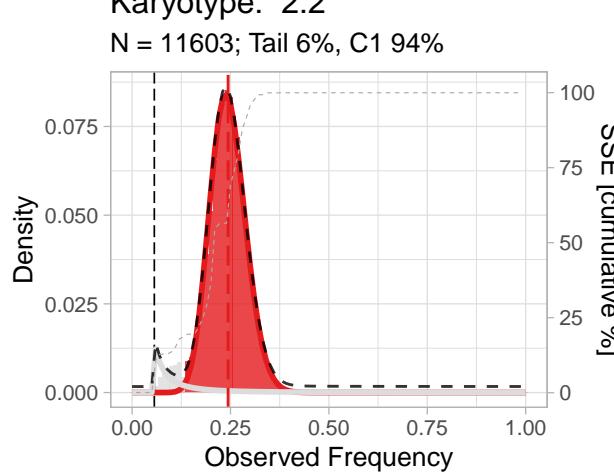
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



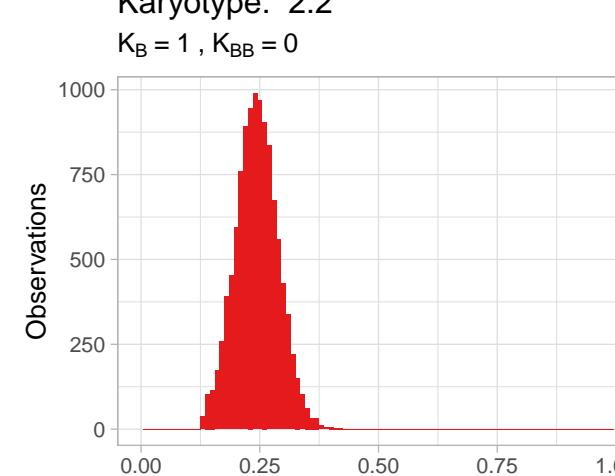
Karyotype: 2:2

N = 11603; Tail 6%, C1 94%



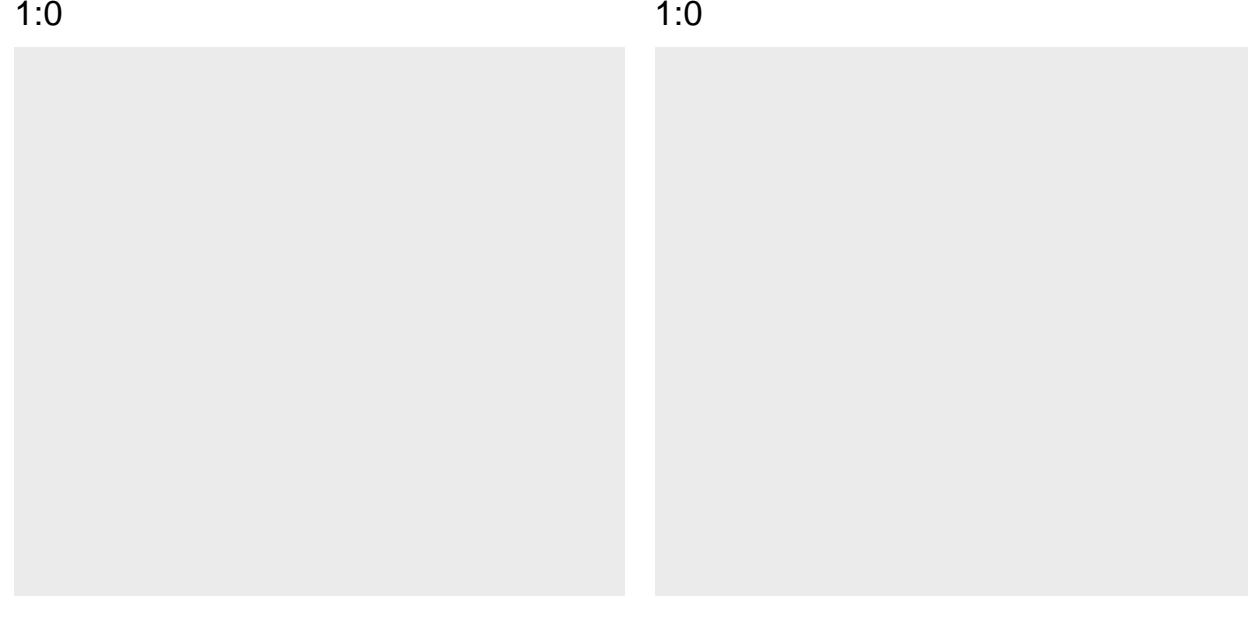
Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$

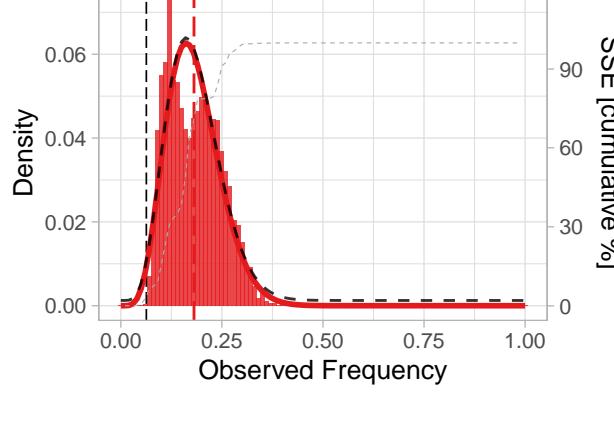


171218_HMFregCPCT_FR15580070_FR14625477_CPCT02050294

ONLY SNVs (min 150 – max 50000)

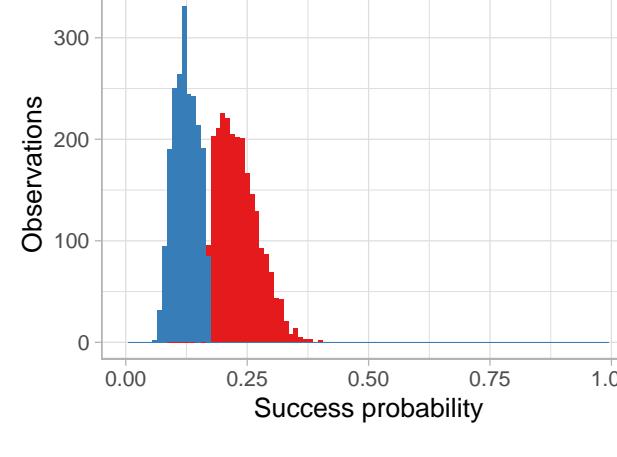


Karyotype: 2:1
N = 4537; Tail 0%, C1 100%

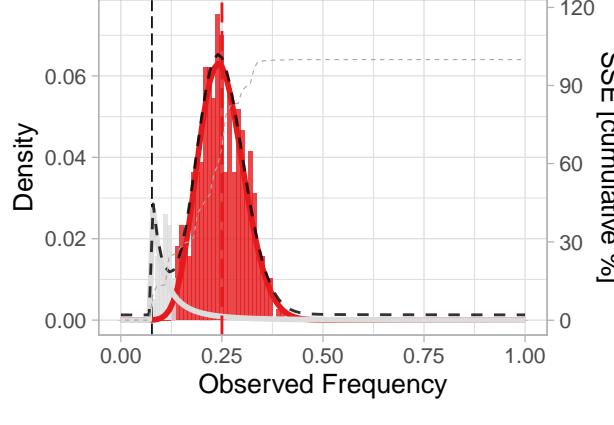


MM ($\omega = 167$; $\epsilon = 3e-05$; SSE $3.048e-03$) LV > 0

Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$

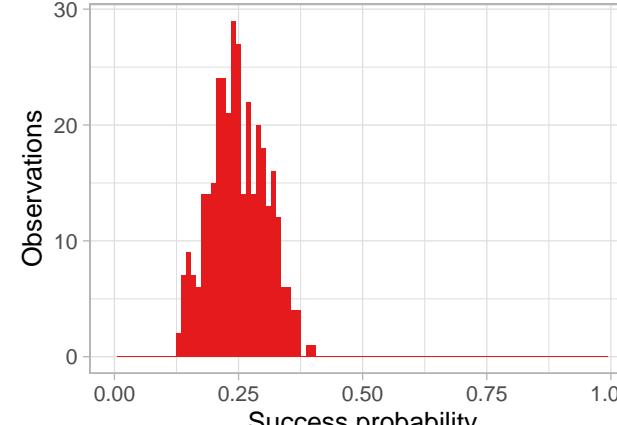


Karyotype: 2:0
N = 386; Tail 11.73%, C1 88.27%

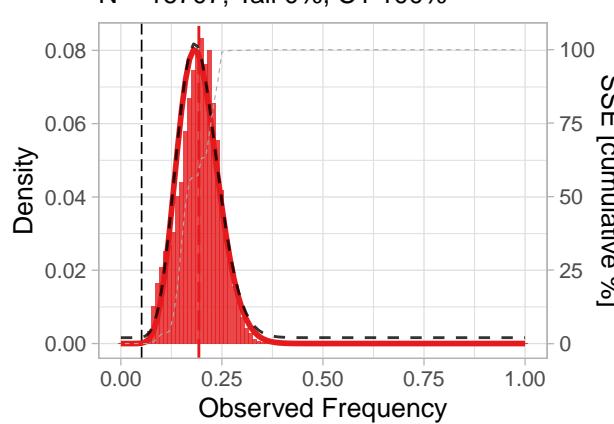


MM ($\omega = 52$; $\epsilon = 2e-06$; SSE $4.686e-03$) LV > 0

Karyotype: 2:0
 $K_B = 1$, $K_{BB} = 0$

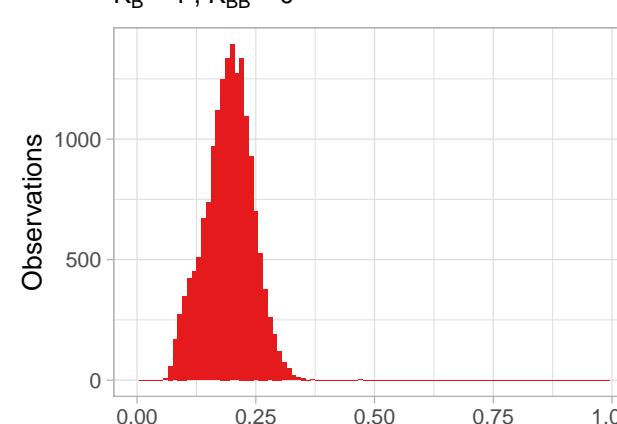


Karyotype: 2:2
N = 16707; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $3.116e-03$) LV > 0

Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

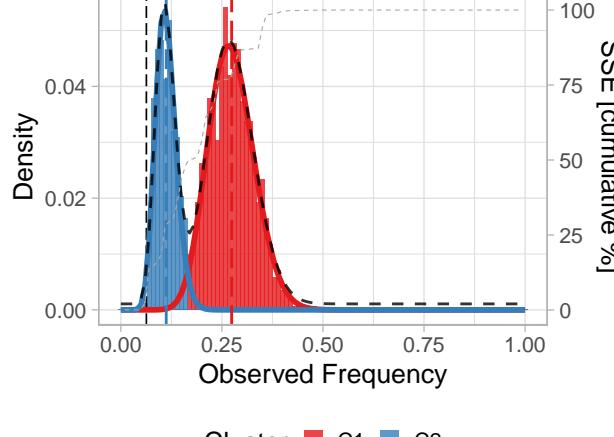


171223_HMFregCPCT_FR15579598_FR15579644_CPCT02120097

ONLY SNVs (min 150 – max 50000)

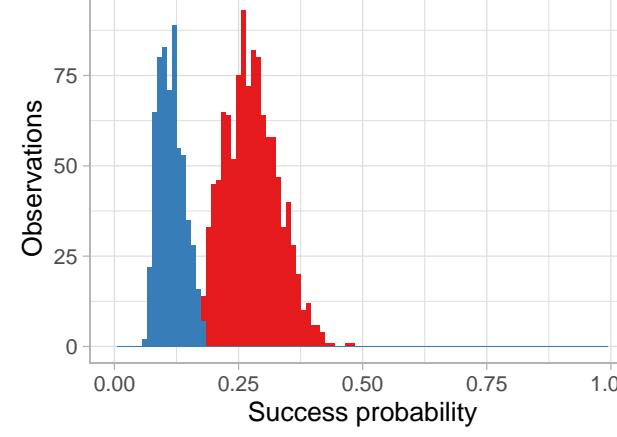
Karyotype: 1:0

N = 1718; Tail 0%, C2 33.34%, C1 66.66%



Karyotype: 1:0

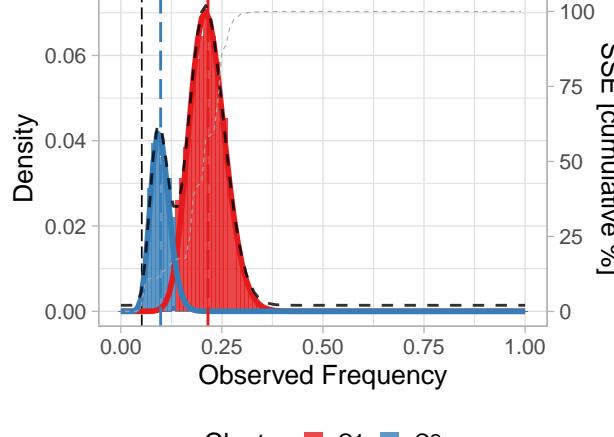
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 4e-04$; SSE 7.221e-04) LV > 0

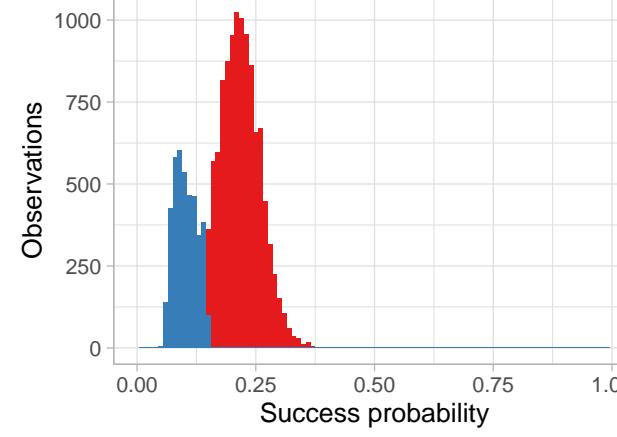
Karyotype: 1:1

N = 14799; Tail 0%, C2 23.98%, C1 76.02%



Karyotype: 1:1

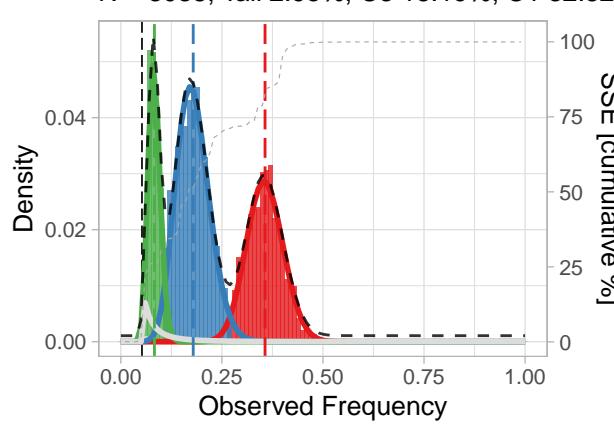
$K_B = 2, K_{BB} = 0$



MM ($\omega = 146$; $\epsilon = 1e-05$; SSE 5.111e-04) LV > 0

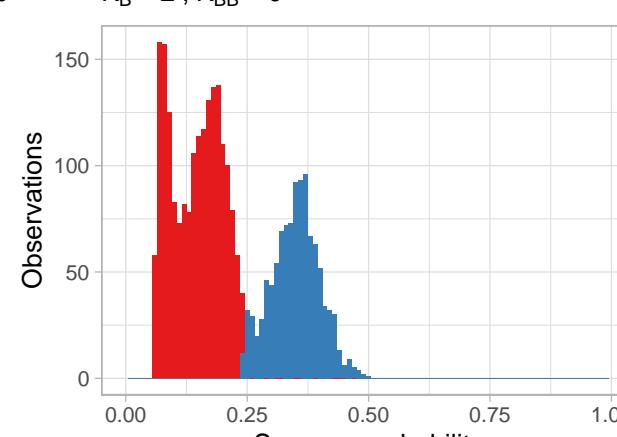
Karyotype: 2:1

N = 3038; Tail 2.95%, C3 18.19%, C1 32.52%



Karyotype: 2:1

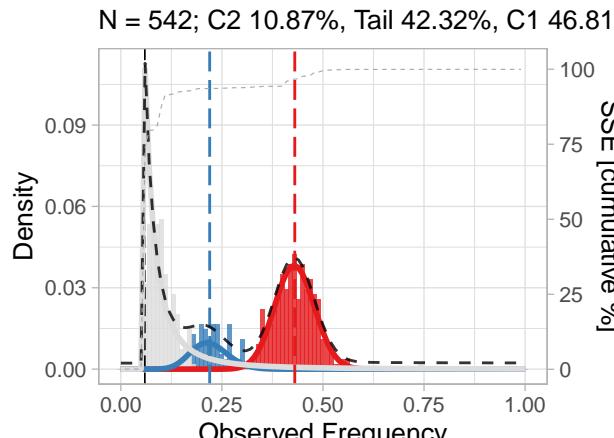
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 3e-01$; SSE 5.883e-04) LV > 0

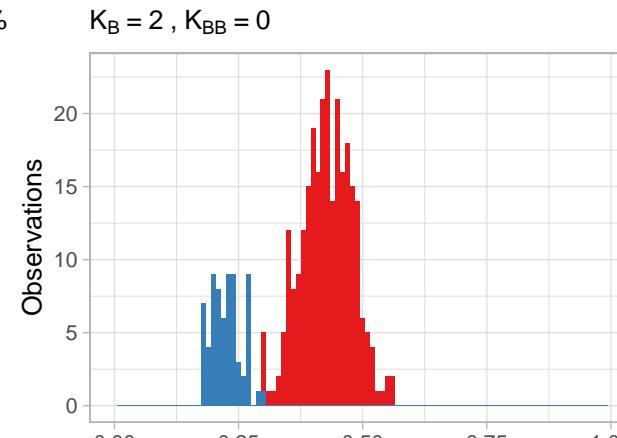
Karyotype: 2:0

N = 542; C2 10.87%, Tail 42.32%, C1 46.81%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 5e-04$; SSE 1.546e-02) LV > 0

2:2

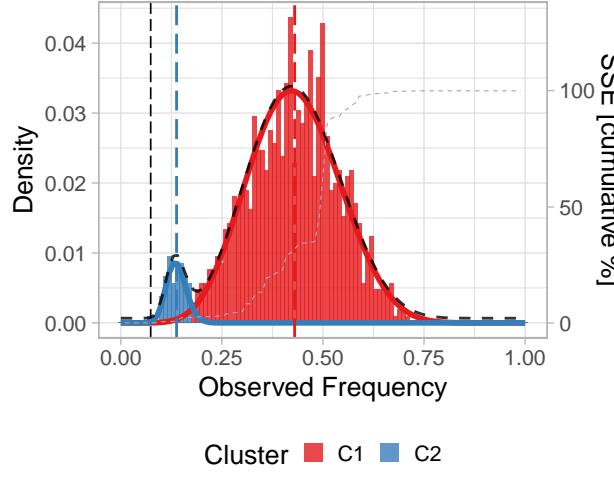
Karyotype: 2:2

180104_HMFregCPCT_FR15579580_FR14625509_CPCT02070272

ONLY SNVs (min 150 – max 50000)

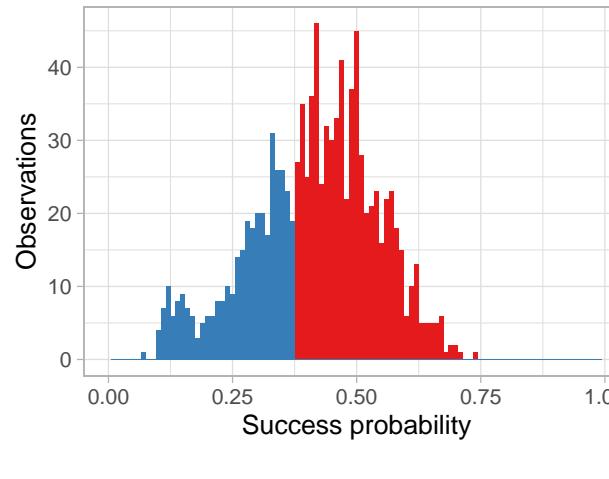
Karyotype: 1:0

N = 1052; Tail 0%, C2 5.2%, C1 94.8%



Karyotype: 1:0

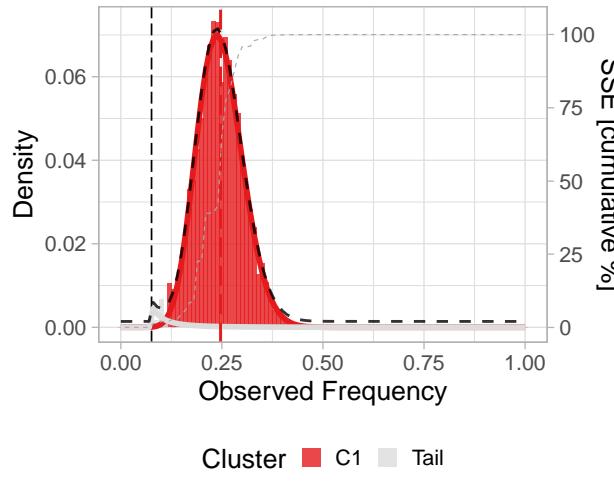
$K_B = 2, K_{BB} = 0$



MM ($\omega = 147$; $\epsilon = 7e-06$; SSE 1.903e-03) LV > 0

Karyotype: 1:1

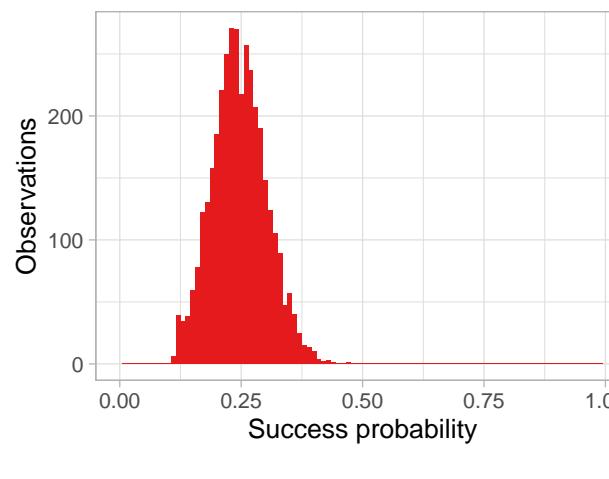
N = 3701; Tail 2.08%, C1 97.92%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

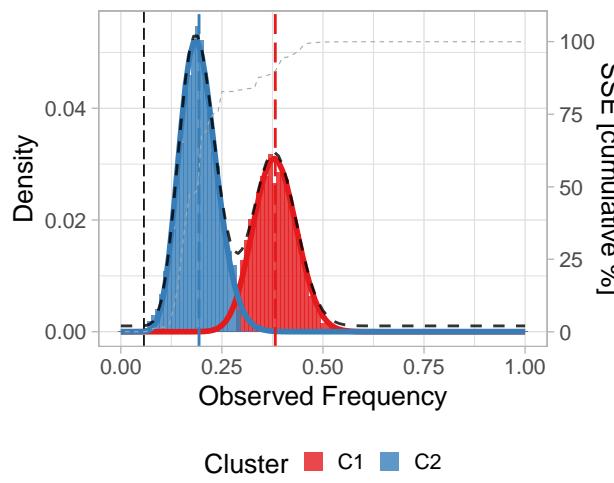
$K_B = 1, K_{BB} = 0$



MM ($\omega = 51$; $\epsilon = 9e-06$; SSE 1.029e-03) LV > 0

Karyotype: 2:1

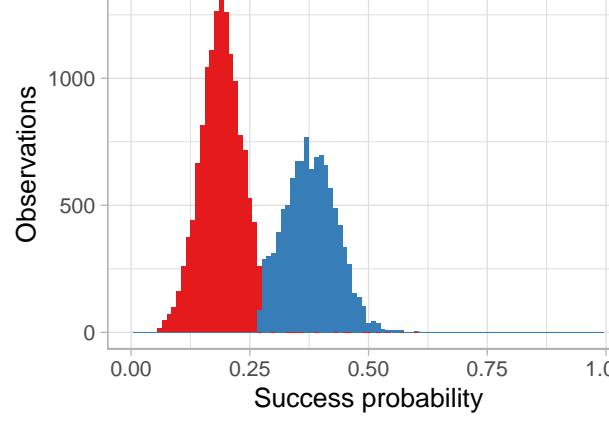
N = 24170; Tail 0%, C1 41.29%, C2 58.71%



Cluster ■ Bin 1

Karyotype: 2:1

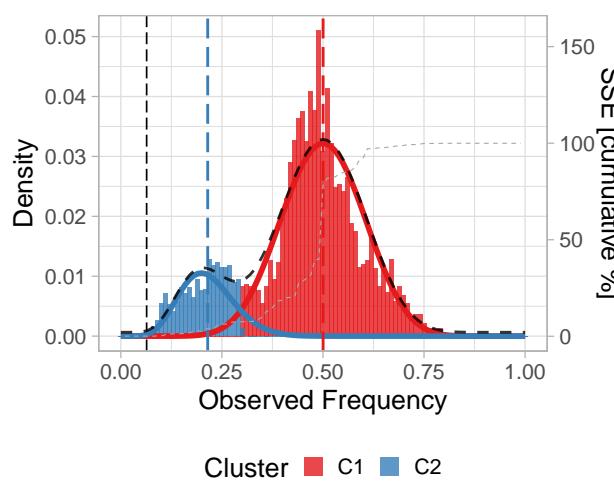
$K_B = 2, K_{BB} = 0$



MM ($\omega = 89$; $\epsilon = 5e-05$; SSE 3.870e-04) LV > 0

Karyotype: 2:0

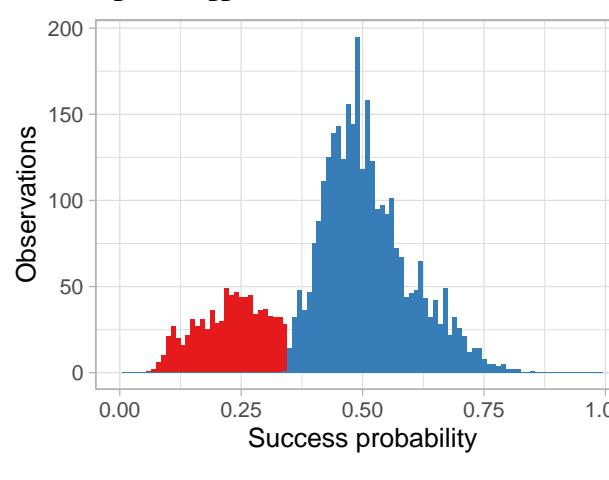
N = 3820; Tail 0%, C2 17.23%, C1 82.77%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

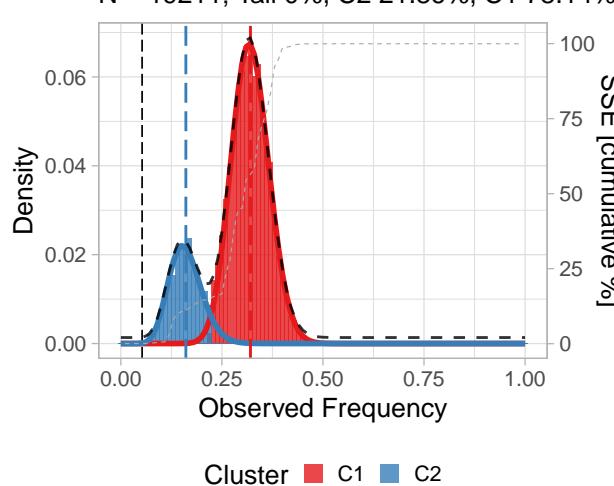
$K_B = 2, K_{BB} = 0$



MM ($\omega = 137$; $\epsilon = 2e-05$; SSE 2.141e-03) LV > 0

Karyotype: 2:2

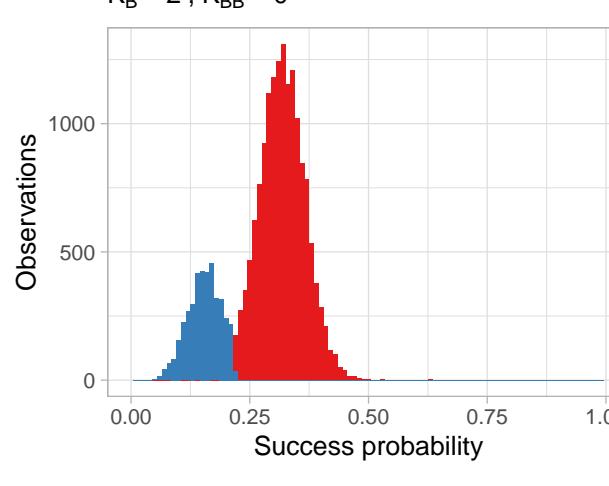
N = 19211; Tail 0%, C2 21.86%, C1 78.14%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

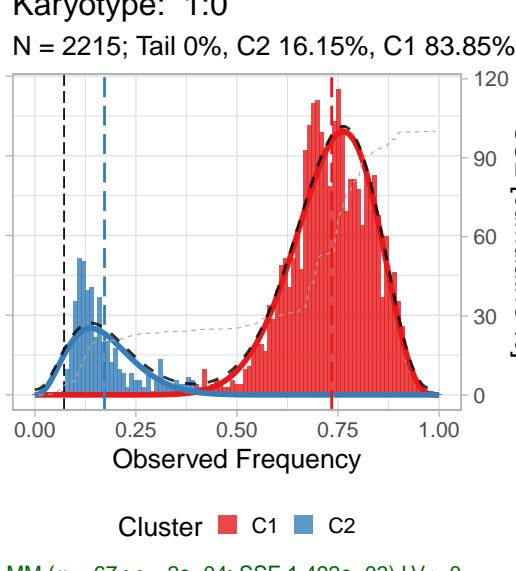


MM ($\omega = 85$; $\epsilon = 2e-05$; SSE 3.396e-04) LV > 0

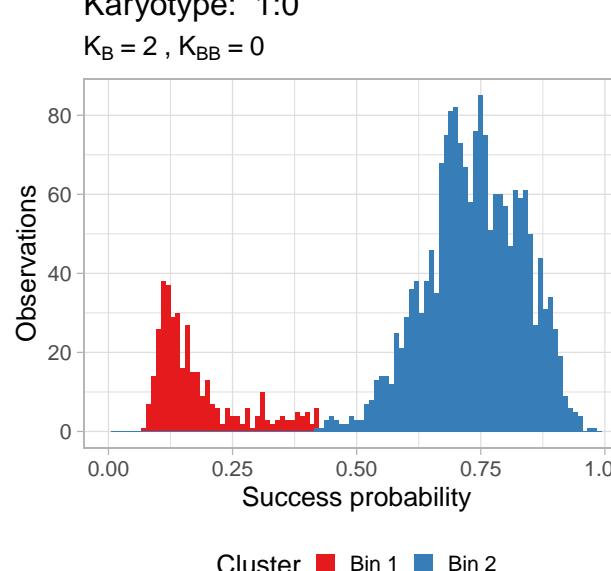
Cluster ■ Bin 1 ■ Bin 2

180110_HMFregCPCT_FR15579817_FR15397275_CPCT02020362

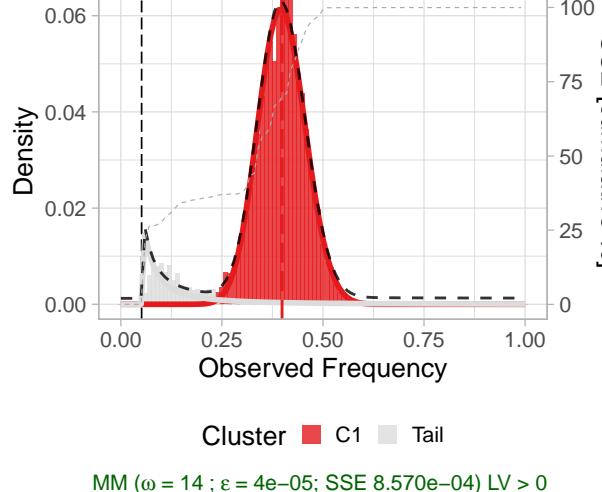
ONLY SNVs (min 150 – max 50000)



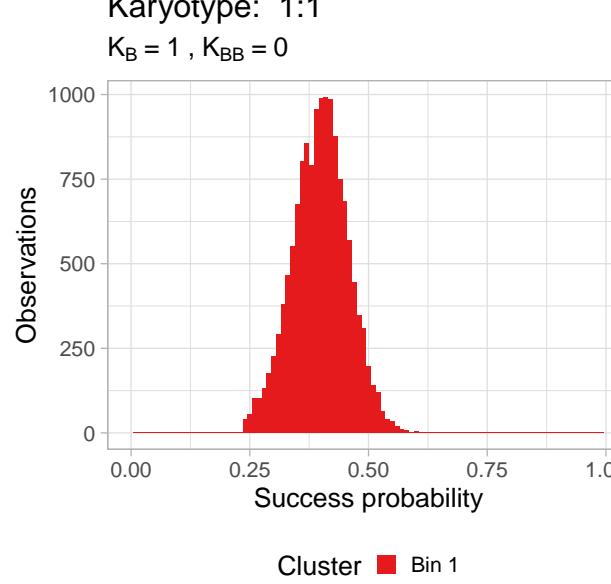
MM ($\omega = 67$; $\epsilon = 2e-04$; SSE 1.492e-03) LV > 0



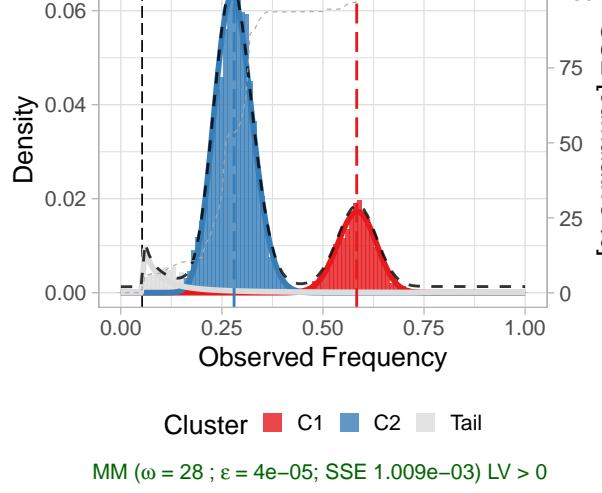
Karyotype: 1:1
N = 15619; Tail 10.36%, C1 89.64%



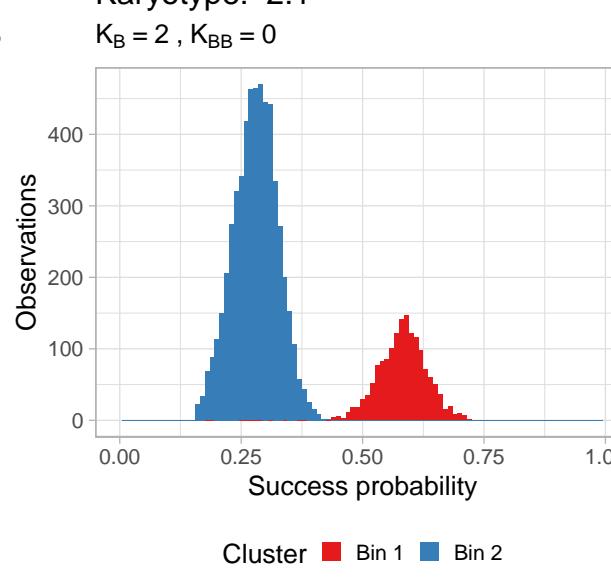
MM ($\omega = 14$; $\epsilon = 4e-05$; SSE 8.570e-04) LV > 0



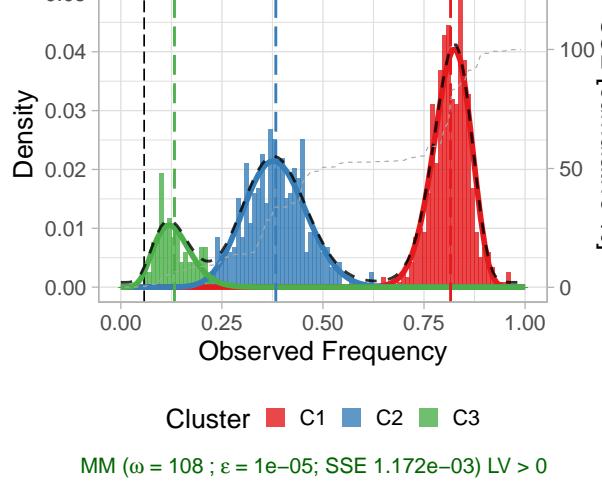
Karyotype: 2:1
N = 7446; Tail 6.02%, C1 20.53%, C2 73.45%



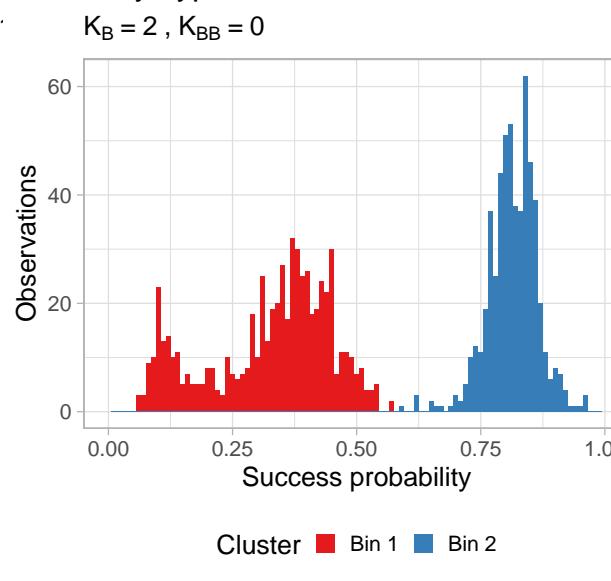
MM ($\omega = 28$; $\epsilon = 4e-05$; SSE 1.009e-03) LV > 0



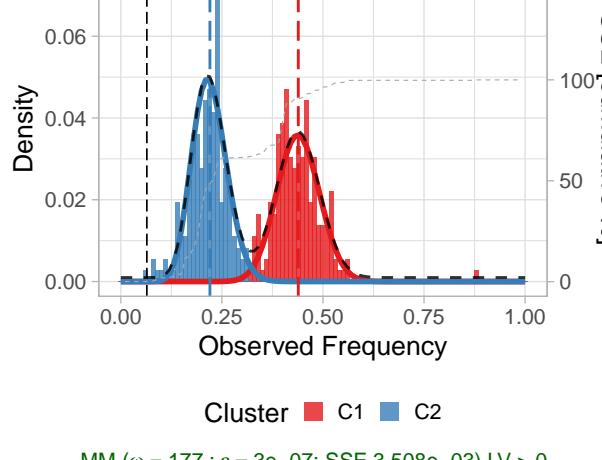
Karyotype: 2:0
N = 1193; Tail 0%, C3 11.73%, C2 41.23%, C1 47.04%



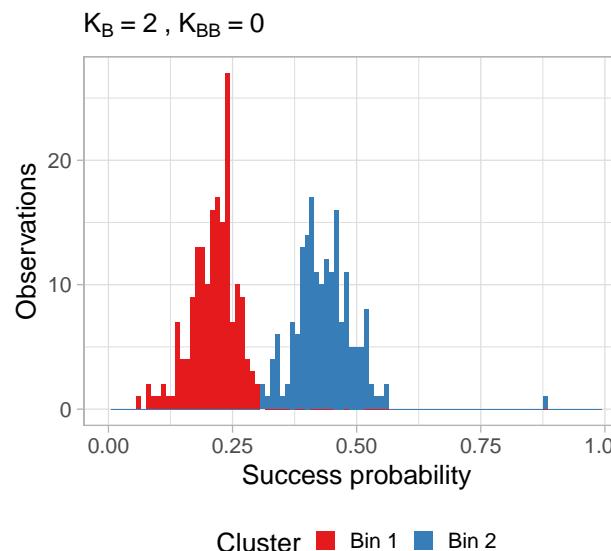
MM ($\omega = 108$; $\epsilon = 1e-05$; SSE 1.172e-03) LV > 0



Karyotype: 2:2
N = 361; Tail 0%, C1 47.38%, C2 52.62%

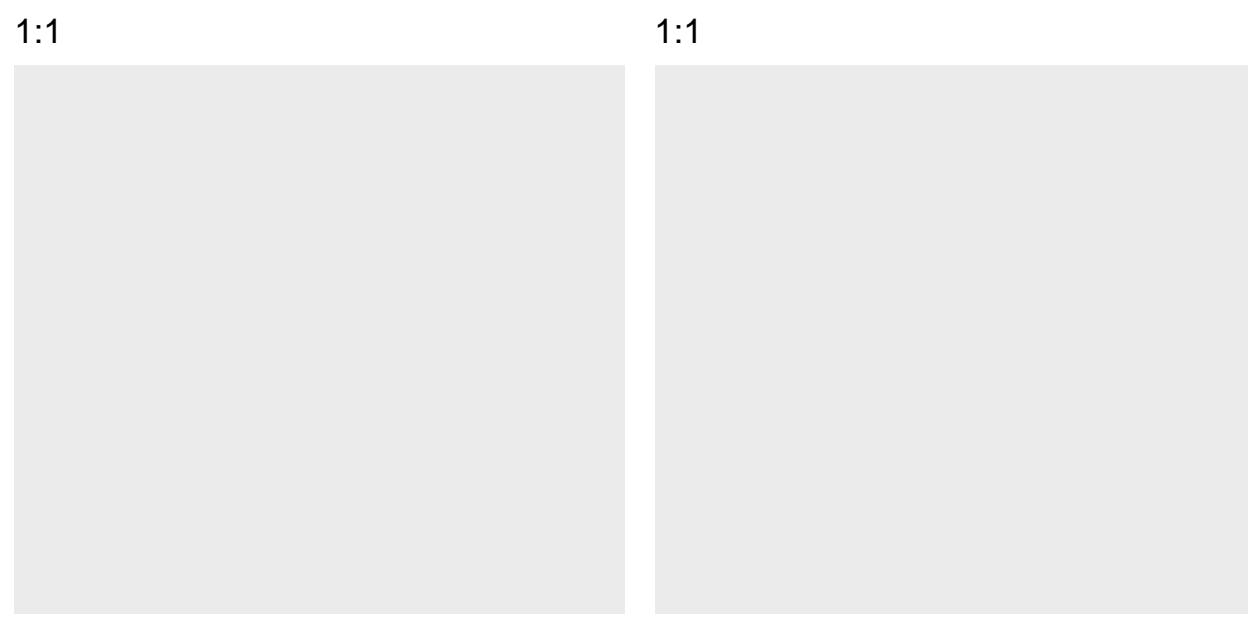
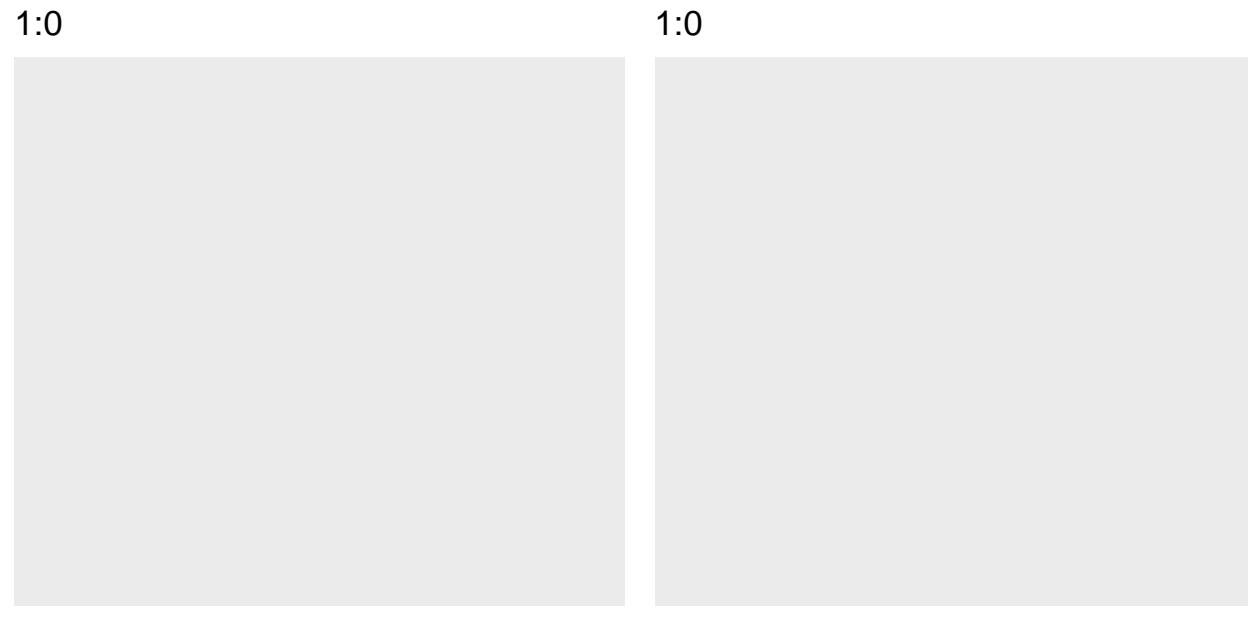


MM ($\omega = 177$; $\epsilon = 3e-07$; SSE 3.508e-03) LV > 0

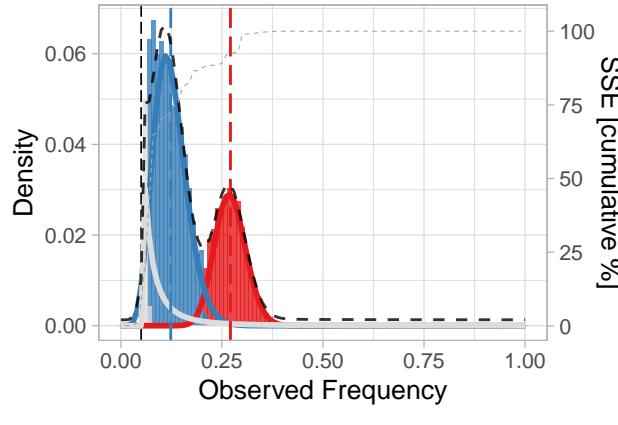


180130_HMFregCPCT_FR14624952_FR14625500_CPCT02210040

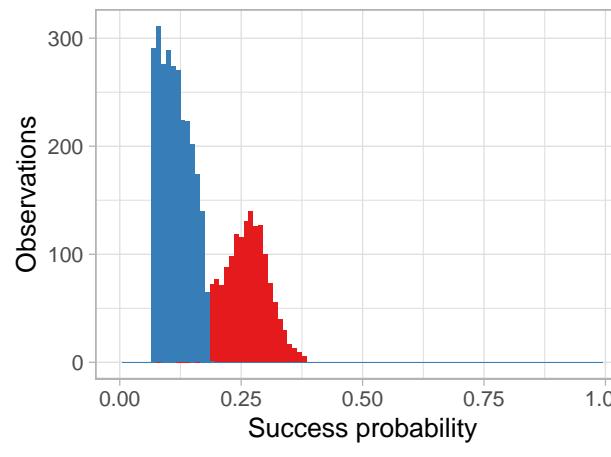
ONLY SNVs (min 150 – max 50000)



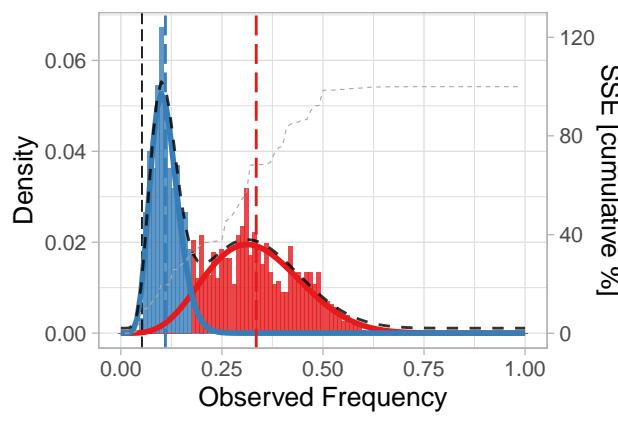
Karyotype: 2:1
N = 4610; Tail 13.71%, C1 27.73%, C2 58.56%



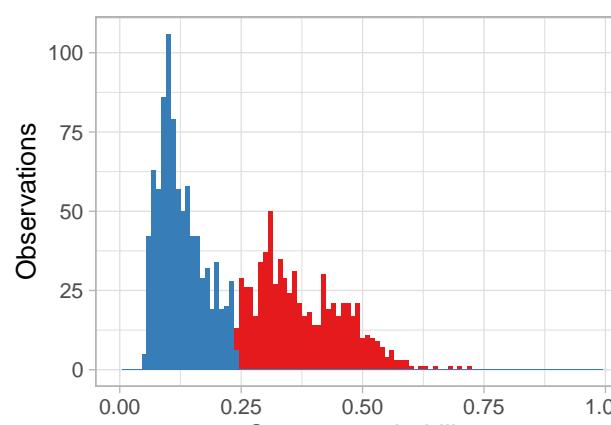
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



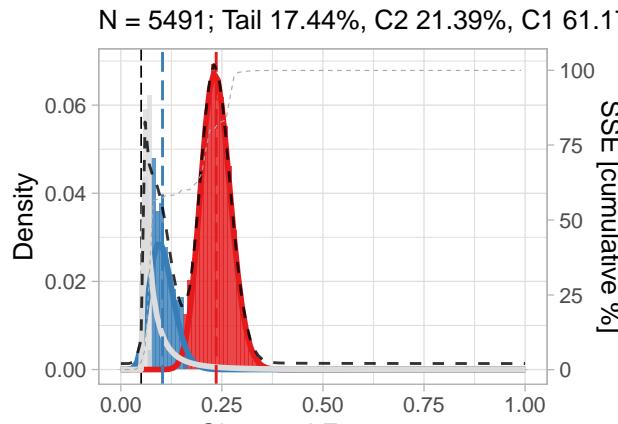
Karyotype: 2:0
N = 1576; Tail 0%, C2 43.52%, C1 56.48%



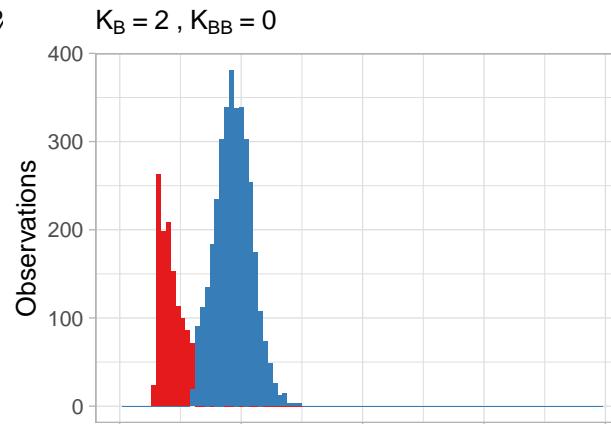
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 5491; Tail 17.44%, C2 21.39%, C1 61.17%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

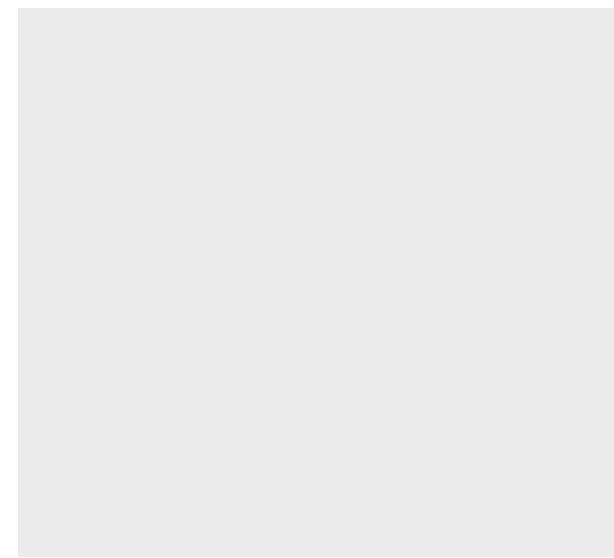
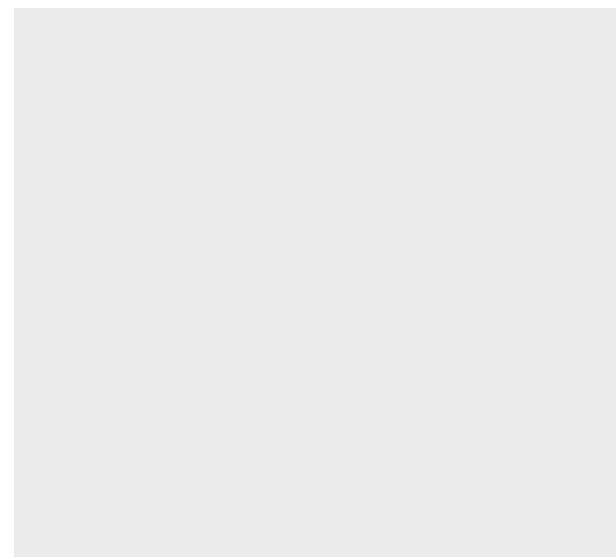


180131_HMFregCPCT_FR15397287_FR15373927_CPCT02120101

ONLY SNVs (min 150 – max 50000)

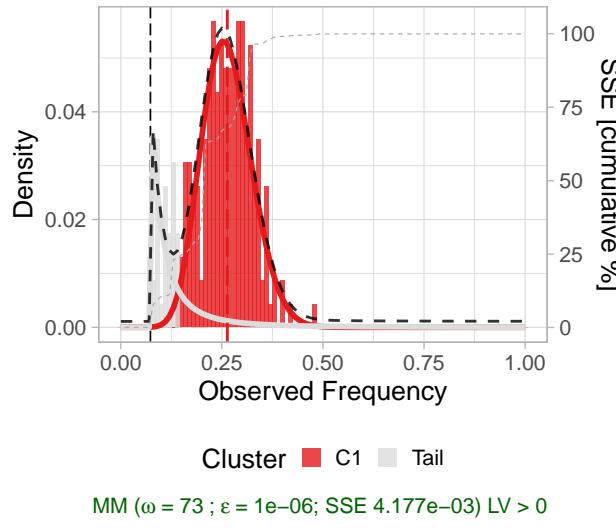
1:0

1:0



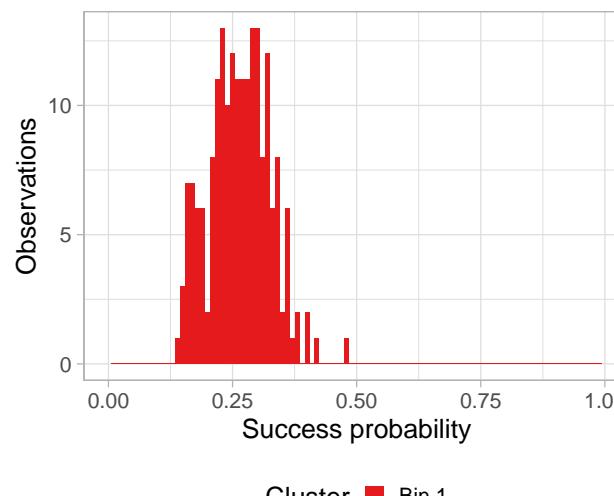
Karyotype: 1:1

N = 229; Tail 18.11%, C1 81.89%



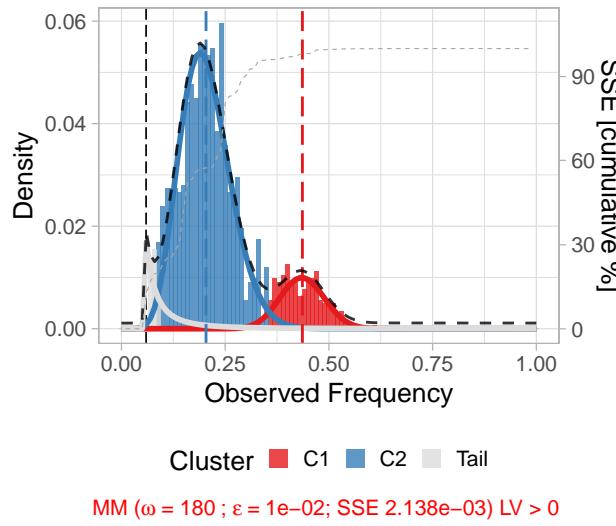
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



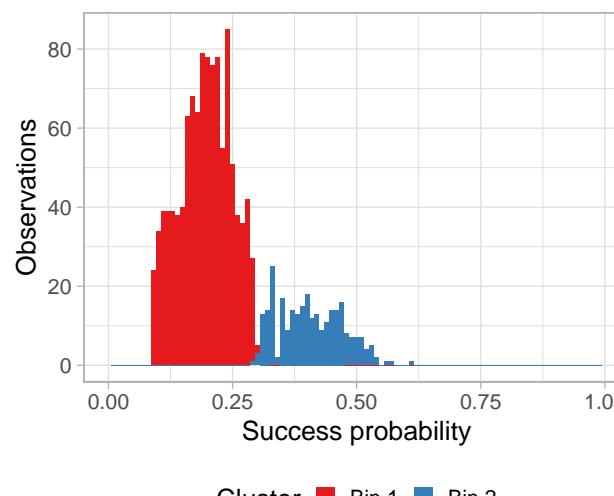
Karyotype: 2:1

N = 1425; Tail 6.21%, C1 13.23%, C2 80.56%



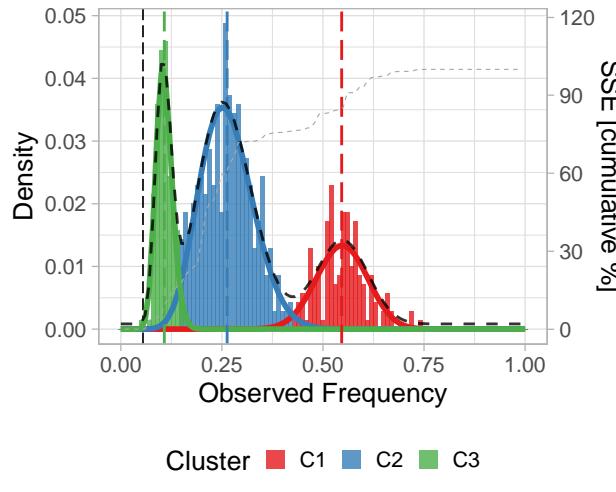
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



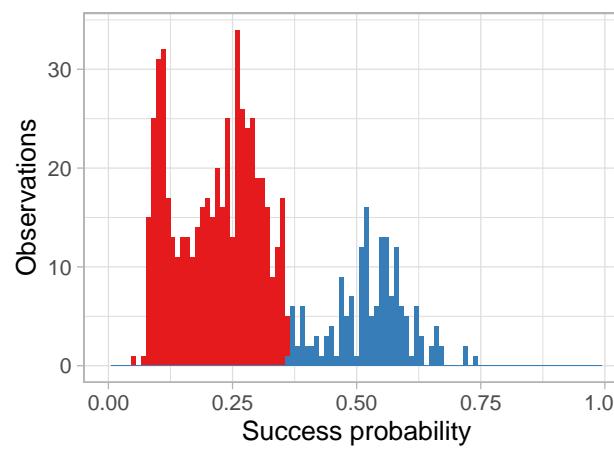
Karyotype: 2:0

N = 697; Tail 0%, C3 20.74%, C1 21.14%, C2



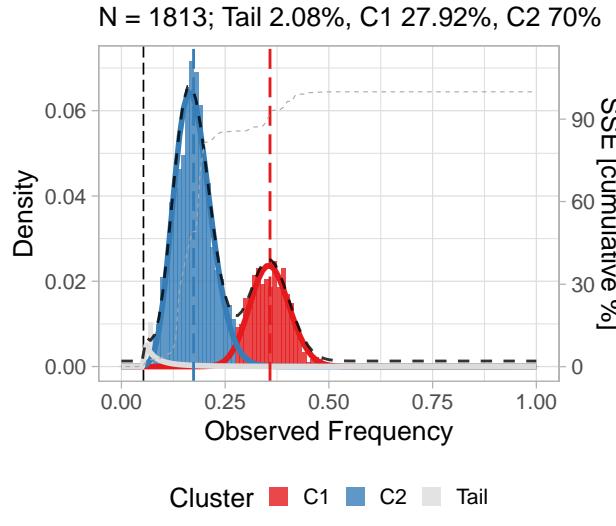
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



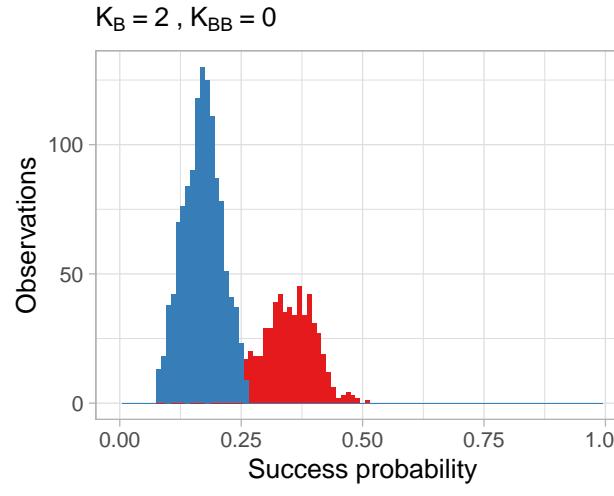
Karyotype: 2:2

N = 1813; Tail 2.08%, C1 27.92%, C2 70%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

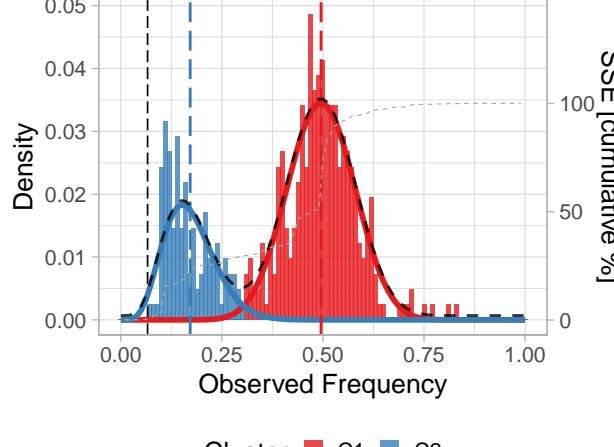


180207_HMFregCPCT_FR15398372_FR15375015_CPCT02050310

ONLY SNVs (min 150 – max 50000)

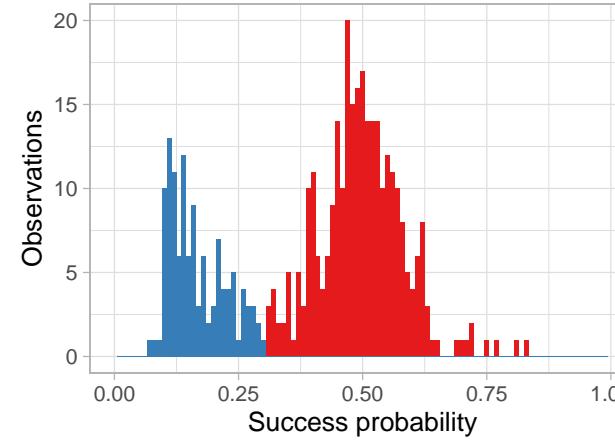
Karyotype: 1:0

N = 411; Tail 0%, C2 27.91%, C1 72.09%



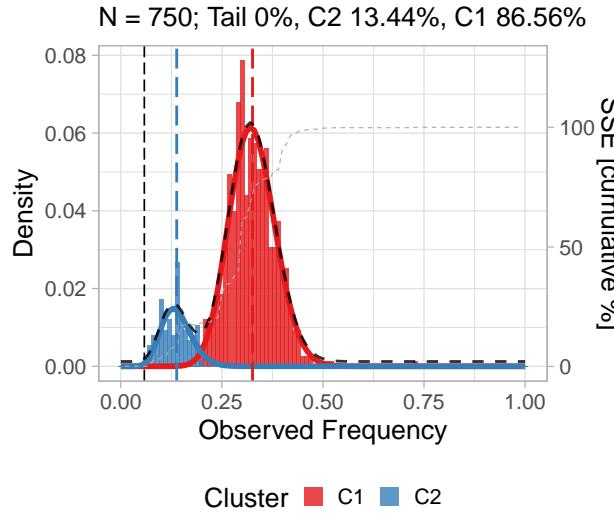
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



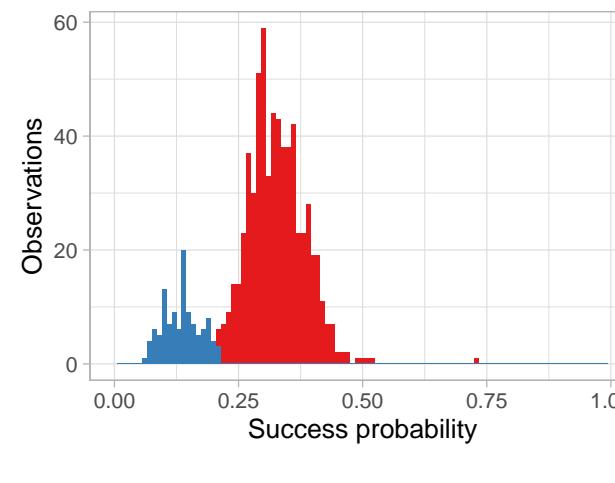
Karyotype: 1:1

N = 750; Tail 0%, C2 13.44%, C1 86.56%



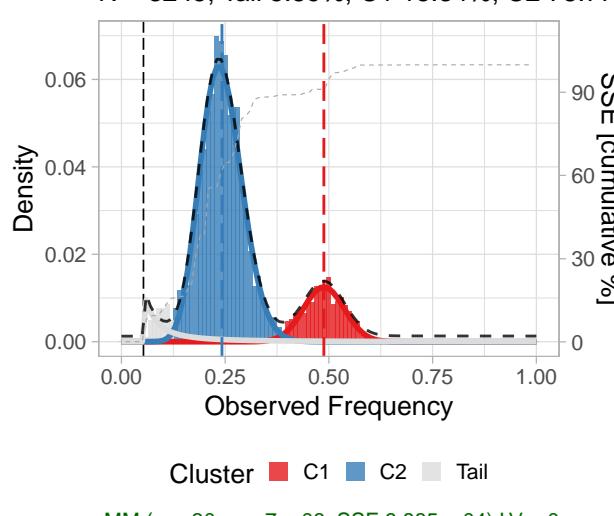
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



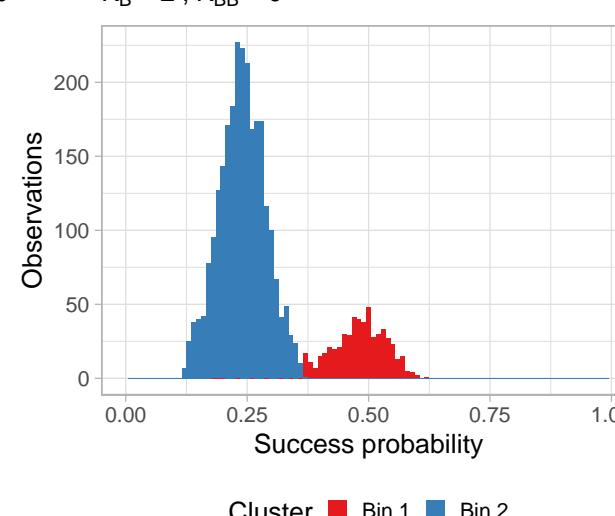
Karyotype: 2:1

N = 3245; Tail 5.89%, C1 15.34%, C2 78.77%



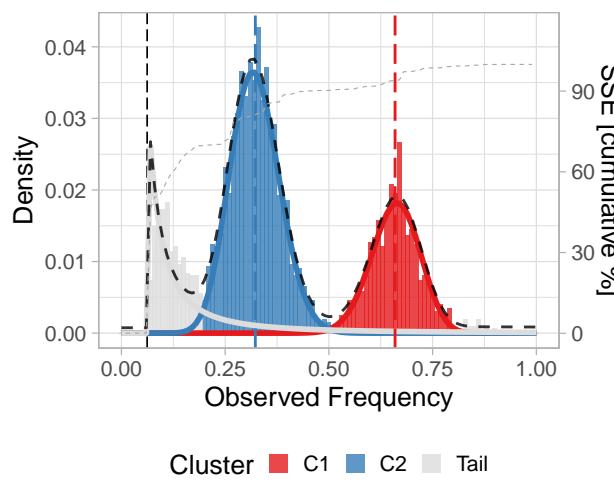
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



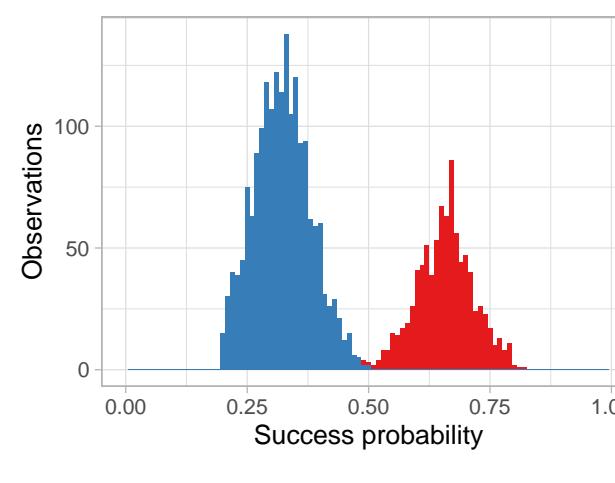
Karyotype: 2:0

N = 3230; Tail 19.12%, C1 26.62%, C2 54.26%



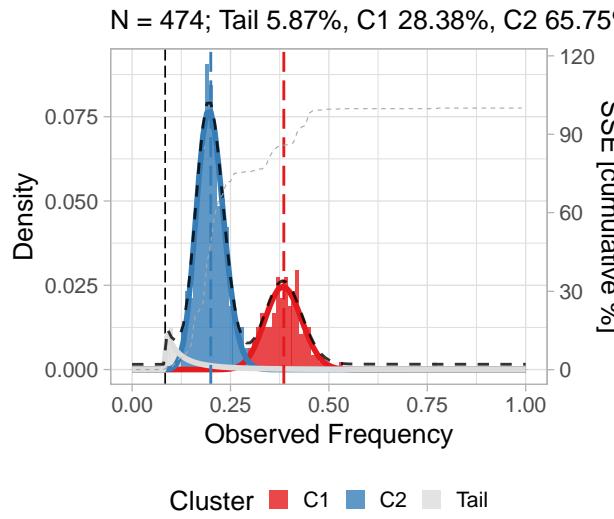
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



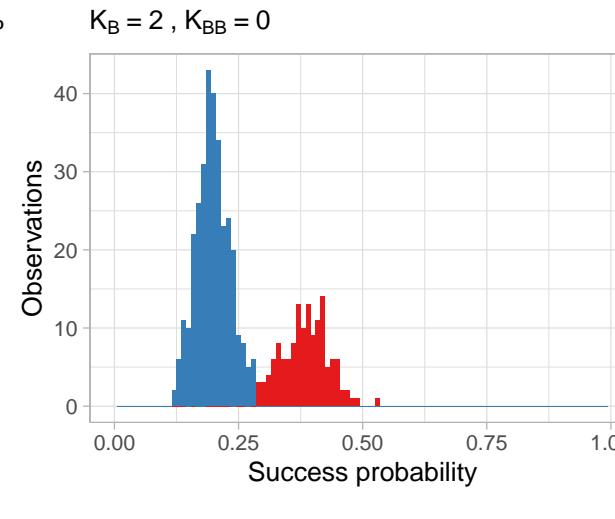
Karyotype: 2:2

N = 474; Tail 5.87%, C1 28.38%, C2 65.75%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



MM ($\omega = 47$; $\epsilon = 3e-07$; SSE 2.038e-03) LV > 0

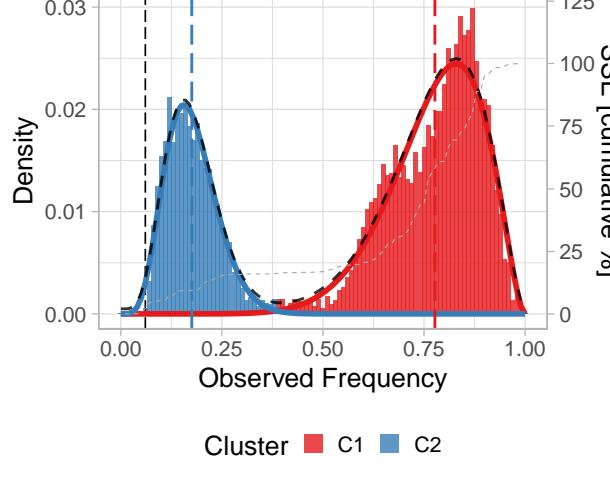
Cluster ■ Bin 1 ■ Bin 2

180207_HMFregCPCT_FR16984622_FR15375013_CPCT02050308

ONLY SNVs (min 150 – max 50000)

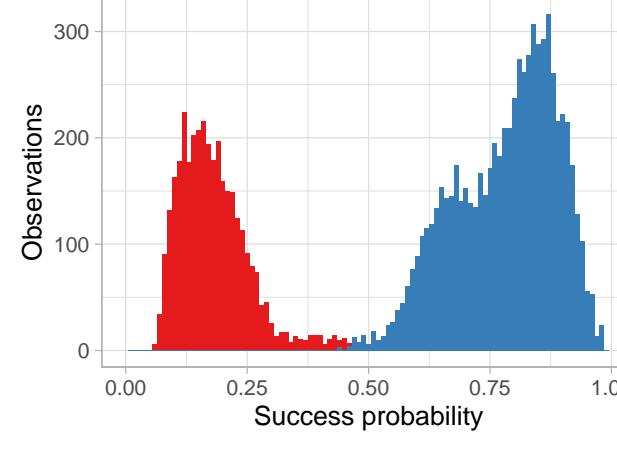
Karyotype: 1:0

N = 10568; Tail 0%, C2 31.8%, C1 68.2%



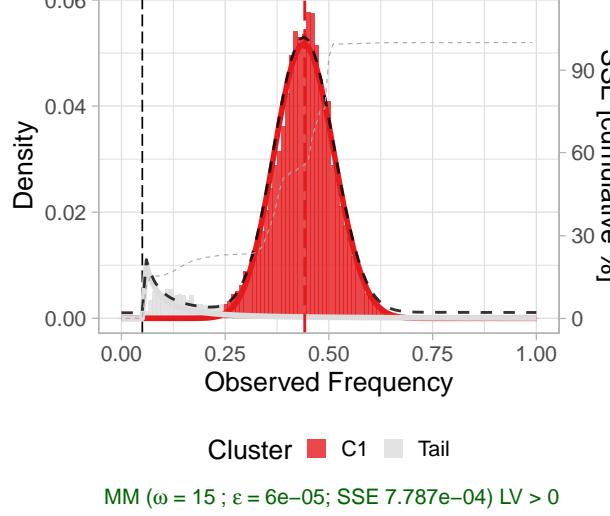
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



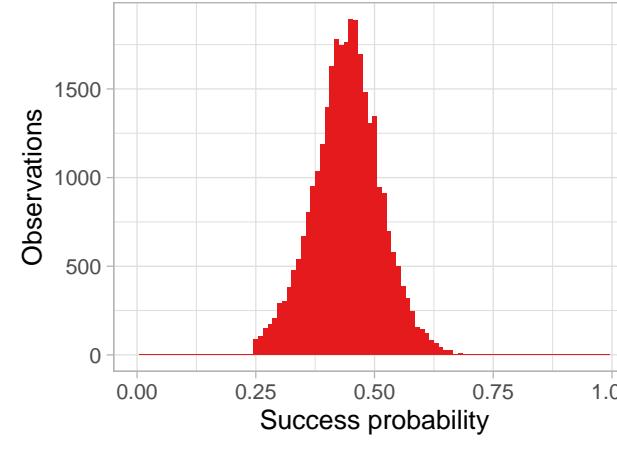
Karyotype: 1:1

N = 32876; Tail 8.13%, C1 91.87%



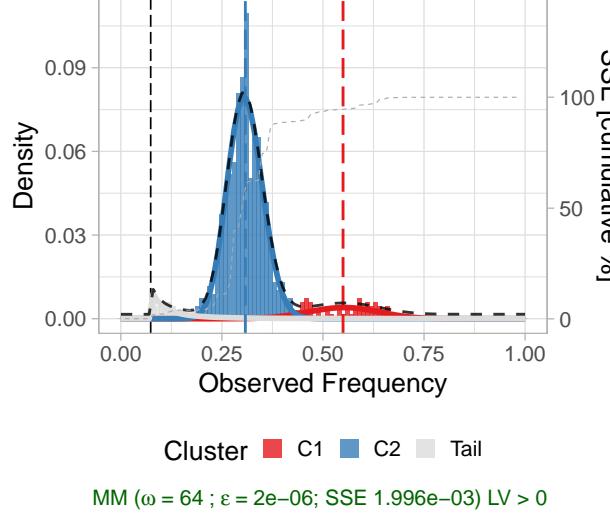
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



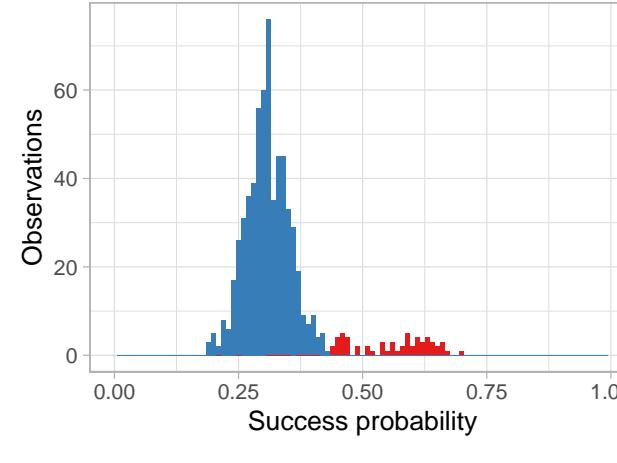
Karyotype: 2:1

N = 693; Tail 4.98%, C1 8.67%, C2 86.35%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



2:0

2:0

2:2

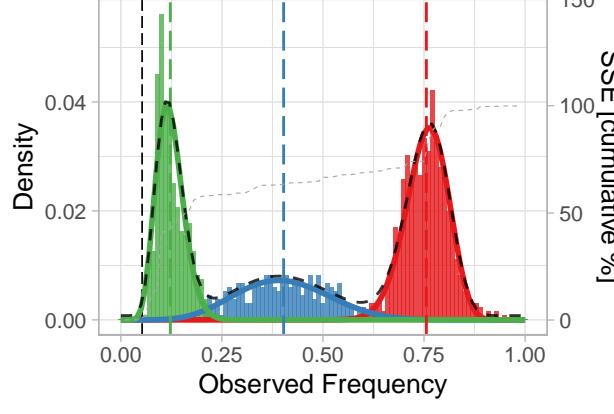
2:2

180207_HMFregCPCT_FR16984742_FR15375017_CPCT02050315

ONLY SNVs (min 150 – max 50000)

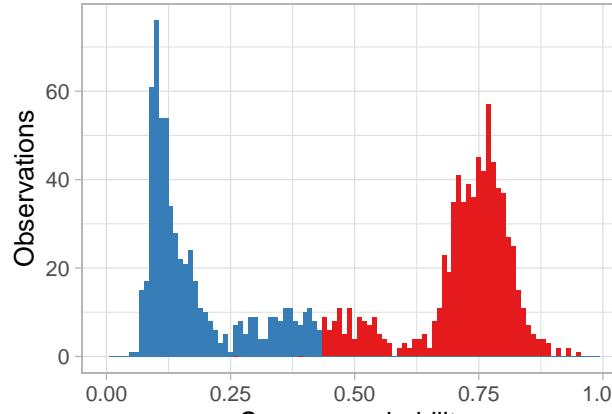
Karyotype: 1:0

N = 1354; Tail 0%, C2 21.03%, C3 32.65%, C1 46.32%



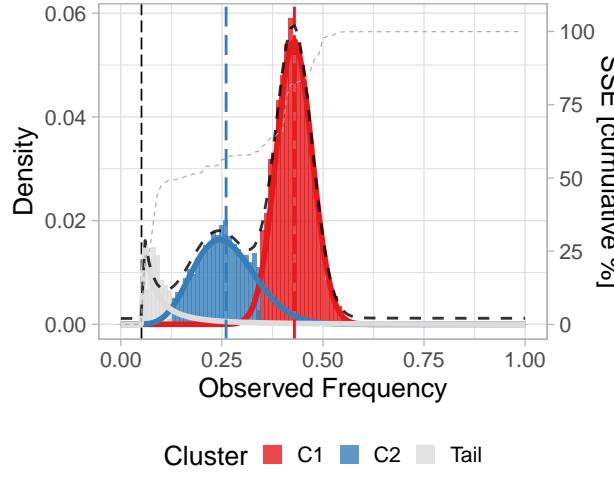
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



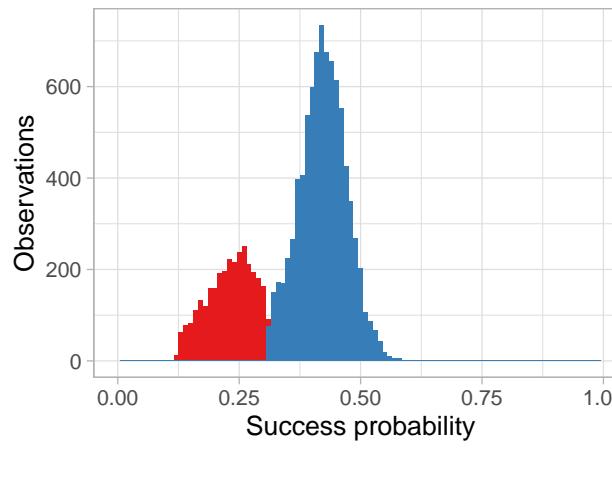
Karyotype: 1:1

N = 12463; Tail 8.62%, C2 30.89%, C1 60.49%



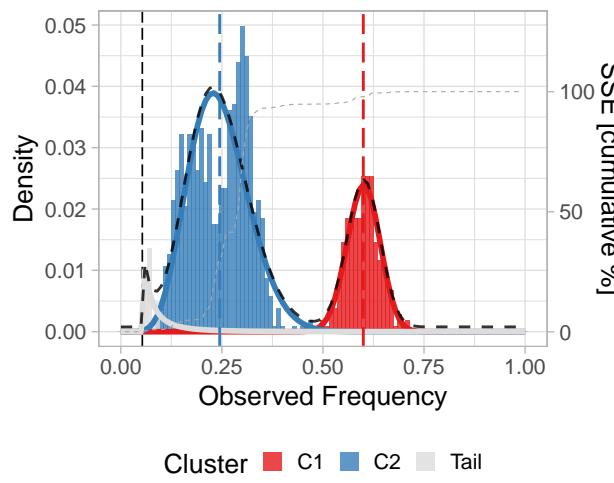
Karyotype: 1:1

$K_B = 2, K_{BB} = 0$



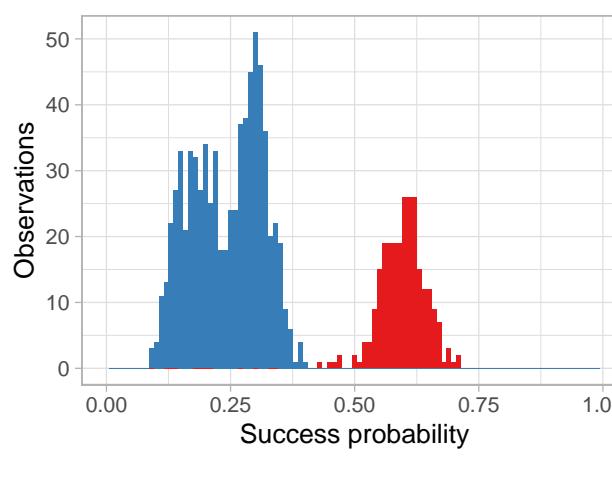
Karyotype: 2:1

N = 1023; Tail 4.15%, C1 24.47%, C2 71.38%



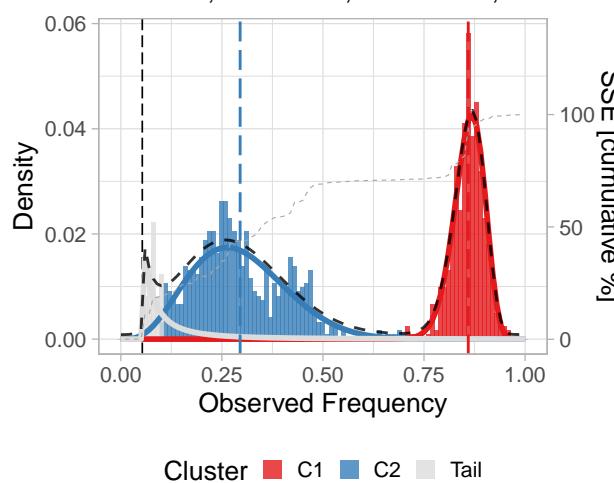
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



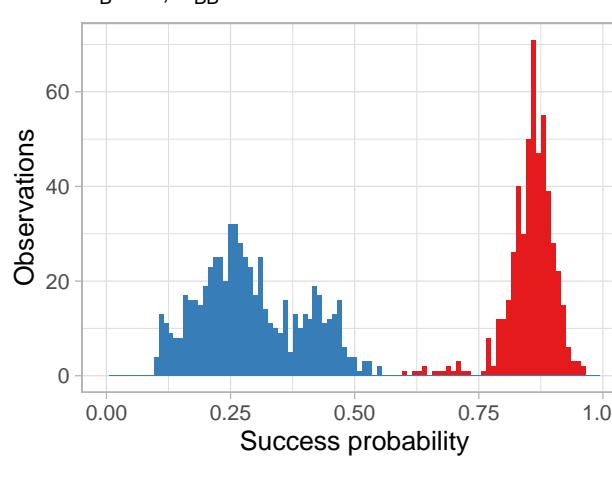
Karyotype: 2:0

N = 1221; Tail 8.75%, C1 40.17%, C2 51.08%

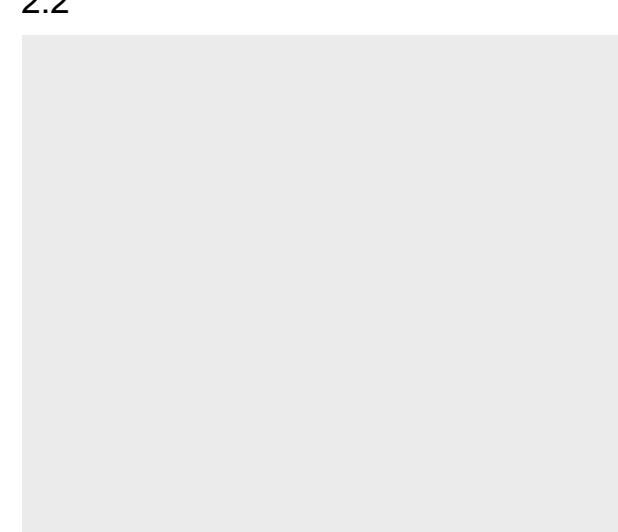


Karyotype: 2:0

$K_B = 2, K_{BB} = 0$

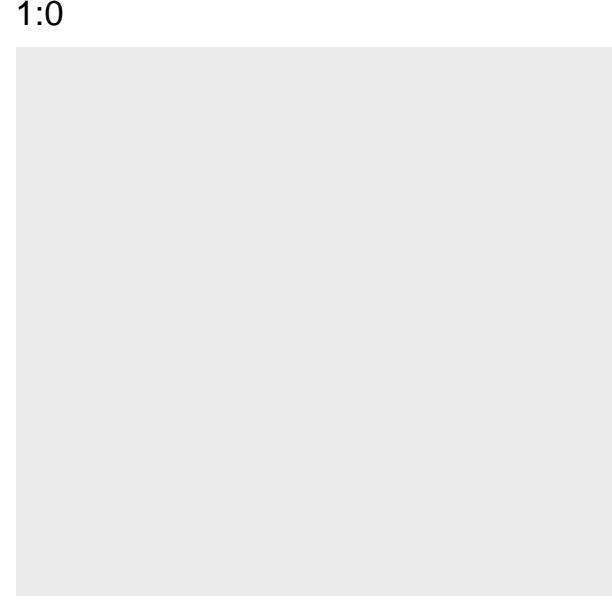
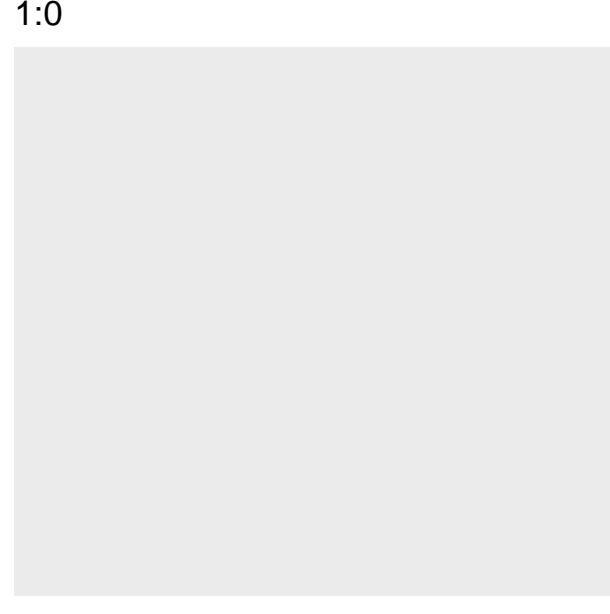


2:2

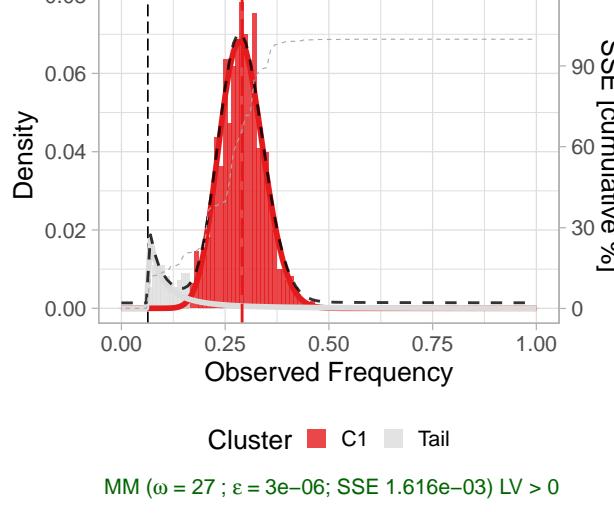


180223_HMFregCPCT_FR13997297_FR14626505_CPCT02070299

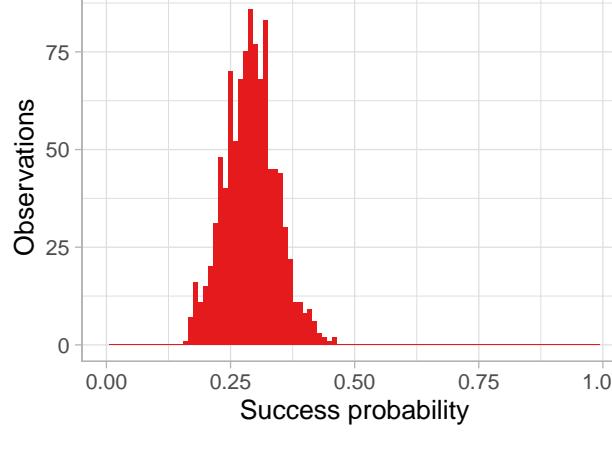
ONLY SNVs (min 150 – max 50000)



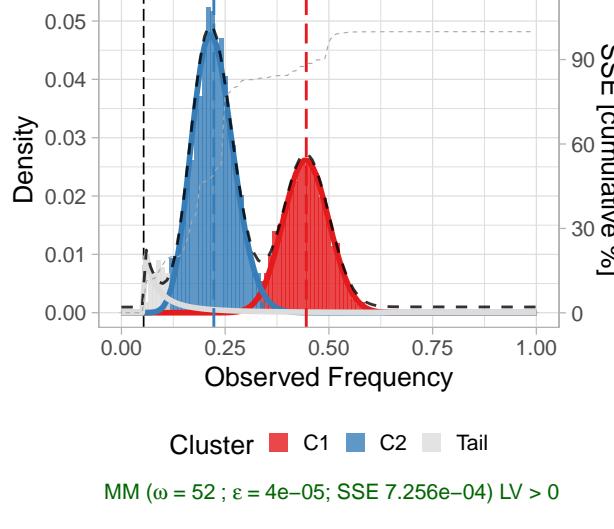
Karyotype: 1:1
N = 1101; Tail 10.05%, C1 89.95%



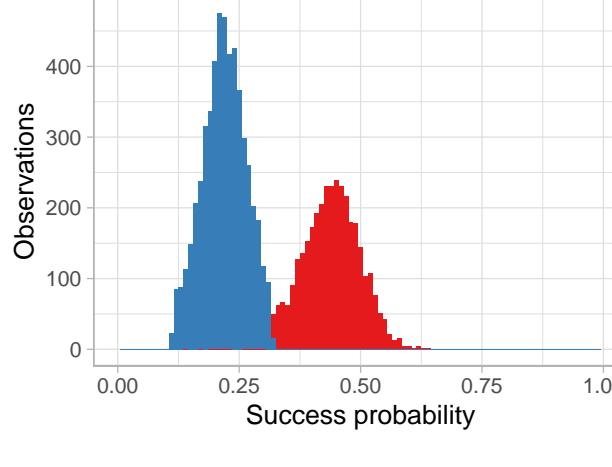
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



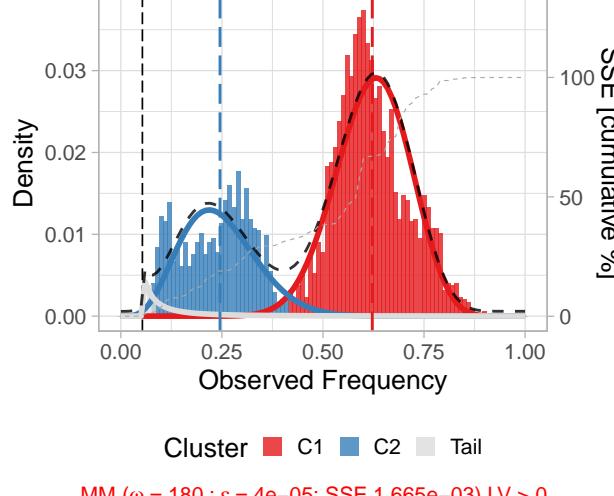
Karyotype: 2:1
N = 9062; Tail 5.39%, C1 35.81%, C2 58.8%



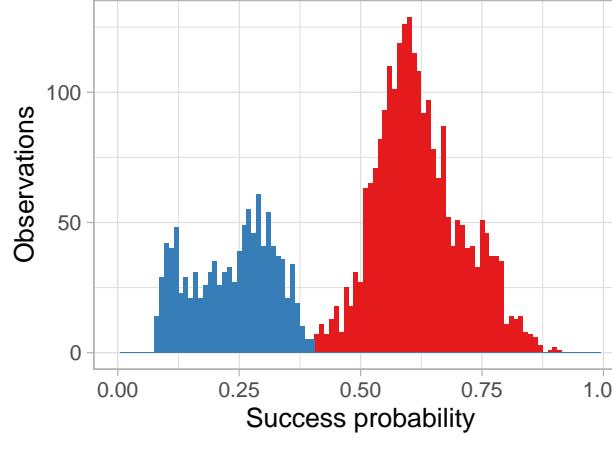
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



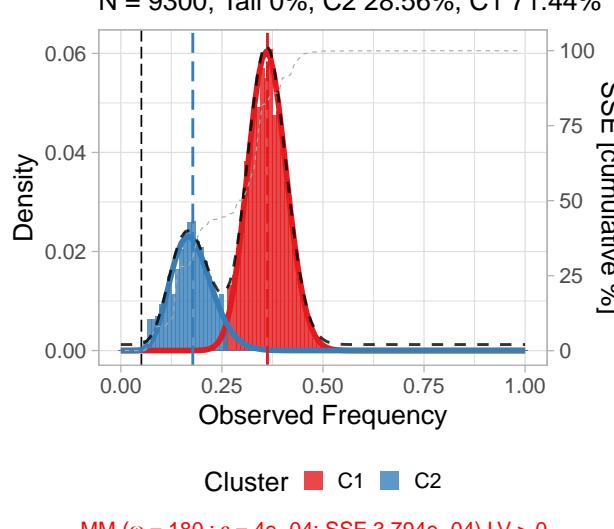
Karyotype: 2:0
N = 3452; Tail 2.38%, C2 29.82%, C1 67.8%



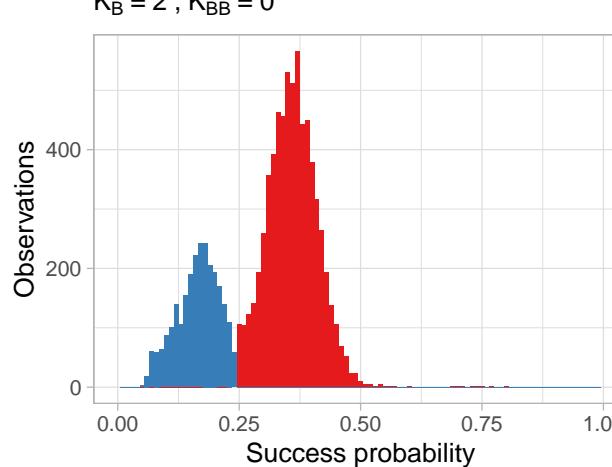
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 9300; Tail 0%, C2 28.56%, C1 71.44%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

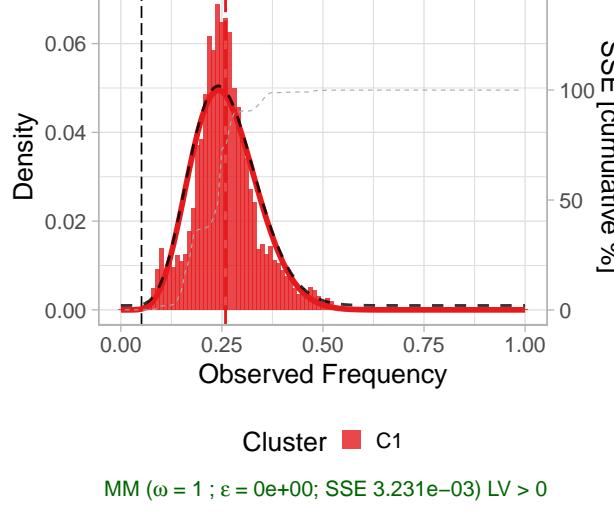


180301_HMFregCPCT_FR15375085_FR13997178_CPCT02120110

ONLY SNVs (min 150 – max 50000)

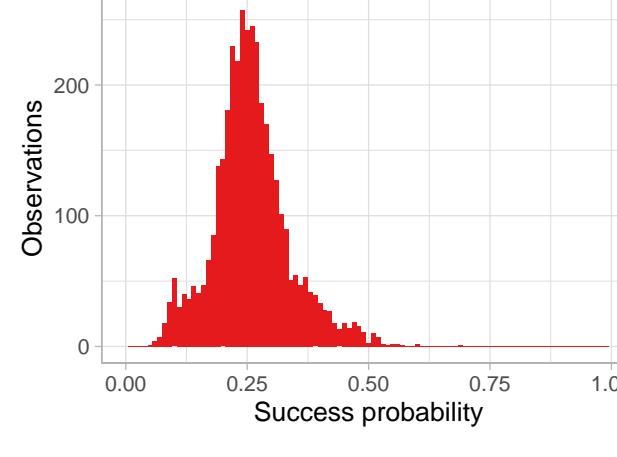
Karyotype: 1:0

N = 3730; Tail 0%, C1 100%



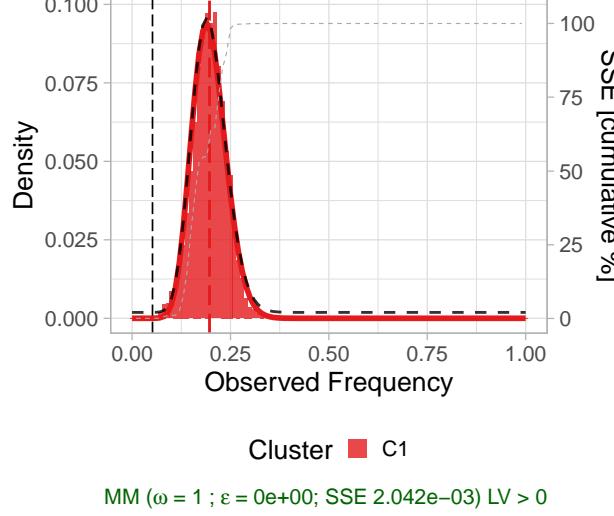
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



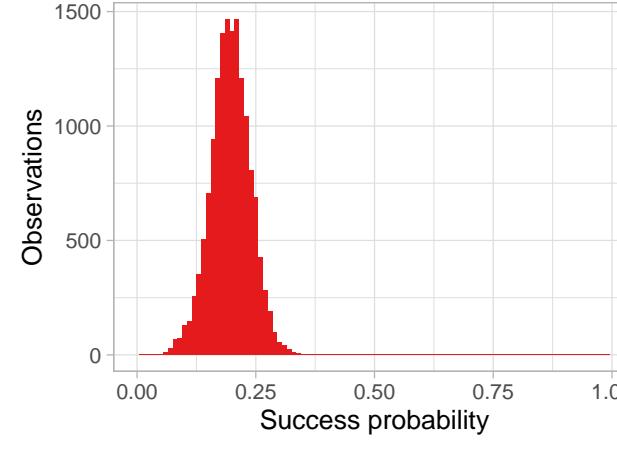
Karyotype: 1:1

N = 15069; Tail 0%, C1 100%



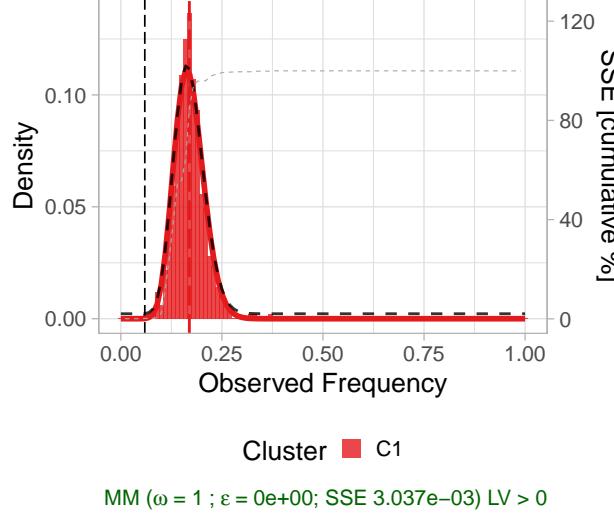
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



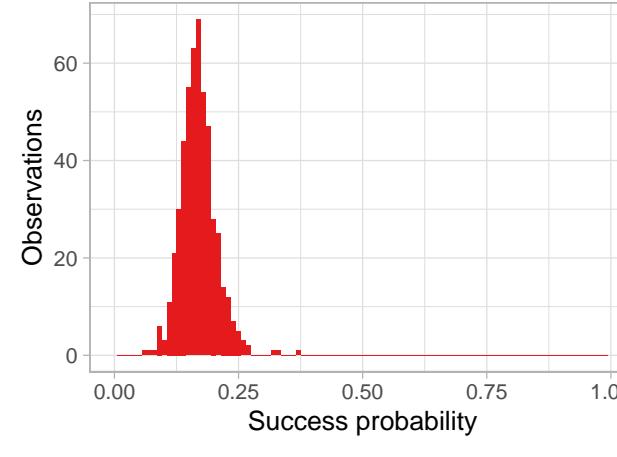
Karyotype: 2:1

N = 505; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$



2:0

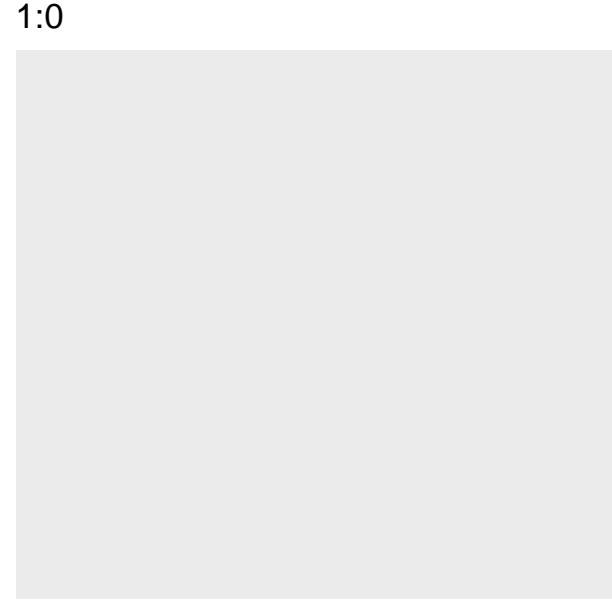
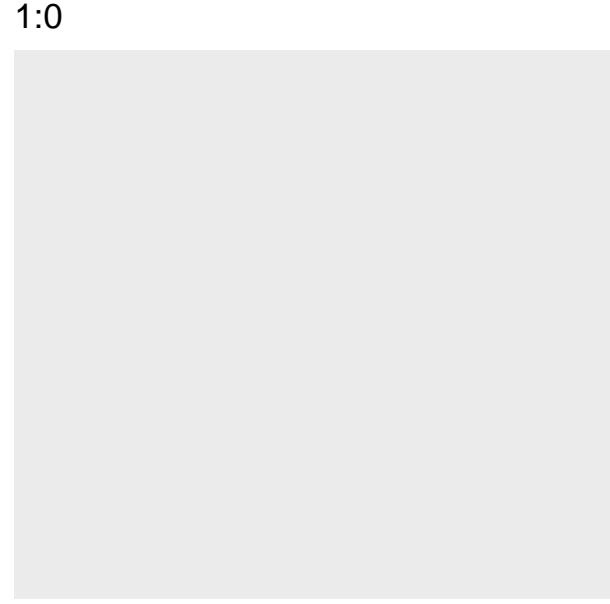
2:0

2:2

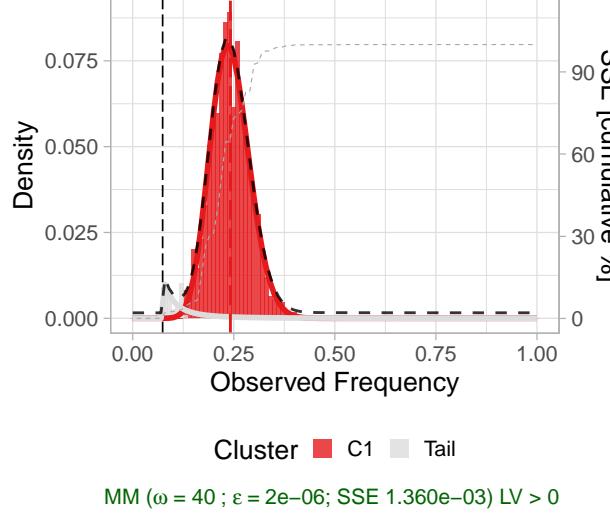
2:2

180308_HMFregCPCT_FR15375161_FR14626705_CPCT02010760

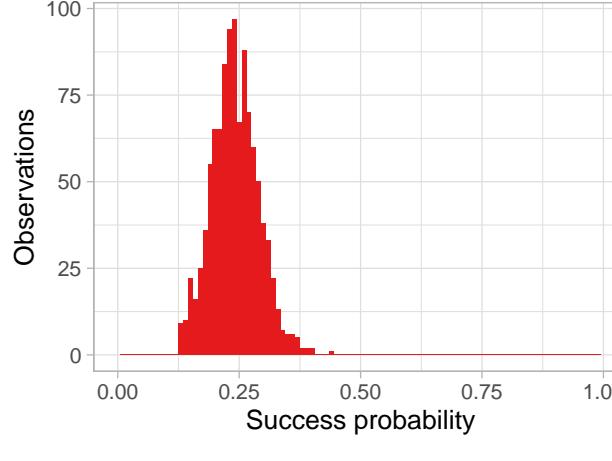
ONLY SNVs (min 150 – max 50000)



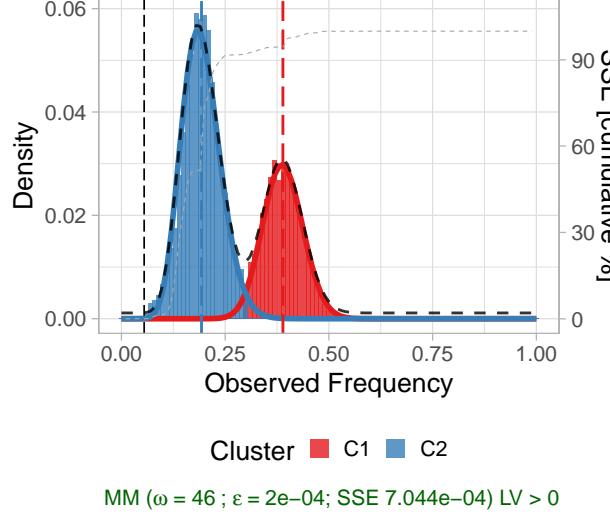
Karyotype: 1:1
N = 1089; Tail 4.78%, C1 95.22%



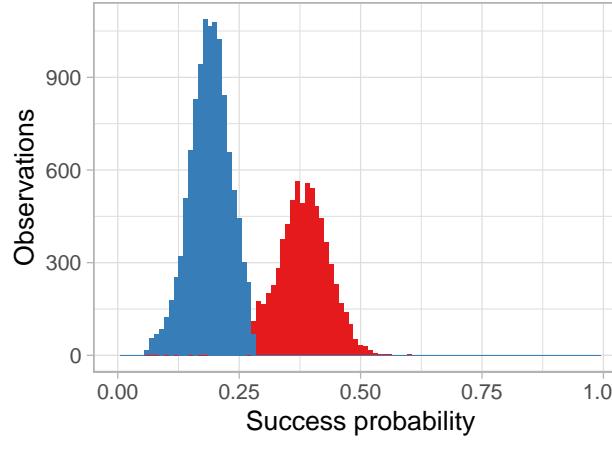
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



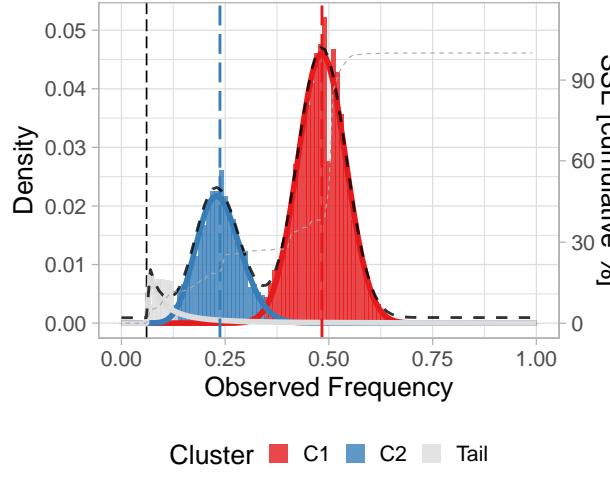
Karyotype: 2:1
N = 18386; Tail 0%, C1 35.93%, C2 64.07%



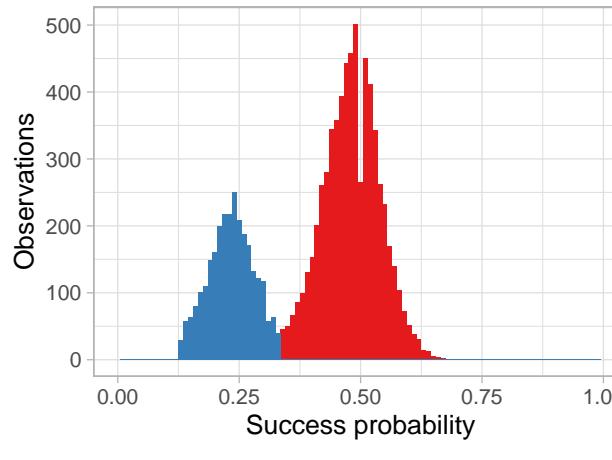
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



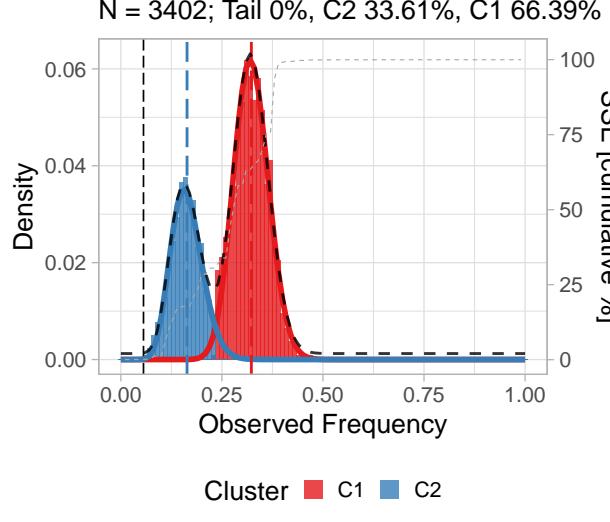
Karyotype: 2:0
N = 9617; Tail 5.27%, C2 28.49%, C1 66.24%



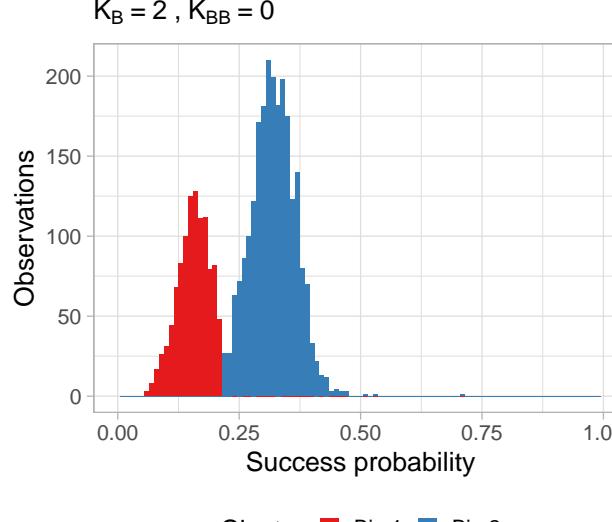
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 3402; Tail 0%, C2 33.61%, C1 66.39%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

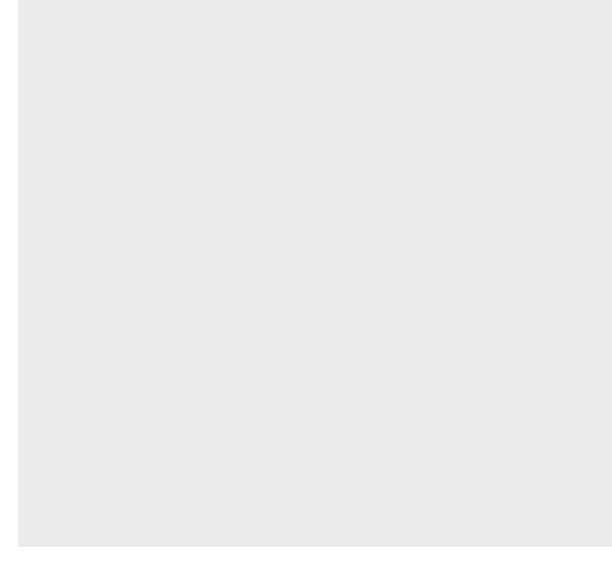
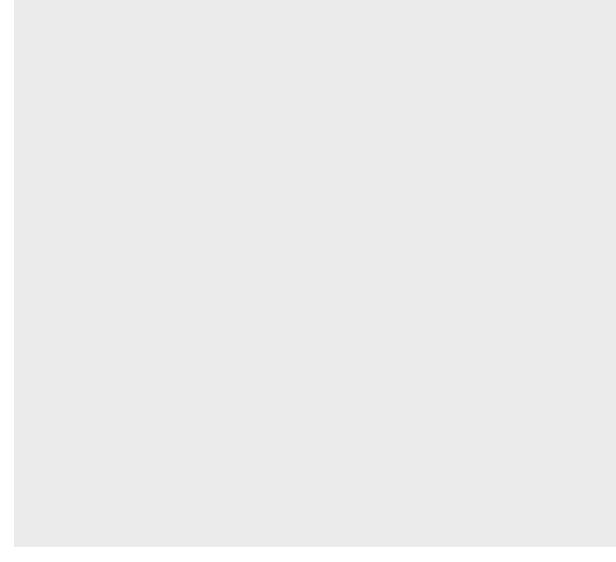


180308_HMFregCPCT_FR15375254_FR14626684_CPCT02050322

ONLY SNVs (min 150 – max 50000)

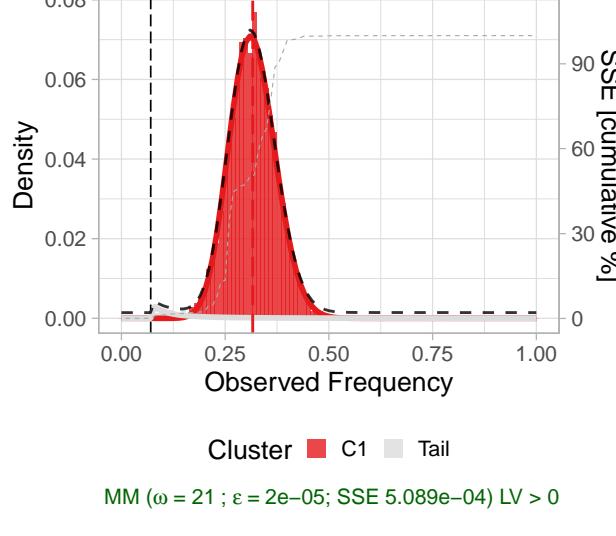
1:0

1:0



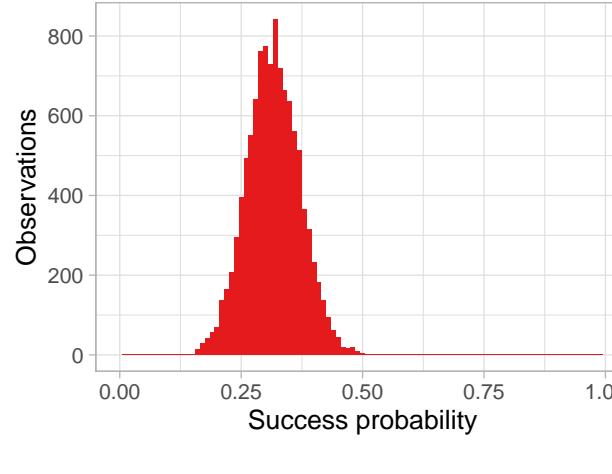
Karyotype: 1:1

N = 10974; Tail 2.18%, C1 97.82%



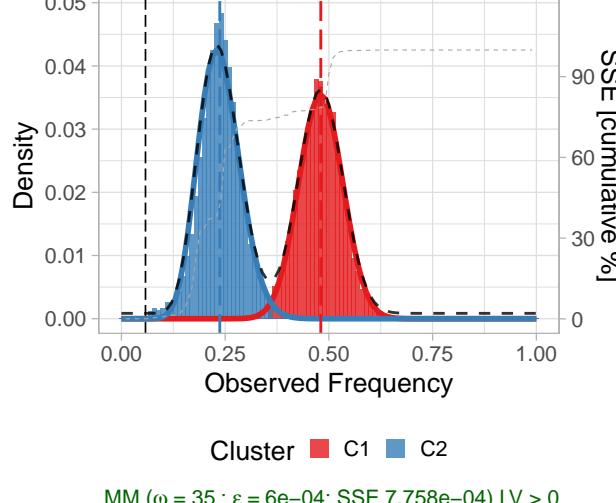
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



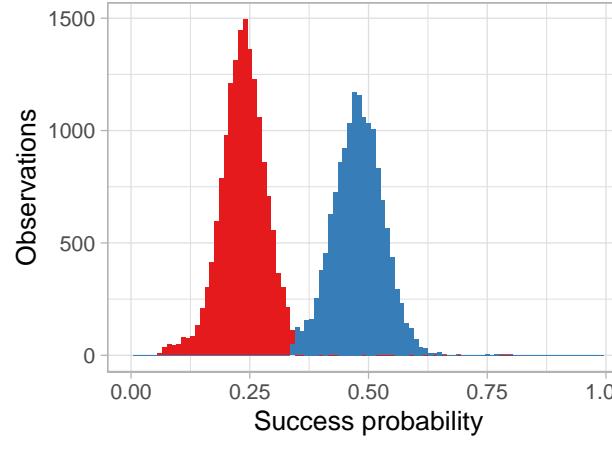
Karyotype: 2:1

N = 30895; Tail 0%, C1 47.09%, C2 52.91%



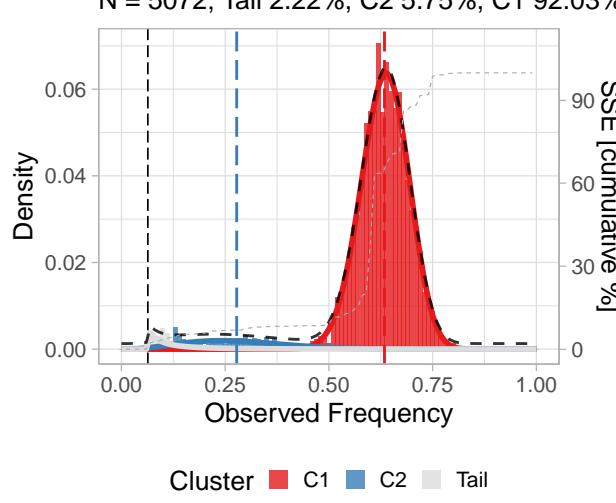
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



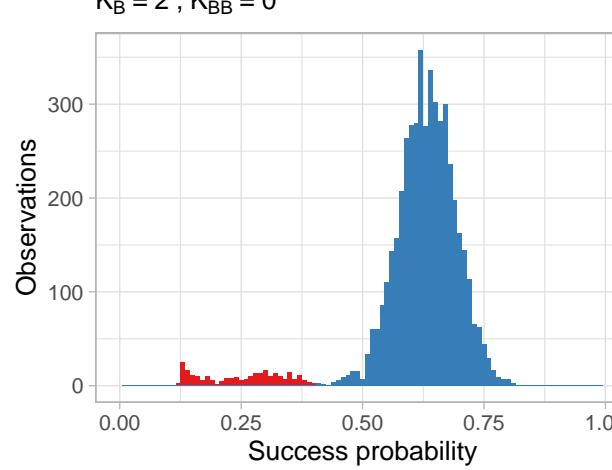
Karyotype: 2:0

N = 5072; Tail 2.22%, C2 5.75%, C1 92.03%



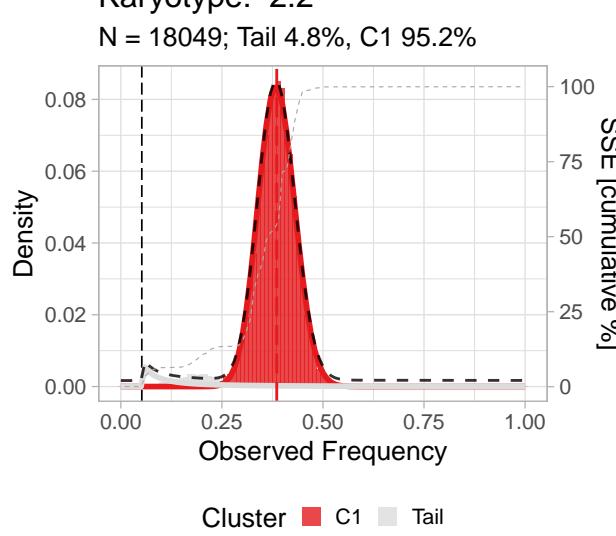
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



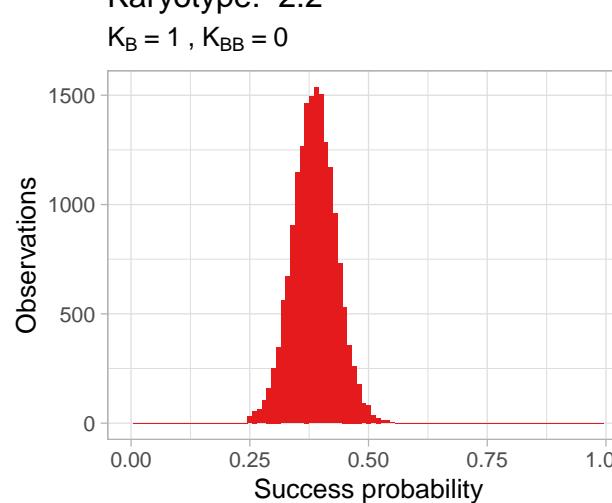
Karyotype: 2:2

N = 18049; Tail 4.8%, C1 95.2%



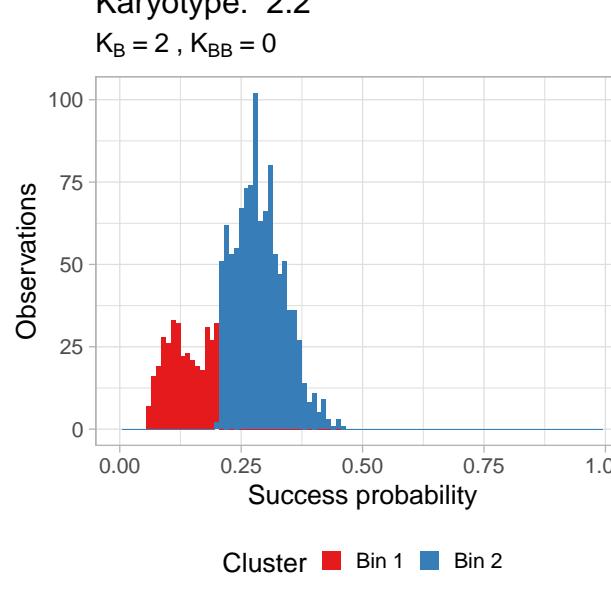
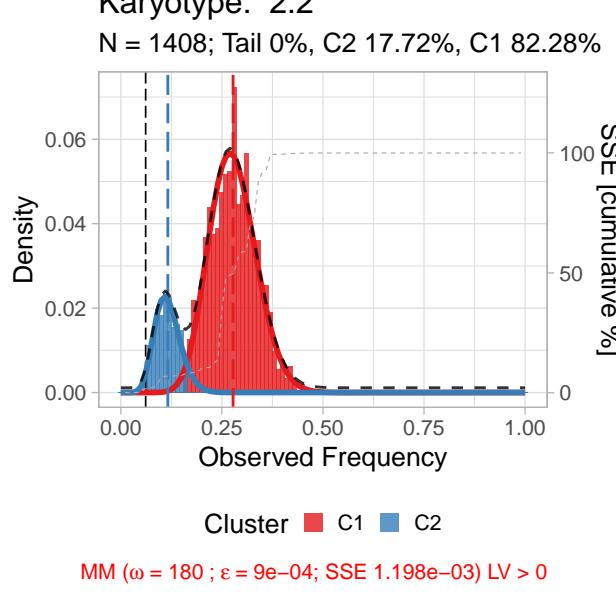
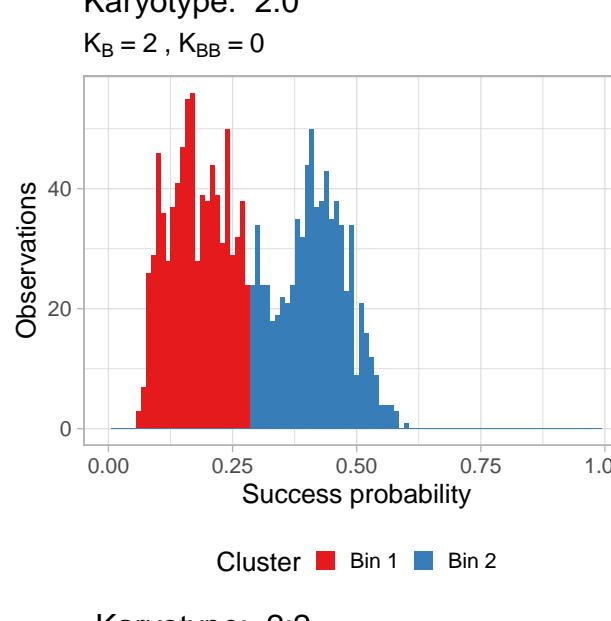
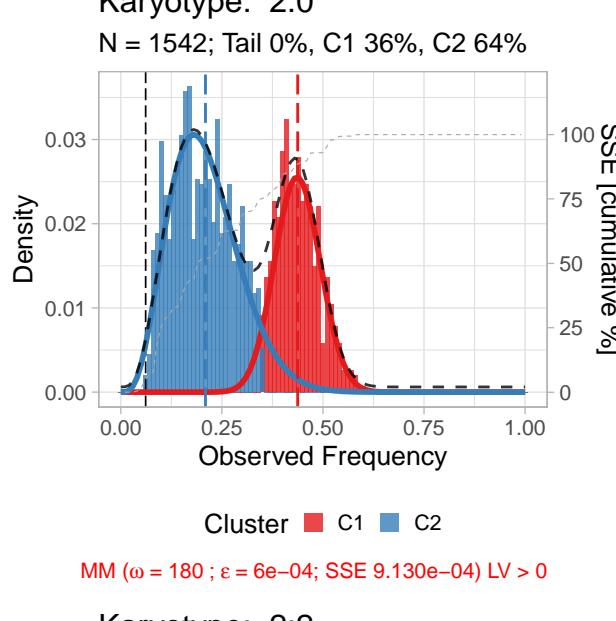
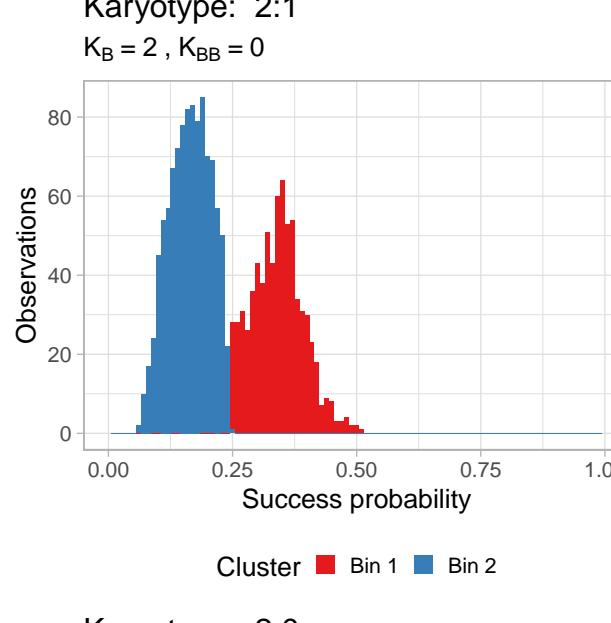
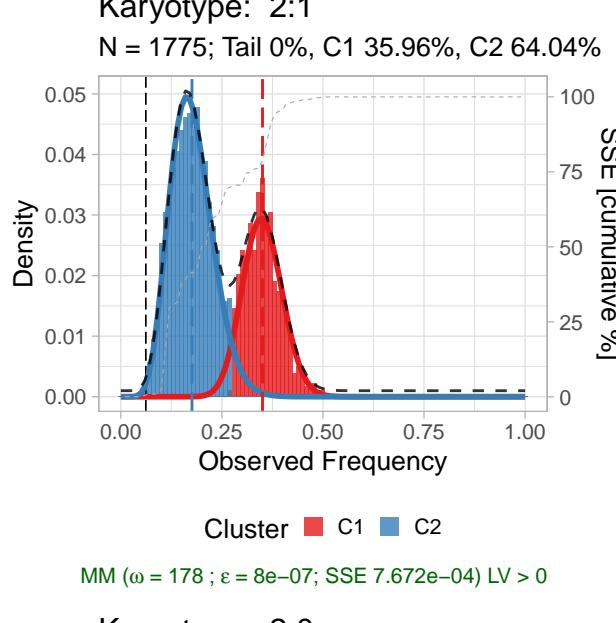
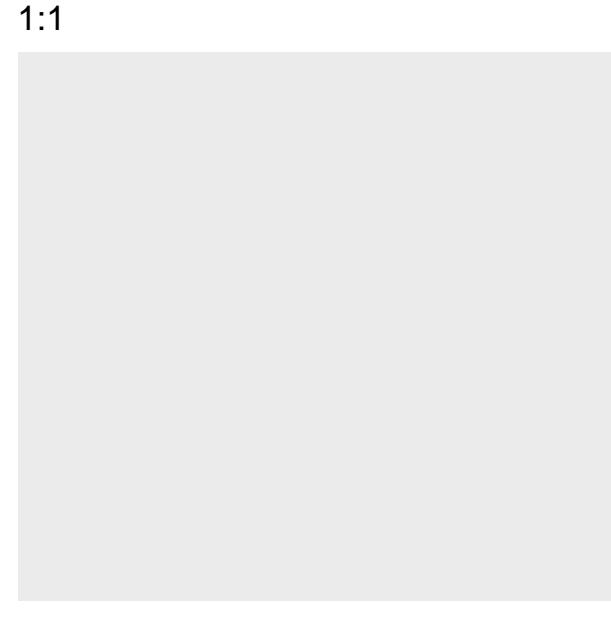
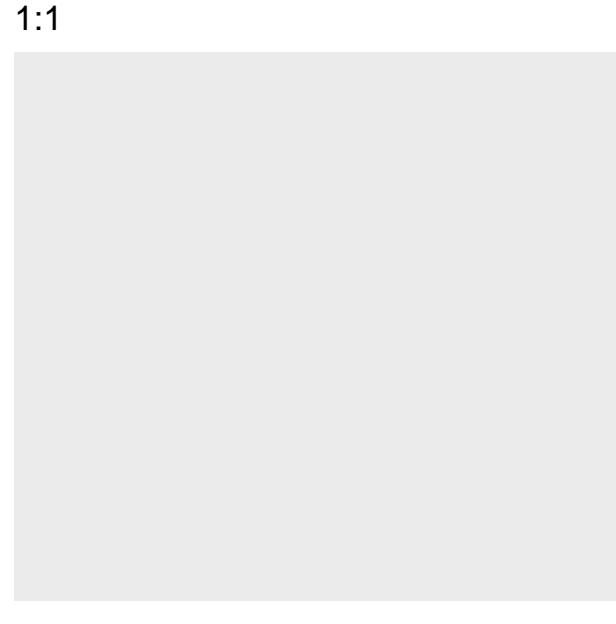
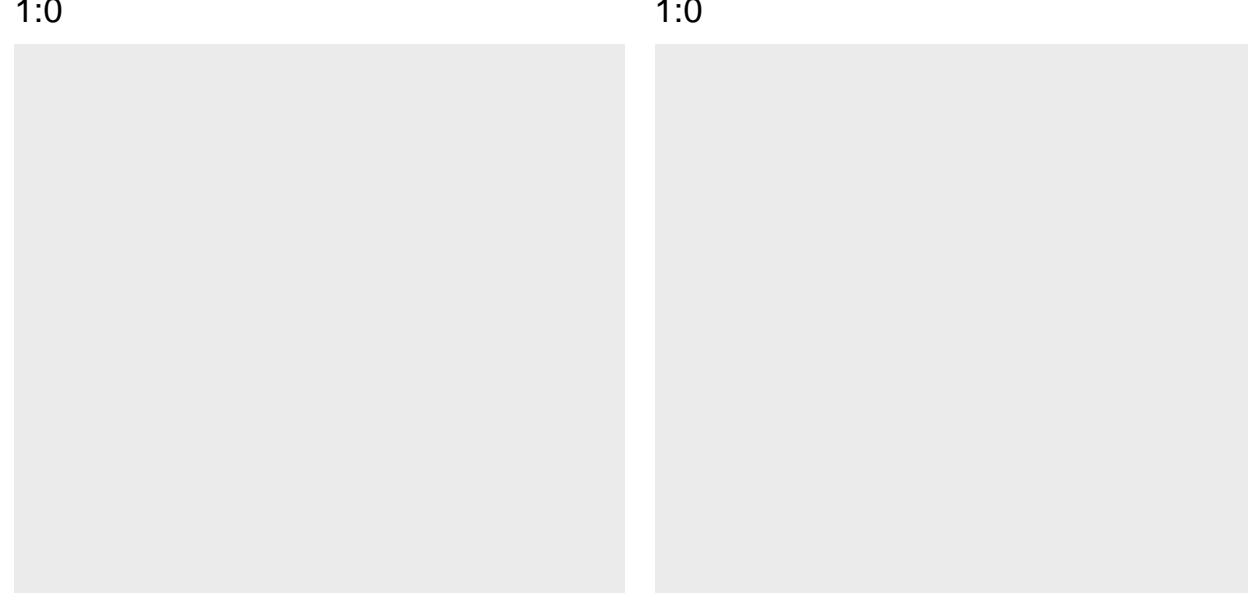
Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$



180308_HMFregCPCT_FR16984956_FR14626708_CPCT02010779

ONLY SNVs (min 150 – max 50000)

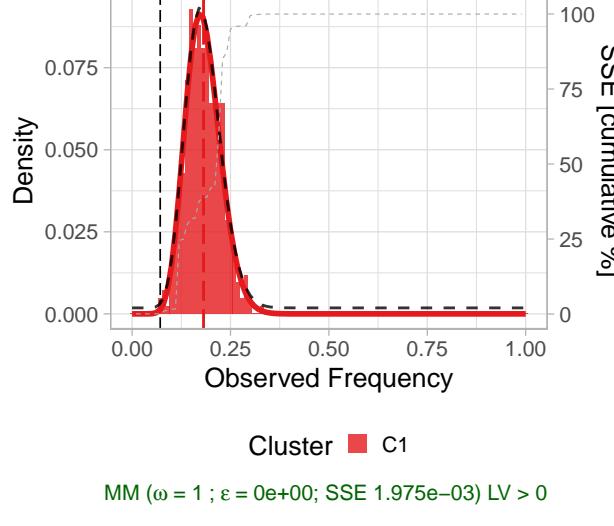


180322_HMFregCPCT_FR15374062_FR14626729_CPCT02100149

ONLY SNVs (min 150 – max 50000)

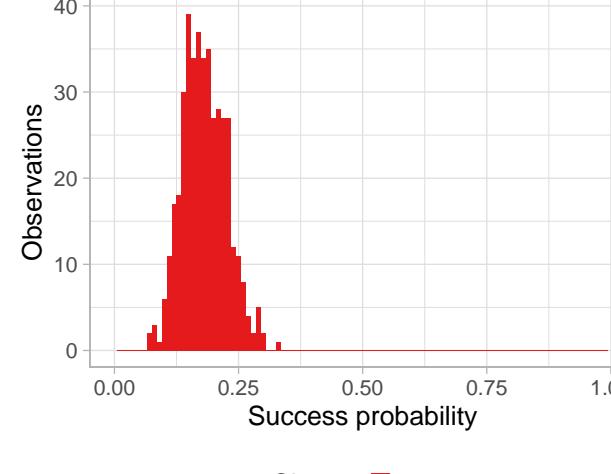
Karyotype: 1:0

N = 421; Tail 0%, C1 100%



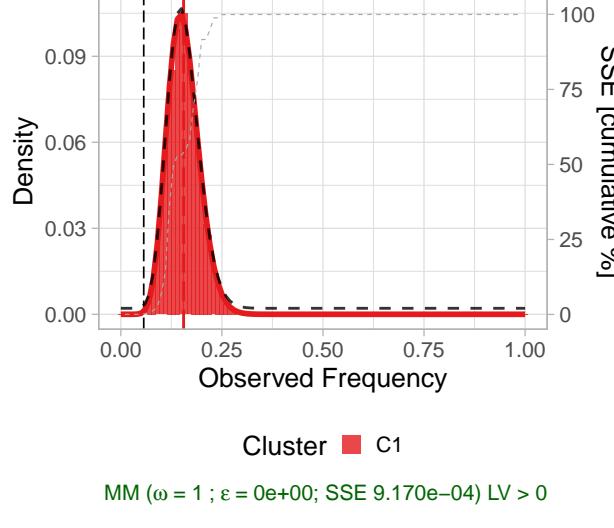
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



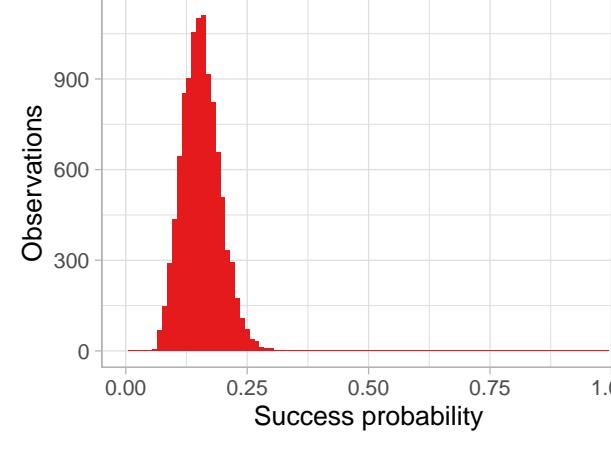
Karyotype: 1:1

N = 10596; Tail 0%, C1 100%



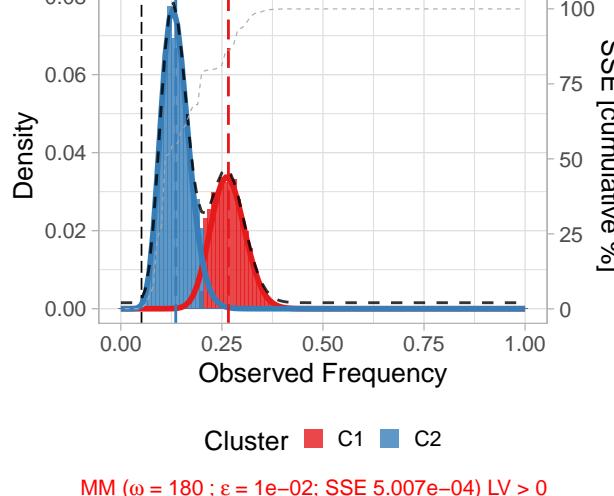
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



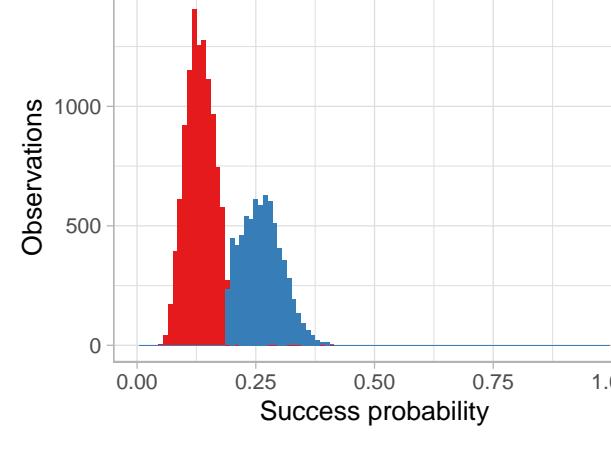
Karyotype: 2:1

N = 18106; Tail 0%, C1 35.52%, C2 64.48%



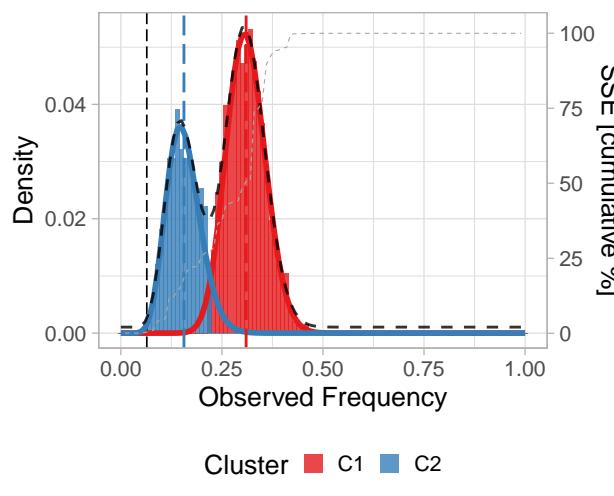
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



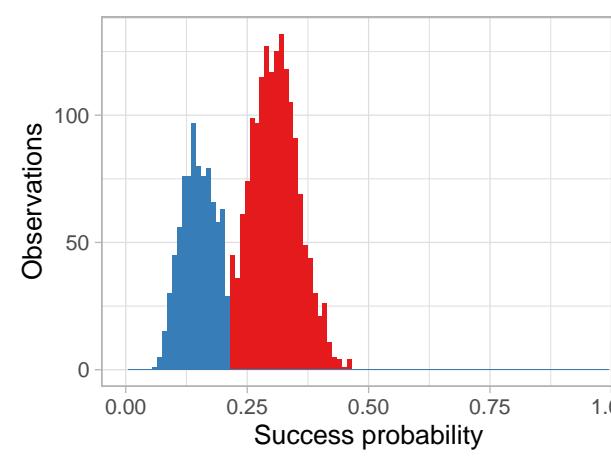
Karyotype: 2:0

N = 2484; Tail 0%, C2 36.98%, C1 63.02%



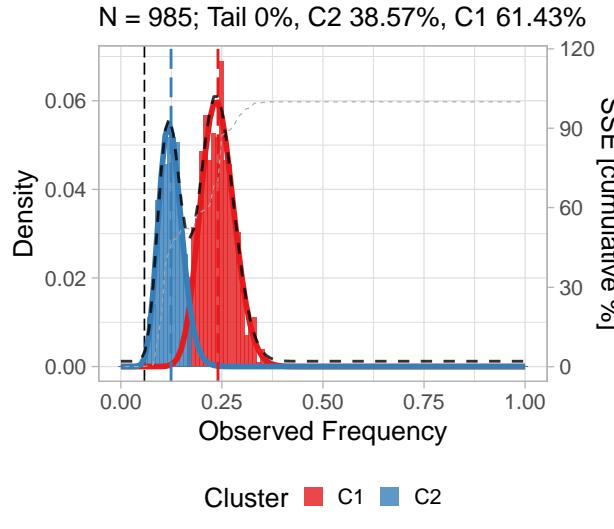
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



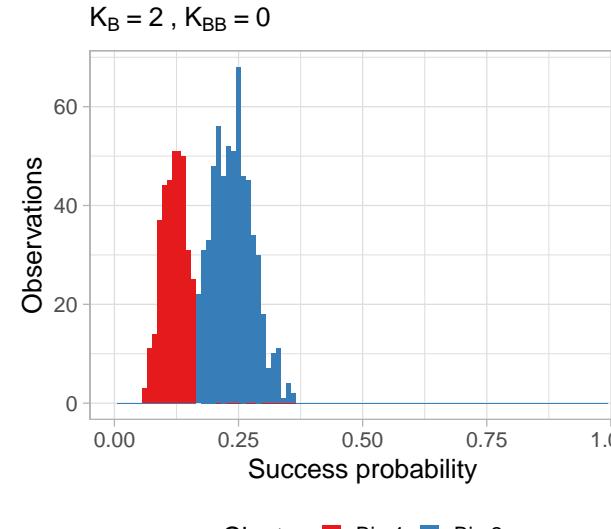
Karyotype: 2:2

N = 985; Tail 0%, C2 38.57%, C1 61.43%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

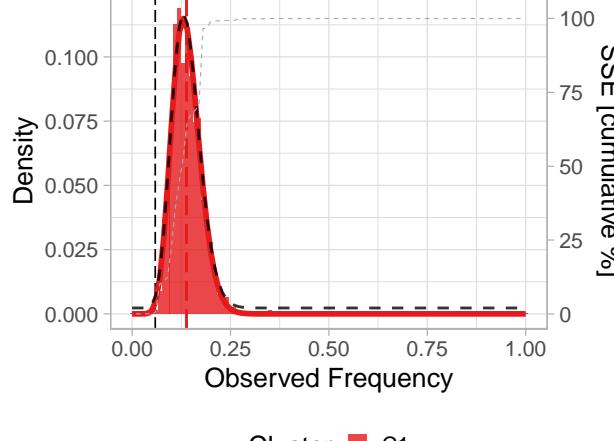


180322_HMFregCPCT_FR15375274_FR14626730_CPCT02100156

ONLY SNVs (min 150 – max 50000)

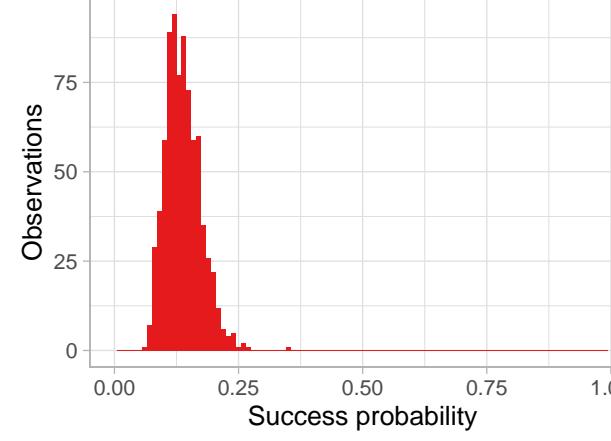
Karyotype: 1:0

N = 790; Tail 0%, C1 100%



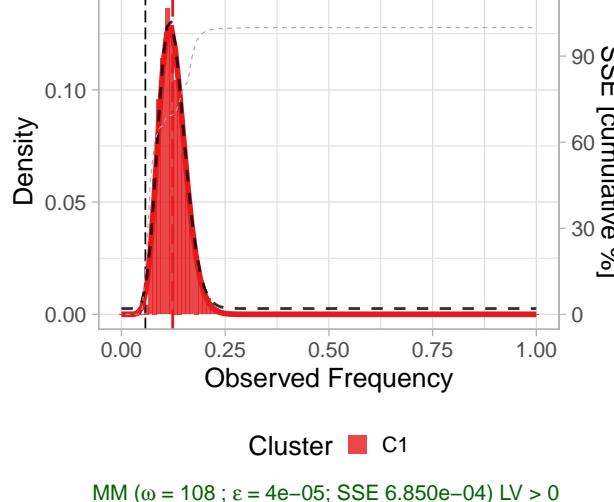
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



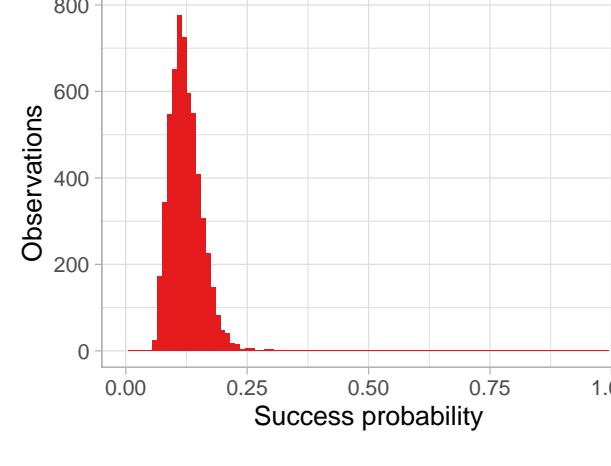
Karyotype: 1:1

N = 5702; Tail 0%, C1 100%



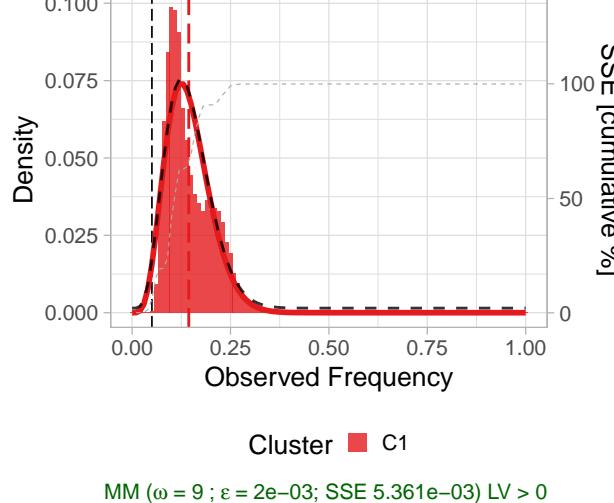
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



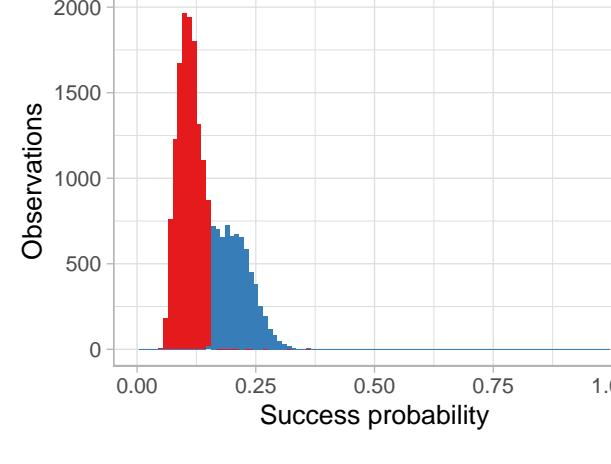
Karyotype: 2:1

N = 19876; Tail 0%, C1 100%



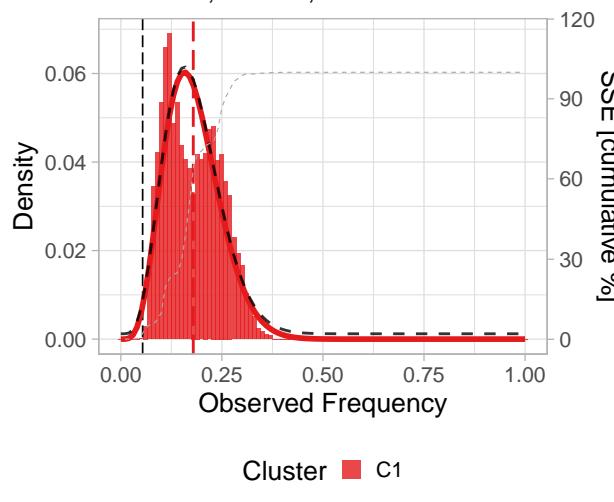
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



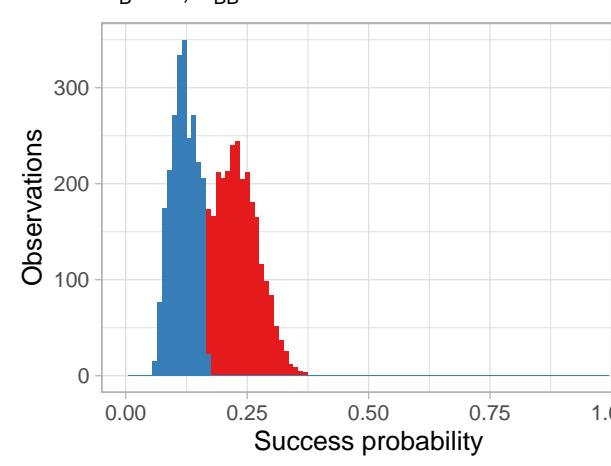
Karyotype: 2:0

N = 5067; Tail 0%, C1 100%



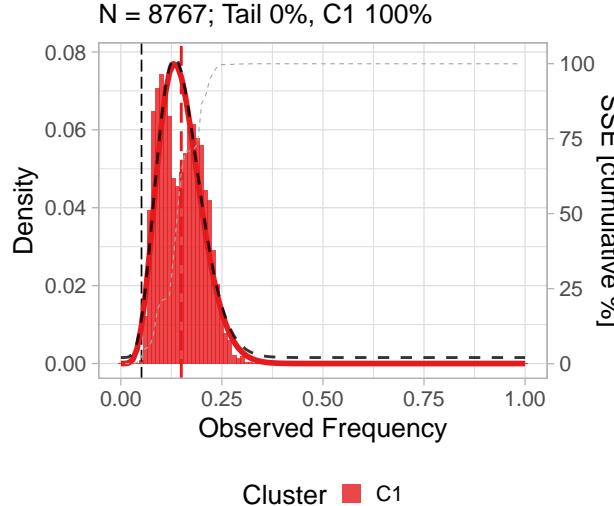
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



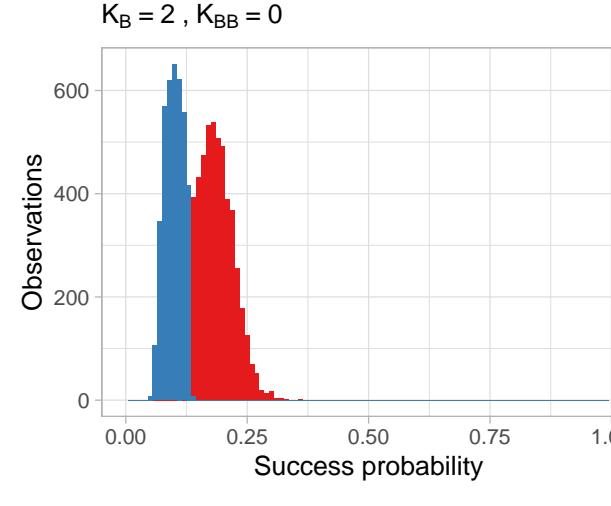
Karyotype: 2:2

N = 8767; Tail 0%, C1 100%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

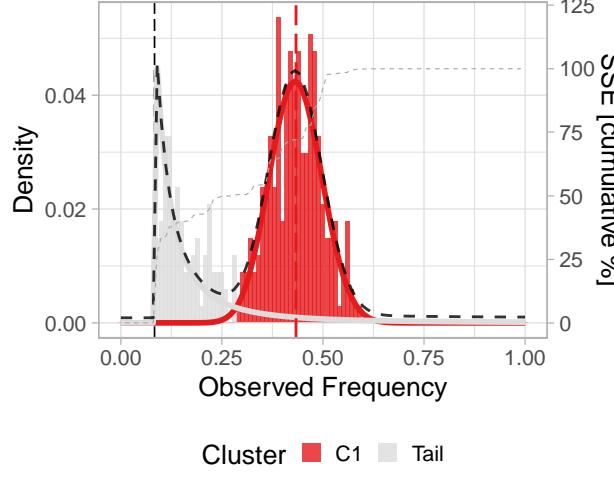


180330_HMFregCPCT_FR15375172_FR16982726_CPCT02020686

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

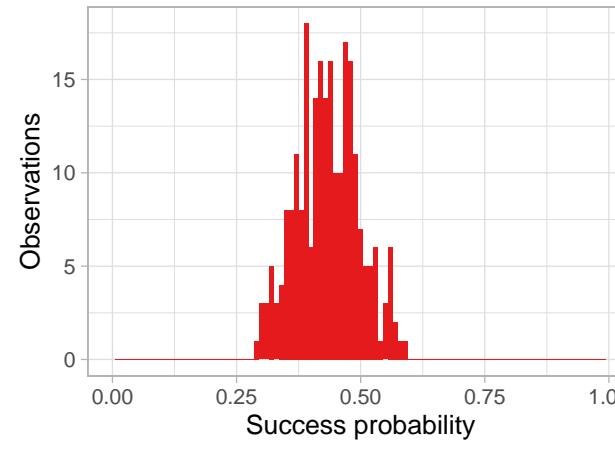
N = 335; Tail 31.17%, C1 68.83%



MM ($\omega = 21$; $\epsilon = 4e-07$; SSE $4.607e-03$) LV > 0

Karyotype: 1:0

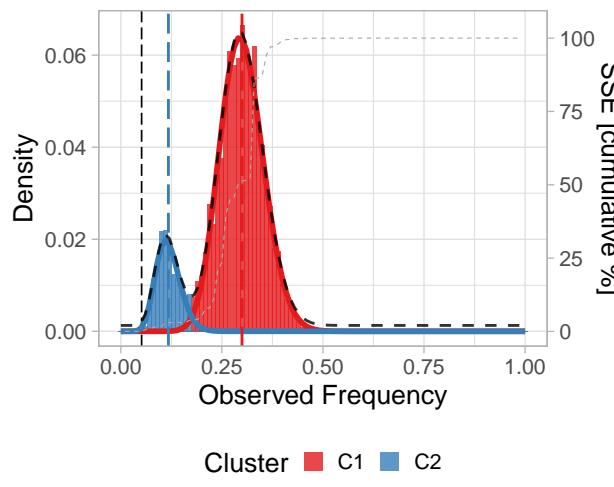
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 1:1

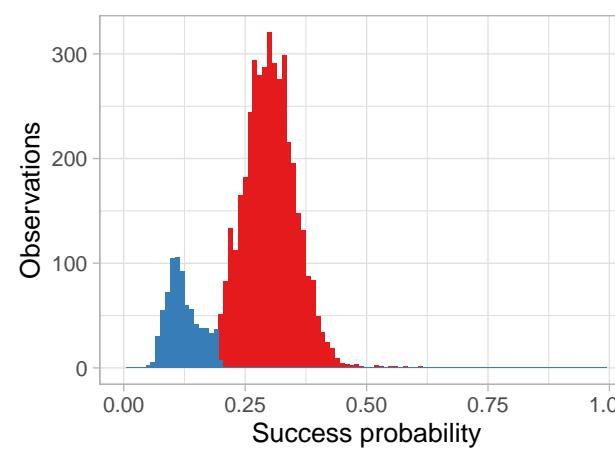
N = 4831; Tail 0%, C2 14.52%, C1 85.48%



MM ($\omega = 69$; $\epsilon = 3e-05$; SSE $6.785e-04$) LV > 0

Karyotype: 1:1

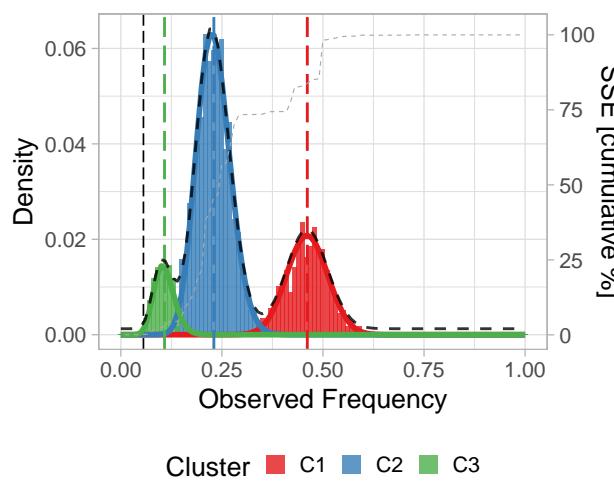
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:1

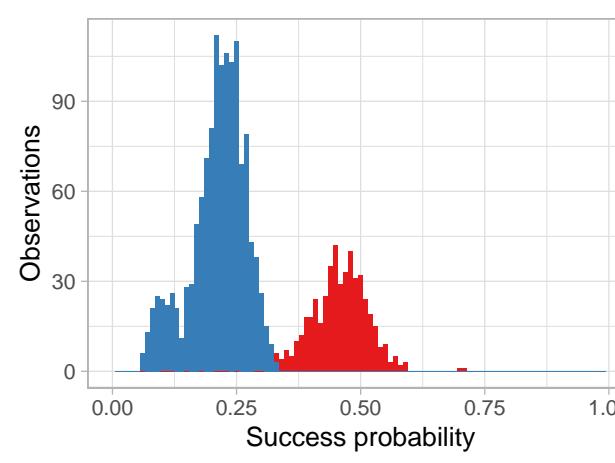
N = 1777; Tail 0%, C3 8.96%, C1 26.32%, C2



MM ($\omega = 180$; $\epsilon = 1e-02$; SSE $7.593e-04$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$

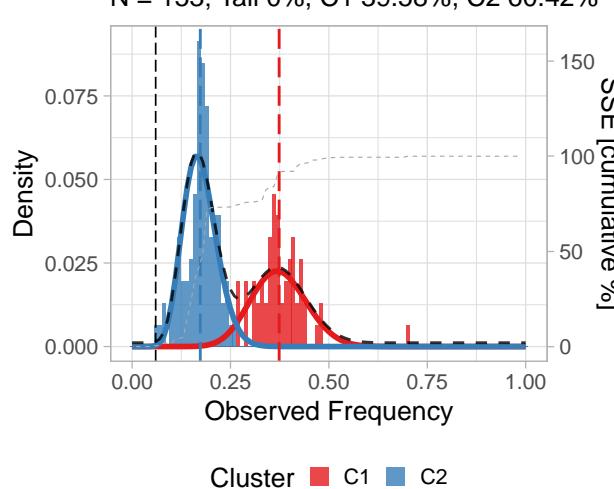


Cluster Bin 1 Bin 2

2:0

Karyotype: 2:2

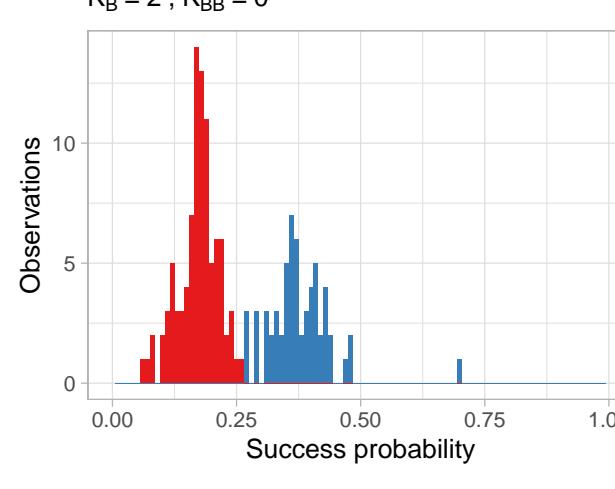
N = 153; Tail 0%, C1 39.58%, C2 60.42%



MM ($\omega = 57$; $\epsilon = 2e-06$; SSE $8.012e-03$) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



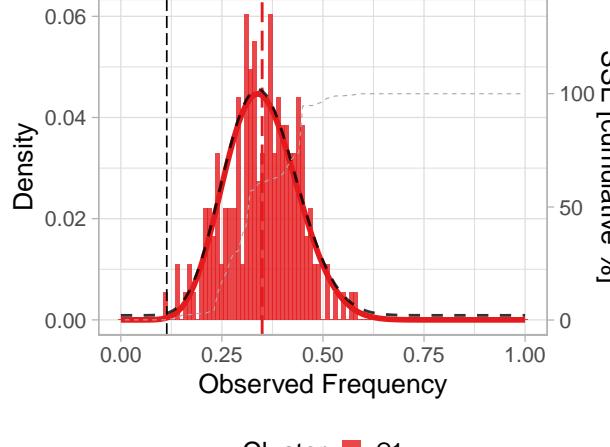
Cluster Bin 1 Bin 2

180407_HMFregCPCT_FR16982666_FR14624241_CPCT02010807

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

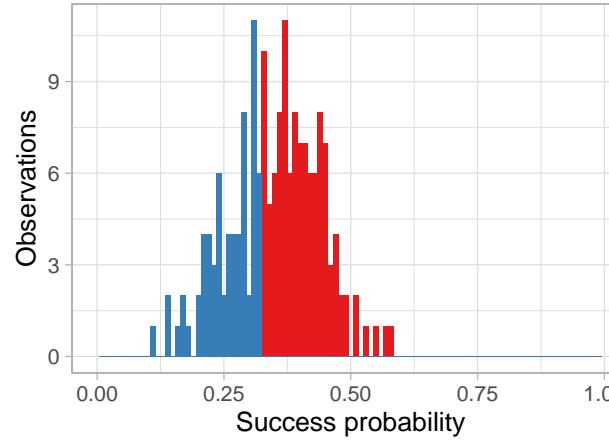
N = 182; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 5.075e-03) LV > 0

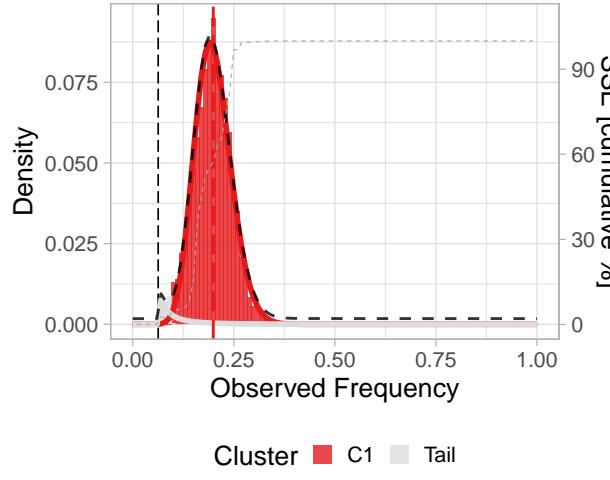
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

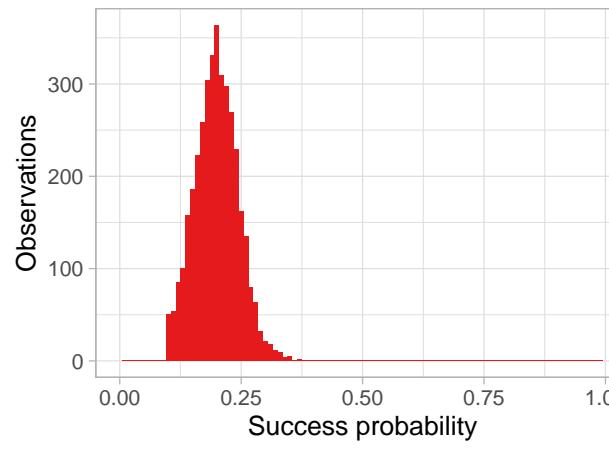
N = 3841; Tail 3.36%, C1 96.64%



MM ($\omega = 54$; $\epsilon = 2e-05$; SSE 1.240e-03) LV > 0

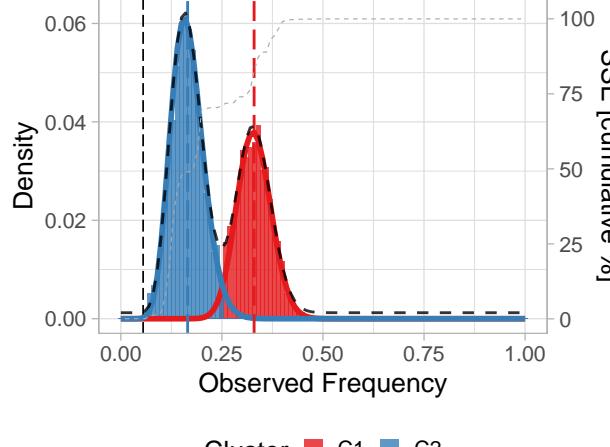
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

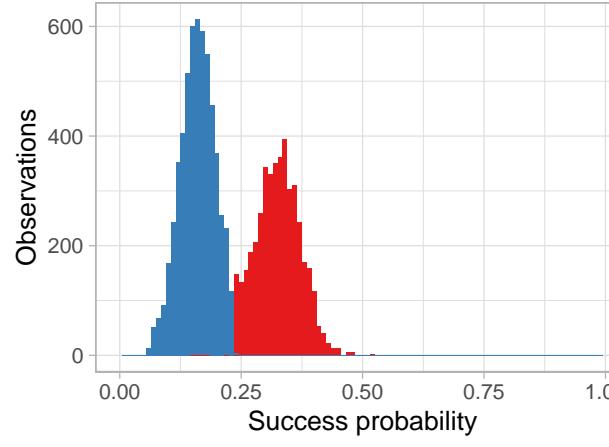
N = 10045; Tail 0%, C1 39.98%, C2 60.02%



MM ($\omega = 180$; $\epsilon = 3e-04$; SSE 5.447e-04) LV > 0

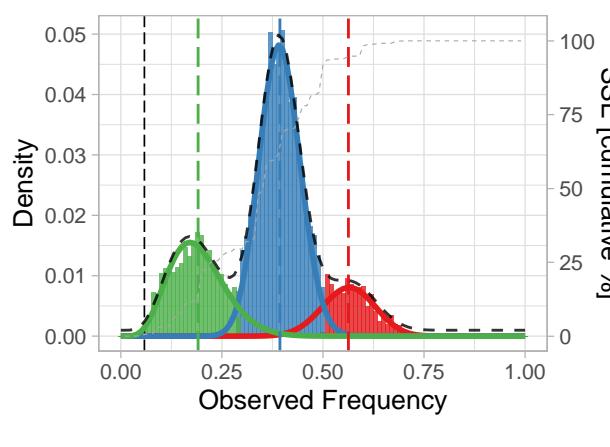
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

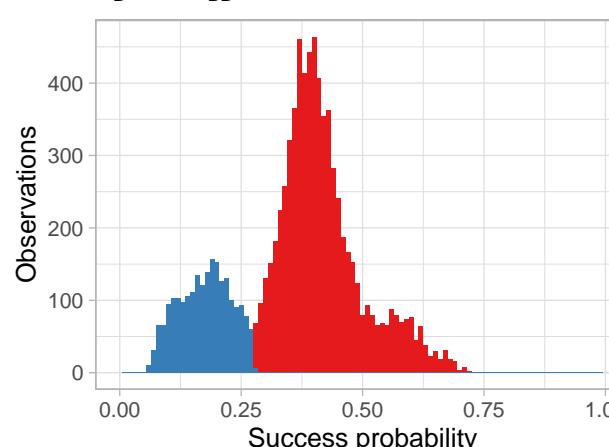
N = 9165; Tail 0%, C1 13.05%, C3 26.07%, C2 60.9%



MM ($\omega = 180$; $\epsilon = 2e-02$; SSE 3.252e-04) LV > 0

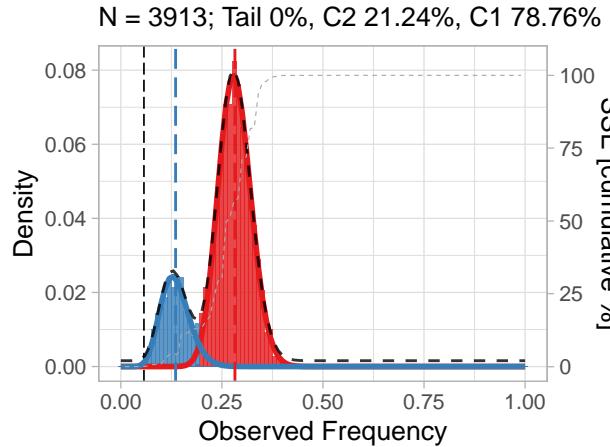
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

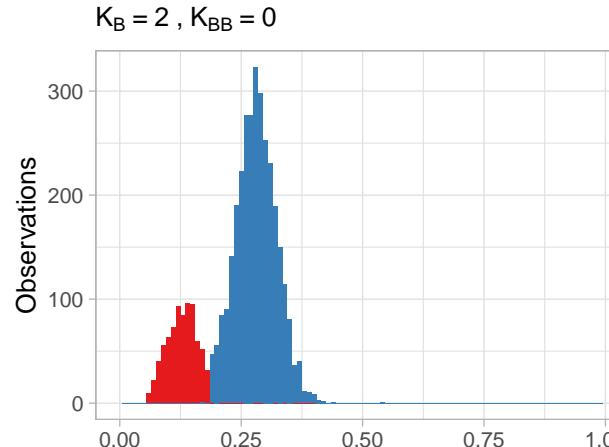
N = 3913; Tail 0%, C2 21.24%, C1 78.76%



MM ($\omega = 180$; $\epsilon = 2e-04$; SSE 6.949e-04) LV > 0

Karyotype: 2:2

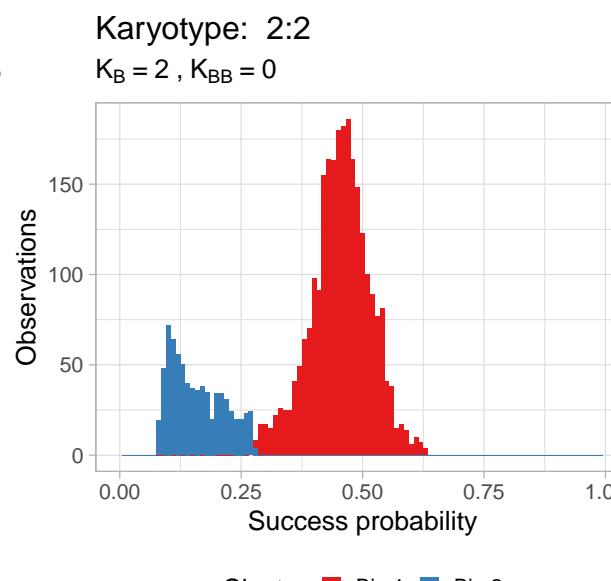
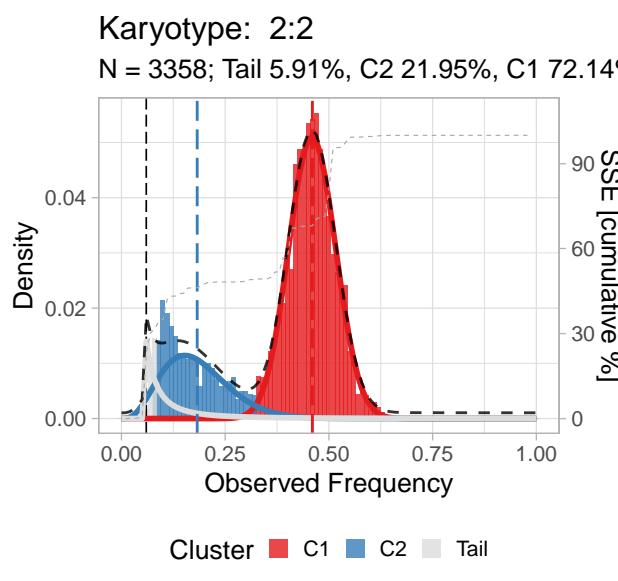
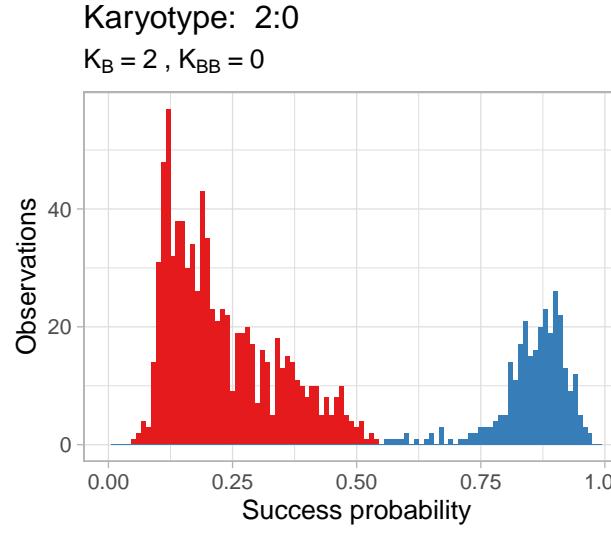
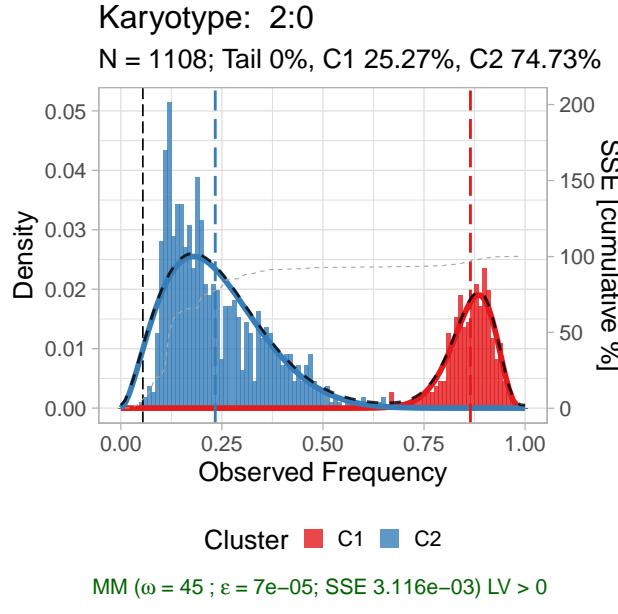
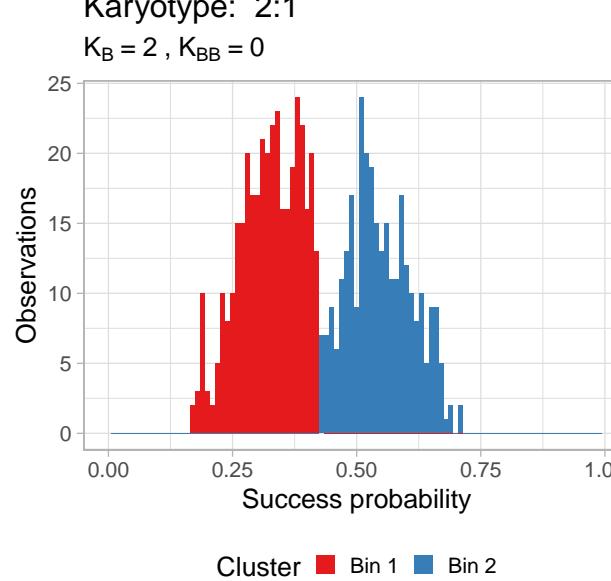
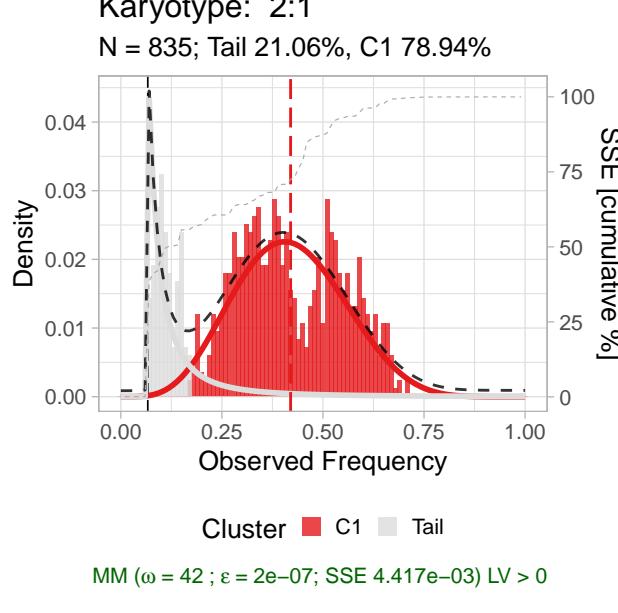
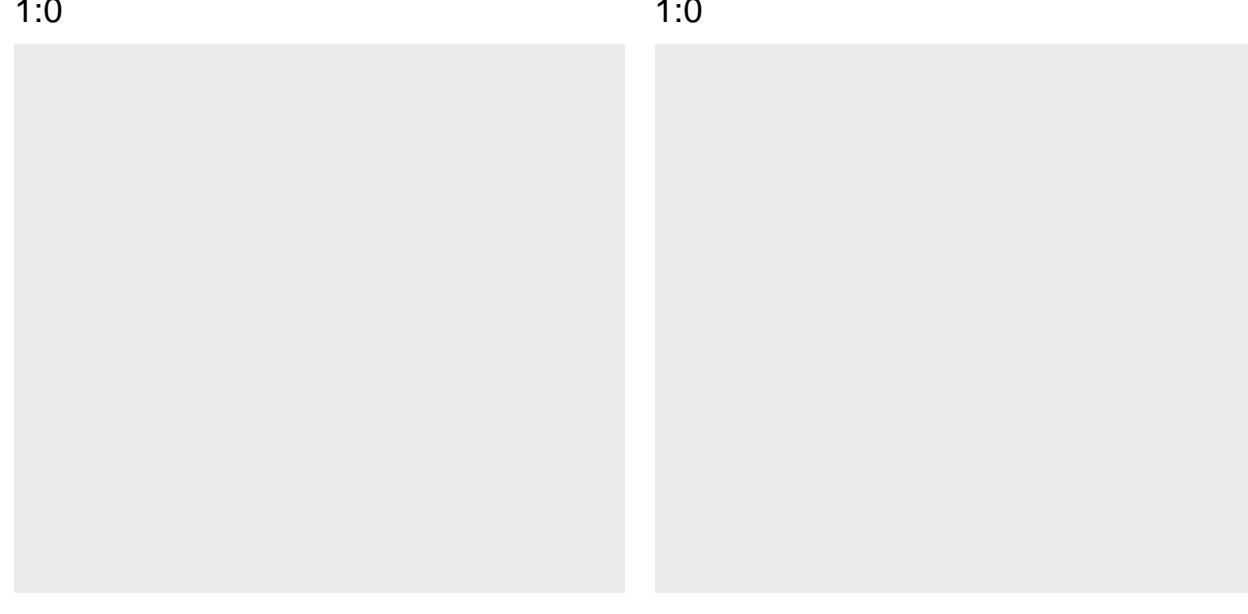
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 2e-04$; SSE 6.949e-04) LV > 0

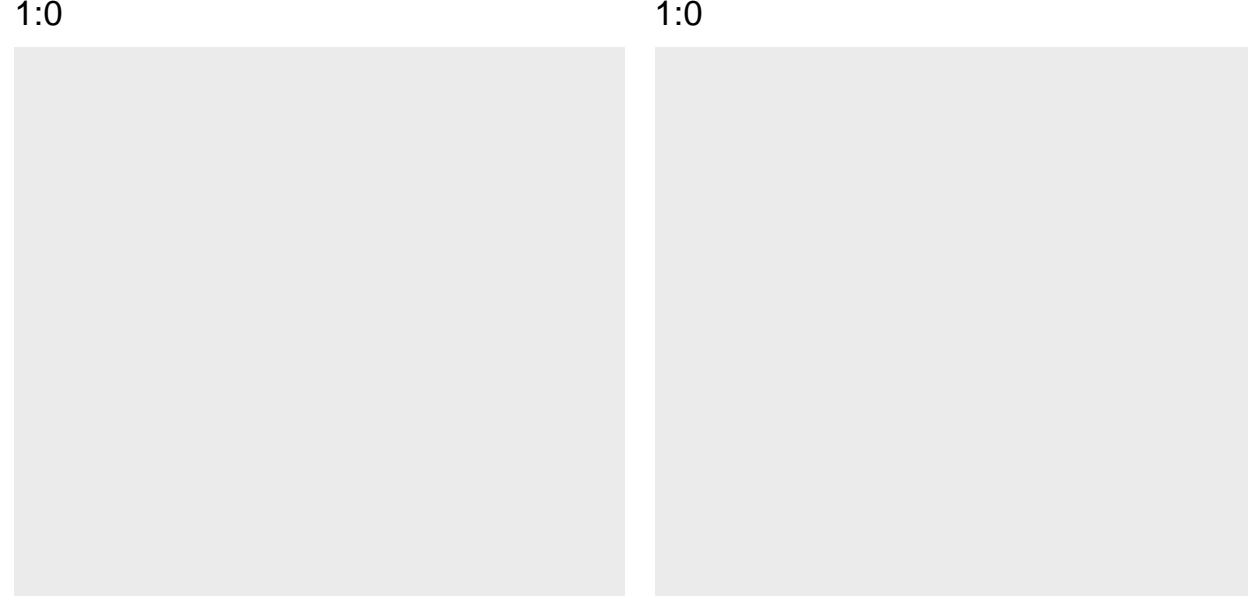
180407_HMFregCPCT_FR17754871_FR14624239_CPCT02010801

ONLY SNVs (min 150 – max 50000)

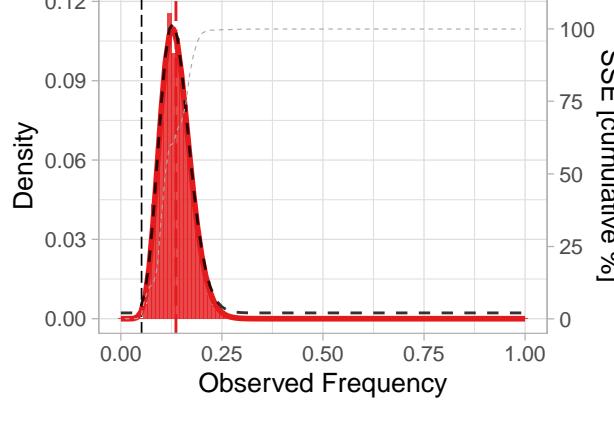


180407_HMFregCPCT_FR17754872_FR14624192_CPCT02050347

ONLY SNVs (min 150 – max 50000)

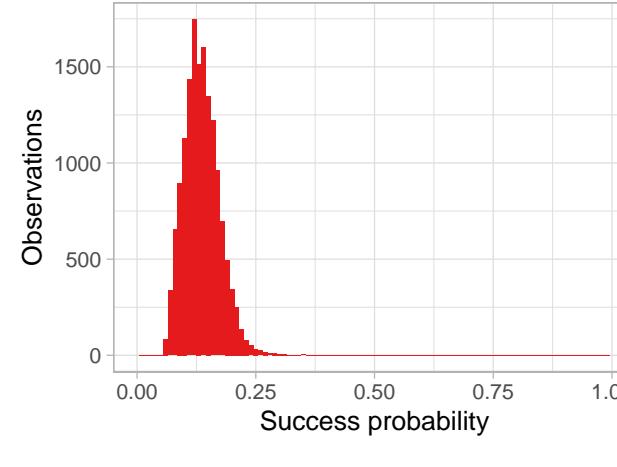


Karyotype: 2:1
N = 15106; Tail 0%, C1 100%

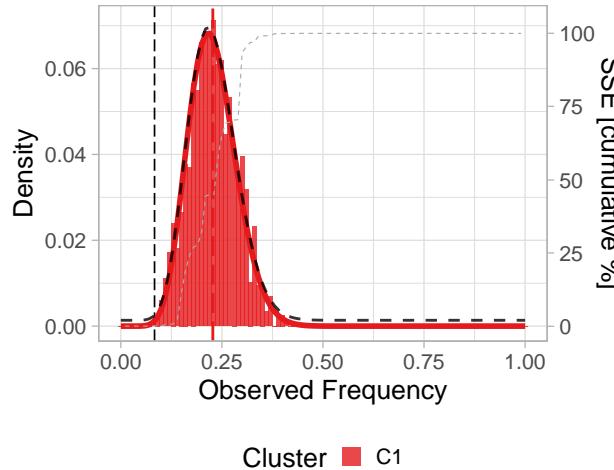


MM ($\omega = 83$; $\epsilon = 5e-05$; SSE 7.483e-04) LV > 0

Karyotype: 2:1
 $K_B = 1$, $K_{BB} = 0$

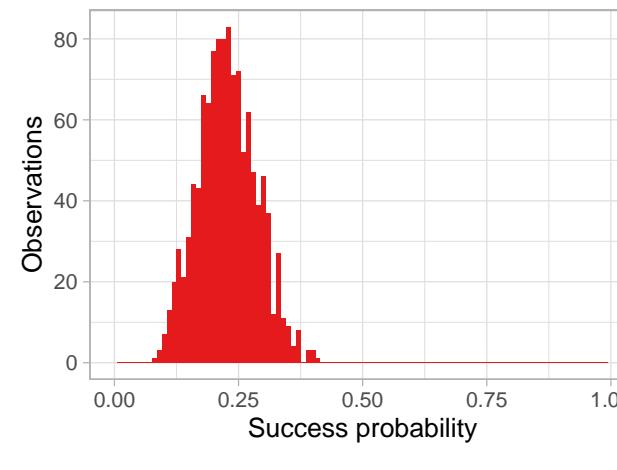


Karyotype: 2:0
N = 1165; Tail 0%, C1 100%

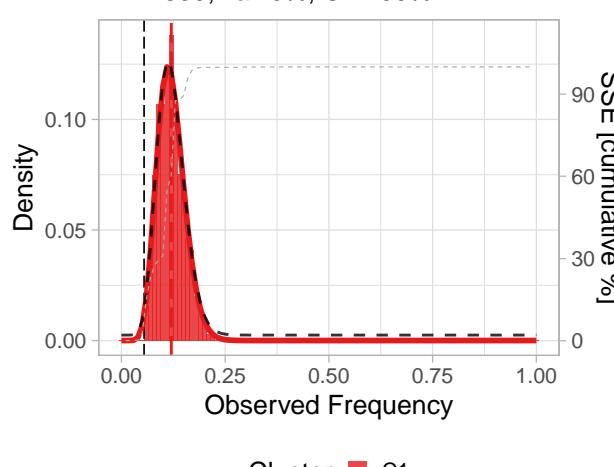


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.203e-03) LV > 0

Karyotype: 2:0
 $K_B = 1$, $K_{BB} = 0$

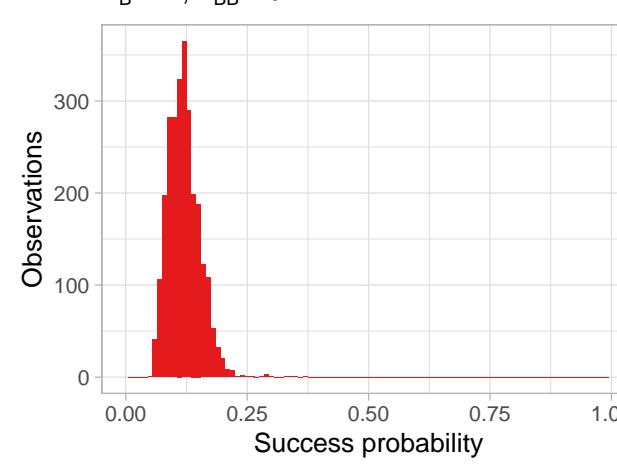


Karyotype: 2:2
N = 2639; Tail 0%, C1 100%



MM ($\omega = 4$; $\epsilon = 3e+01$; SSE 1.787e-03) LV > 0

Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

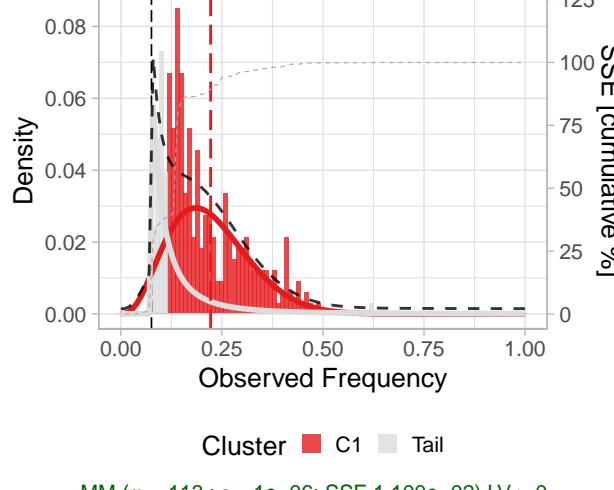


180410_HMFregCPCT_FR14624965_FR15412516_CPCT02010722

ONLY SNVs (min 150 – max 50000)

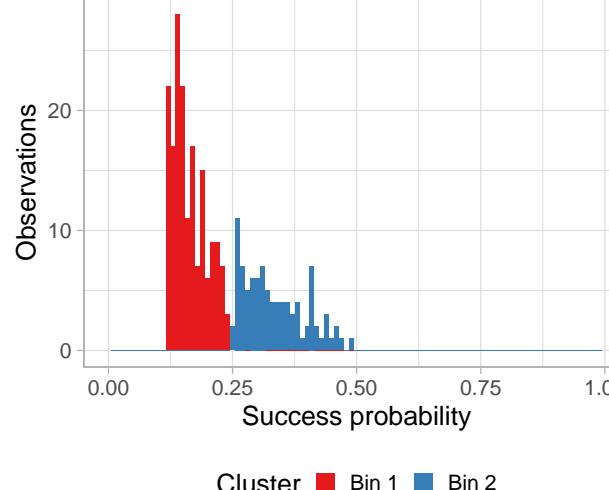
Karyotype: 1:0

N = 329; Tail 28.64%, C1 71.36%



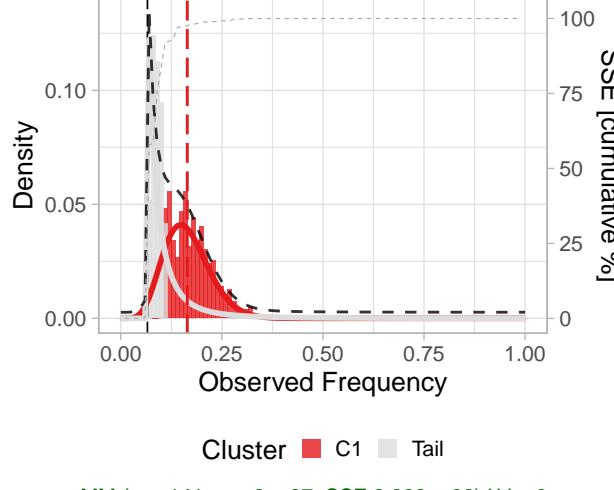
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



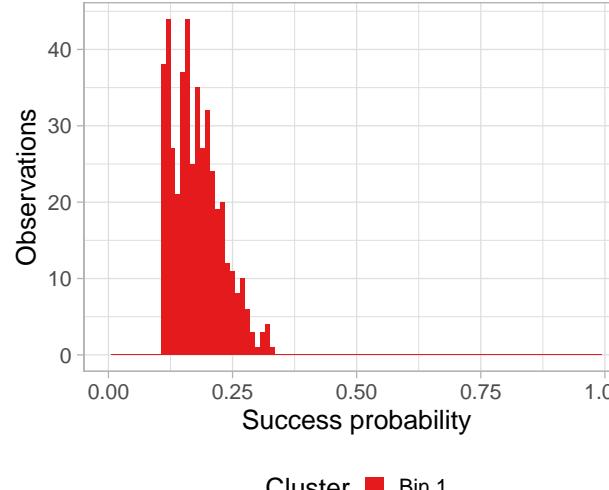
Karyotype: 1:1

N = 790; Tail 43.68%, C1 56.32%



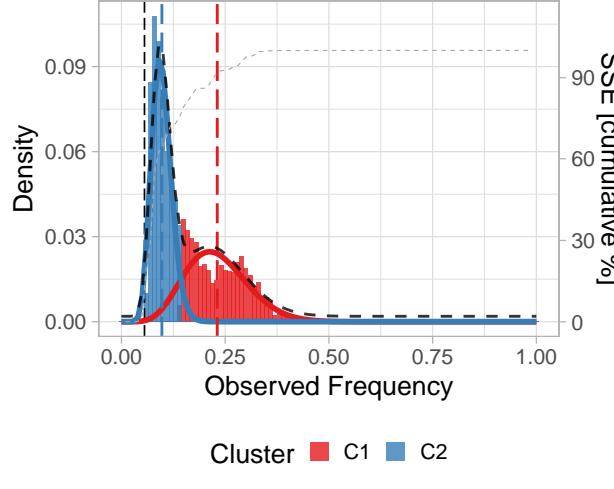
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



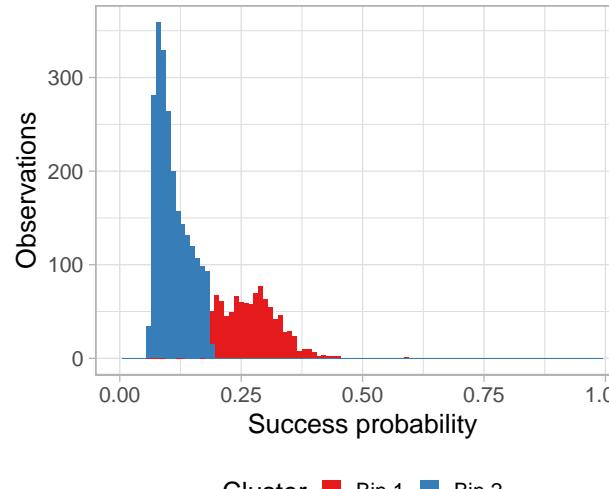
Karyotype: 2:1

N = 3327; Tail 0%, C1 45.84%, C2 54.16%



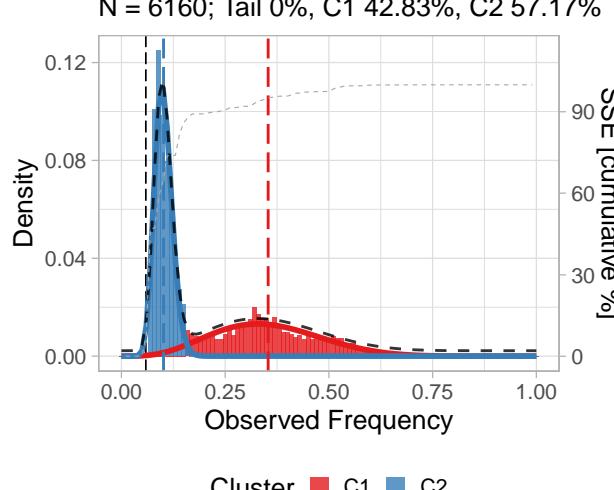
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



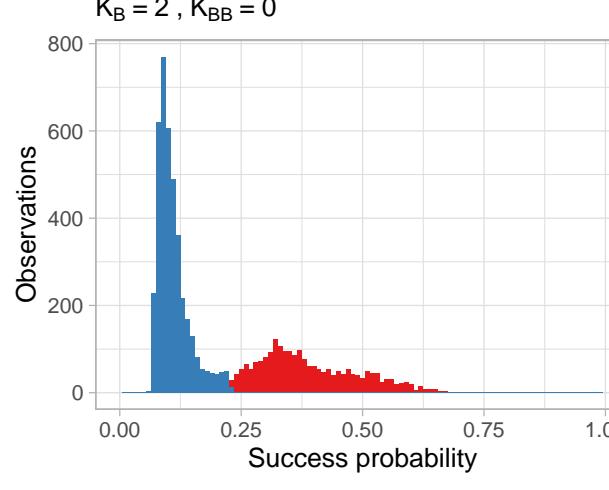
Karyotype: 2:0

N = 6160; Tail 0%, C1 42.83%, C2 57.17%



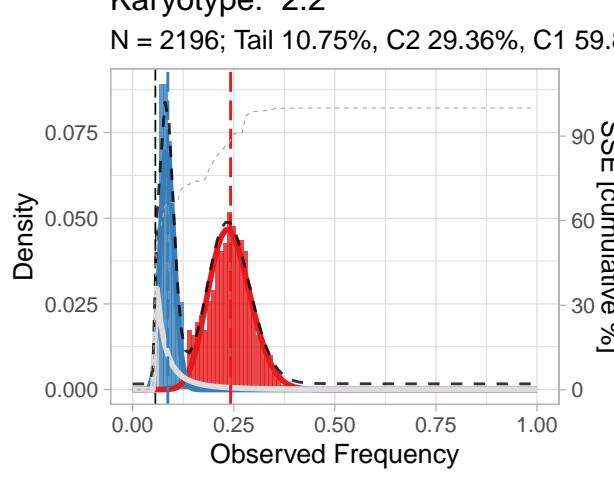
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



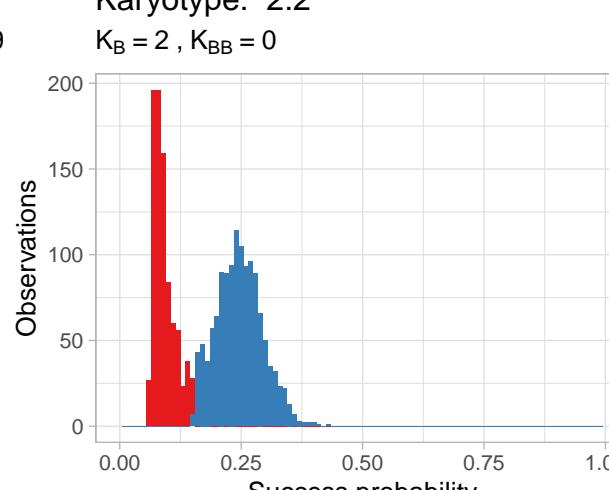
Karyotype: 2:2

N = 2196; Tail 10.75%, C2 29.36%, C1 59.89%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

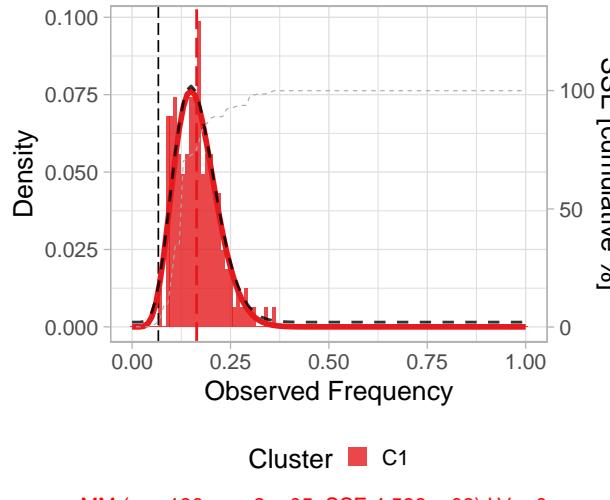


180414_HMFregCPCT_FR12246176_FR15412544_CPCT02140034

ONLY SNVs (min 150 – max 50000)

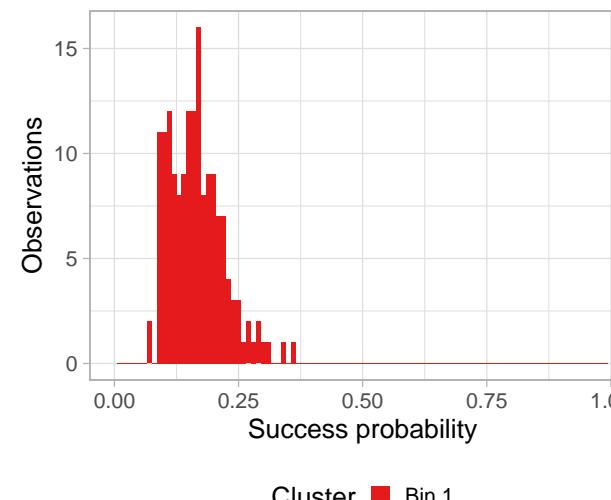
Karyotype: 1:0

N = 162; Tail 0%, C1 100%



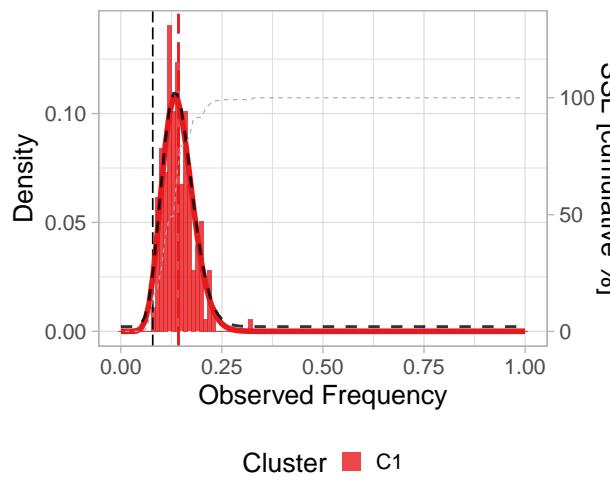
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



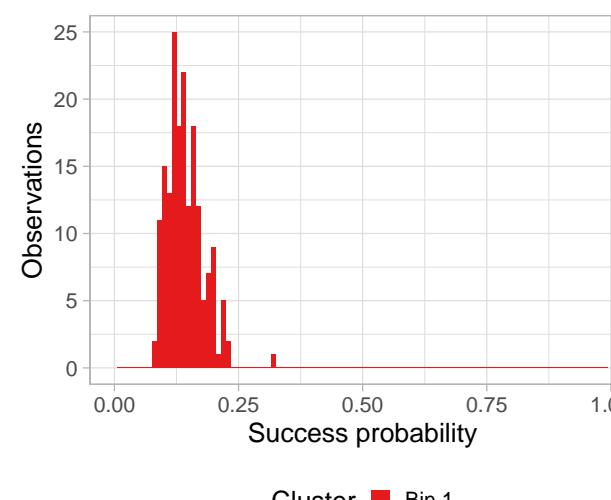
Karyotype: 1:1

N = 178; Tail 0%, C1 100%



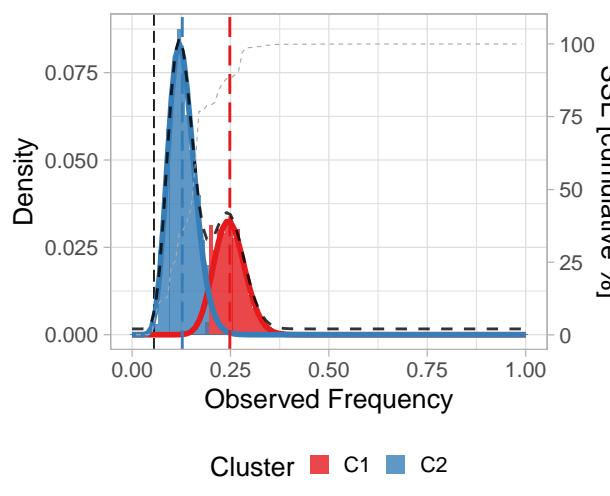
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



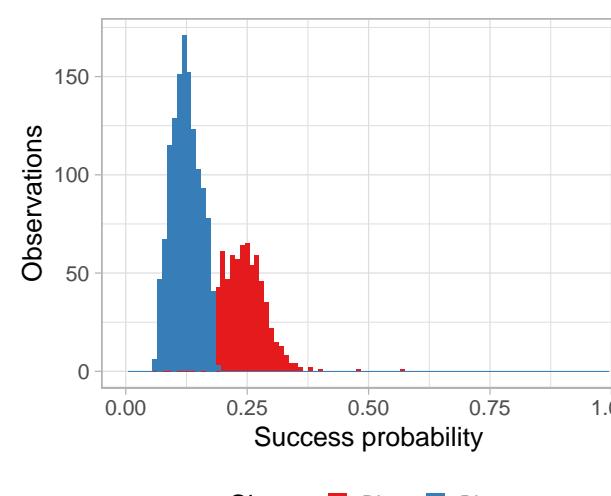
Karyotype: 2:1

N = 1954; Tail 0%, C1 31.8%, C2 68.2%



Karyotype: 2:1

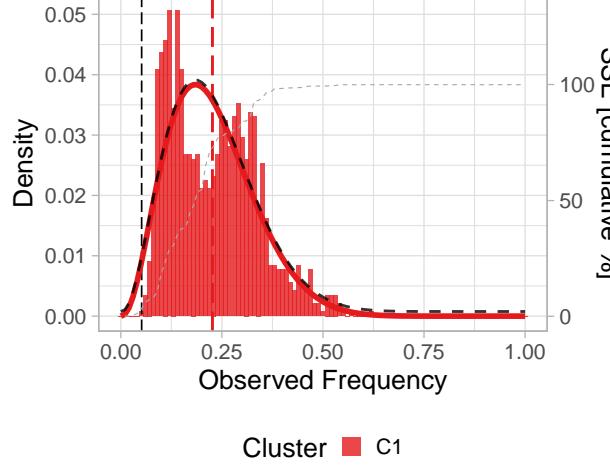
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 121$; $\epsilon = 2e-05$; SSE 3.993e-03) LV > 0

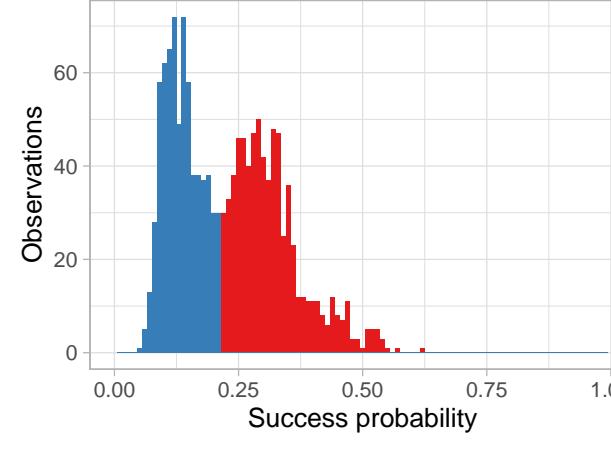
Karyotype: 2:0

N = 1421; Tail 0%, C1 100%



Karyotype: 2:0

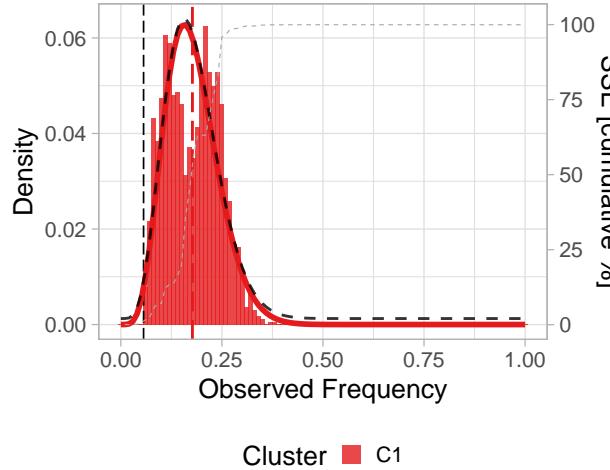
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 121$; $\epsilon = 2e-05$; SSE 3.993e-03) LV > 0

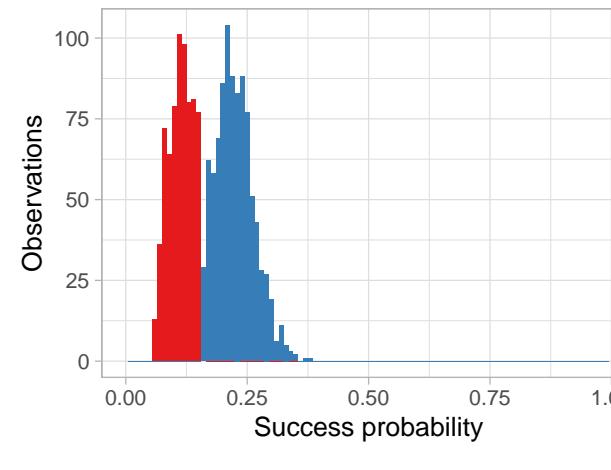
Karyotype: 2:2

N = 1665; Tail 0%, C1 100%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

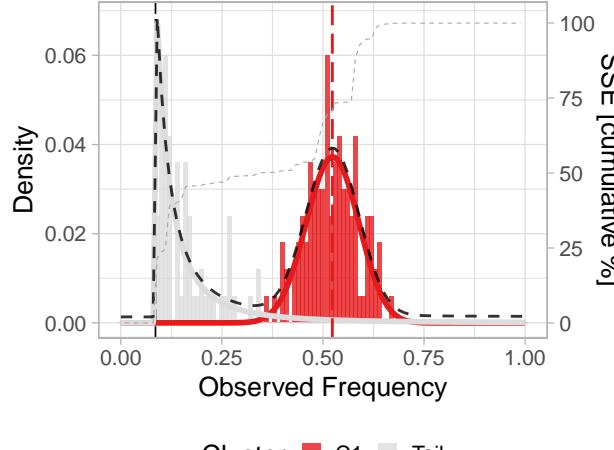


180502_HMFregCPCT_FR16982082_FR16981799_CPCT02020717

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

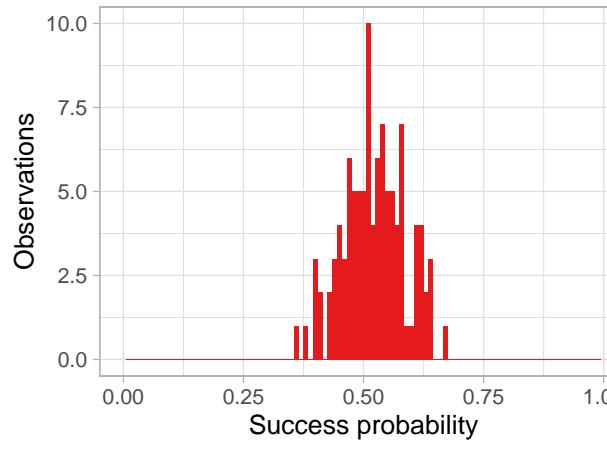
N = 167; Tail 39.97%, C1 60.03%



MM ($\omega = 19$; $\epsilon = 7e-08$; SSE $1.121e-02$) LV > 0

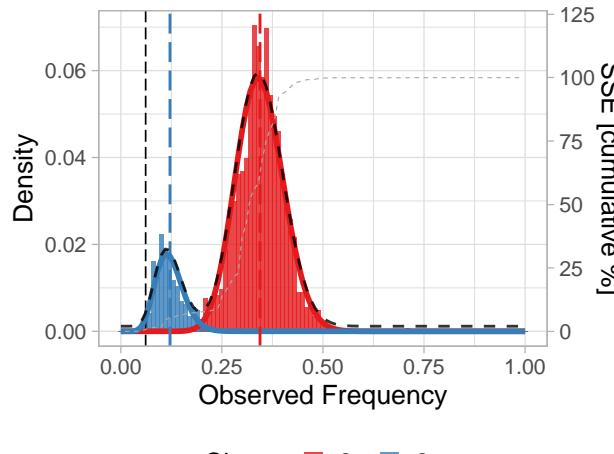
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

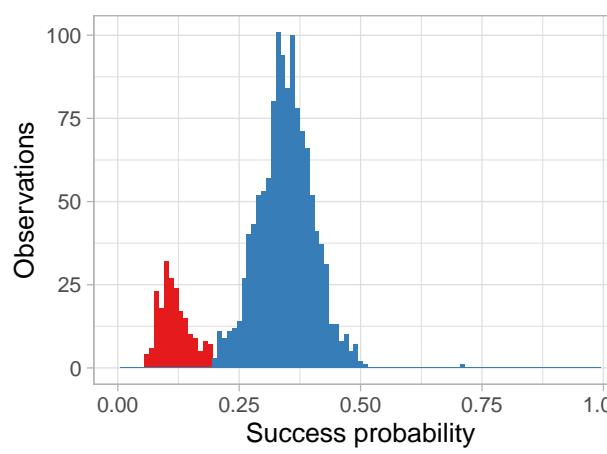
N = 1435; Tail 0%, C2 14.79%, C1 85.21%



MM ($\omega = 180$; $\epsilon = 1e-02$; SSE $1.253e-03$) LV > 0

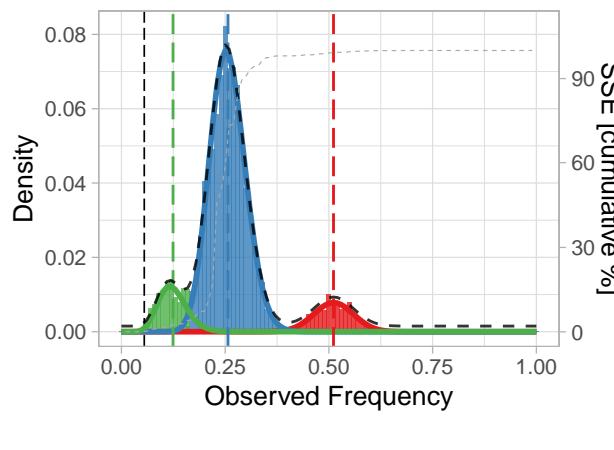
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

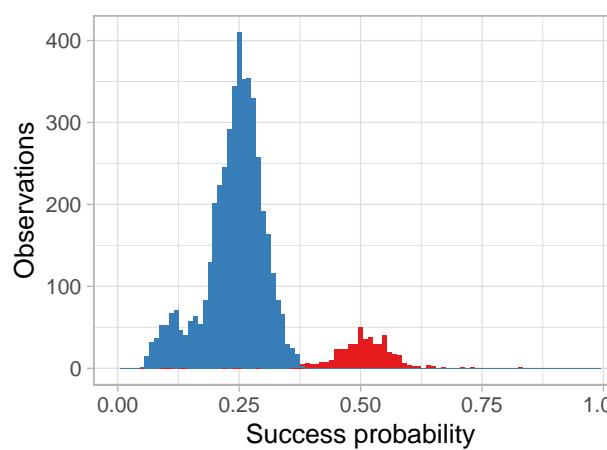
N = 4983; Tail 0%, C1 9.3%, C3 10.18%, C2 8



MM ($\omega = 180$; $\epsilon = 5e-03$; SSE $7.502e-04$) LV > 0

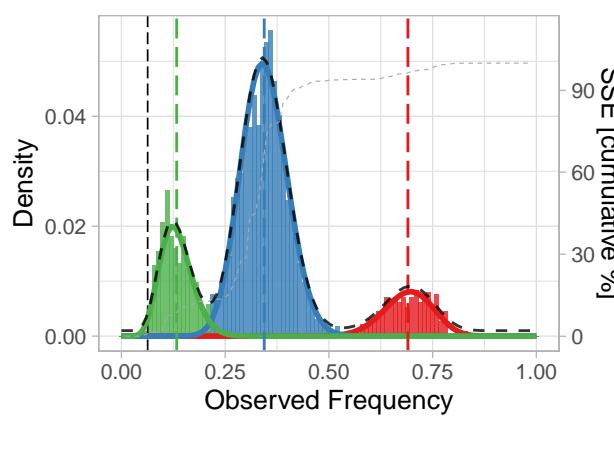
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

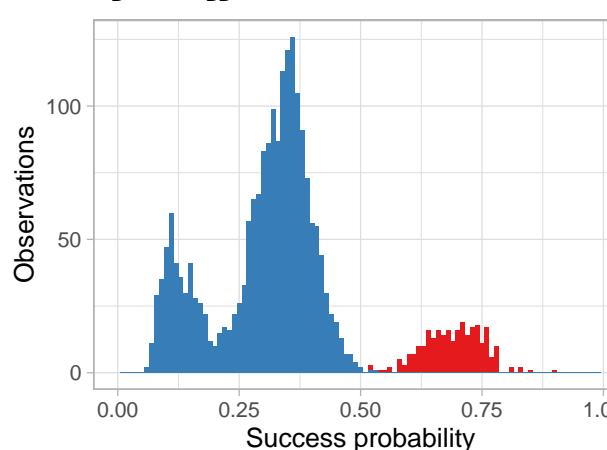
N = 2265; Tail 0%, C1 11.95%, C3 18.88%, C2



MM ($\omega = 180$; $\epsilon = 1e-05$; SSE $9.293e-04$) LV > 0

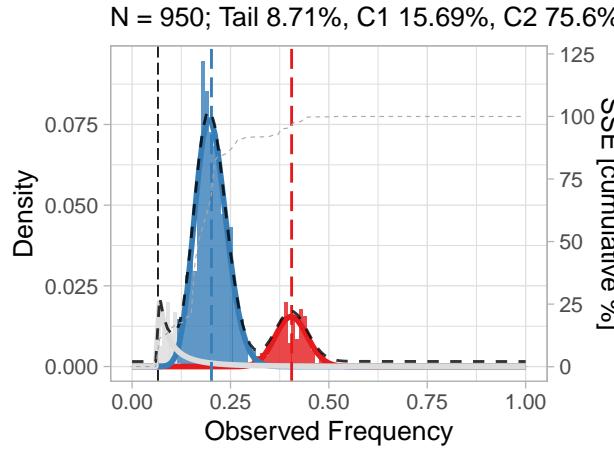
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

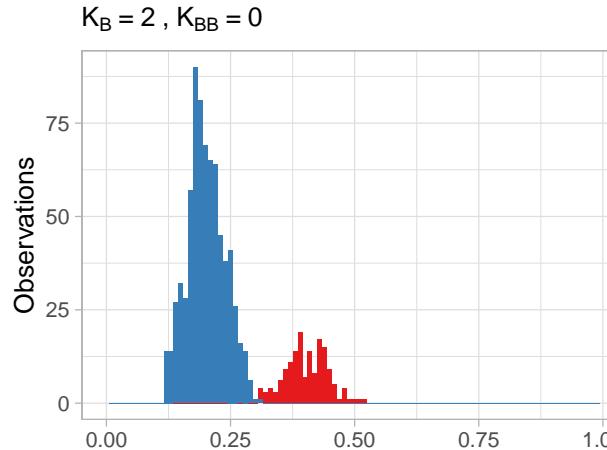
N = 950; Tail 8.71%, C1 15.69%, C2 75.6%



MM ($\omega = 53$; $\epsilon = 1e-06$; SSE $2.497e-03$) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

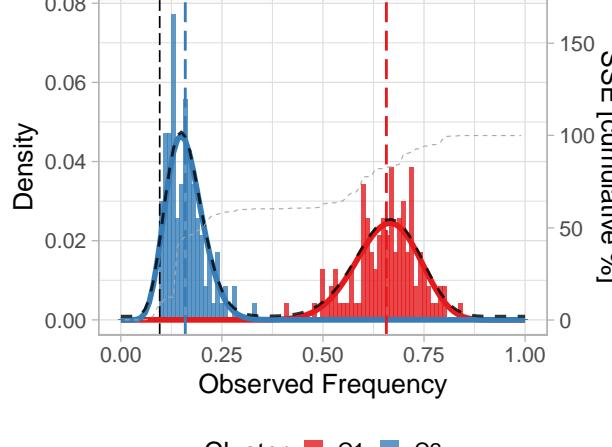


180502_HMFregCPCT_FR16982813_FR16981795_CPCT02020723

ONLY SNVs (min 150 – max 50000)

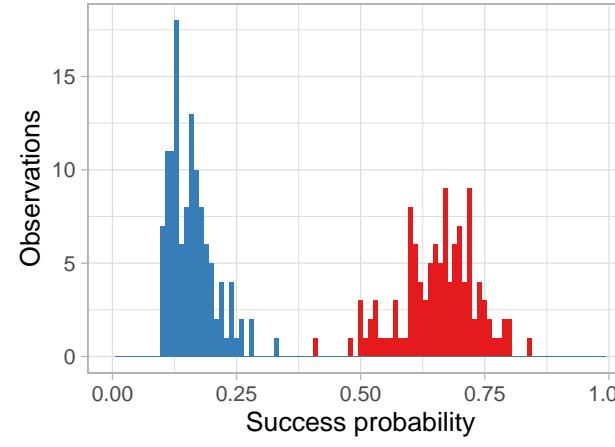
Karyotype: 1:0

N = 233; Tail 0%, C1 48.51%, C2 51.49%



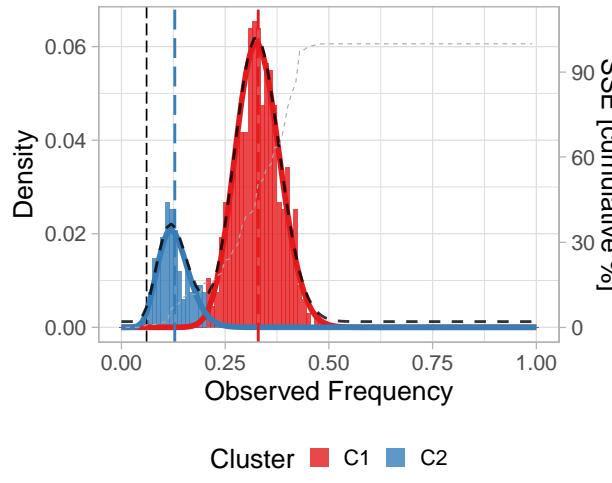
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



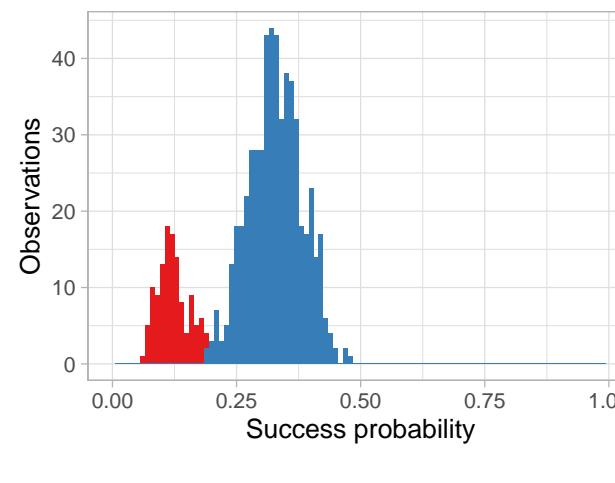
Karyotype: 1:1

N = 673; Tail 0%, C2 19.01%, C1 80.99%



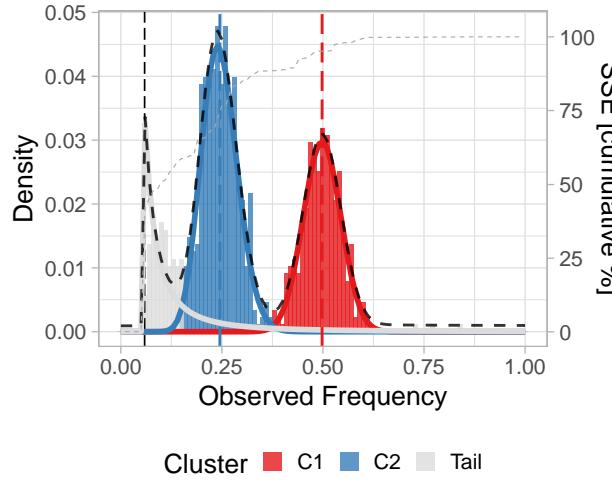
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



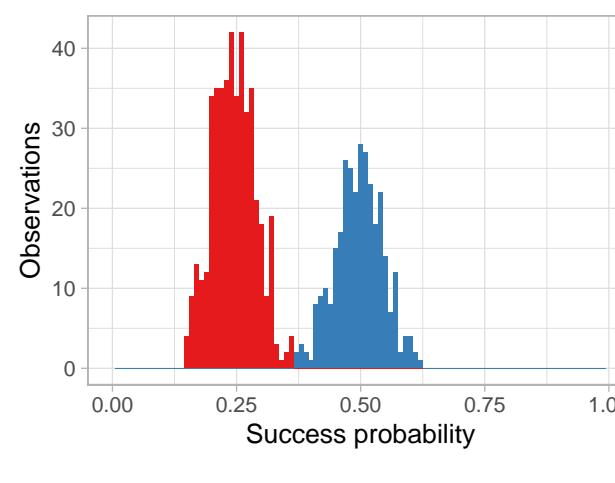
Karyotype: 2:1

N = 877; Tail 15.98%, C1 34.54%, C2 49.48%



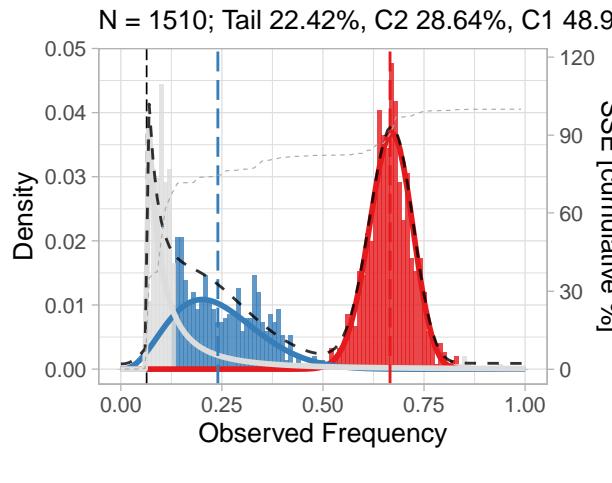
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



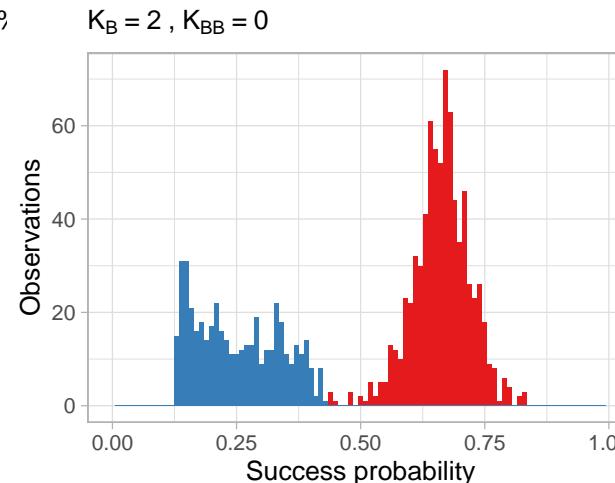
Karyotype: 2:0

N = 1510; Tail 22.42%, C2 28.64%, C1 48.94%



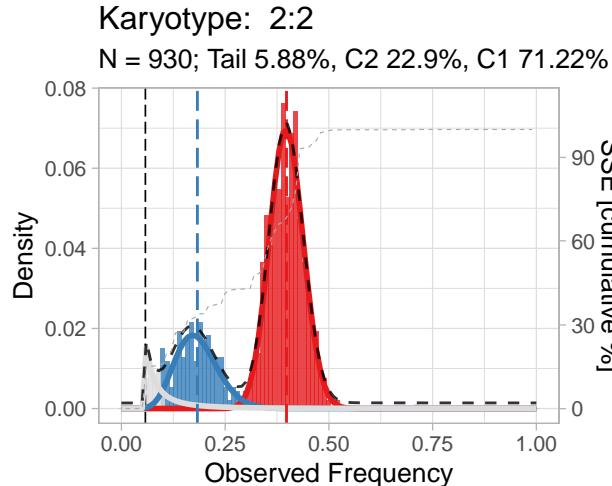
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



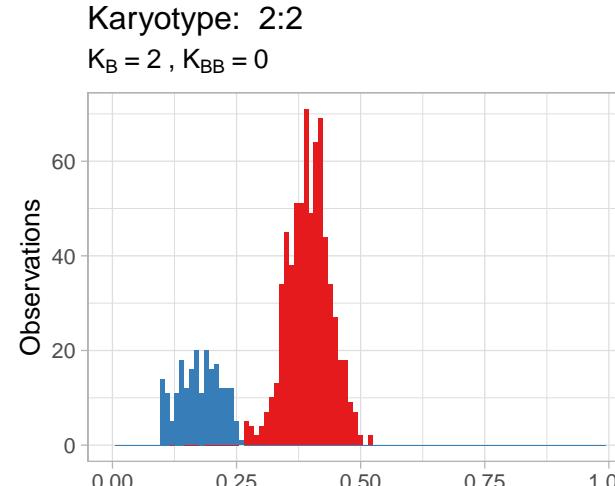
Karyotype: 2:2

N = 930; Tail 5.88%, C2 22.9%, C1 71.22%



Karyotype: 2:2

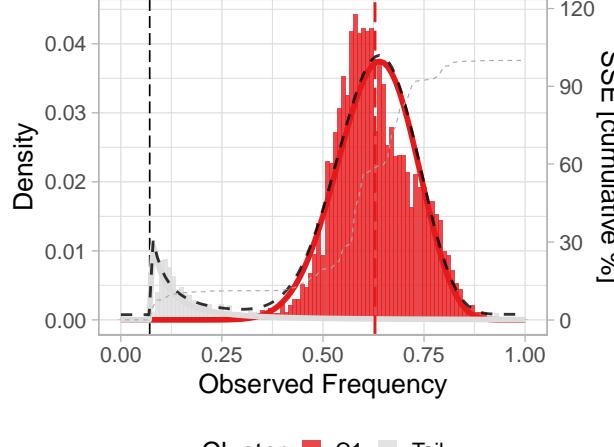
$K_B = 2$, $K_{BB} = 0$



180509_HMFregCPCT_FR15412345_FR17759081_CPCT02020736

ONLY SNVs (min 150 – max 50000)

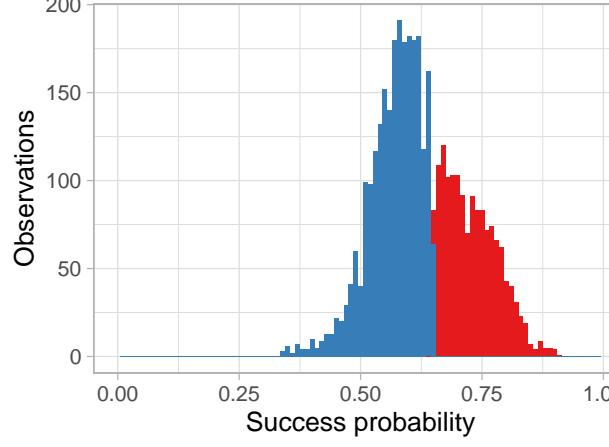
Karyotype: 1:0
N = 4311; Tail 8.7%, C1 91.3%



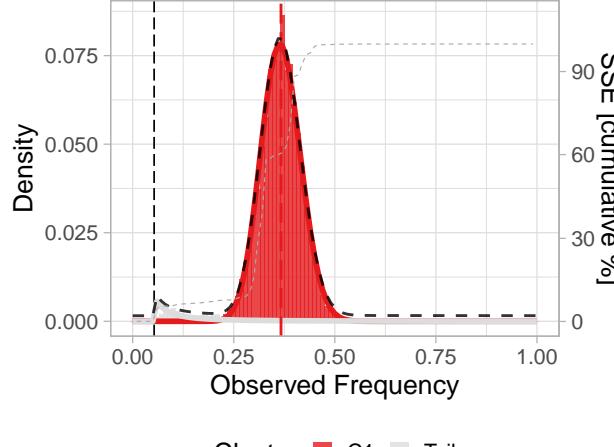
MM ($\omega = 13$; $\epsilon = 6e-05$; SSE 1.748e-03) LV > 0

Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



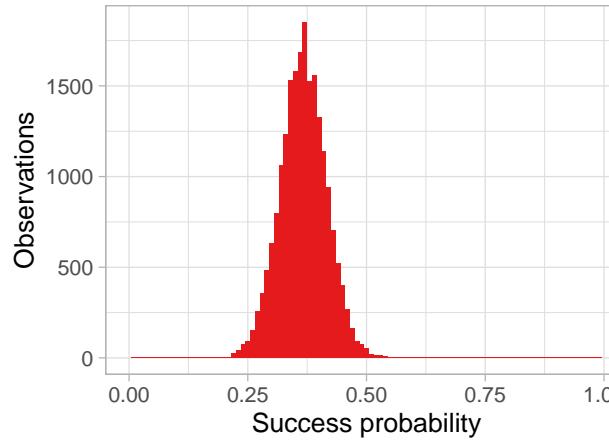
Karyotype: 1:1
N = 21465; Tail 4.21%, C1 95.79%



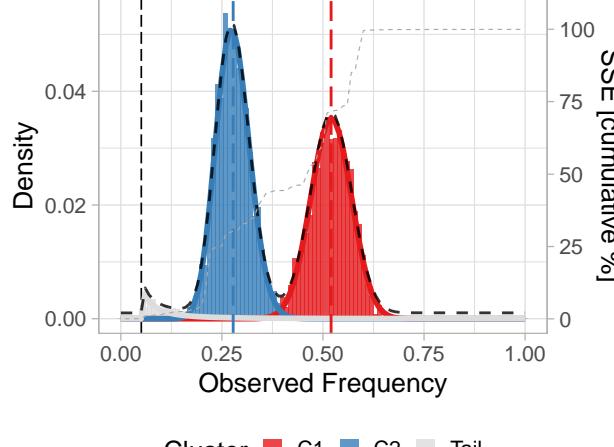
MM ($\omega = 12$; $\epsilon = 5e-05$; SSE 6.509e-04) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



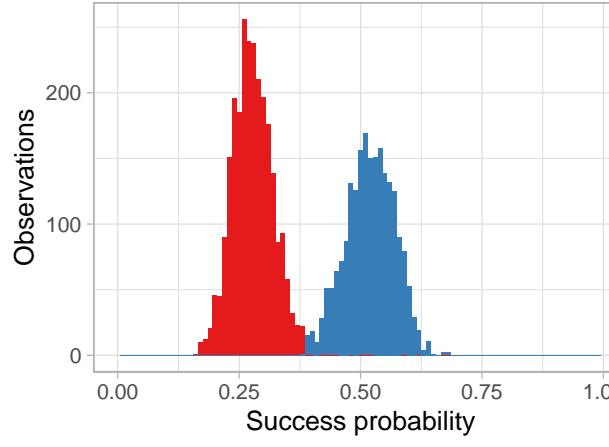
Karyotype: 2:1
N = 4760; Tail 2.81%, C1 44.23%, C2 52.96%



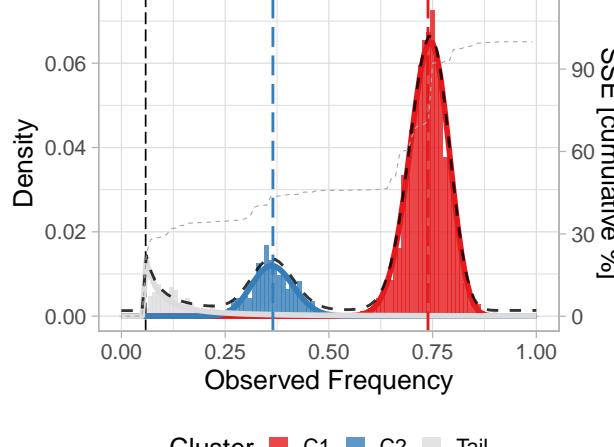
MM ($\omega = 28$; $\epsilon = 7e-07$; SSE 4.732e-04) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



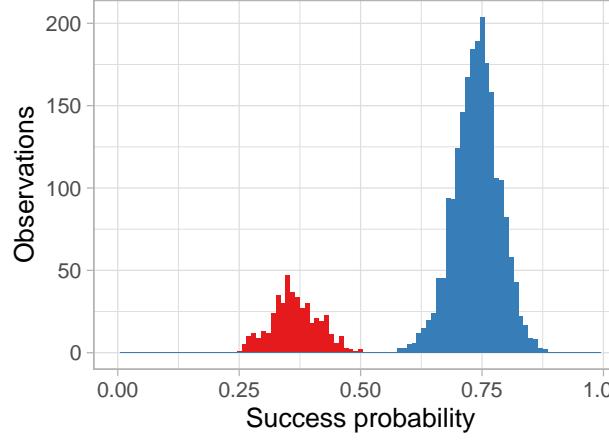
Karyotype: 2:0
N = 2812; Tail 8.12%, C2 15.01%, C1 76.87%



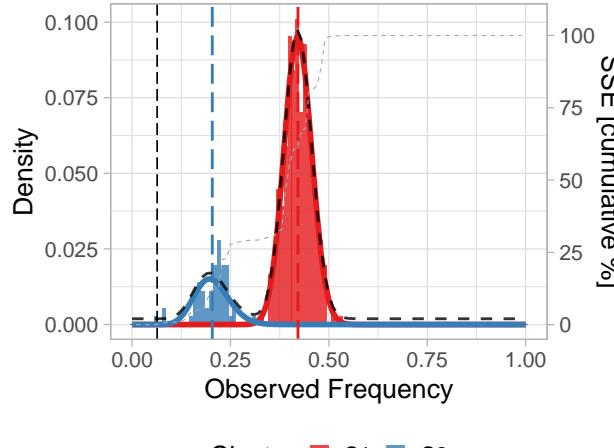
MM ($\omega = 30$; $\epsilon = 4e-06$; SSE 7.166e-04) LV > 0

Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



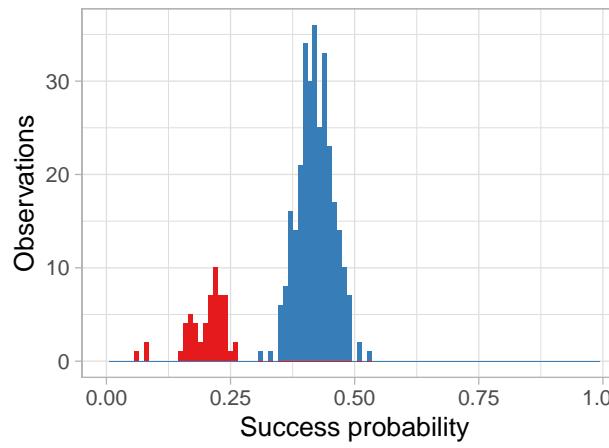
Karyotype: 2:2
N = 356; Tail 0%, C2 16.23%, C1 83.77%



MM ($\omega = 24$; $\epsilon = 4e-05$; SSE 2.836e-03) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

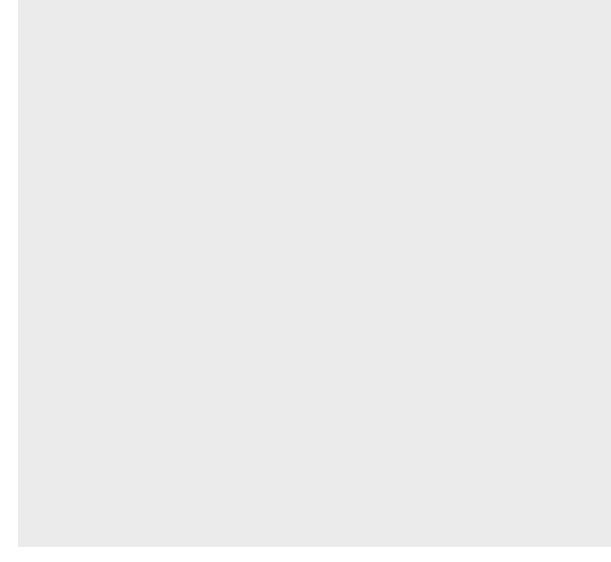
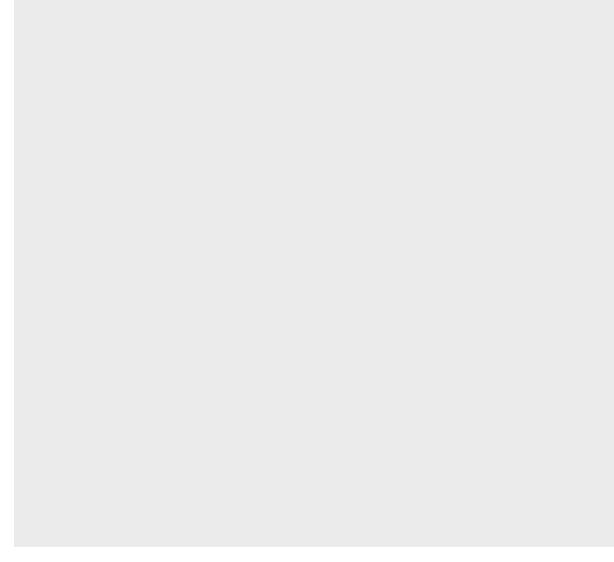


180509_HMFregCPCT_FR15412572_FR17759085_CPCT02020743

ONLY SNVs (min 150 – max 50000)

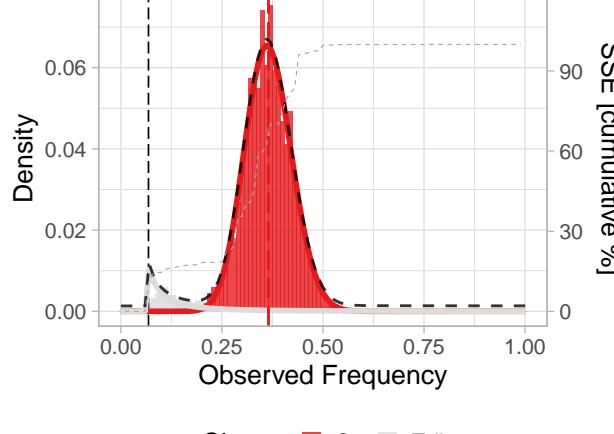
1:0

1:0



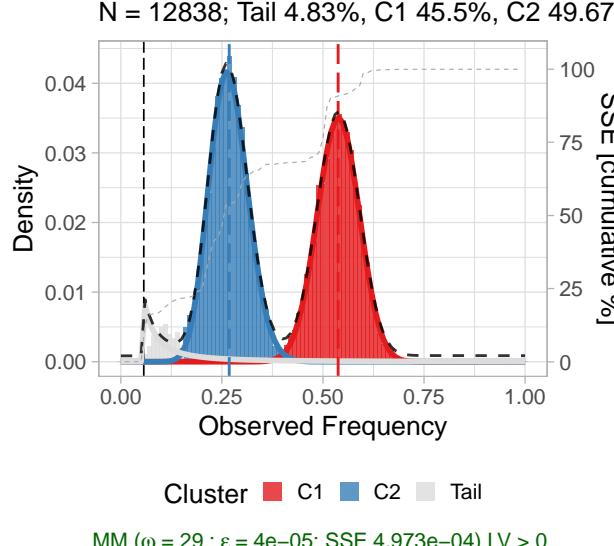
Karyotype: 1:1

N = 2496; Tail 5.73%, C1 94.27%



Karyotype: 2:1

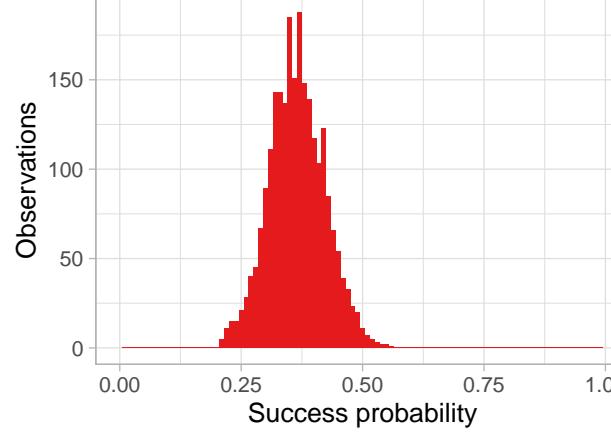
N = 12838; Tail 4.83%, C1 45.5%, C2 49.67%



MM ($\omega = 29$; $\epsilon = 4e-05$; SSE 4.973e-04) LV > 0

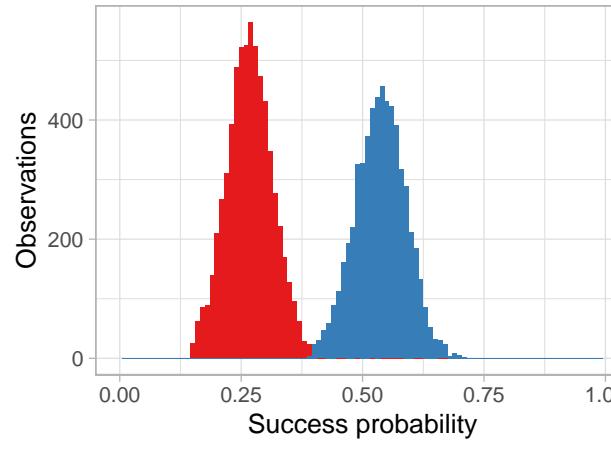
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



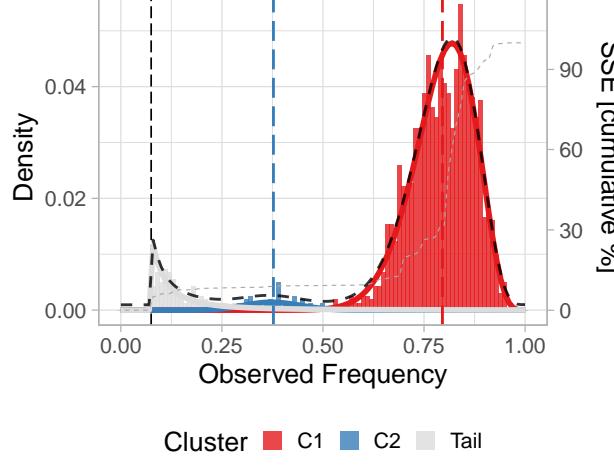
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

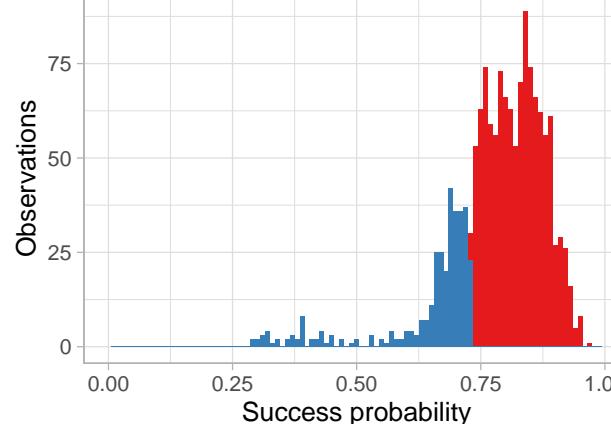
N = 1626; C2 2.4%, Tail 7.19%, C1 90.41%



MM ($\omega = 75$; $\epsilon = 2e-06$; SSE 1.412e-03) LV > 0

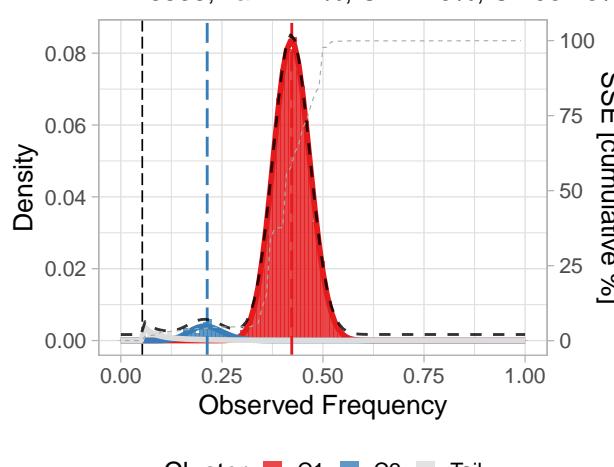
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

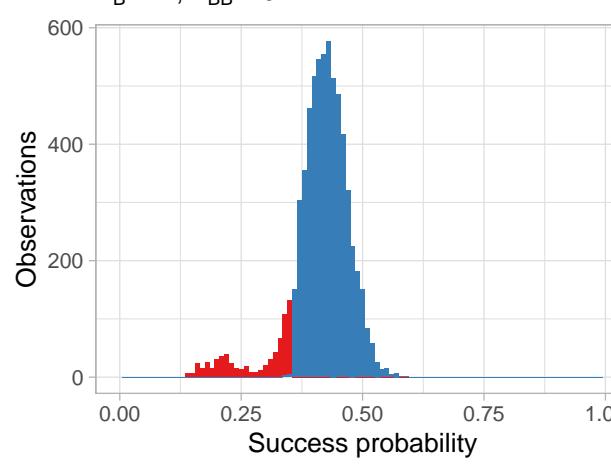
N = 6838; Tail 2.12%, C2 4.15%, C1 93.73%



MM ($\omega = 96$; $\epsilon = 9e-06$; SSE 5.874e-04) LV > 0

Karyotype: 2:2

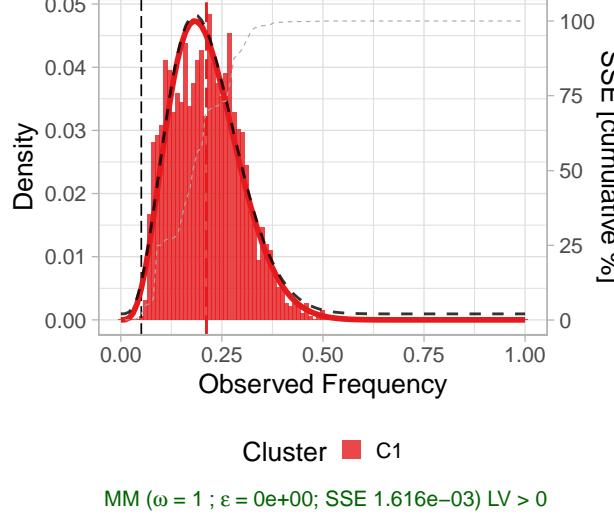
$K_B = 2$, $K_{BB} = 0$



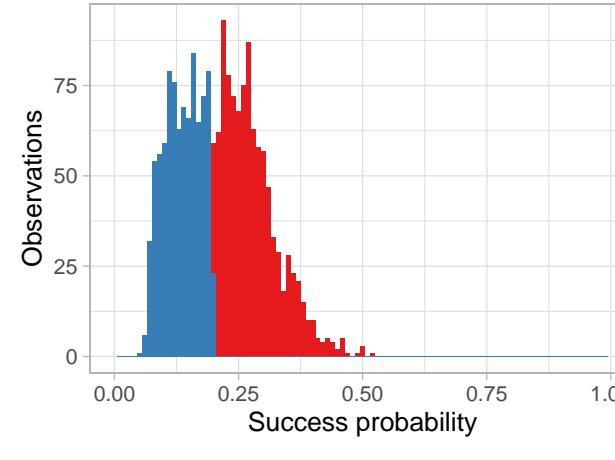
180509_HMFregCPCT_FR16982282_FR16985129_CPCT02010811

ONLY SNVs (min 150 – max 50000)

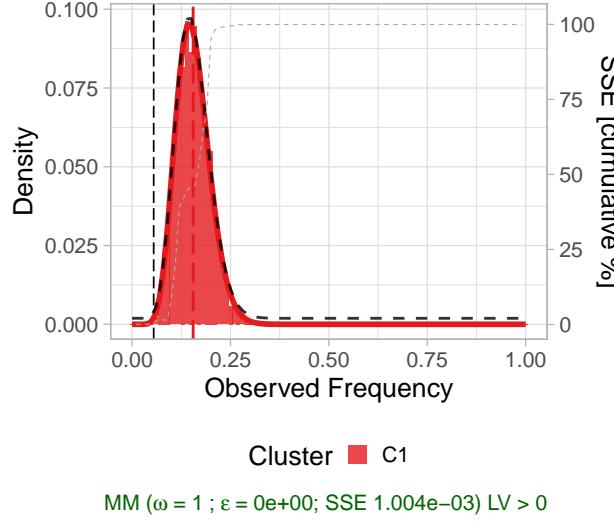
Karyotype: 1:0
N = 1921; Tail 0%, C1 100%



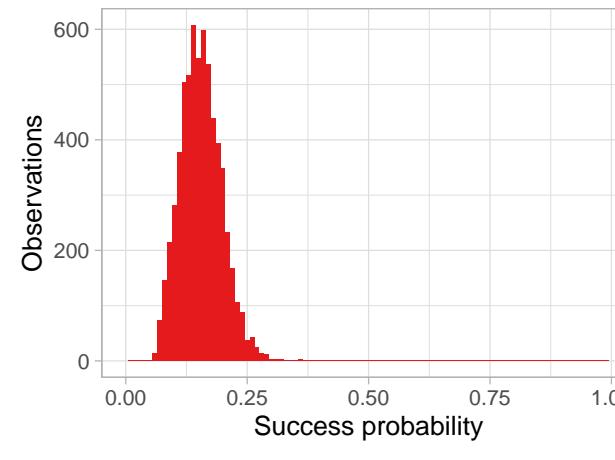
Karyotype: 1:0
 $K_B = 2, K_{BB} = 0$



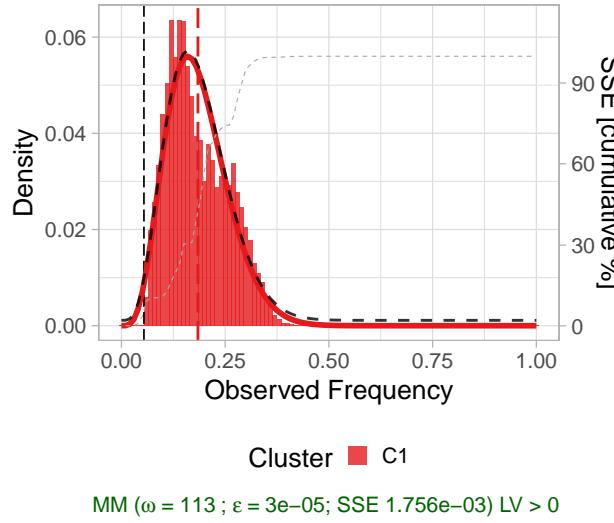
Karyotype: 1:1
N = 6331; Tail 0%, C1 100%



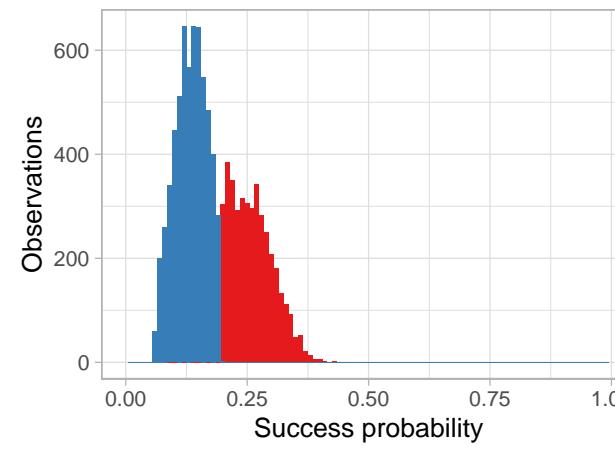
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



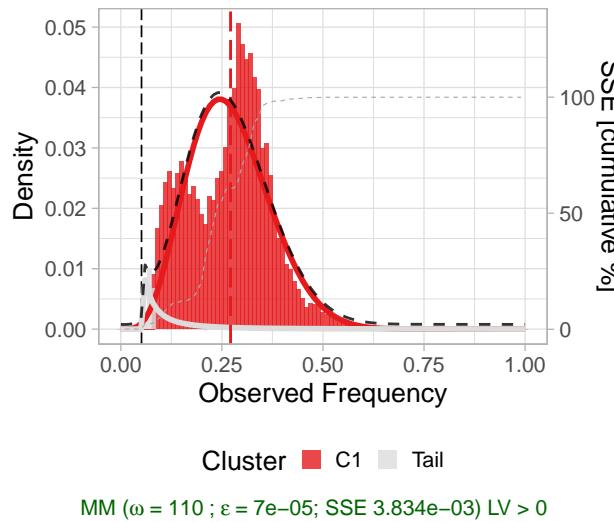
Karyotype: 2:1
N = 10162; Tail 0%, C1 100%



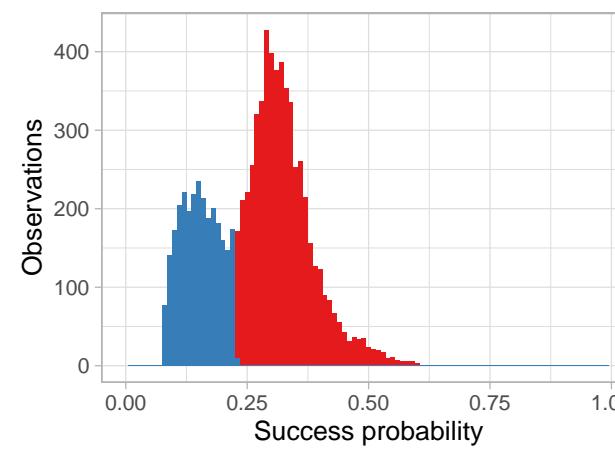
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



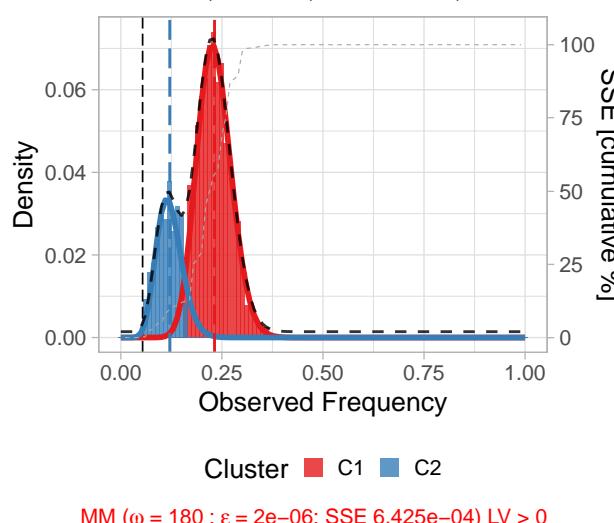
Karyotype: 2:0
N = 8455; Tail 4.7%, C1 95.3%



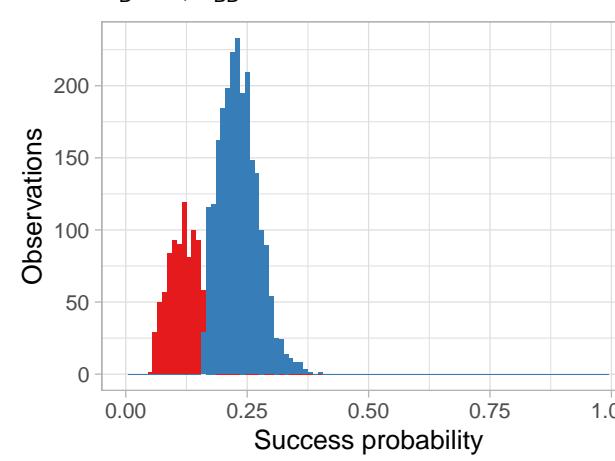
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 3147; Tail 0%, C2 25.91%, C1 74.09%

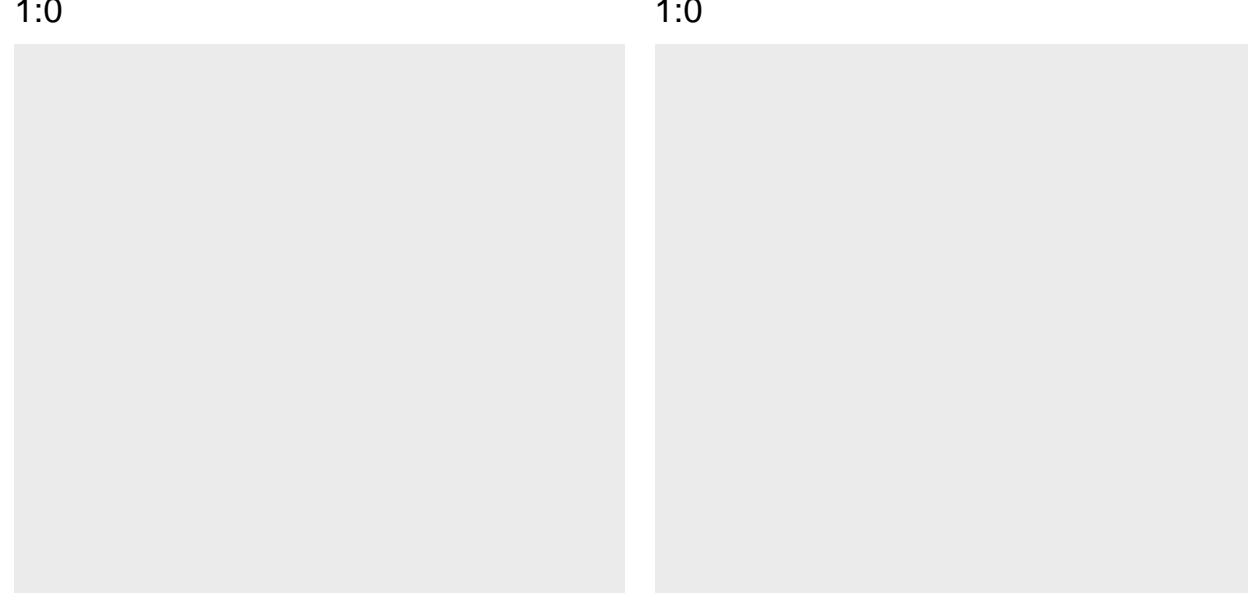


Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$

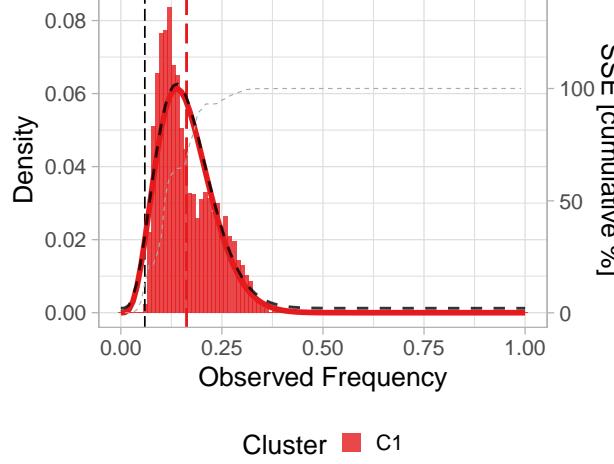


180530_HMFregCPCT_FR16984171_FR17758963_CPCT02020767

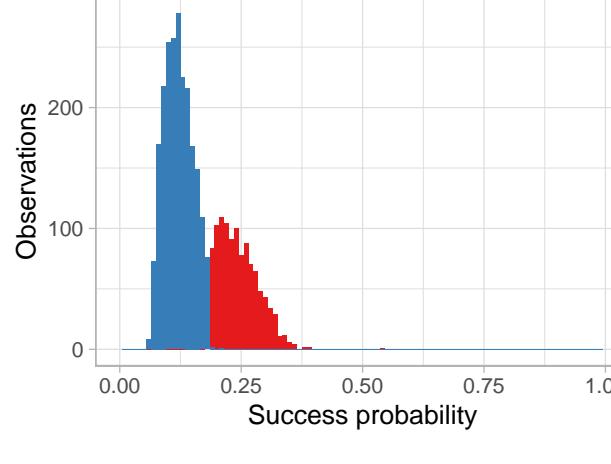
ONLY SNVs (min 150 – max 50000)



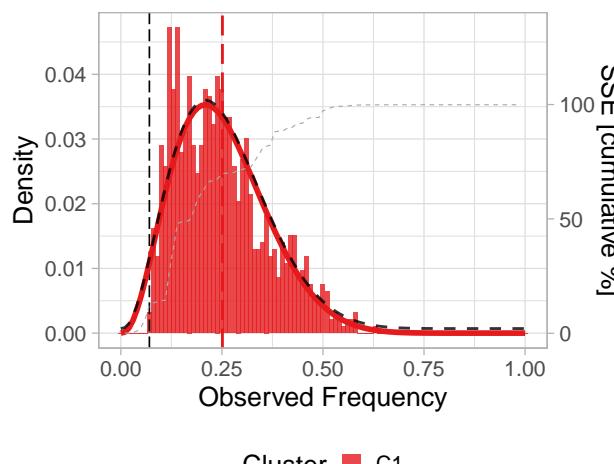
Karyotype: 2:1
N = 3320; Tail 0%, C1 100%



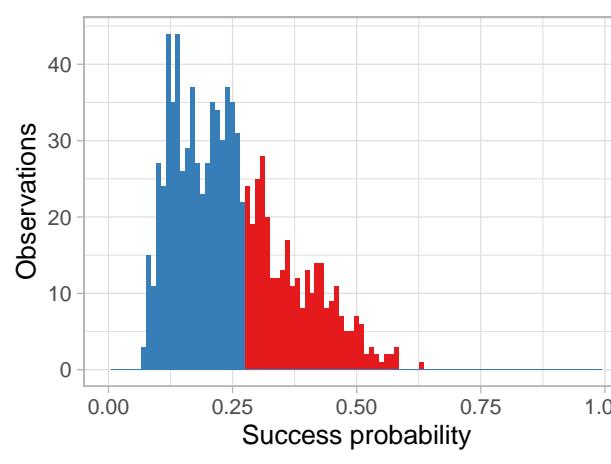
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



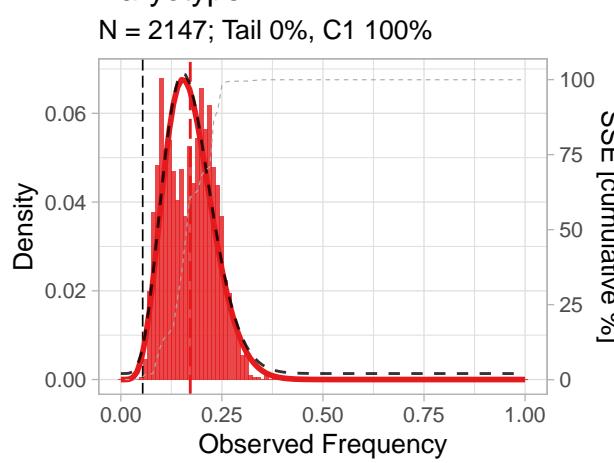
Karyotype: 2:0
N = 931; Tail 0%, C1 100%



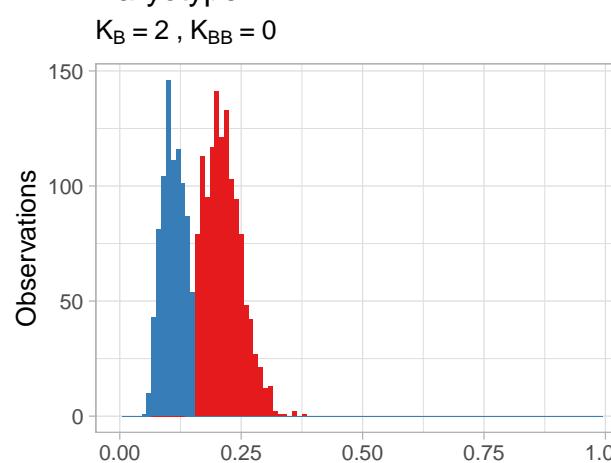
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 2147; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

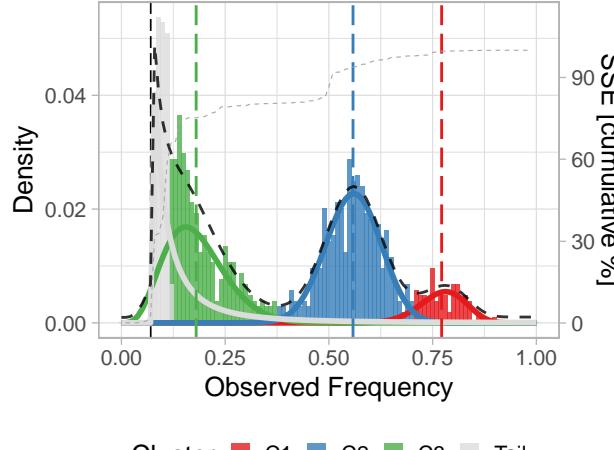


180530_HMFregCPCT_FR17759199_FR17758961_CPCT02070350

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

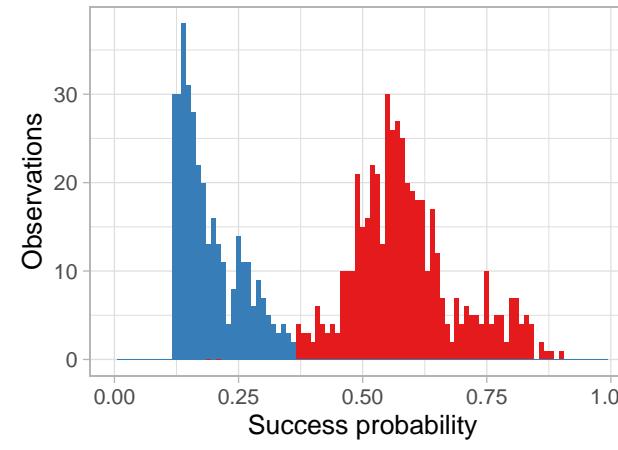
N = 1042; C1 7.5%, Tail 24.74%, C3 29.82%, C2 66.8%



MM ($\omega = 180$; $\epsilon = 4e-06$; SSE $3.103e-03$) LV > 0

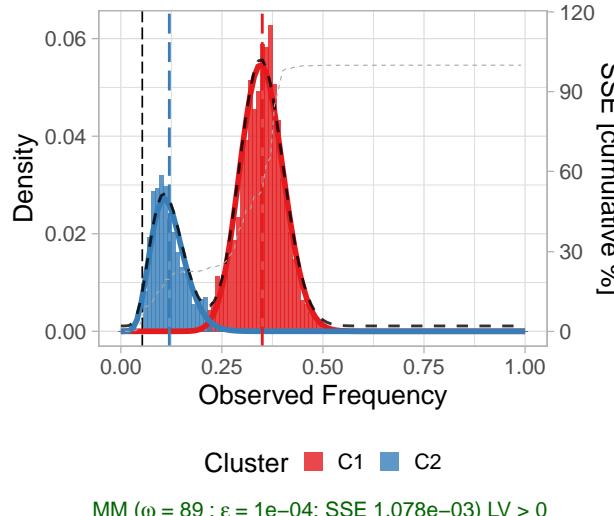
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

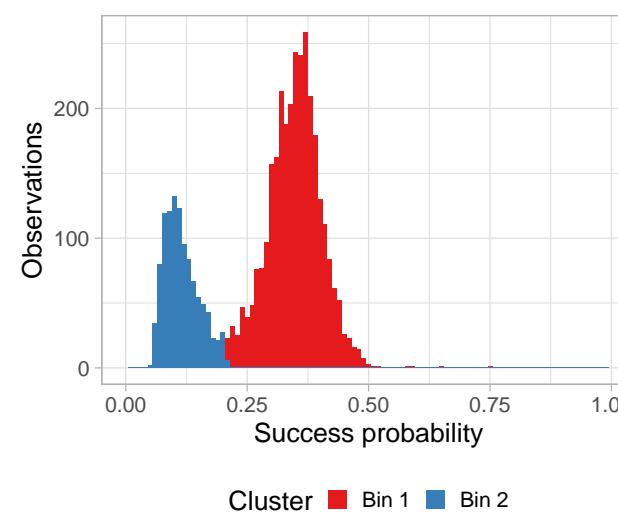
N = 4131; Tail 0%, C2 27.21%, C1 72.79%



MM ($\omega = 89$; $\epsilon = 1e-04$; SSE $1.078e-03$) LV > 0

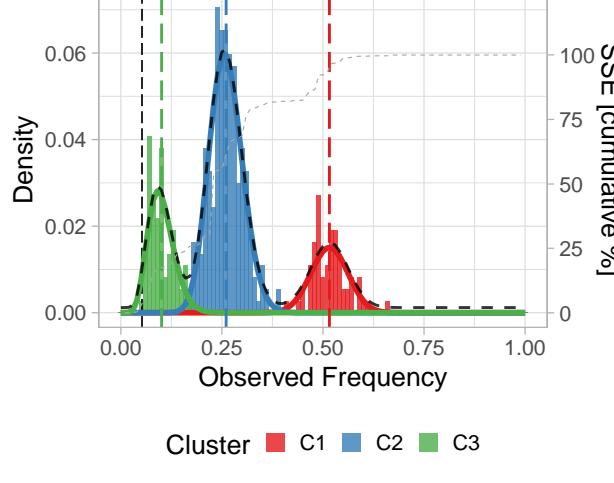
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

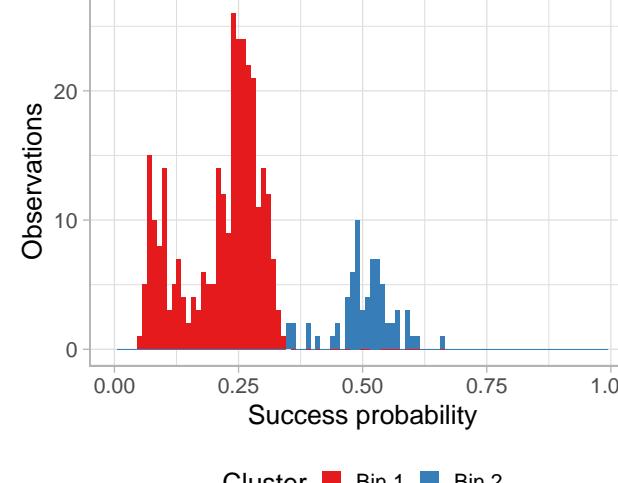
N = 368; Tail 0%, C1 17.28%, C3 21.66%, C2



MM ($\omega = 139$; $\epsilon = 5e-06$; SSE $2.378e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

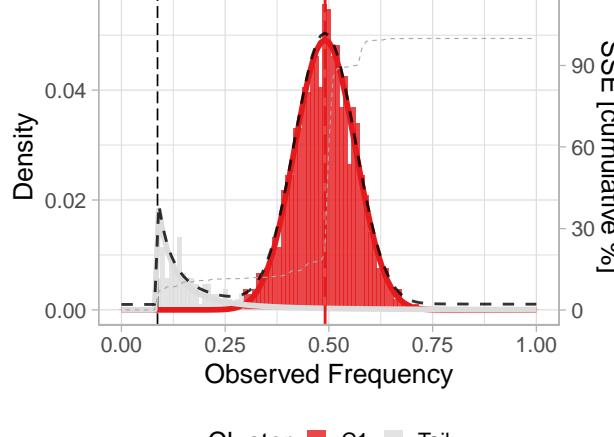
2:2

180610_HMFregCPCT_FR16985656_FR16984539_CPCT02010874

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

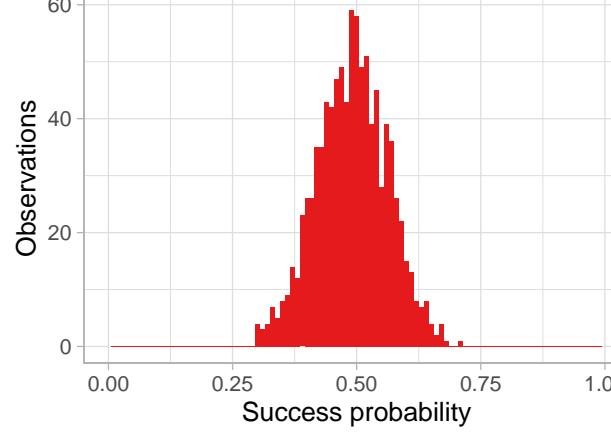
N = 1060; Tail 11.61%, C1 88.39%



MM ($\omega = 16$; $\epsilon = 2e-07$; SSE 3.364e-03) LV > 0

Karyotype: 1:0

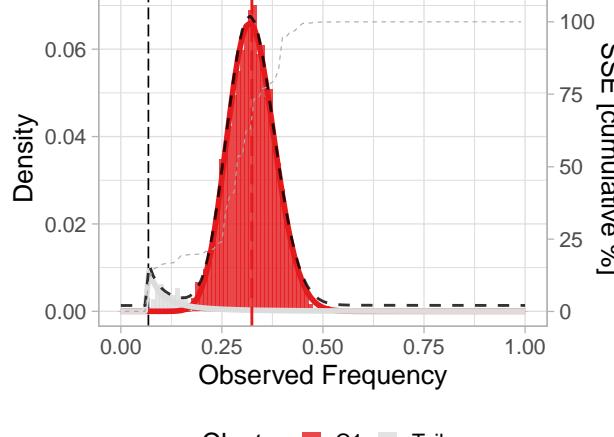
$K_B = 1, K_{BB} = 0$



Cluster Bin 1

Karyotype: 1:1

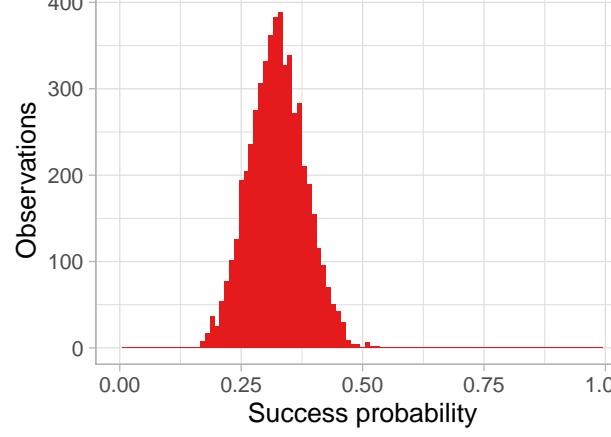
N = 5557; Tail 5.02%, C1 94.98%



MM ($\omega = 21$; $\epsilon = 1e-05$; SSE 6.985e-04) LV > 0

Karyotype: 1:1

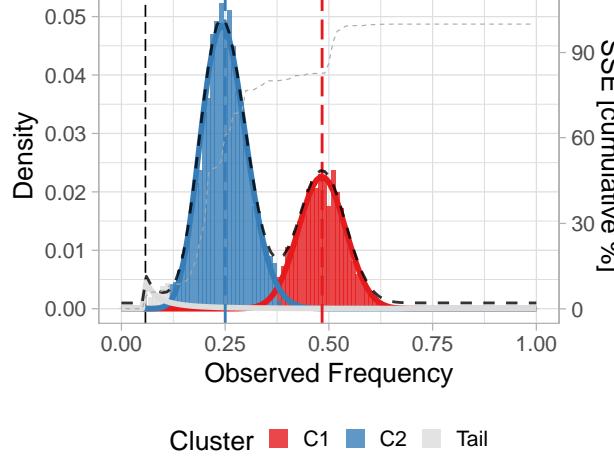
$K_B = 1, K_{BB} = 0$



Cluster Bin 1

Karyotype: 2:1

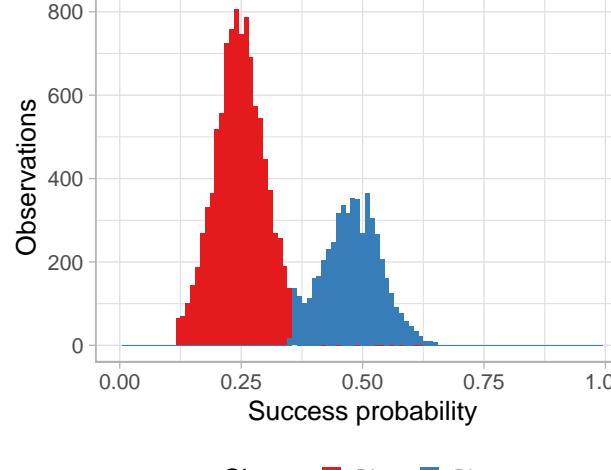
N = 15399; Tail 2.43%, C1 31.89%, C2 65.68%



MM ($\omega = 53$; $\epsilon = 4e-05$; SSE 4.255e-04) LV > 0

Karyotype: 2:1

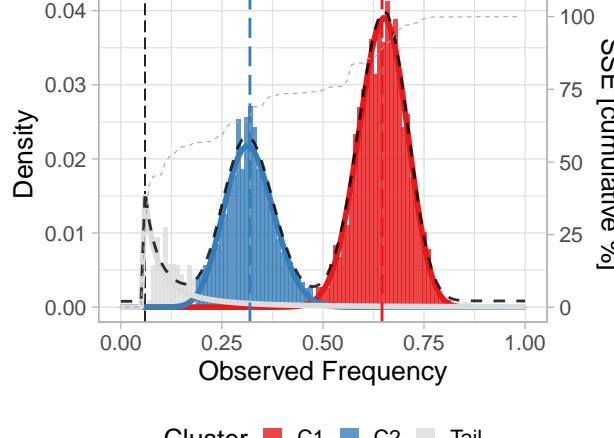
$K_B = 2, K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:0

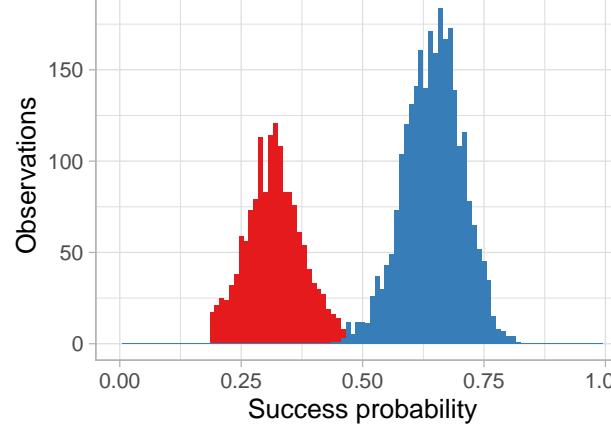
N = 4459; Tail 8.47%, C2 33.02%, C1 58.51%



MM ($\omega = 59$; $\epsilon = 8e-06$; SSE 7.774e-04) LV > 0

Karyotype: 2:0

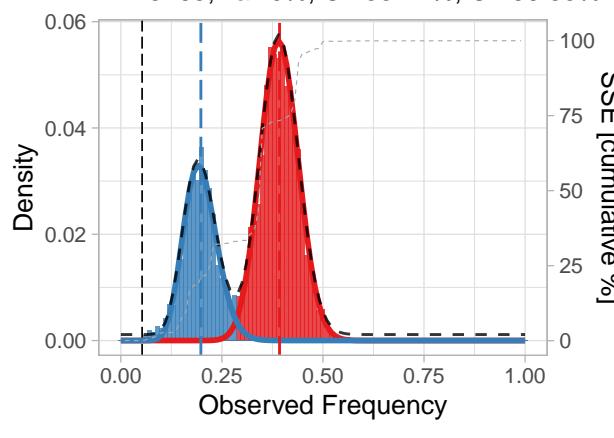
$K_B = 2, K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:2

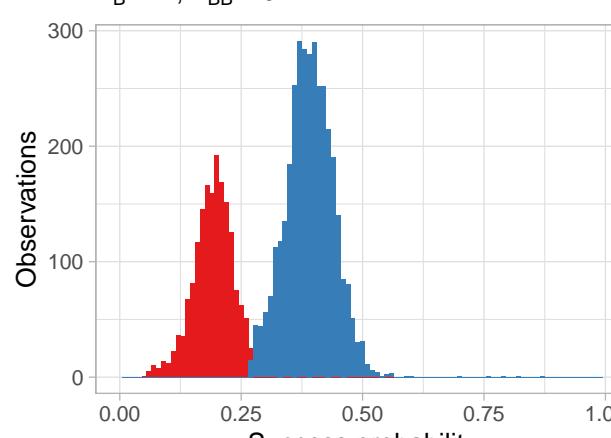
N = 5265; Tail 0%, C2 33.47%, C1 66.53%



MM ($\omega = 64$; $\epsilon = 1e-05$; SSE 4.607e-04) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



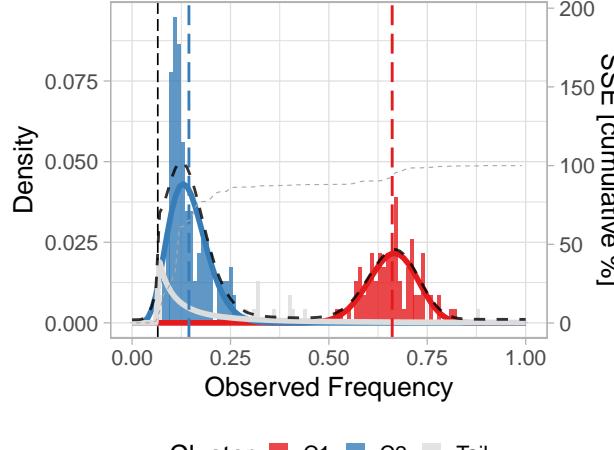
Cluster Bin 1 Bin 2

180614_HMFregCPCT_FR17759047_FR16985805_CPCT02170032

ONLY SNVs (min 150 – max 50000)

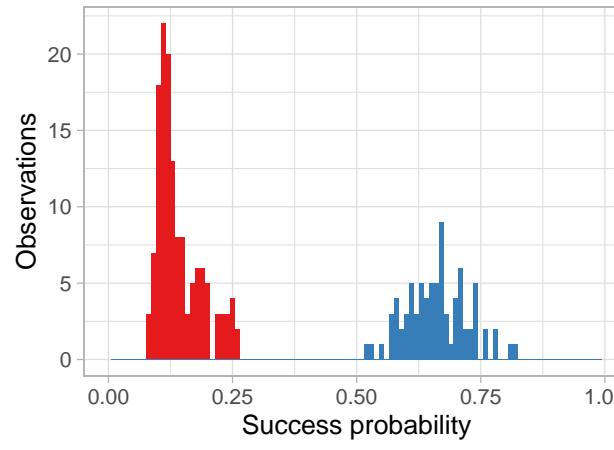
Karyotype: 1:0

N = 232; Tail 14.96%, C1 33.64%, C2 51.4%



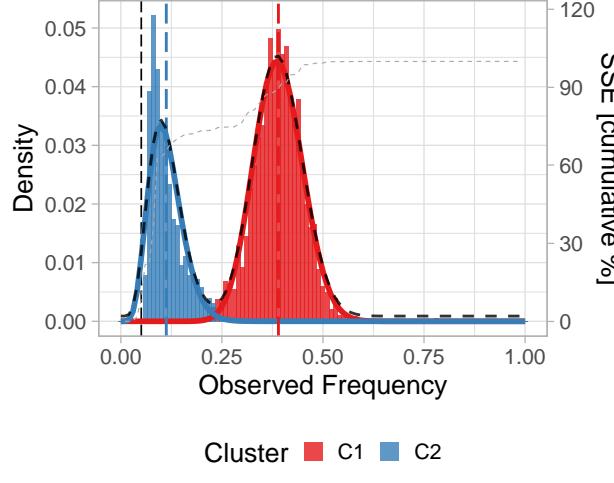
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



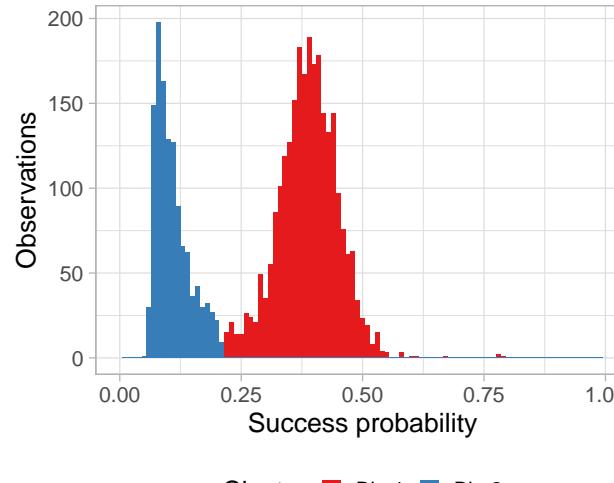
Karyotype: 1:1

N = 3798; Tail 0%, C2 32.82%, C1 67.18%



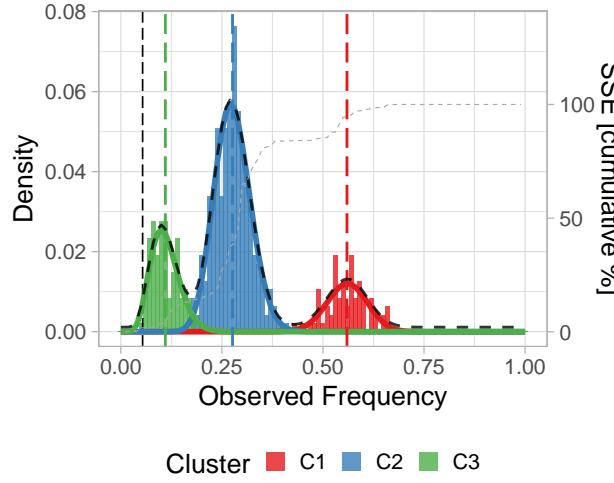
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



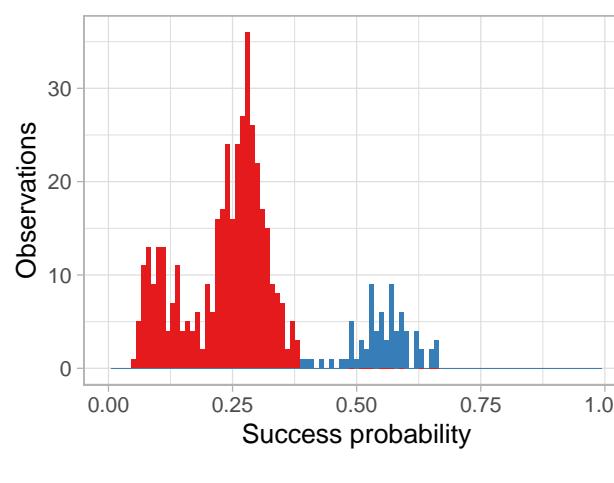
Karyotype: 2:1

N = 471; Tail 0%, C1 15.01%, C3 21.83%, C2



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

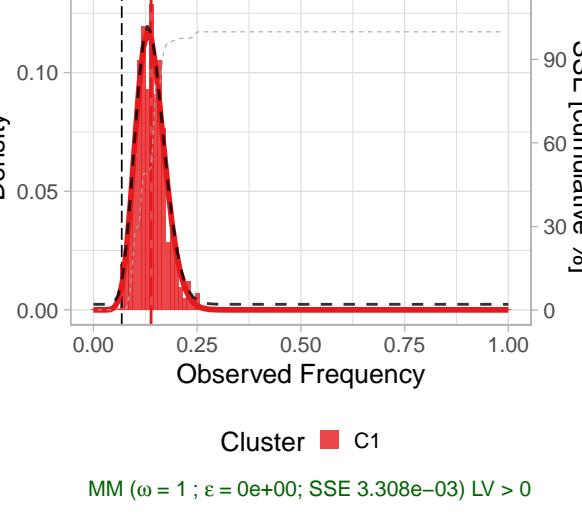
2:2

2:2

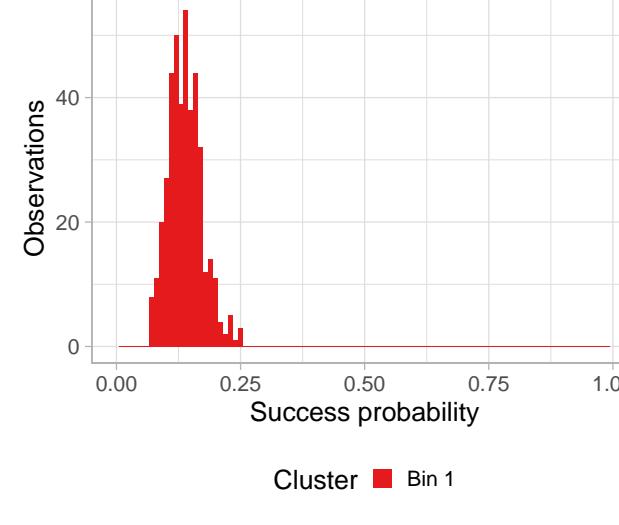
180616_HMFregCPCT_FR16985748_FR17020401_CPCT02390030

ONLY SNVs (min 150 – max 50000)

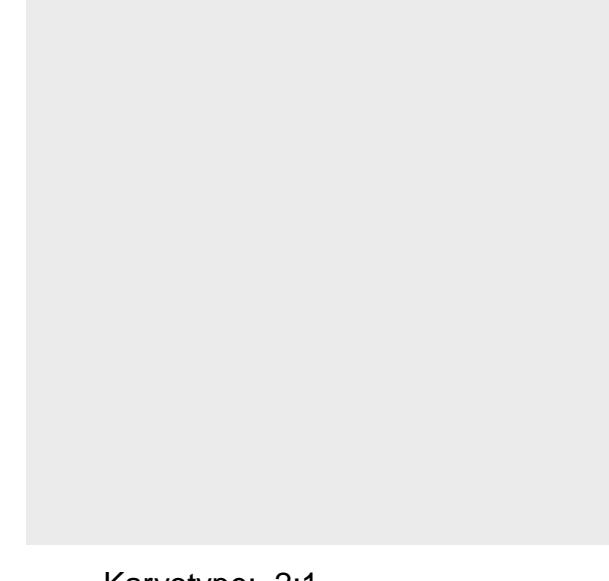
Karyotype: 1:0
N = 419; Tail 0%, C1 100%



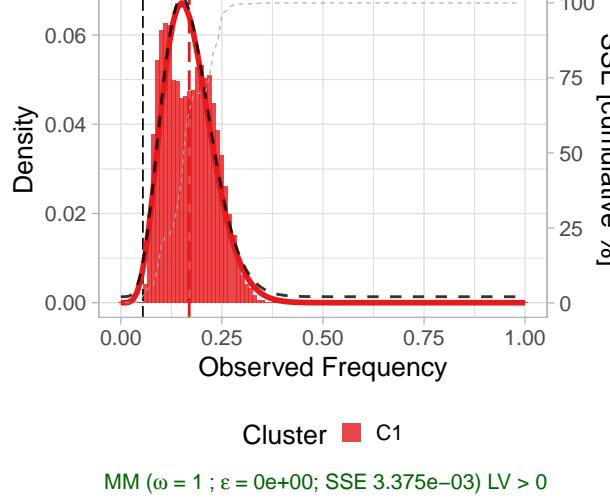
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



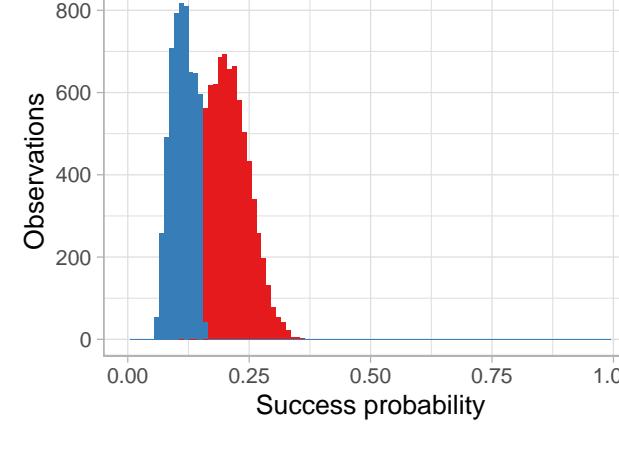
1:1



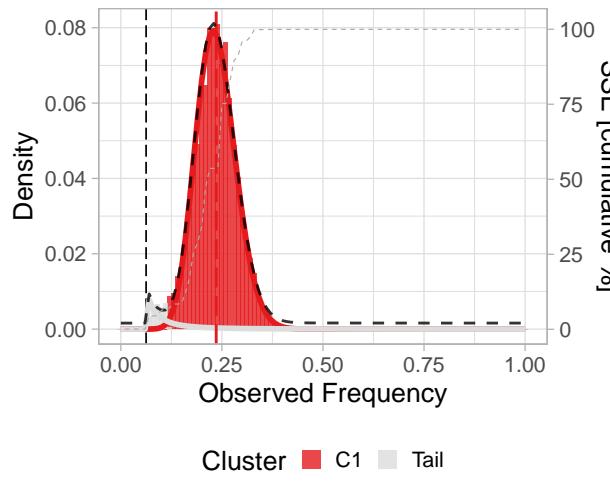
Karyotype: 2:1
N = 13025; Tail 0%, C1 100%



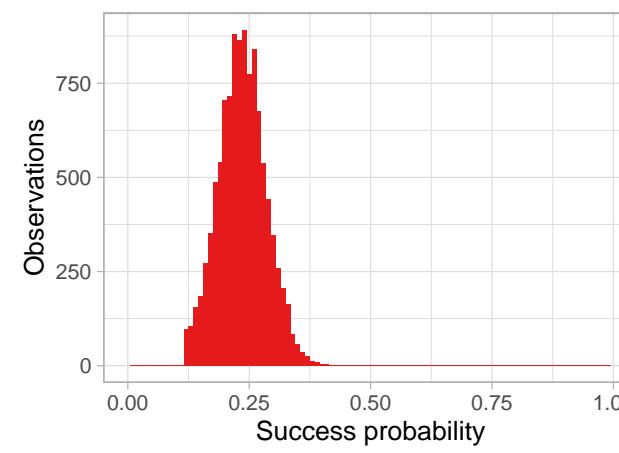
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



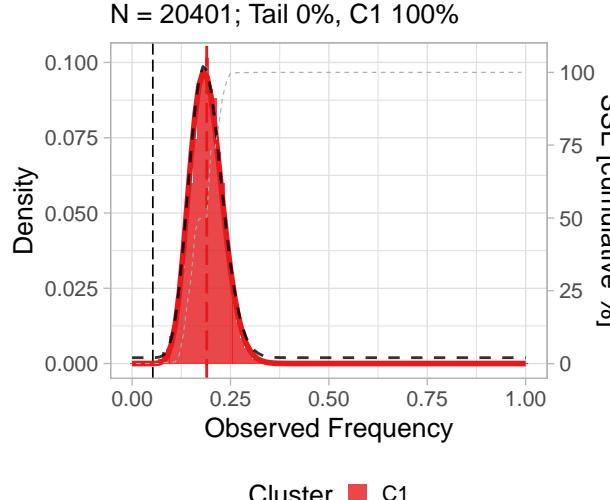
Karyotype: 2:0
N = 11032; Tail 3.94%, C1 96.06%



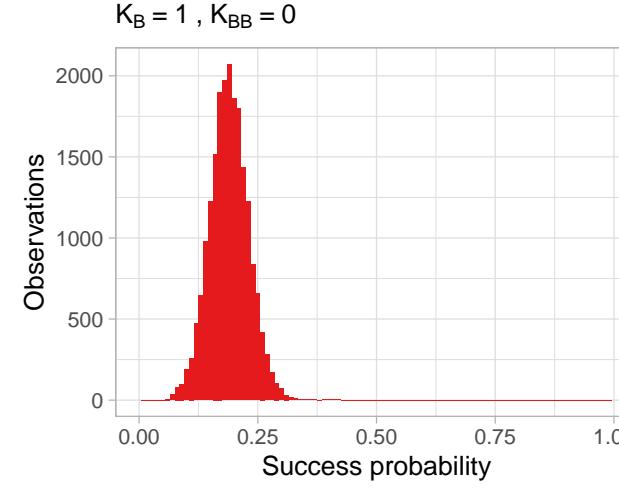
Karyotype: 2:0
 $K_B = 1, K_{BB} = 0$



Karyotype: 2:2
N = 20401; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 1, K_{BB} = 0$

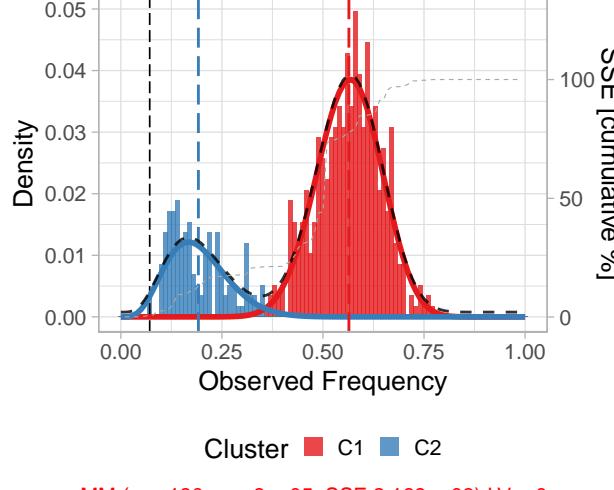


180703_HMFregCPCT_FR17020572_FR17020465_CPCT02050385

ONLY SNVs (min 150 – max 50000)

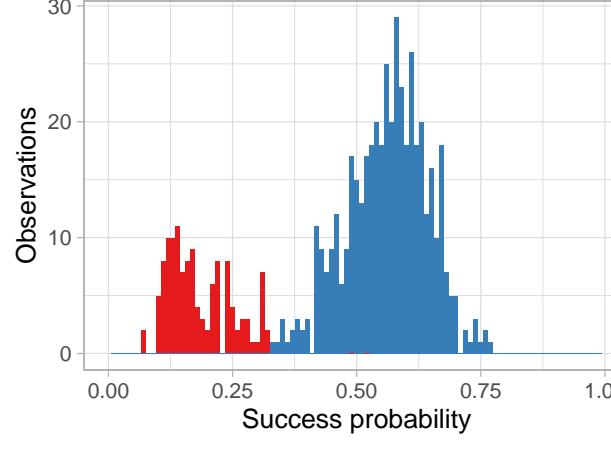
Karyotype: 1:0

N = 584; Tail 0%, C2 22.31%, C1 77.69%



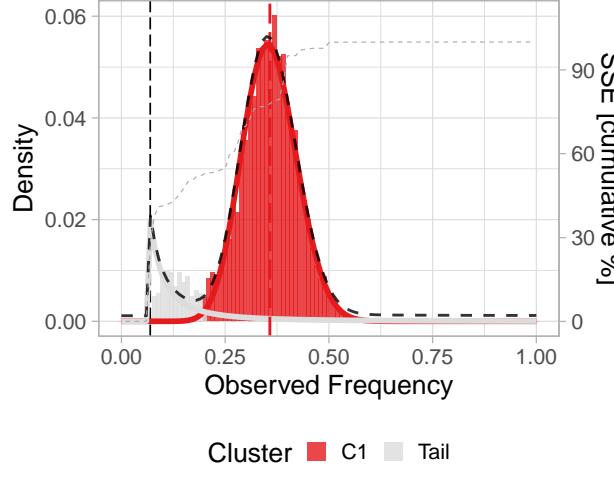
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



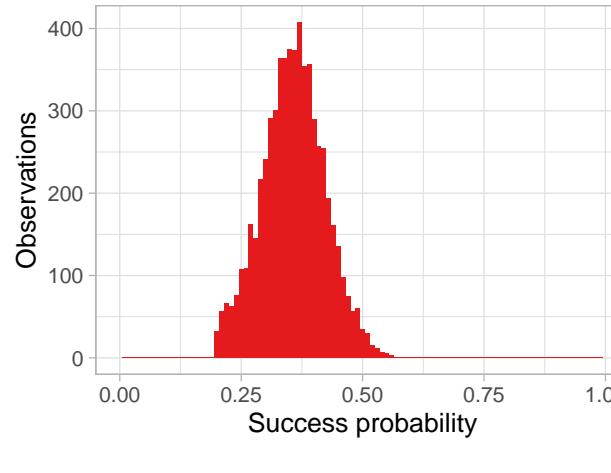
Karyotype: 1:1

N = 6784; Tail 11.12%, C1 88.88%



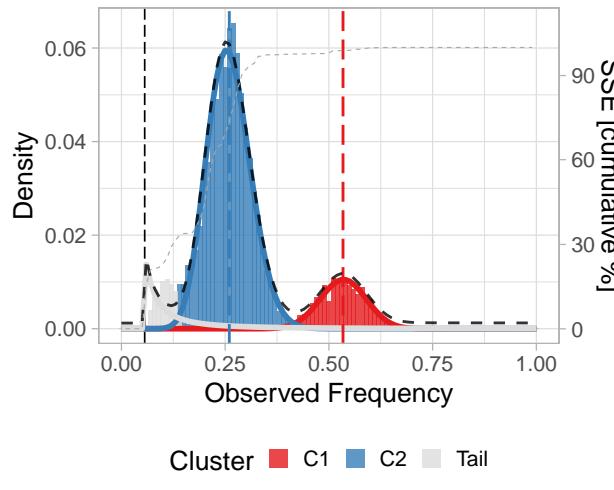
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



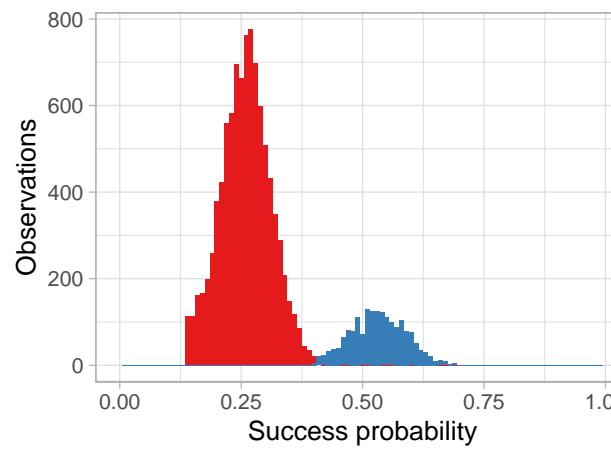
Karyotype: 2:1

N = 11871; Tail 7.67%, C1 14.52%, C2 77.81%



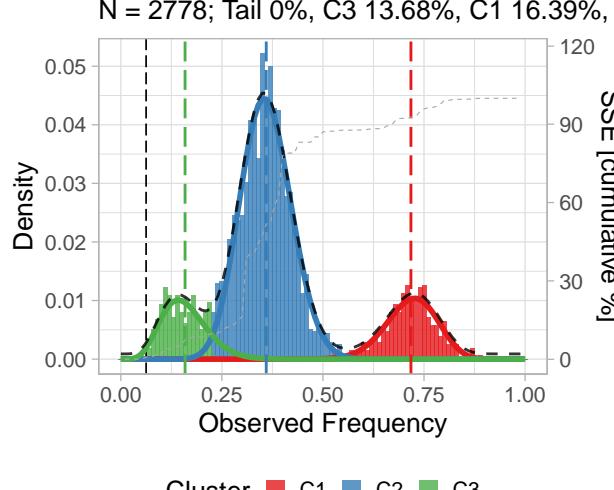
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



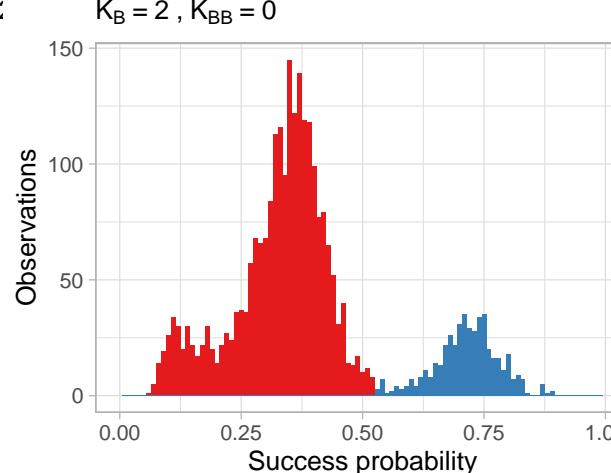
Karyotype: 2:0

N = 2778; Tail 0%, C3 13.68%, C1 16.39%, C2 69.93%



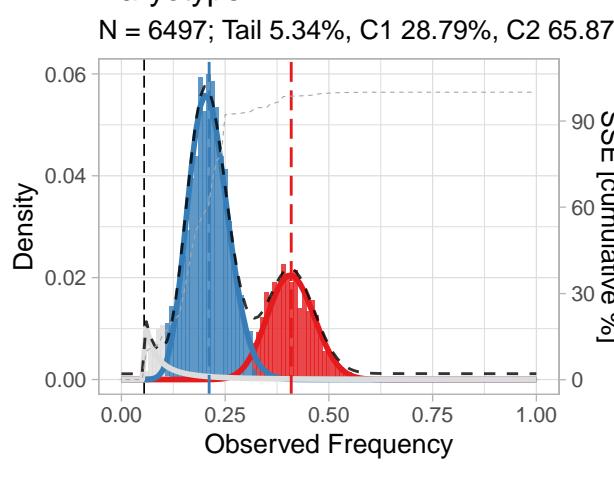
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



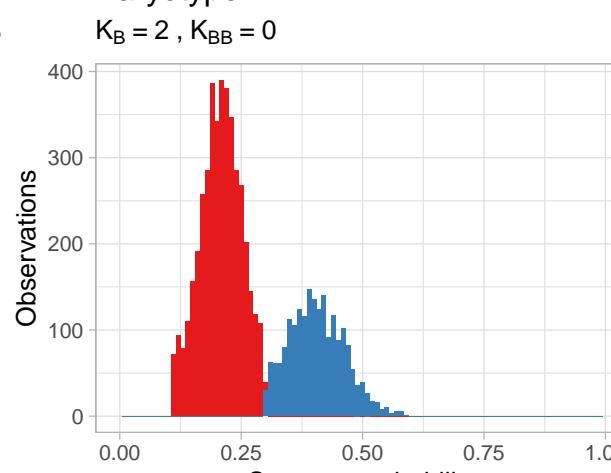
Karyotype: 2:2

N = 6497; Tail 5.34%, C1 28.79%, C2 65.87%



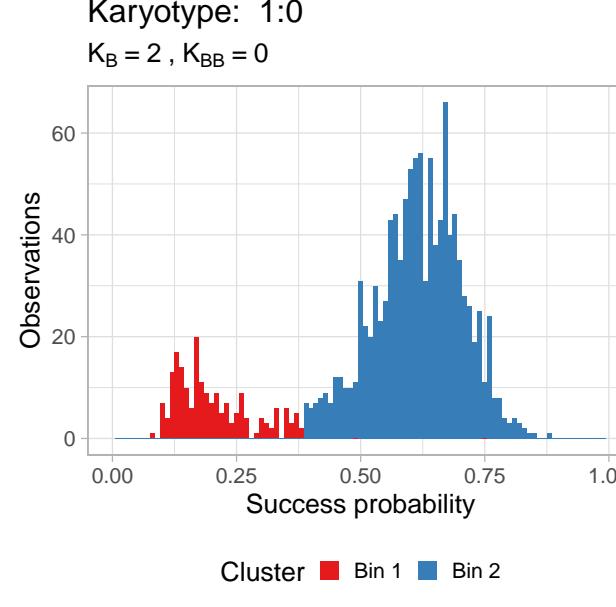
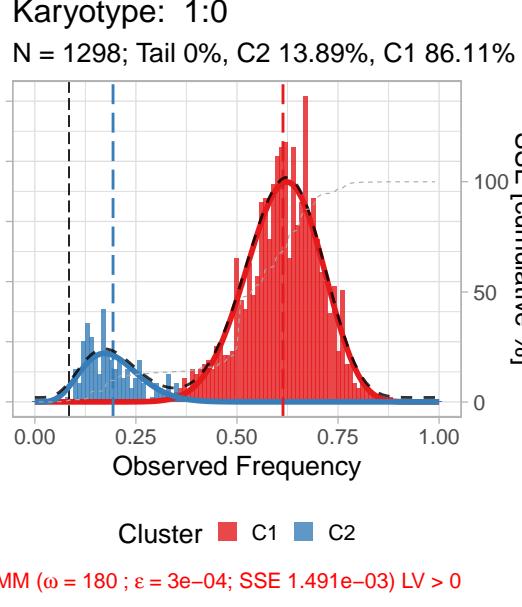
Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

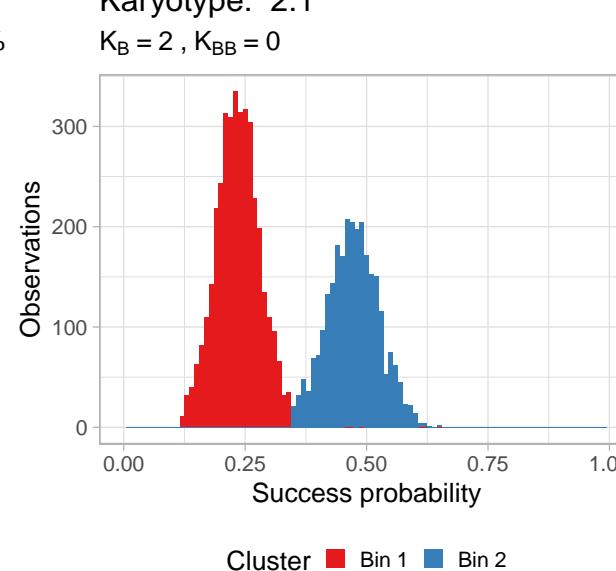
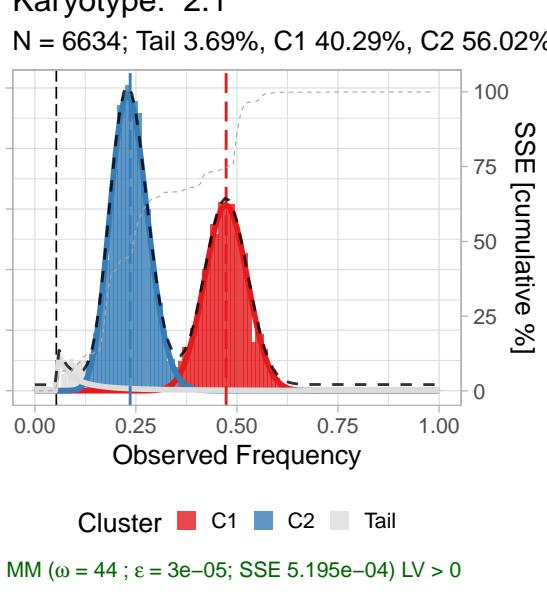
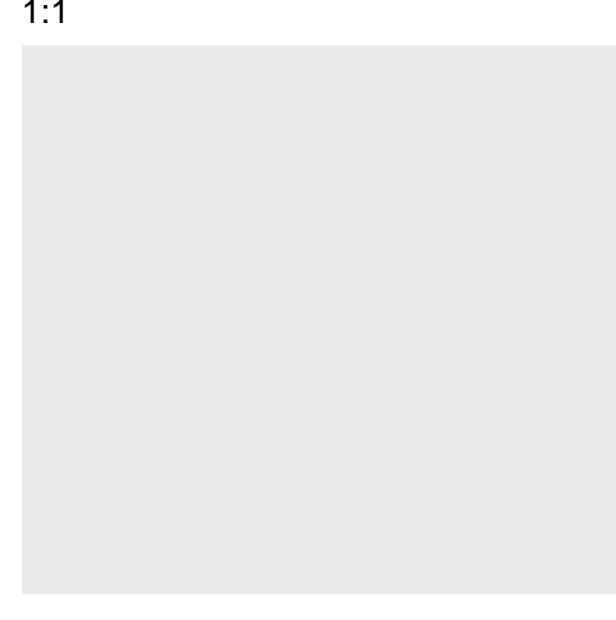


180704_HMFregCPCT_FR16981231_FR16981624_CPCT02010904

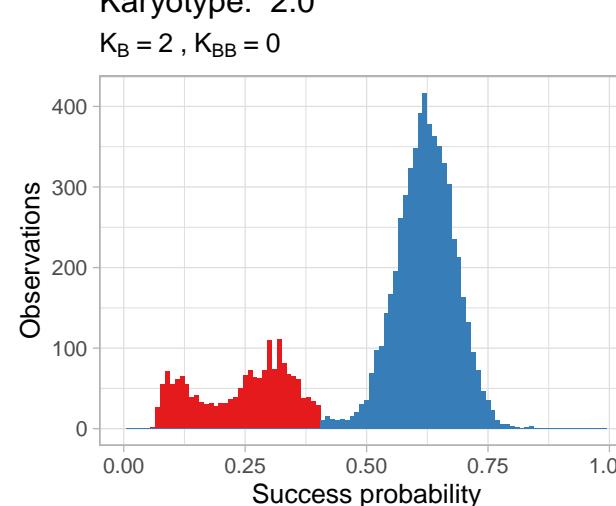
ONLY SNVs (min 150 – max 50000)



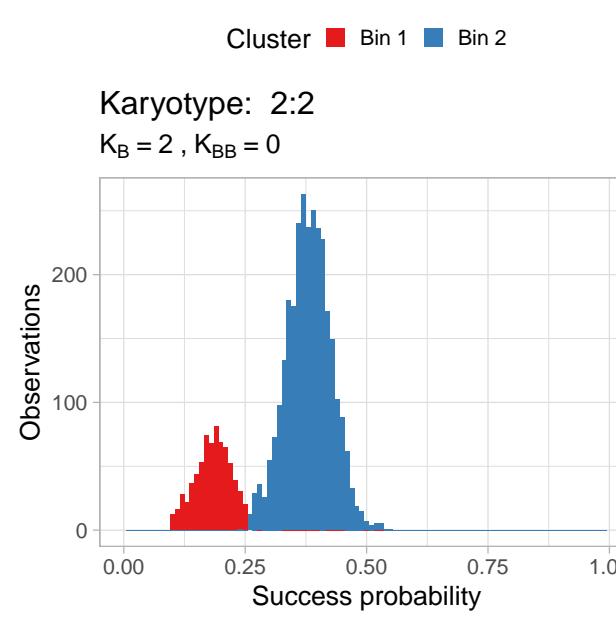
1:1



Karyotype: 2:0
N = 7586; Tail 0%, C3 7.23%, C2 17.08%, C1 75.69%



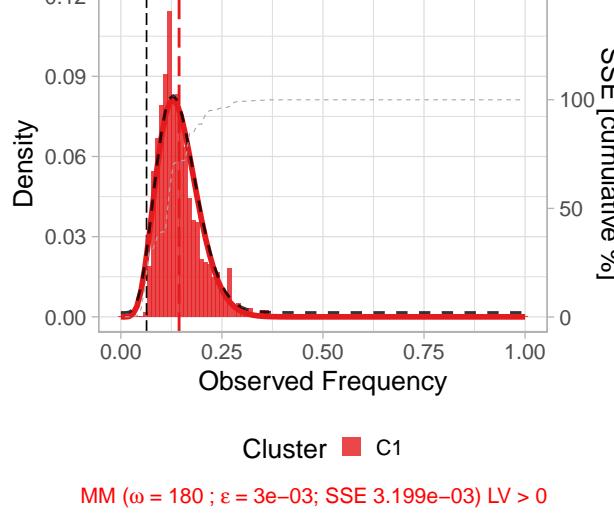
Karyotype: 2:2
N = 3702; Tail 2.4%, C2 20.02%, C1 77.58%



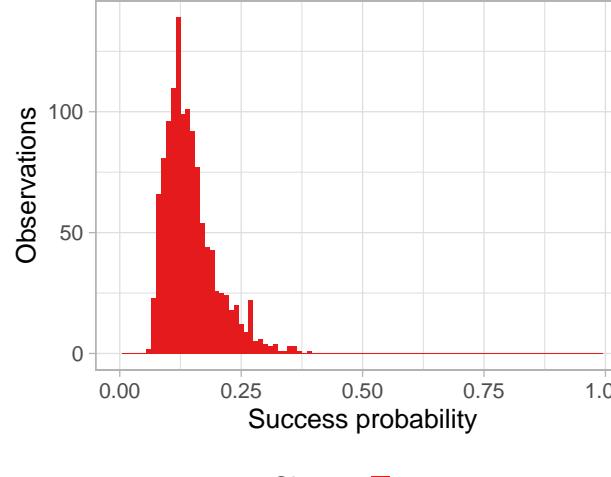
180706_HMFregCPCT_FR16985733_FR17020486_CPCT02140080

ONLY SNVs (min 150 – max 50000)

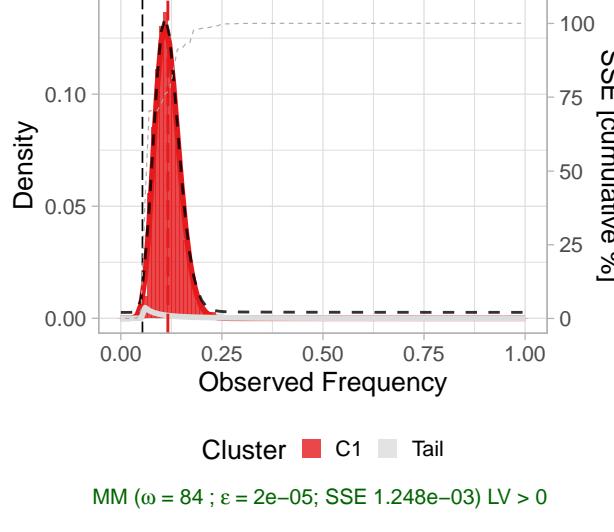
Karyotype: 1:0
N = 1215; Tail 0%, C1 100%



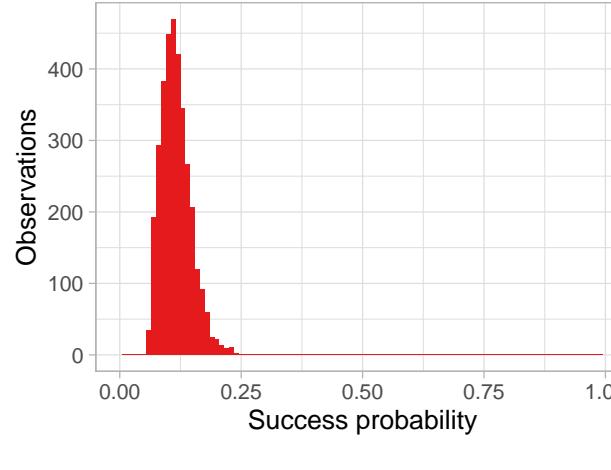
Karyotype: 1:0
 $K_B = 1$, $K_{BB} = 0$



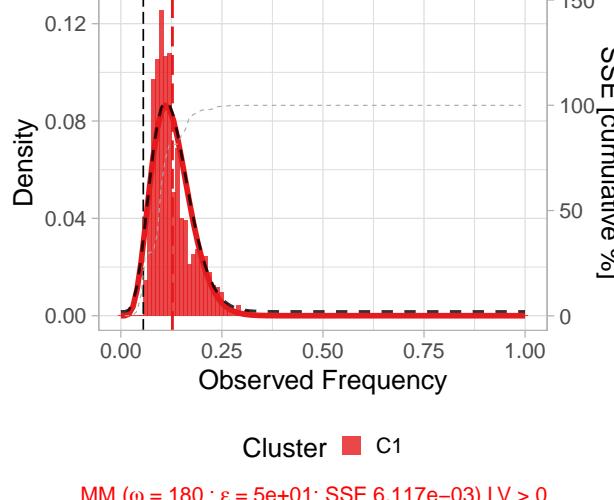
Karyotype: 1:1
N = 3445; Tail 3.07%, C1 96.93%



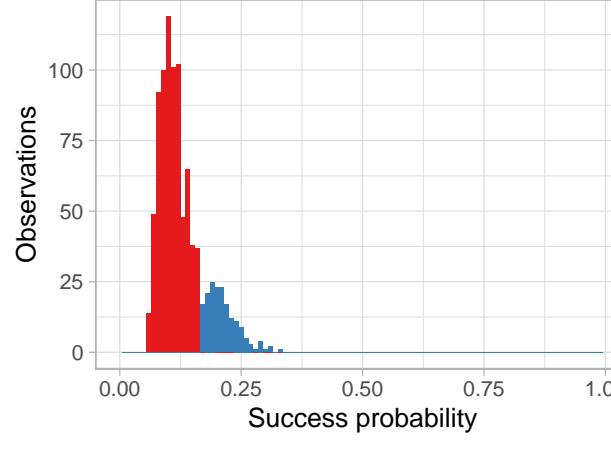
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



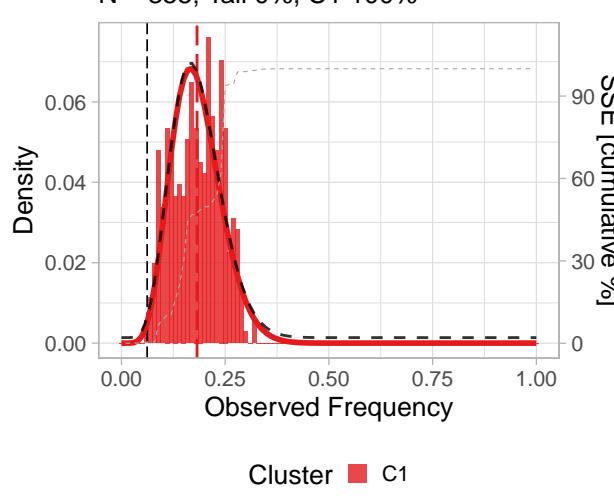
Karyotype: 2:1
N = 947; Tail 0%, C1 100%



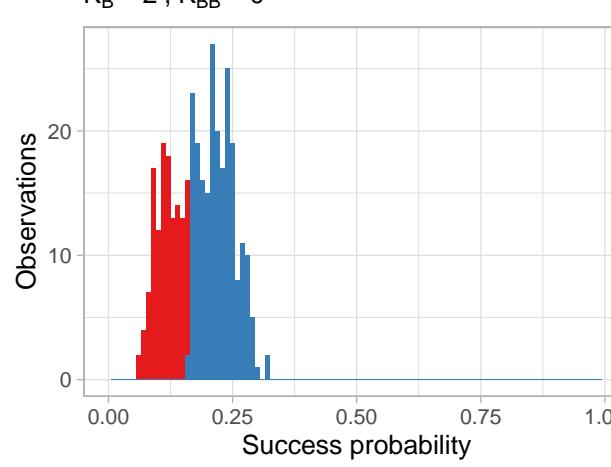
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



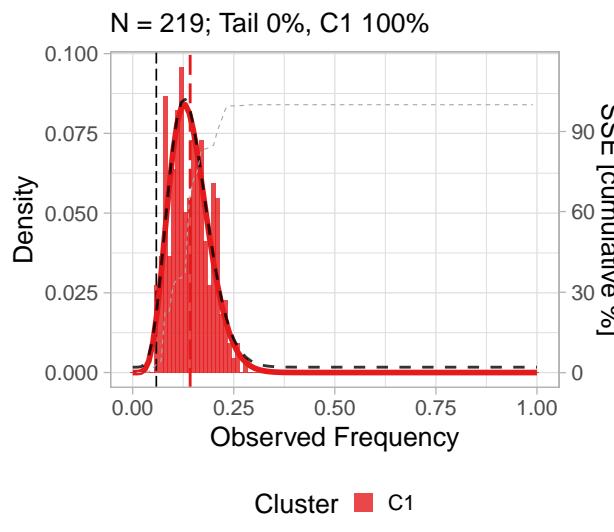
Karyotype: 2:0
N = 355; Tail 0%, C1 100%



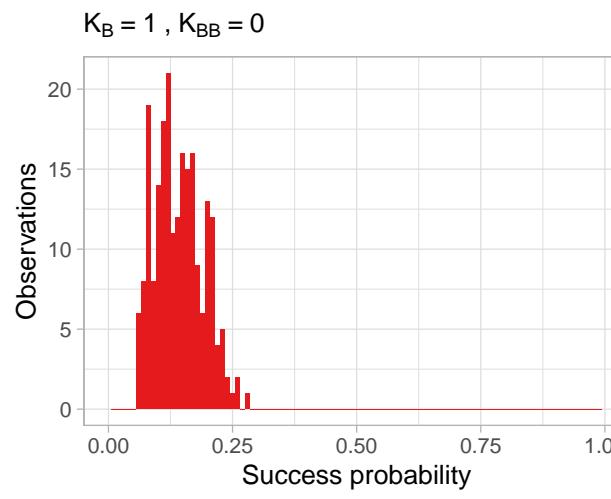
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 219; Tail 0%, C1 100%

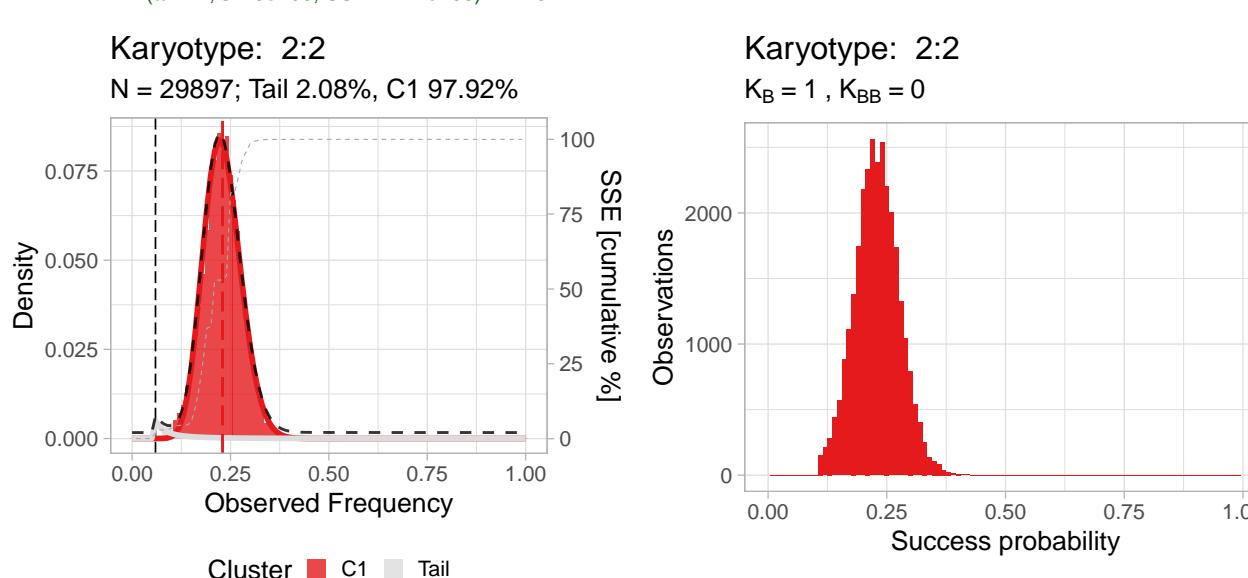
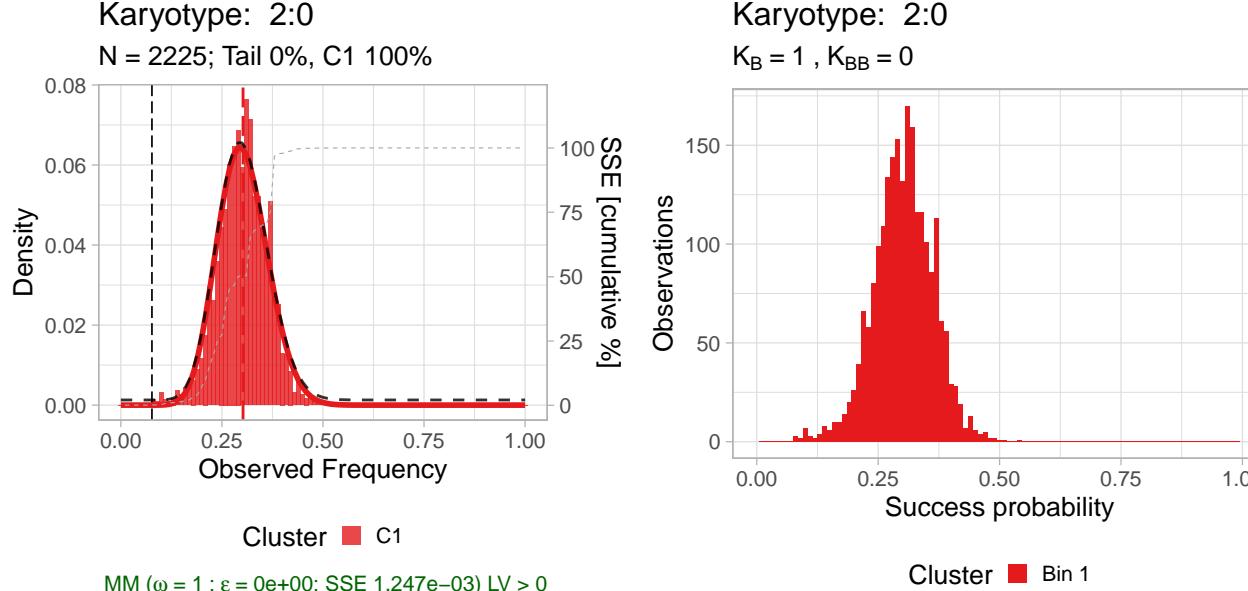
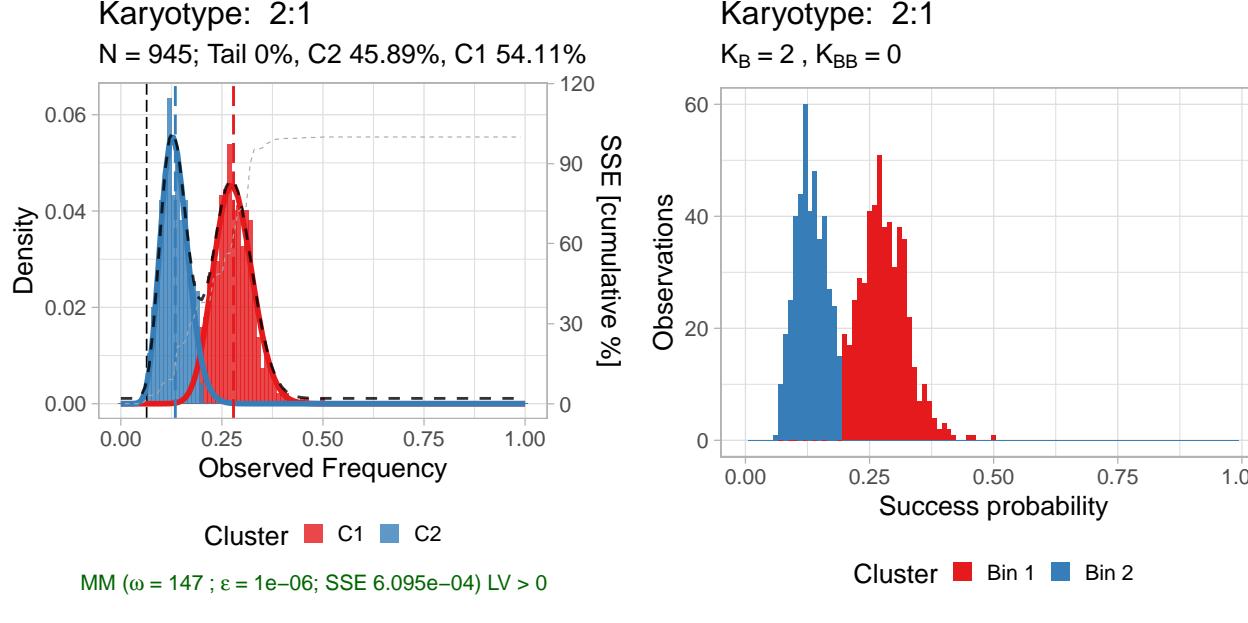
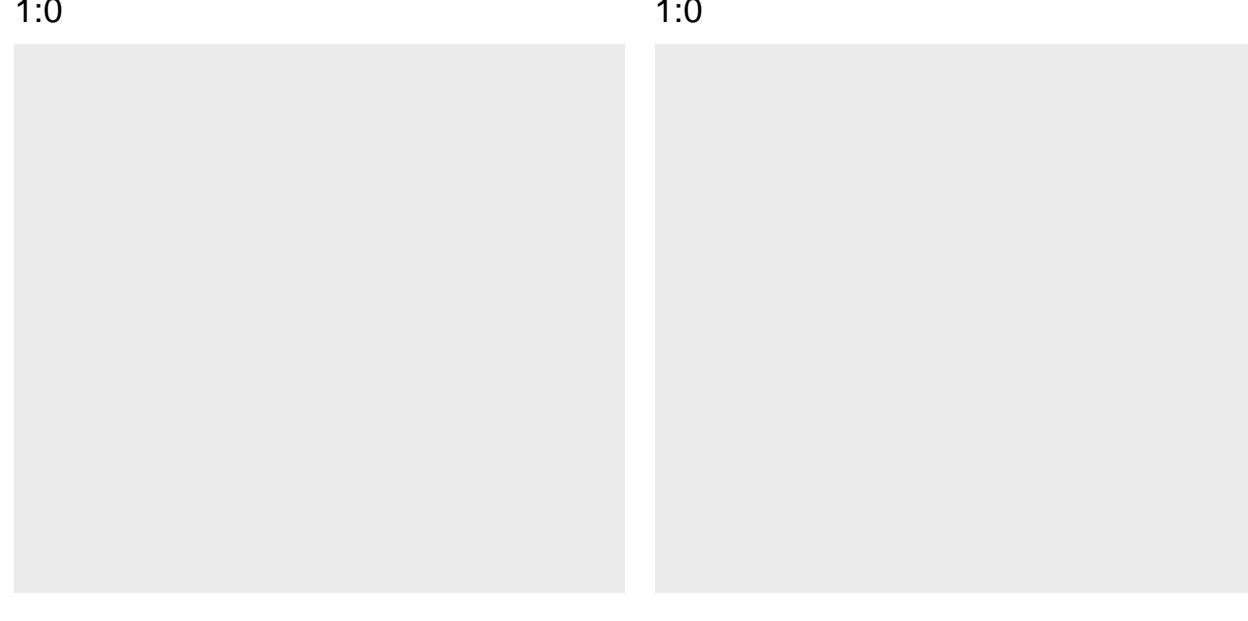


Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$



180713_HMFregCPCT_FR17020171_FR16981654_CPCT02010911

ONLY SNVs (min 150 – max 50000)

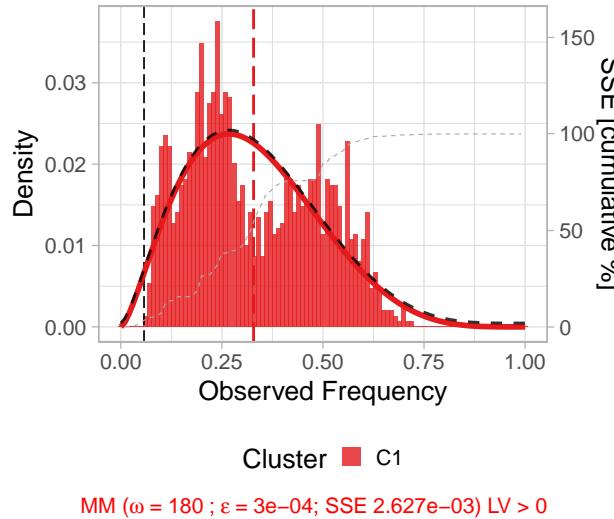


180717_HMFregCPCT_FR16981533_FR17019745_CPCT02050395

ONLY SNVs (min 150 – max 50000)

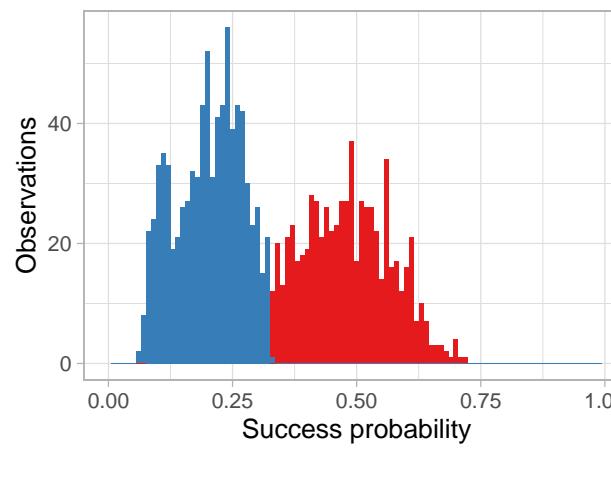
Karyotype: 1:0

N = 1490; Tail 0%, C1 100%



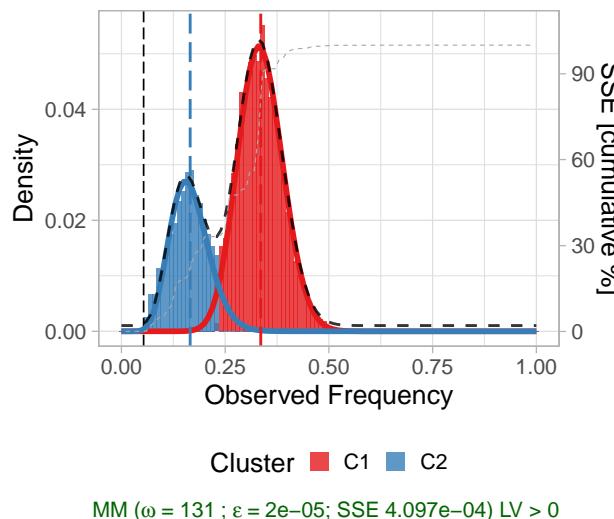
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



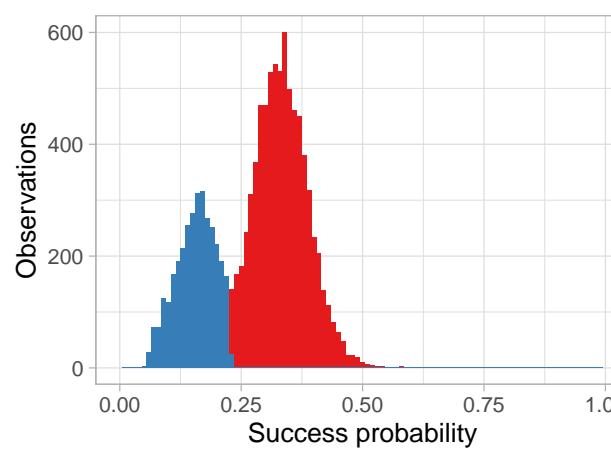
Karyotype: 1:1

N = 10908; Tail 0%, C2 30.86%, C1 69.14%



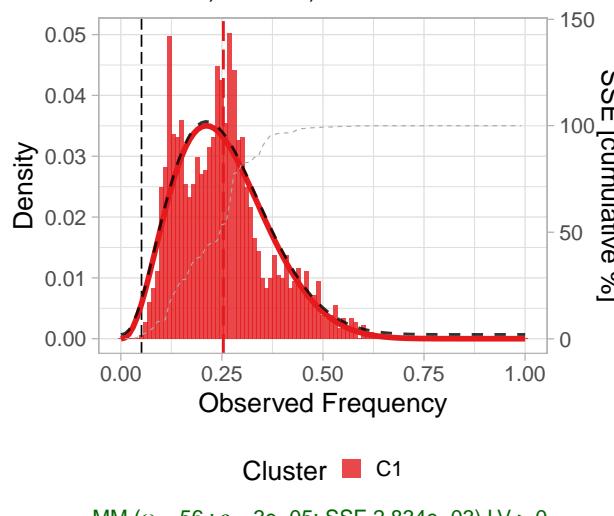
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



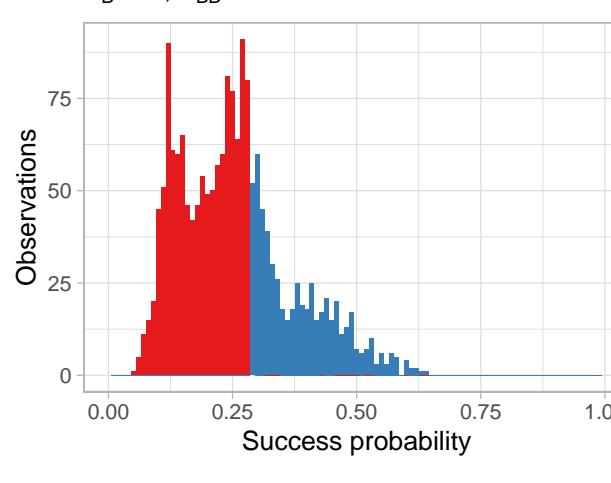
Karyotype: 2:1

N = 1810; Tail 0%, C1 100%



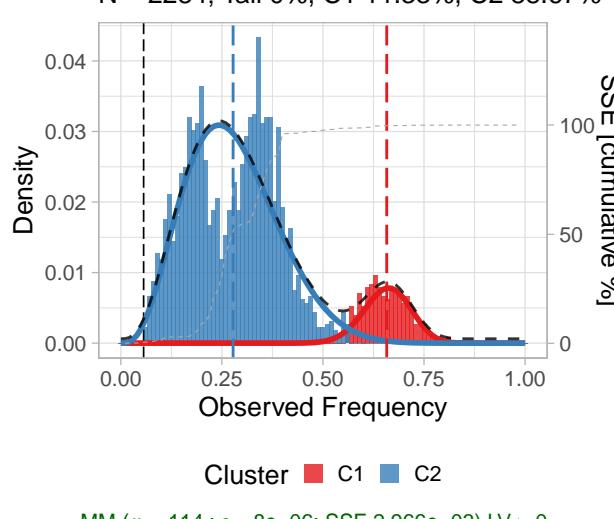
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



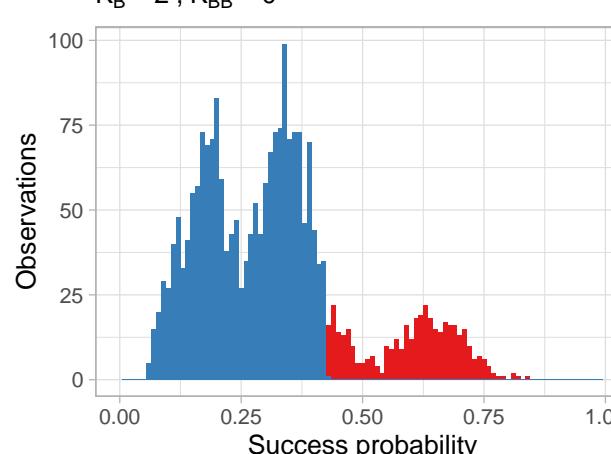
Karyotype: 2:0

N = 2284; Tail 0%, C1 11.33%, C2 88.67%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

2:2

180731_HMFregCPCT_FR17019852_FR16982253_CPCT02080259

ONLY SNVs (min 150 – max 50000)

1:0

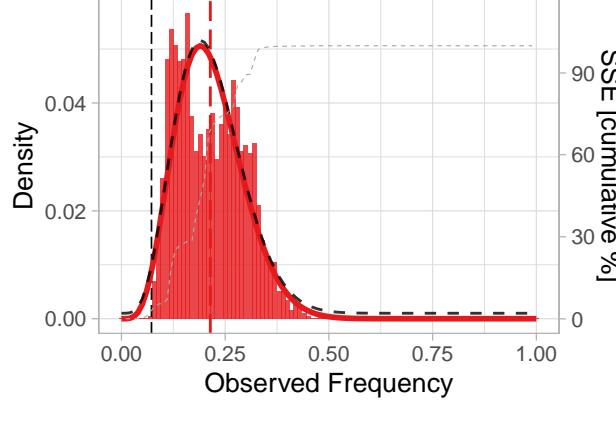
1:0

1:1

1:1

Karyotype: 2:1

N = 1993; Tail 0%, C1 100%

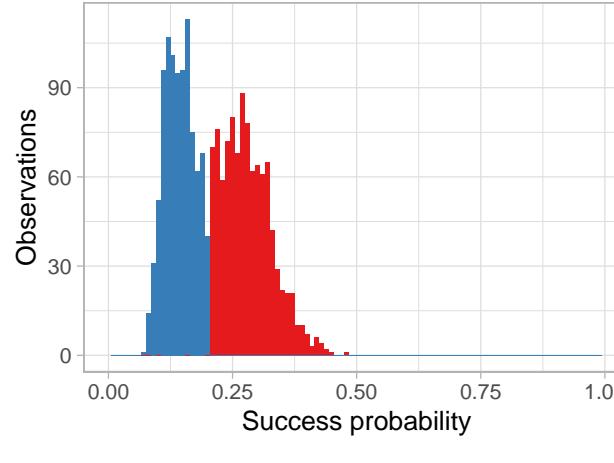


Cluster ■ C1

MM ($\omega = 38$; $\varepsilon = 9e-06$; SSE $3.673e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$

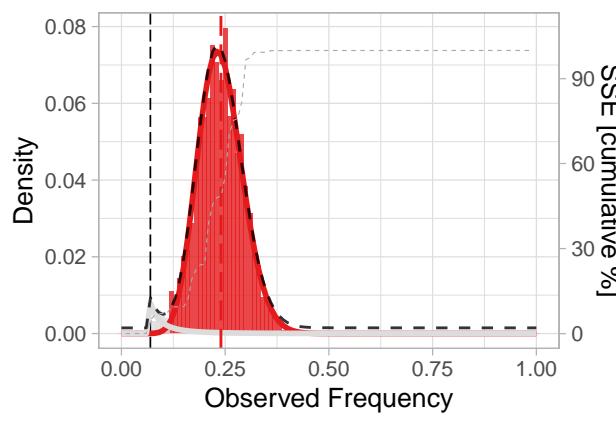


2:0

2:0

Karyotype: 2:2

N = 3965; Tail 2.85%, C1 97.15%

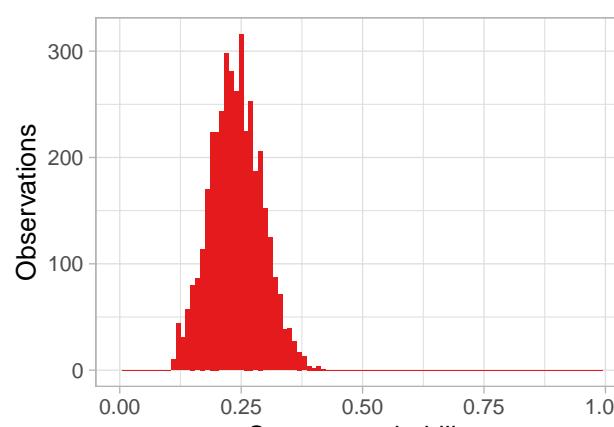


Cluster ■ C1 ■ Tail

MM ($\omega = 42$; $\varepsilon = 1e-05$; SSE $1.197e-03$) LV > 0

Karyotype: 2:2

$K_B = 1$, $K_{BB} = 0$



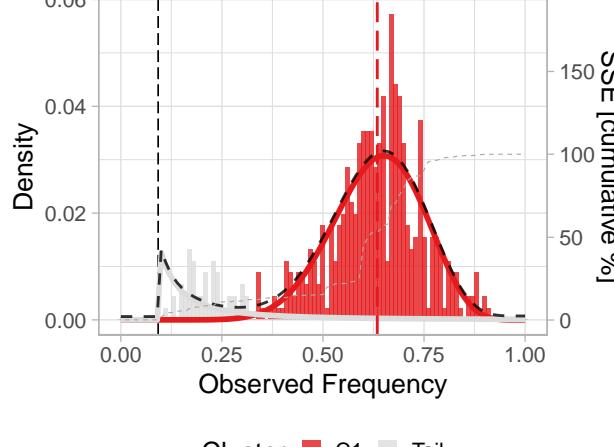
Cluster ■ Bin 1

180808_HMFregCPCT_FR17019765_FR16983393_CPCT02020813

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

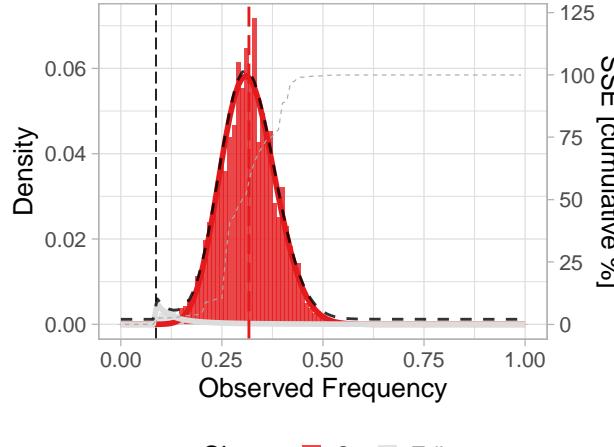
N = 454; Tail 12.91%, C1 87.09%



MM ($\omega = 19$; $\epsilon = 2e-06$; SSE 5.820e-03) LV > 0

Karyotype: 1:1

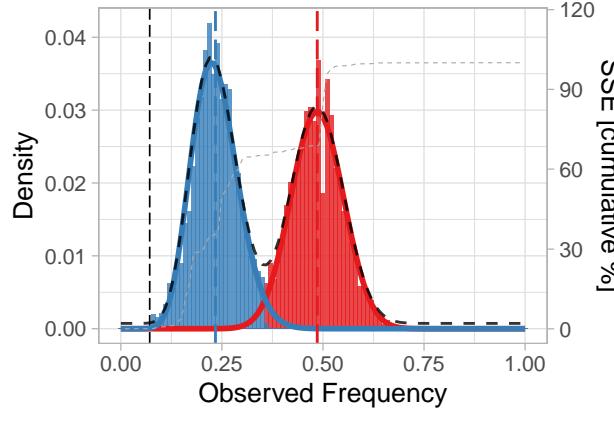
N = 4254; Tail 2.7%, C1 97.3%



MM ($\omega = 32$; $\epsilon = 1e-05$; SSE 7.022e-04) LV > 0

Karyotype: 2:1

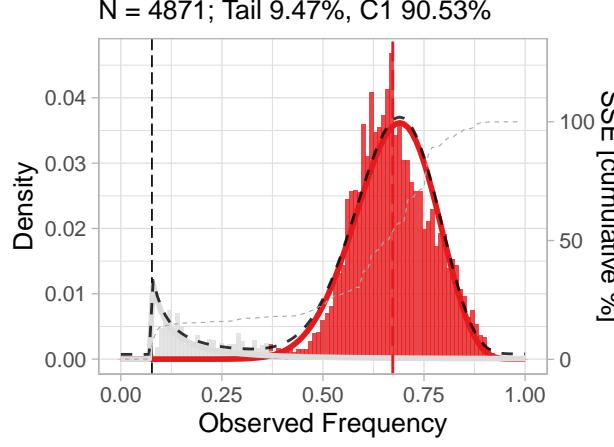
N = 8840; Tail 0%, C1 48.3%, C2 51.7%



MM ($\omega = 52$; $\epsilon = 6e-05$; SSE 6.422e-04) LV > 0

Karyotype: 2:0

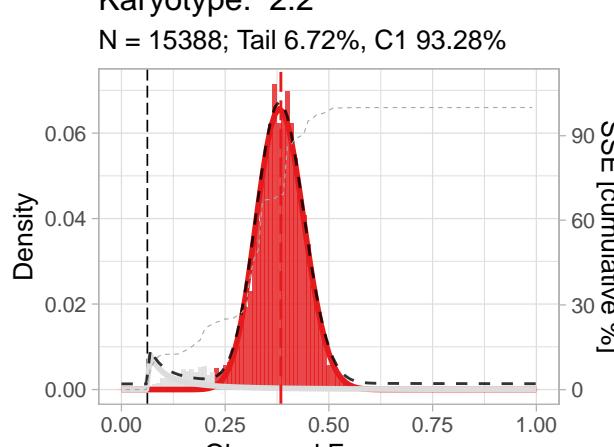
N = 4871; Tail 9.47%, C1 90.53%



MM ($\omega = 14$; $\epsilon = 1e-04$; SSE 1.390e-03) LV > 0

Karyotype: 2:2

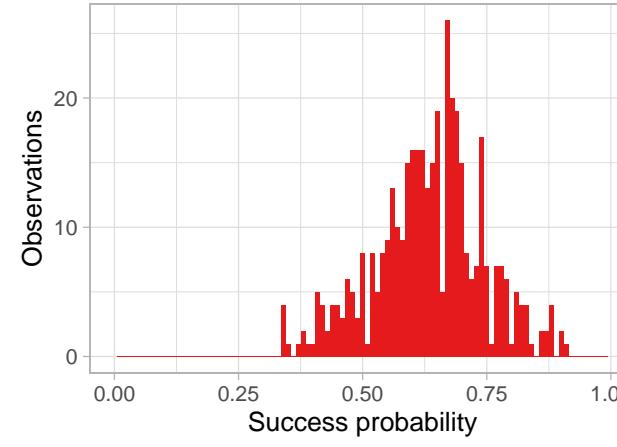
N = 15388; Tail 6.72%, C1 93.28%



MM ($\omega = 17$; $\epsilon = 7e-05$; SSE 8.115e-04) LV > 0

Karyotype: 1:0

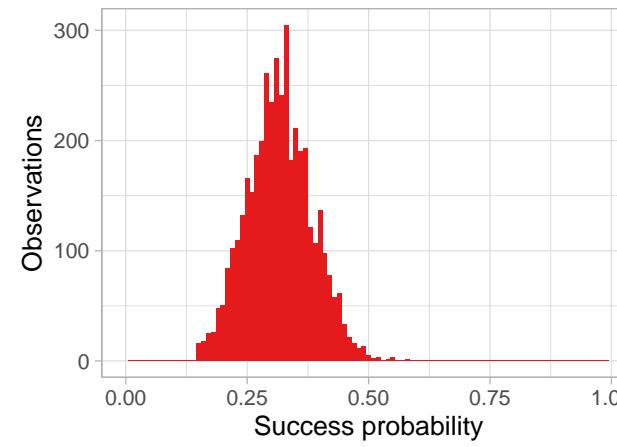
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 1:1

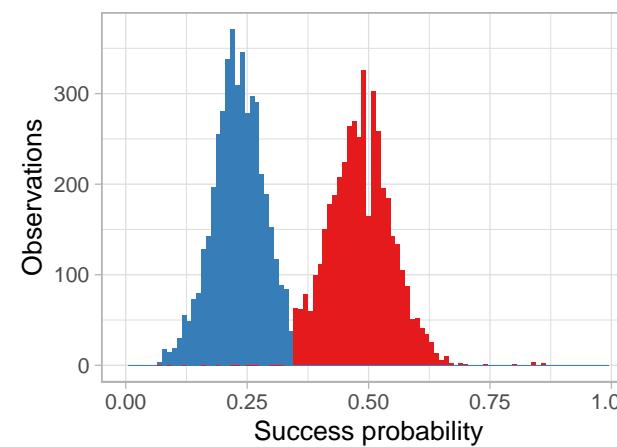
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

Karyotype: 2:1

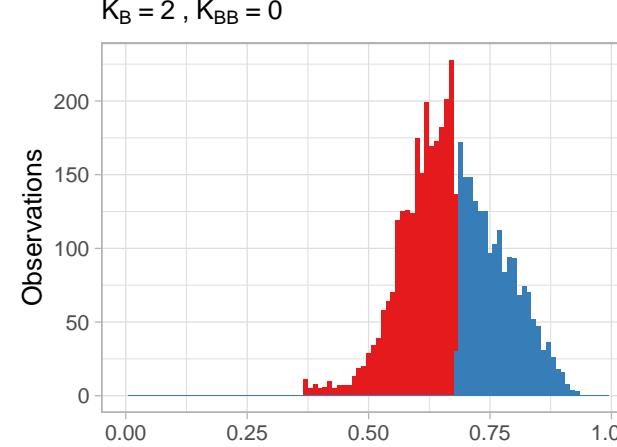
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:0

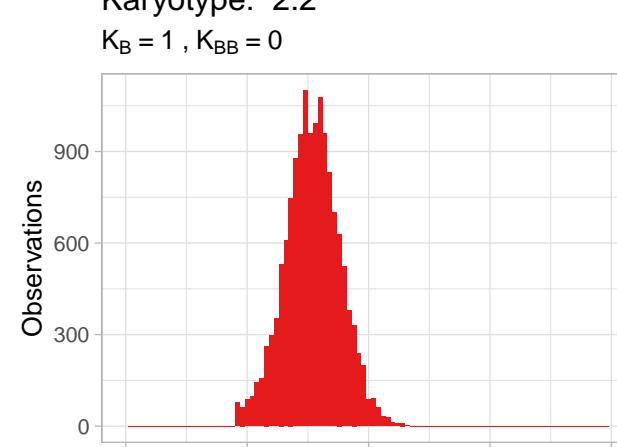
$K_B = 2$, $K_{BB} = 0$



Cluster Bin 1 Bin 2

Karyotype: 2:2

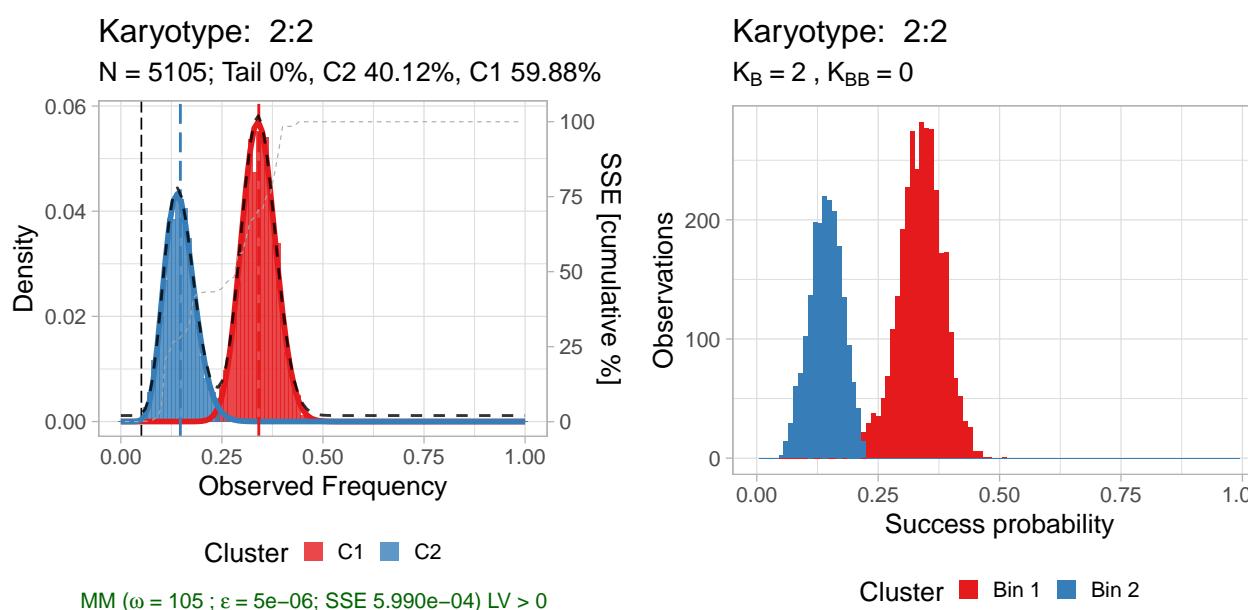
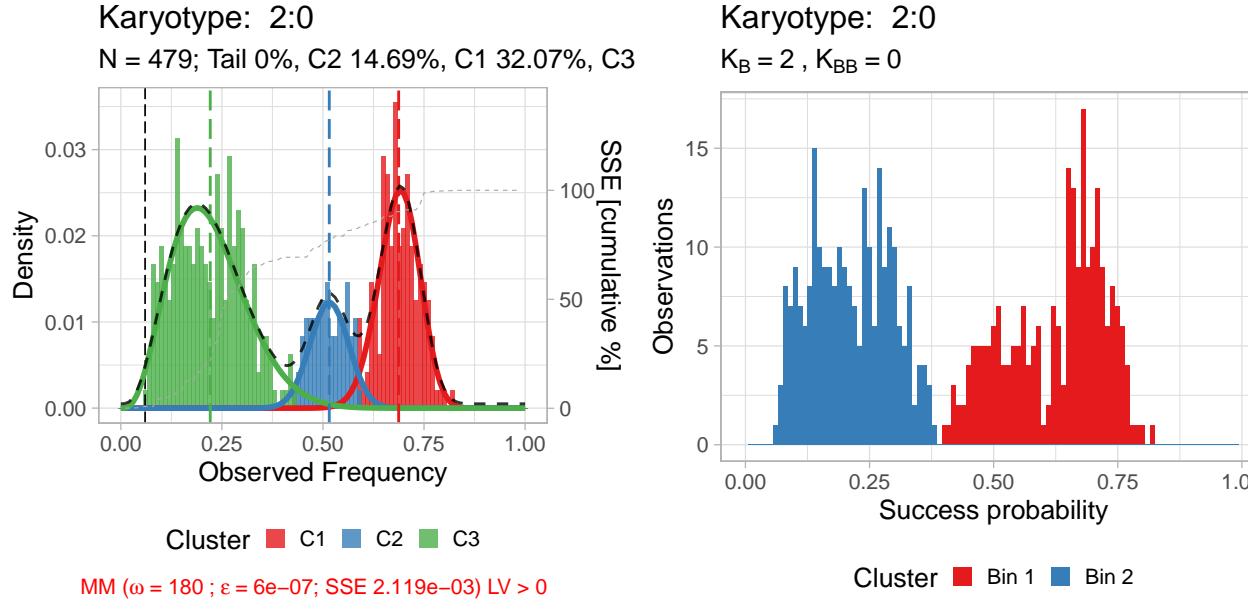
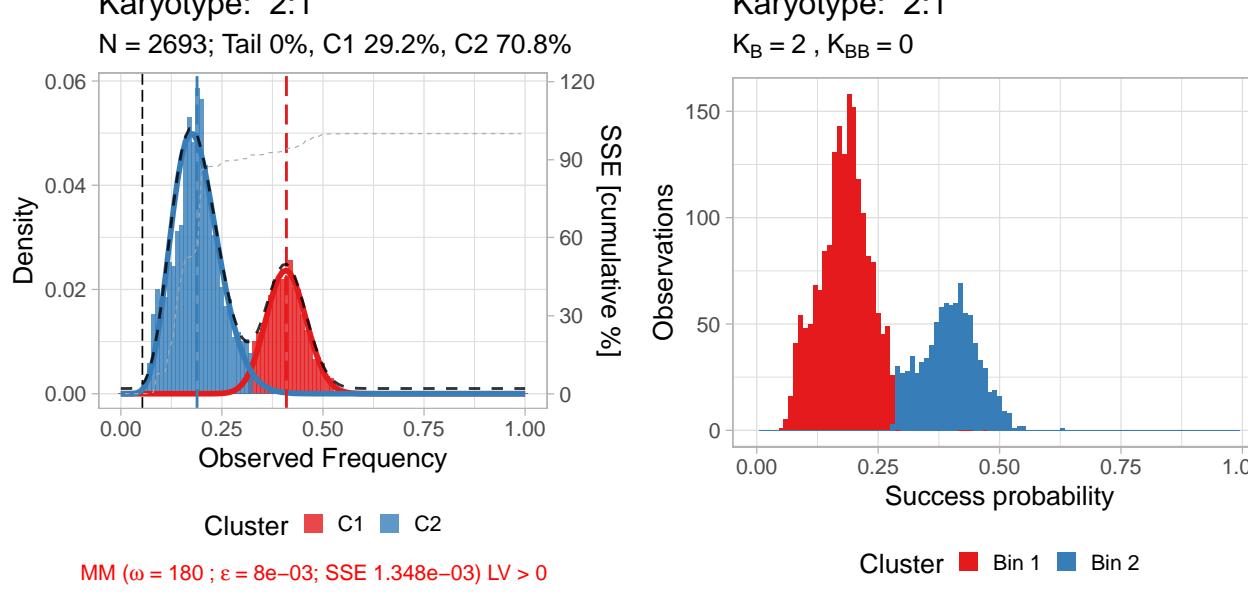
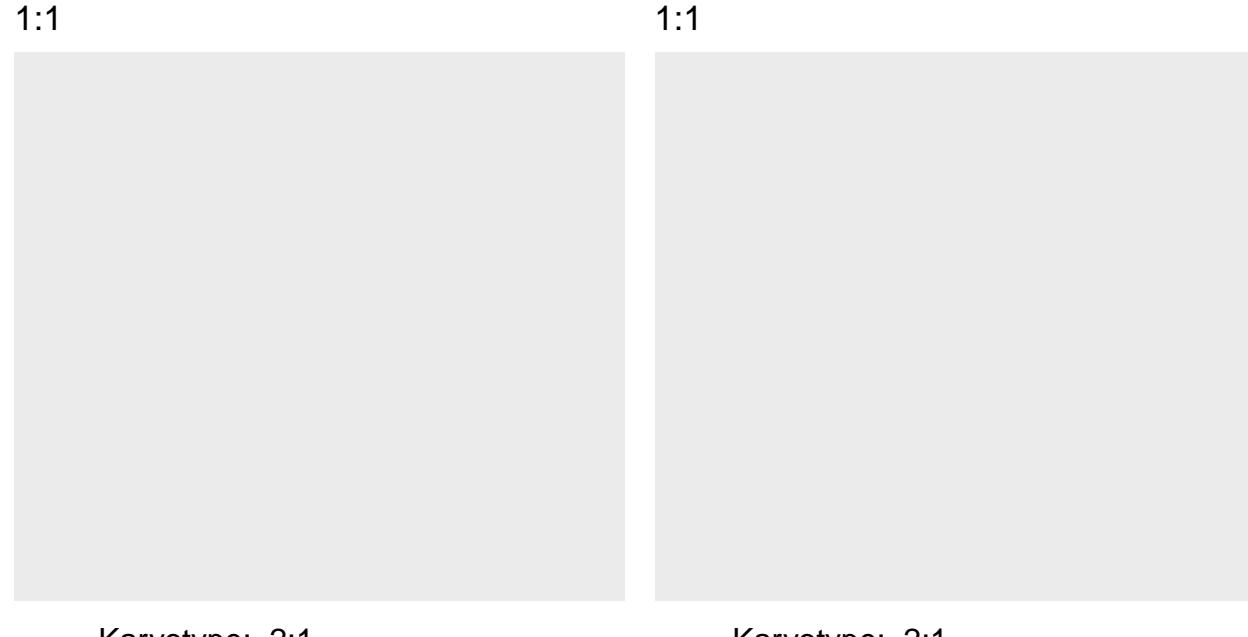
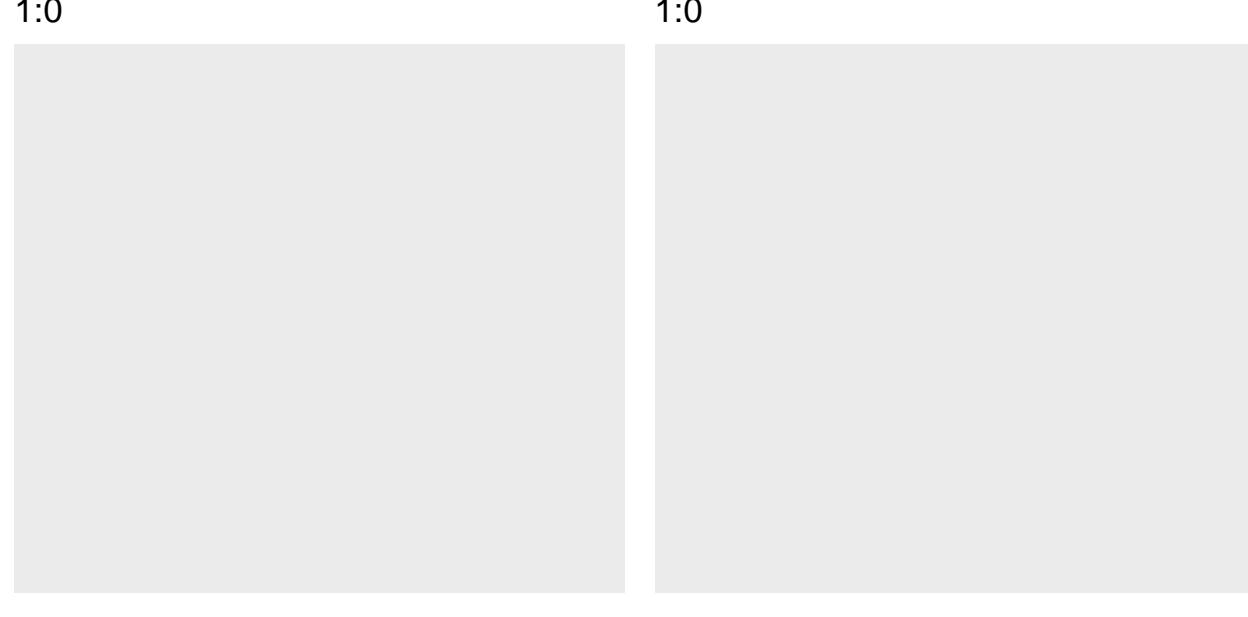
$K_B = 1$, $K_{BB} = 0$



Cluster Bin 1

180808_HMFregCPCT_FR17020182_FR16983396_CPCT02020817

ONLY SNVs (min 150 – max 50000)

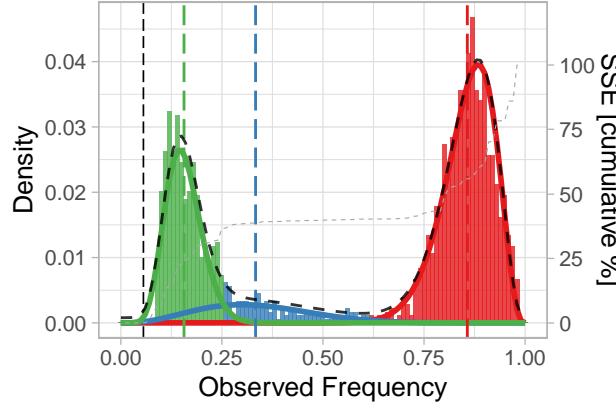


180814_HMFregCPCT_FR16983361_FR16982412_CPCT02080266

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 1794; Tail 0%, C2 9.63%, C3 29.13%, C1

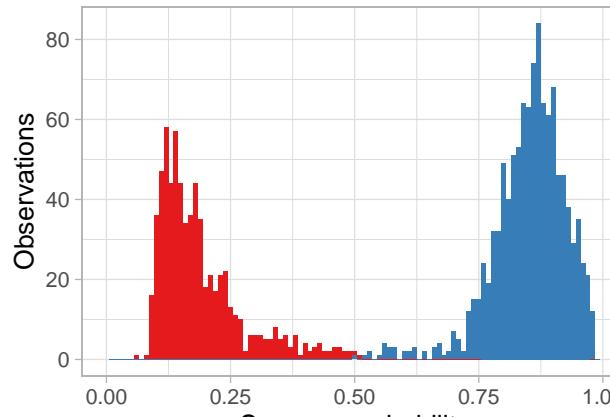


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 161$; $\epsilon = 4e-06$; SSE $1.211e-03$) LV > 0

Karyotype: 1:0

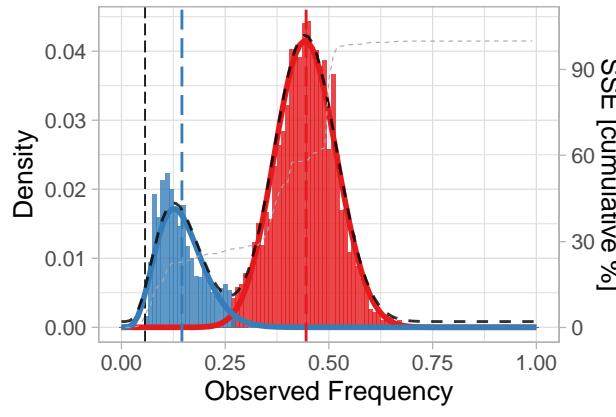
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

N = 4966; Tail 0%, C2 23.36%, C1 76.64%

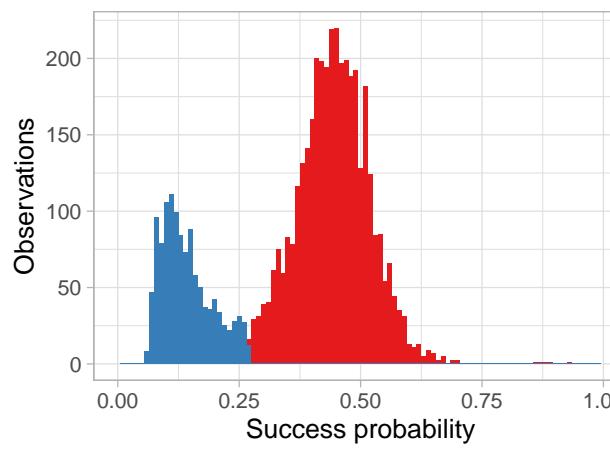


Cluster ■ C1 ■ C2

MM ($\omega = 171$; $\epsilon = 1e-05$; SSE $7.111e-04$) LV > 0

Karyotype: 1:1

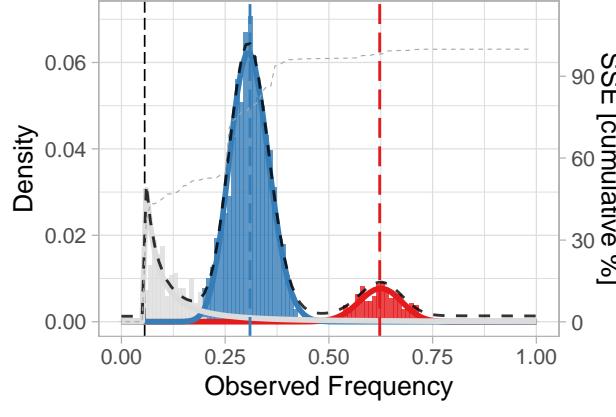
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:1

N = 2063; C1 9.79%, Tail 17.17%, C2 73.05%

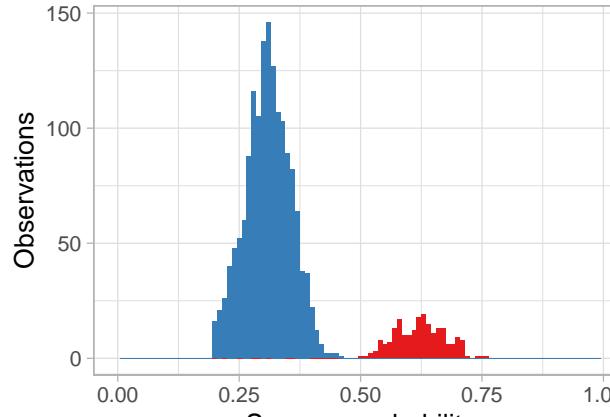


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 27$; $\epsilon = 5e-06$; SSE $2.114e-03$) LV > 0

Karyotype: 2:1

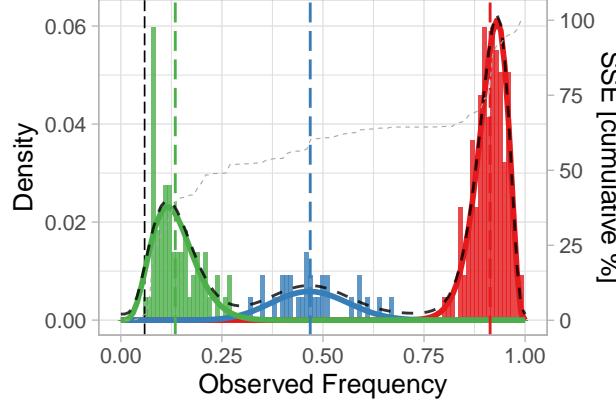
$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 2:0

N = 218; Tail 0%, C2 13.59%, C3 29.99%, C1

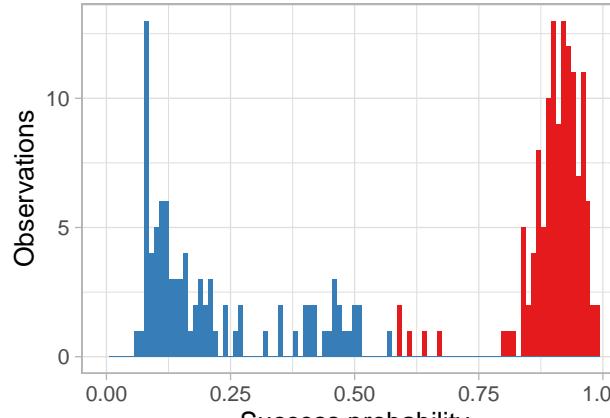


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 50$; $\epsilon = 7e-06$; SSE $4.893e-03$) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:2

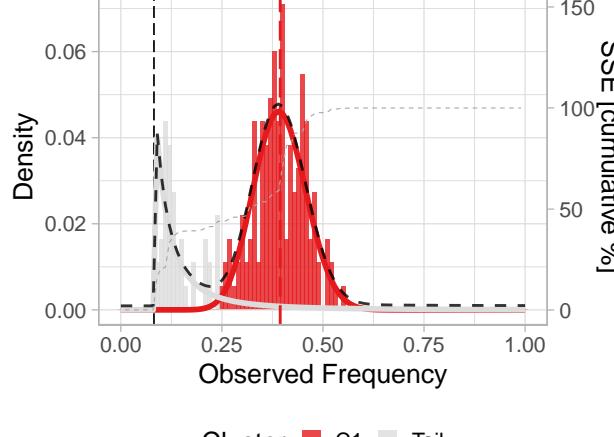
2:2

180828_HMFregCPCT_FR16982427_FR17495411_CPCT02010944

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

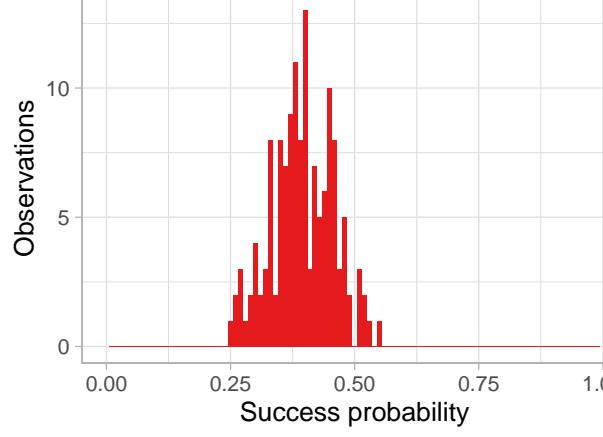
N = 183; Tail 25.46%, C1 74.54%



MM ($\omega = 29$; $\epsilon = 5e-07$; SSE $5.041e-03$) LV > 0

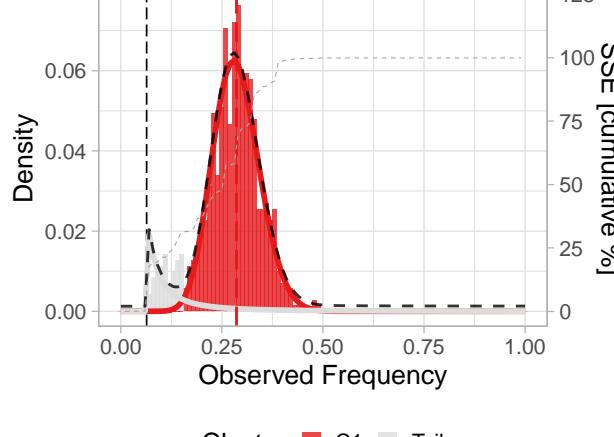
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

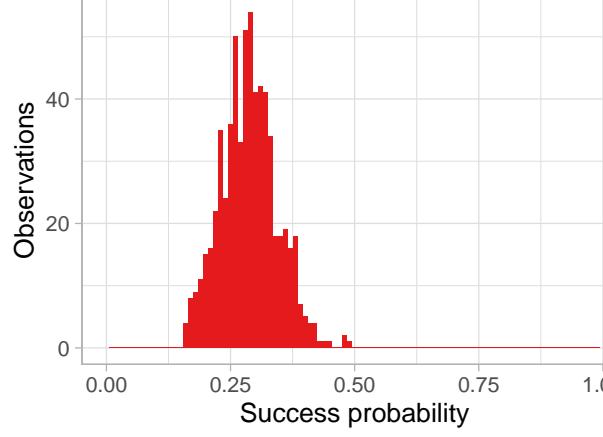
N = 708; Tail 10.86%, C1 89.14%



MM ($\omega = 34$; $\epsilon = 3e-06$; SSE $1.780e-03$) LV > 0

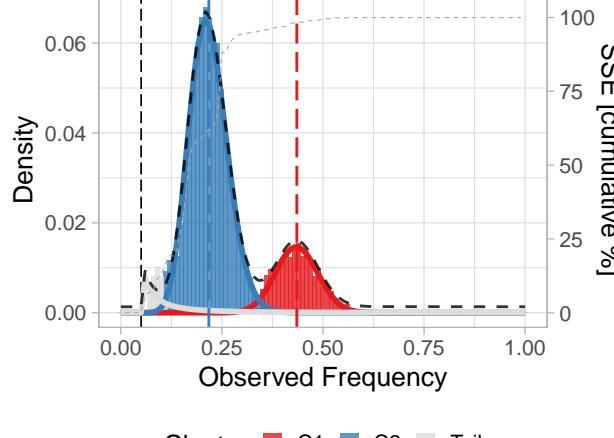
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

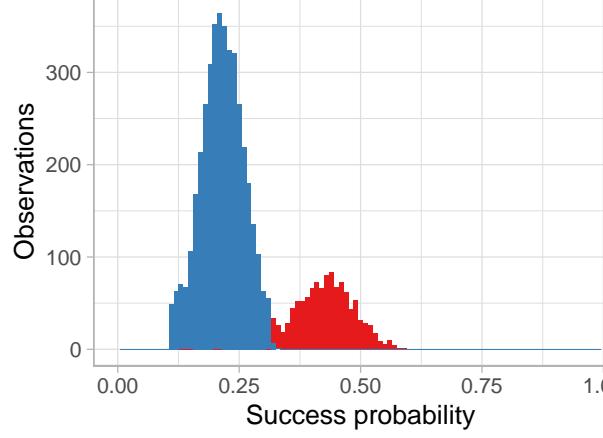
N = 5350; Tail 4.93%, C1 19.1%, C2 75.97%



MM ($\omega = 48$; $\epsilon = 3e-05$; SSE $9.485e-04$) LV > 0

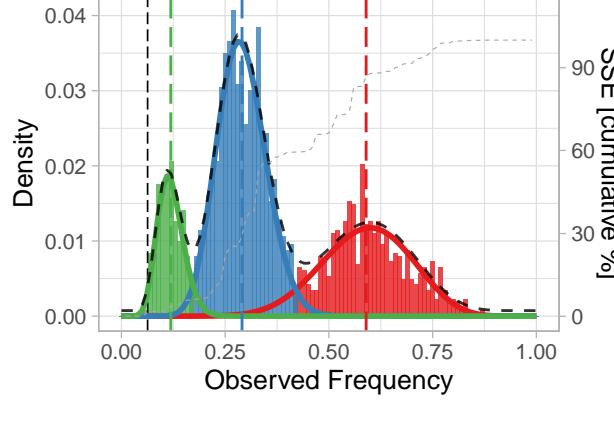
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

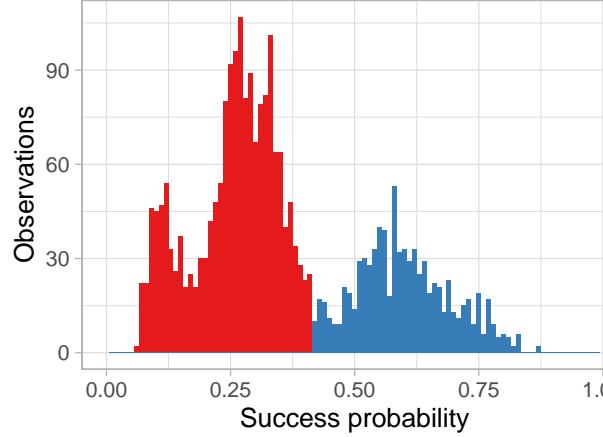
N = 2629; Tail 0%, C3 14.24%, C1 32.24%, C2 53.52%



MM ($\omega = 180$; $\epsilon = 1e-01$; SSE $6.118e-04$) LV > 0

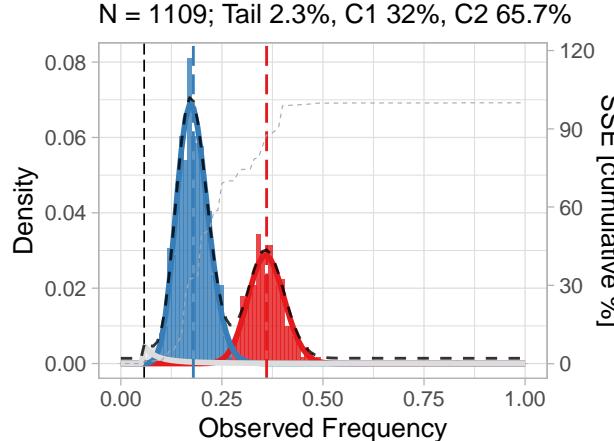
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2

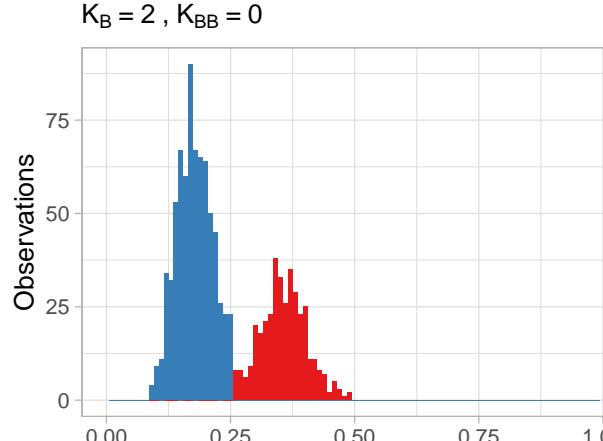
N = 1109; Tail 2.3%, C1 32%, C2 65.7%



MM ($\omega = 83$; $\epsilon = 2e-06$; SSE $1.421e-03$) LV > 0

Karyotype: 2:2

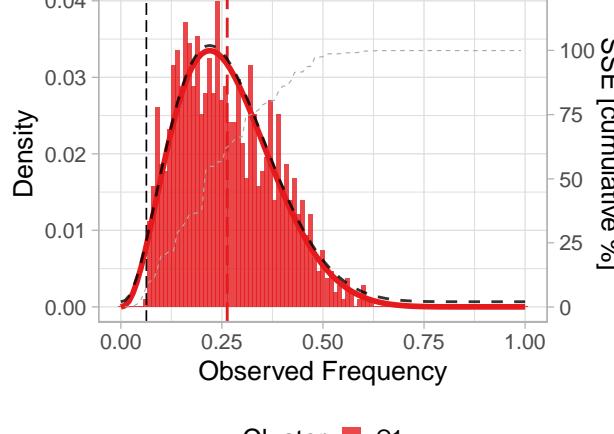
$K_B = 2$, $K_{BB} = 0$



180828_HMFregCPCT_FR17495446_FR16983377_CPCT02010931

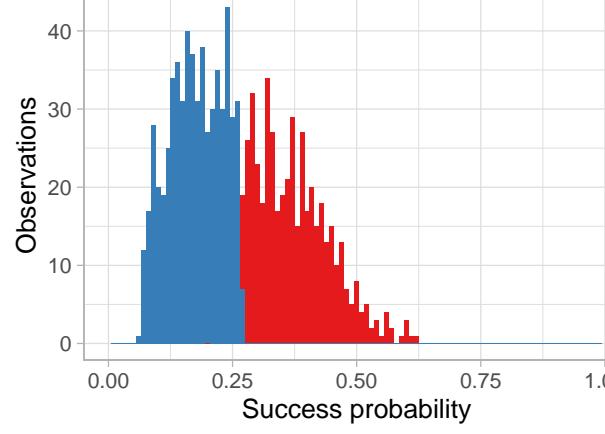
ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0
N = 1076; Tail 0%, C1 100%

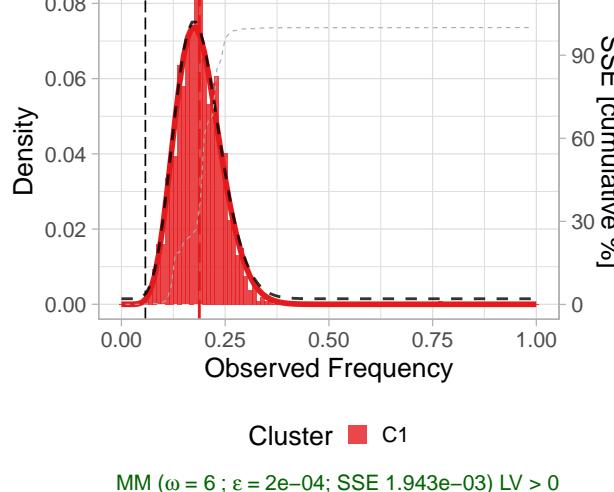


MM ($\omega = 1$; $\epsilon = 0e+00$; SSE 1.422e-03) LV > 0

Karyotype: 1:0
 $K_B = 2, K_{BB} = 0$

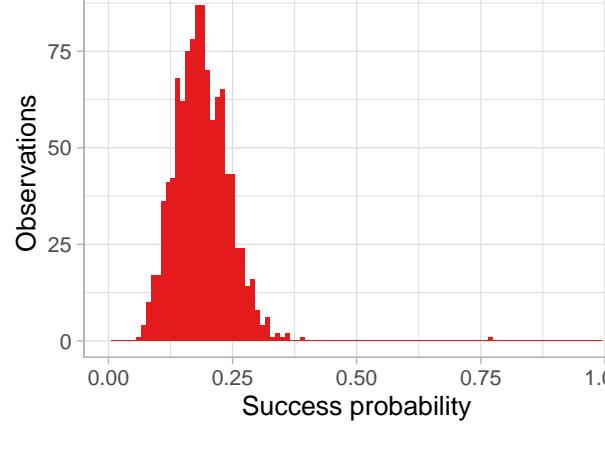


Karyotype: 1:1
N = 1070; Tail 0%, C1 100%

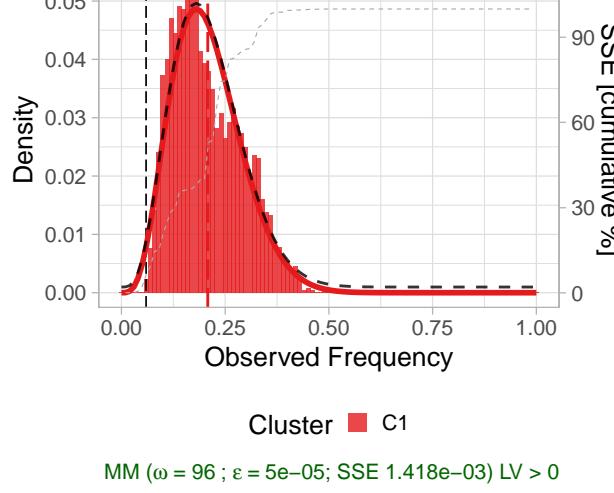


MM ($\omega = 6$; $\epsilon = 2e-04$; SSE 1.943e-03) LV > 0

Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$

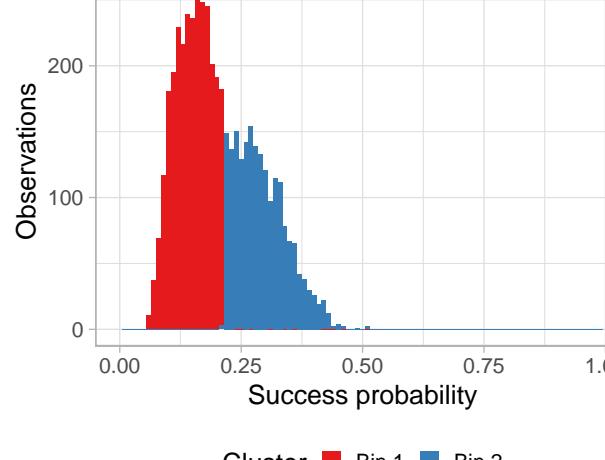


Karyotype: 2:1
N = 4864; Tail 0%, C1 100%

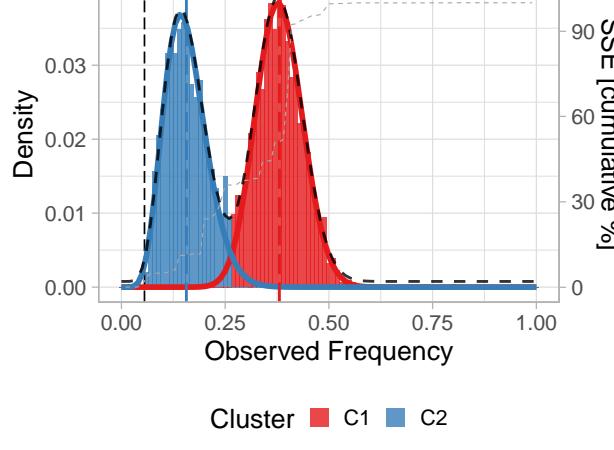


MM ($\omega = 96$; $\epsilon = 5e-05$; SSE 1.418e-03) LV > 0

Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$

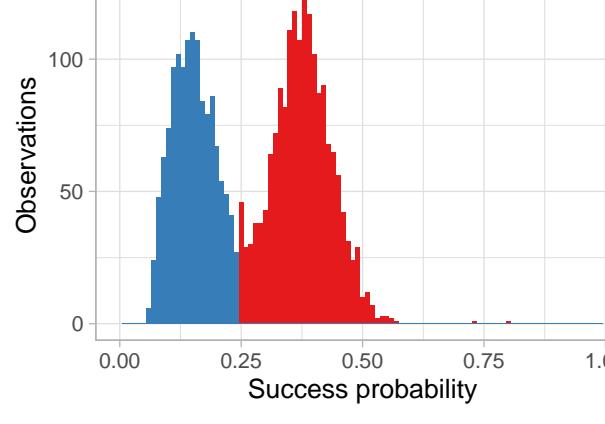


Karyotype: 2:0
N = 3072; Tail 0%, C2 45.78%, C1 54.22%

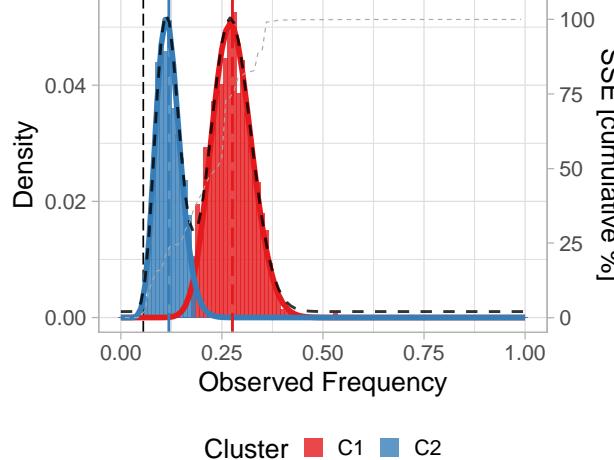


MM ($\omega = 180$; $\epsilon = 1e-02$; SSE 5.495e-04) LV > 0

Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$

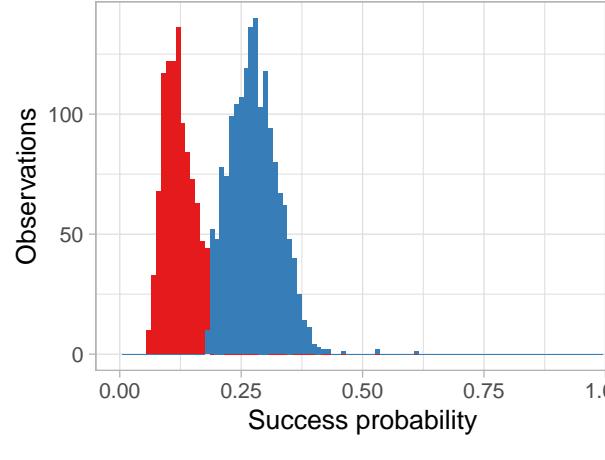


Karyotype: 2:2
N = 2659; Tail 0%, C2 38.01%, C1 61.99%



MM ($\omega = 180$; $\epsilon = 3e-03$; SSE 6.171e-04) LV > 0

Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$



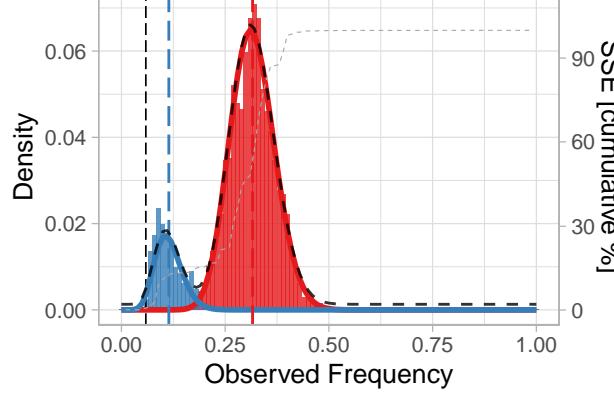
MM ($\omega = 180$; $\epsilon = 3e-03$; SSE 6.171e-04) LV > 0

180911_HMFregCPCT_FR16967723_FR16983555_CPCT02020832

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

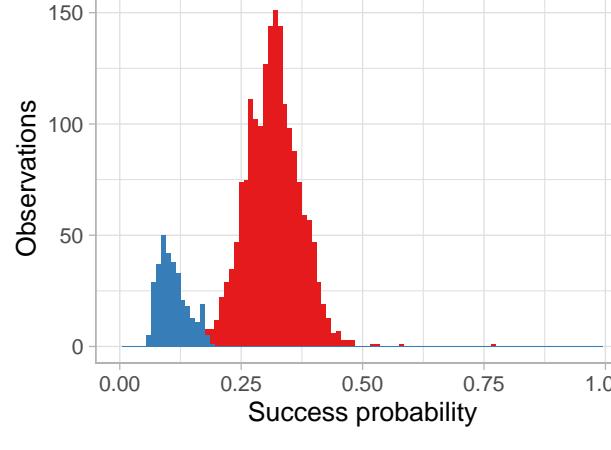
N = 2130; Tail 0%, C2 13.63%, C1 86.37%



MM ($\omega = 160$; $\epsilon = 4e-06$; SSE 9.631e-04) LV > 0

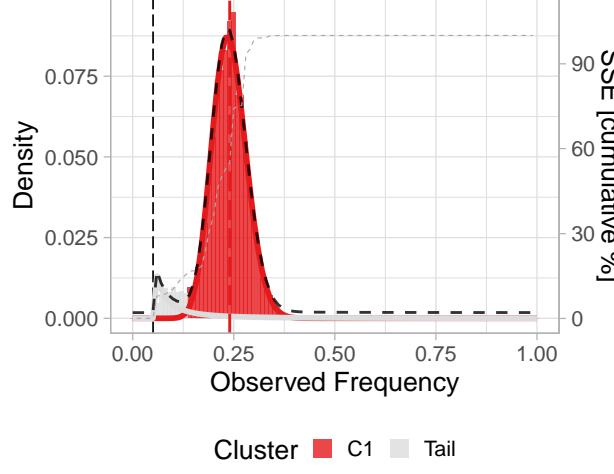
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

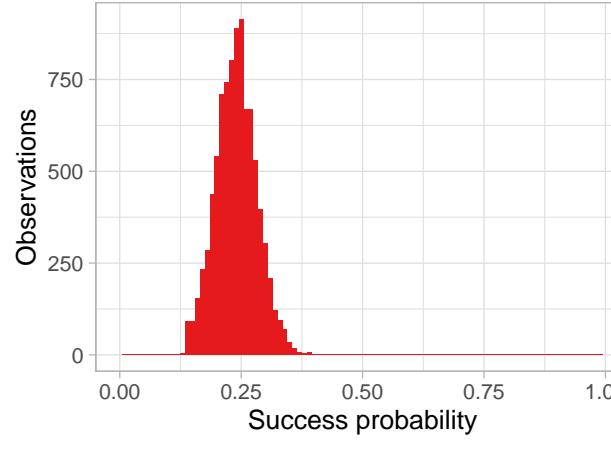
N = 9658; Tail 7.88%, C1 92.12%



MM ($\omega = 25$; $\epsilon = 5e-05$; SSE 1.471e-03) LV > 0

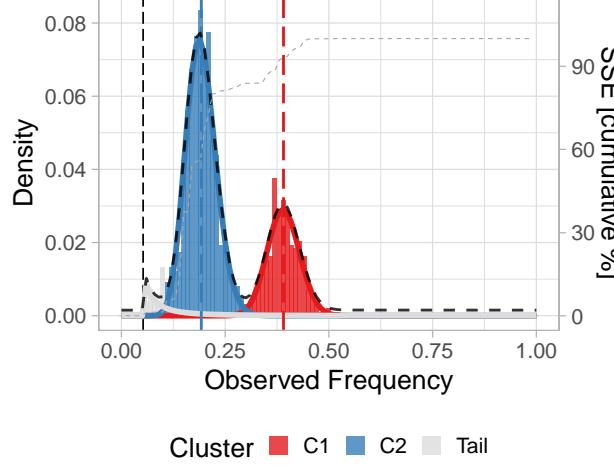
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

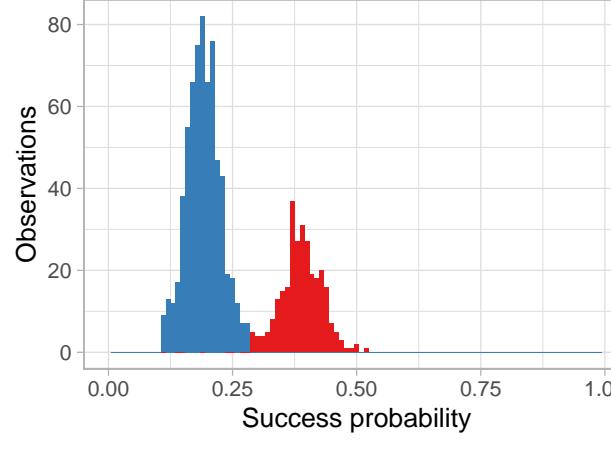
N = 981; Tail 4.34%, C1 28.22%, C2 67.45%



MM ($\omega = 48$; $\epsilon = 3e-06$; SSE 1.831e-03) LV > 0

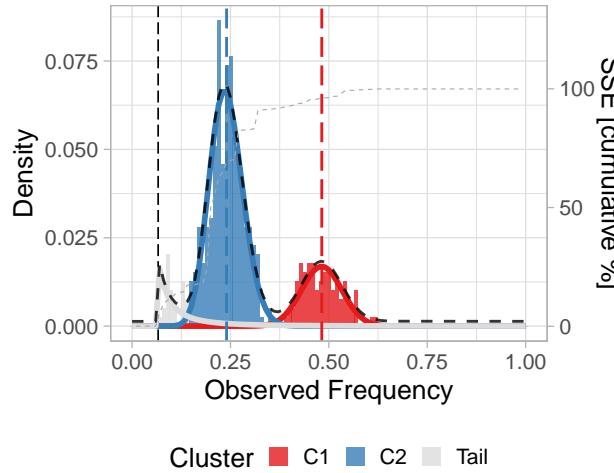
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

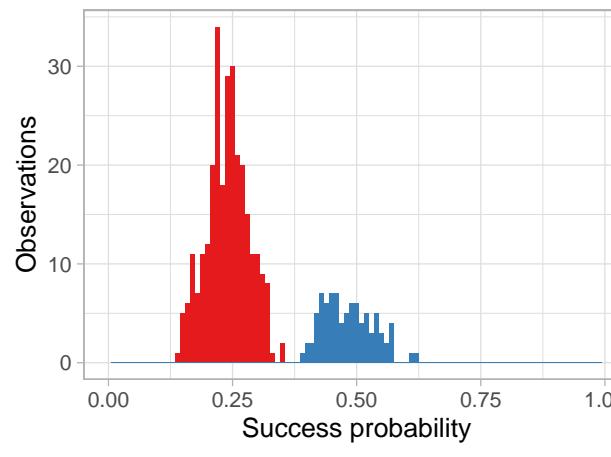
N = 393; Tail 8.12%, C1 21.6%, C2 70.28%



MM ($\omega = 40$; $\epsilon = 2e-06$; SSE 3.347e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

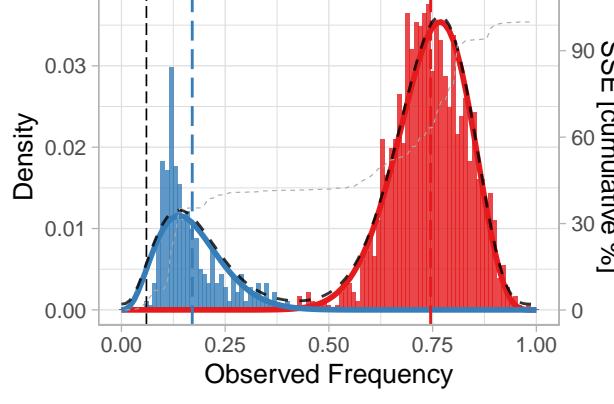


180920_HMFregCPCT_FR16967733_FR17495489_CPCT02120168

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 1809; Tail 0%, C2 21.68%, C1 78.32%



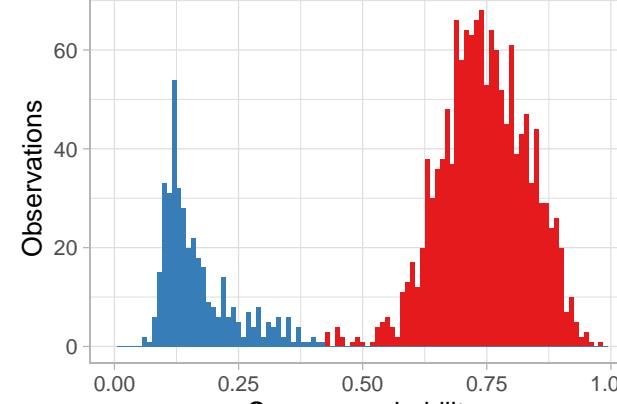
Karyotype: 1:0

N = 1809; Tail 0%, C2 21.68%, C1 78.32%

MM ($\omega = 39$; $\varepsilon = 3e-04$; SSE $1.534e-03$) LV > 0

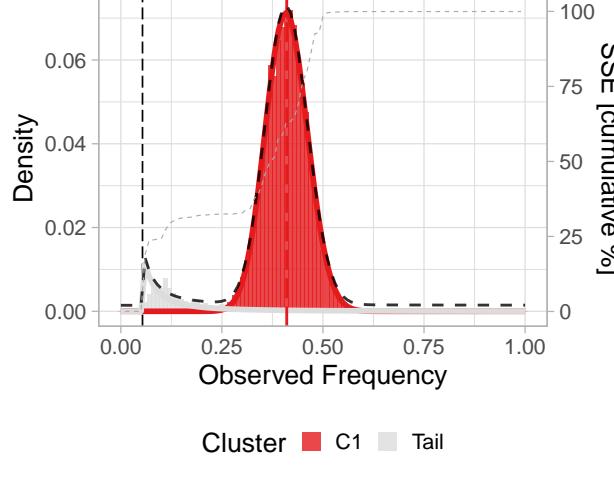
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



Karyotype: 1:1

N = 15042; Tail 7.43%, C1 92.57%



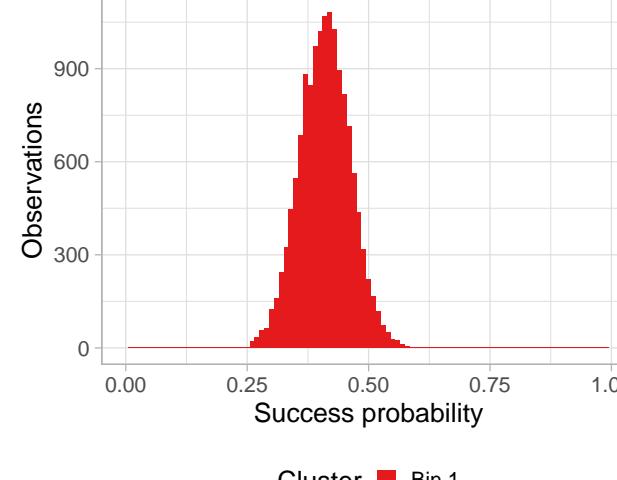
Karyotype: 1:1

N = 15042; Tail 7.43%, C1 92.57%

MM ($\omega = 12$; $\varepsilon = 1e-05$; SSE $6.051e-04$) LV > 0

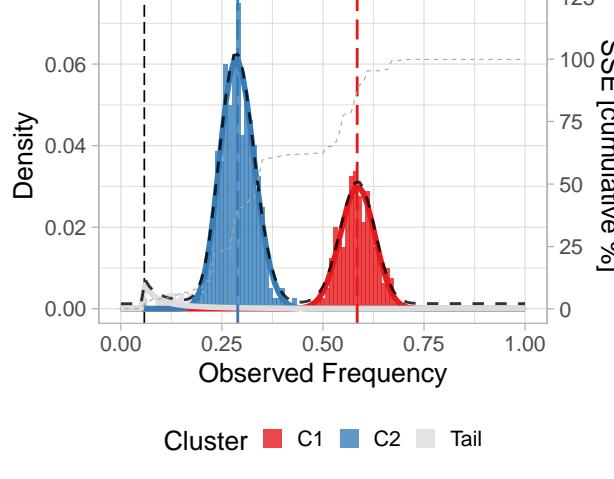
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



Karyotype: 2:1

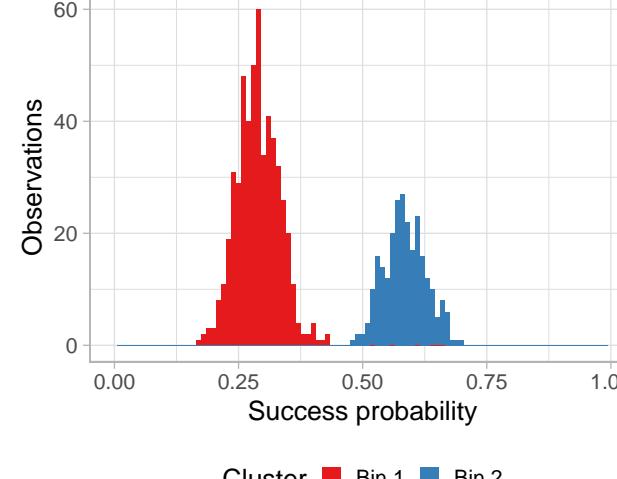
N = 800; Tail 3.41%, C1 31.9%, C2 64.69%



MM ($\omega = 26$; $\varepsilon = 1e-06$; SSE $1.056e-03$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

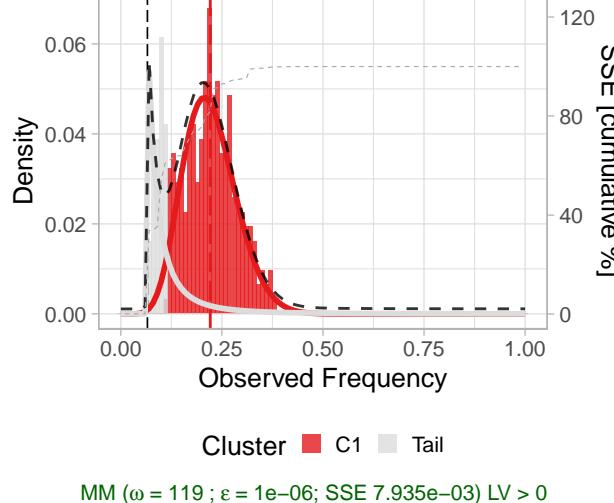
2:2

180920_HMFregCPCT_FR17019764_FR17495478_CPCT02440016

ONLY SNVs (min 150 – max 50000)

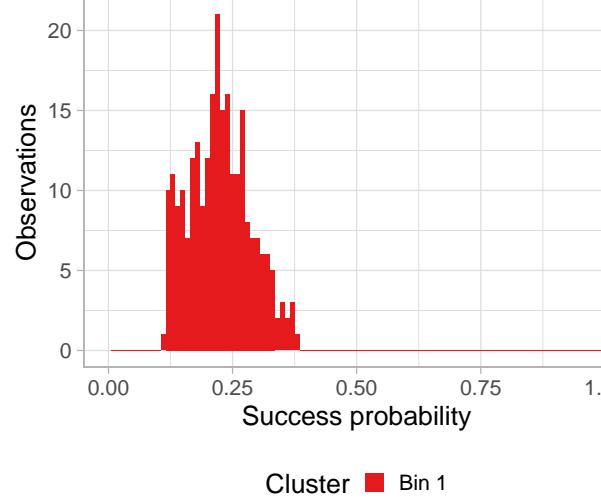
Karyotype: 1:0

N = 309; Tail 21.8%, C1 78.2%



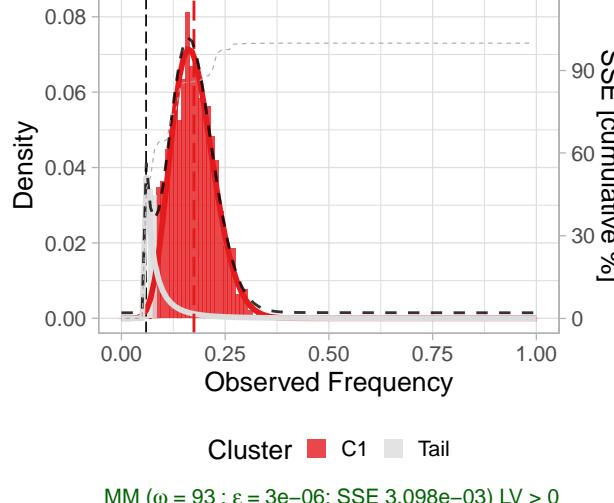
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



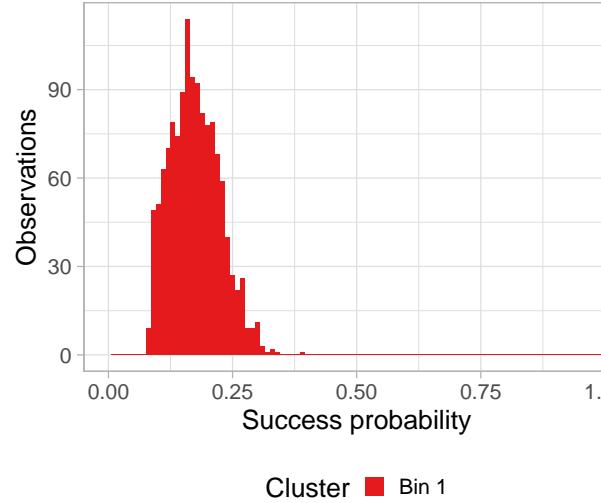
Karyotype: 1:1

N = 1405; Tail 10.27%, C1 89.73%



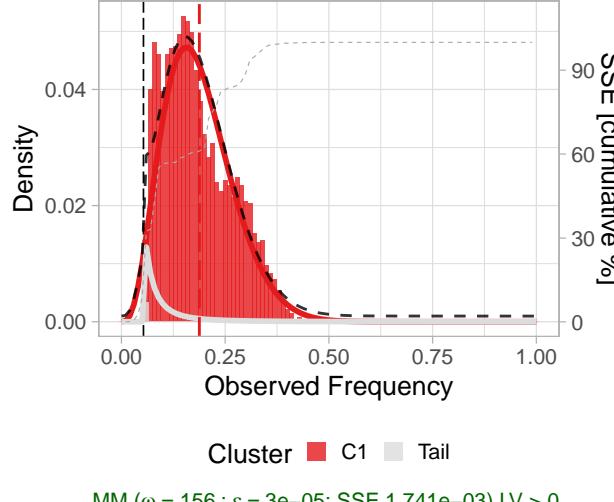
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



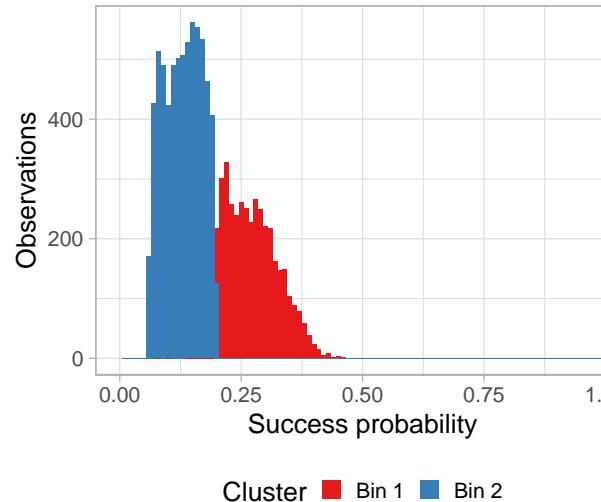
Karyotype: 2:1

N = 10671; Tail 5.32%, C1 94.68%



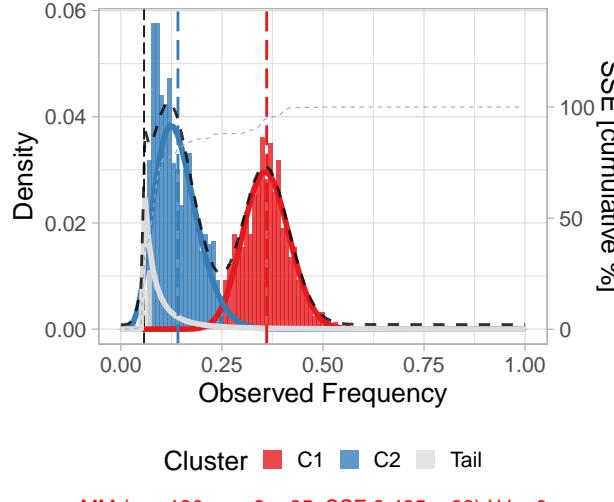
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



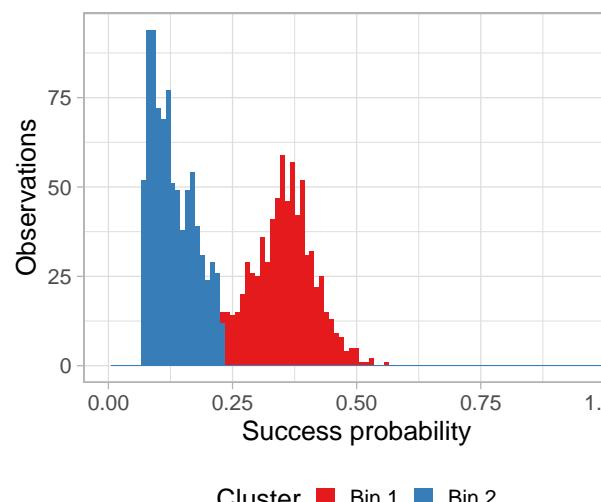
Karyotype: 2:0

N = 1632; Tail 8.9%, C1 42.06%, C2 49.04%



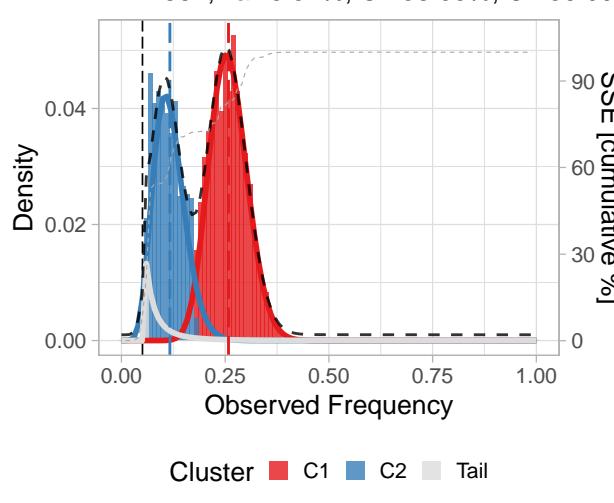
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



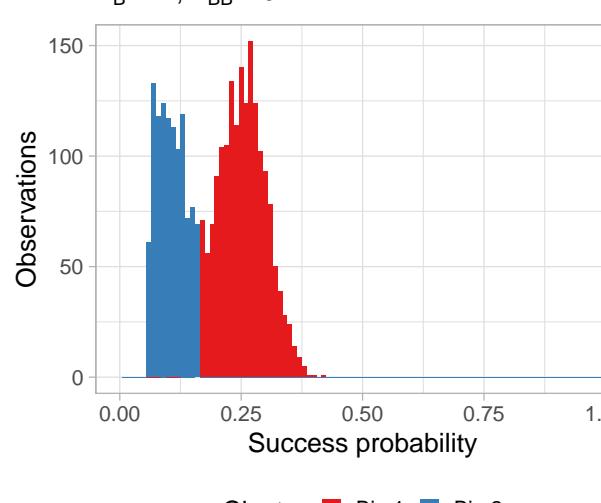
Karyotype: 2:2

N = 2884; Tail 5.37%, C2 38.55%, C1 56.09%



Karyotype: 2:2

$K_B = 2, K_{BB} = 0$



MM ($\omega = 119$; $\epsilon = 1e-06$; SSE $7.935e-03$) LV > 0

MM ($\omega = 93$; $\epsilon = 3e-06$; SSE $3.098e-03$) LV > 0

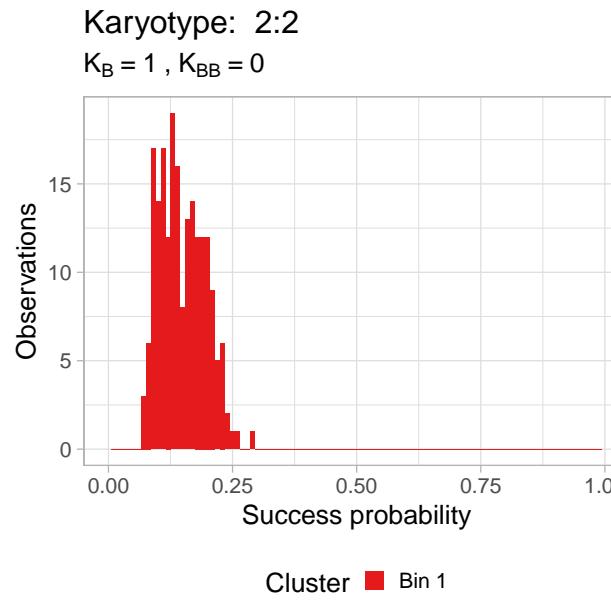
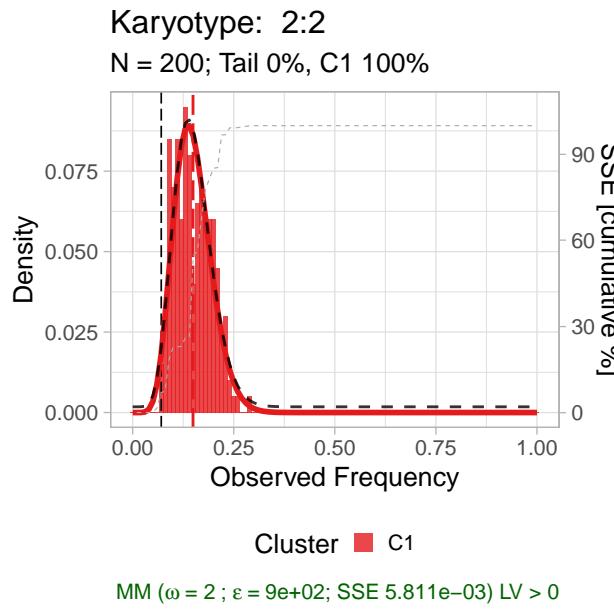
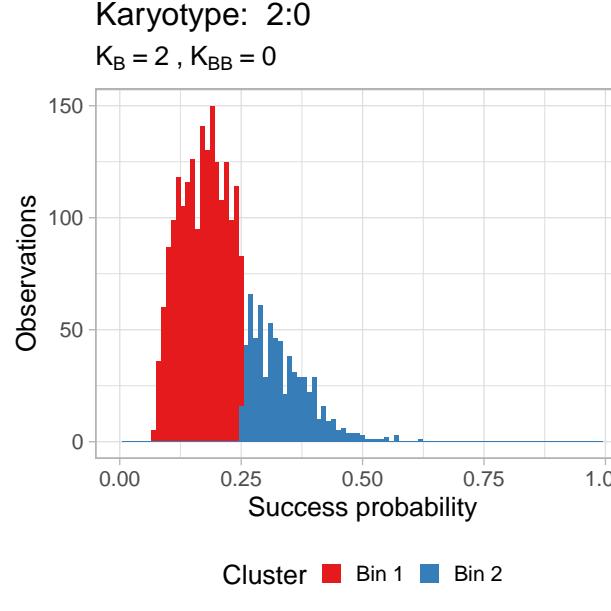
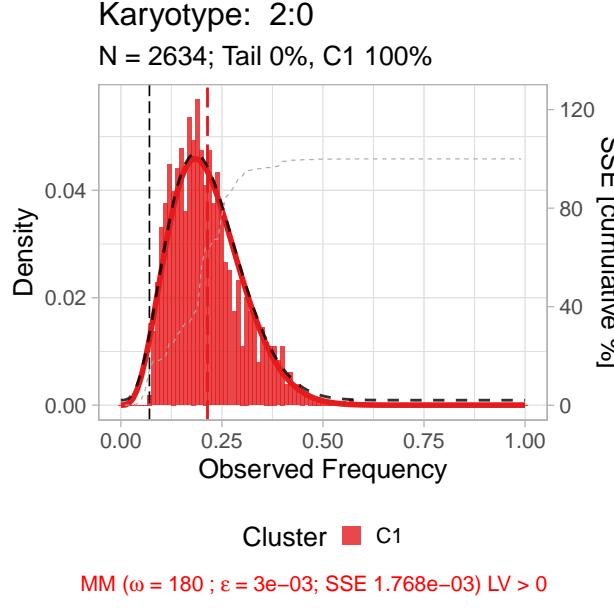
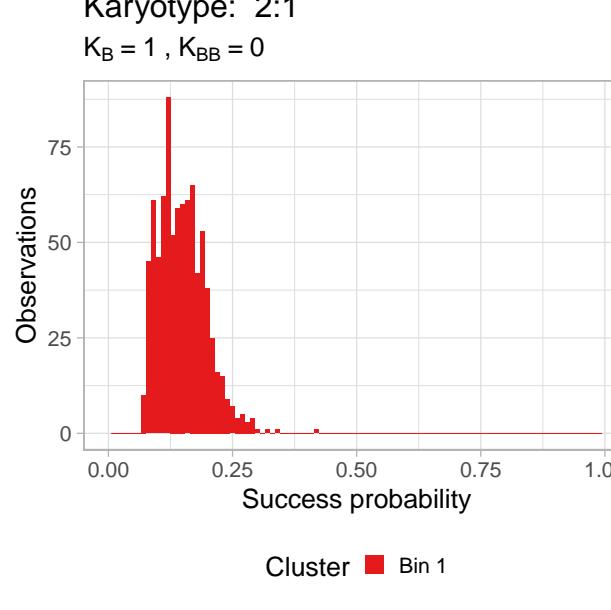
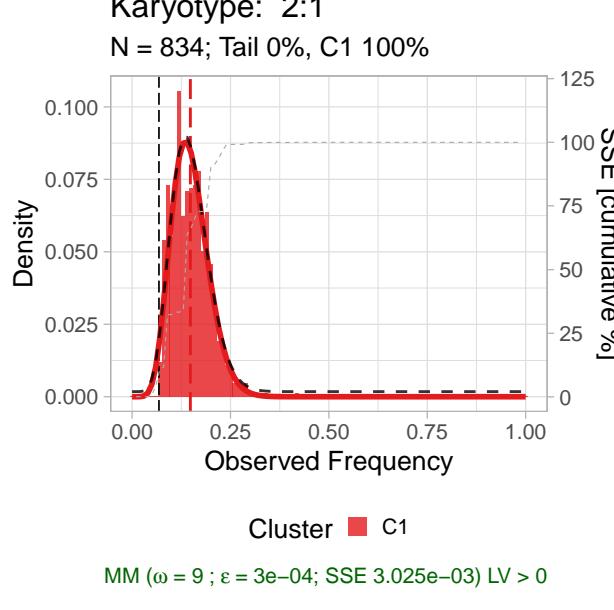
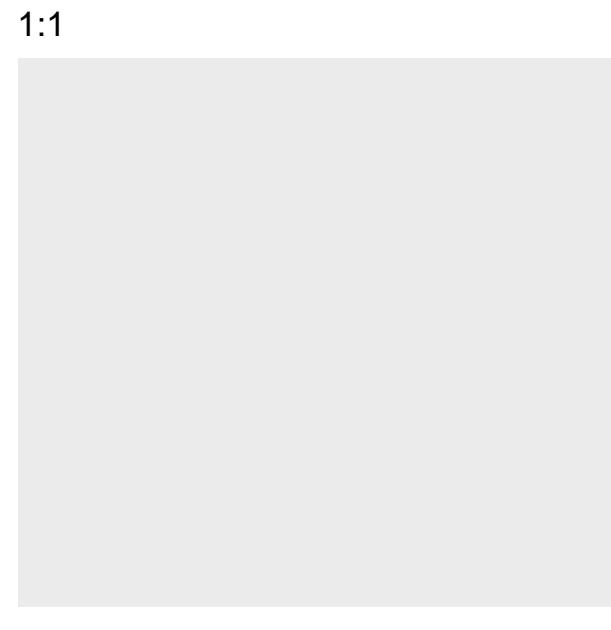
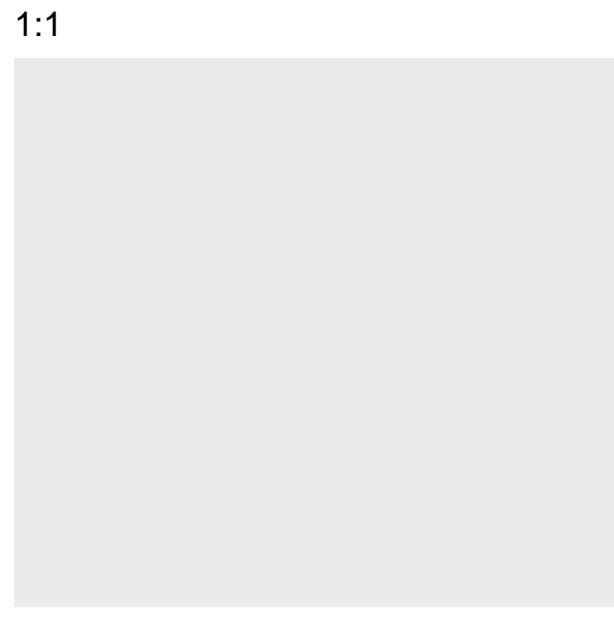
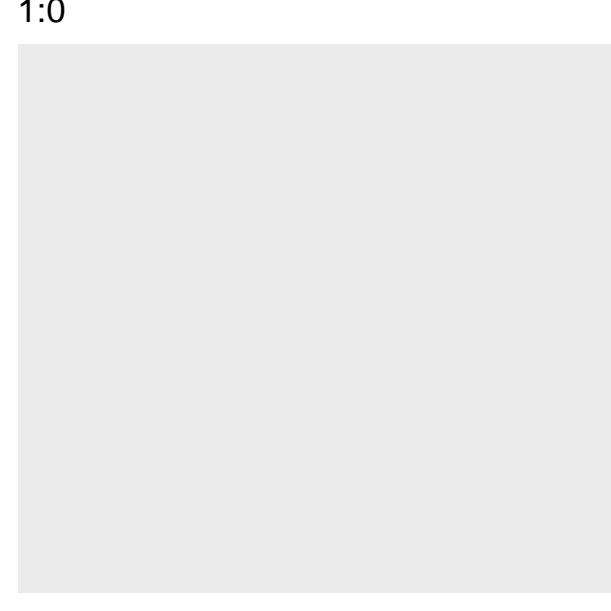
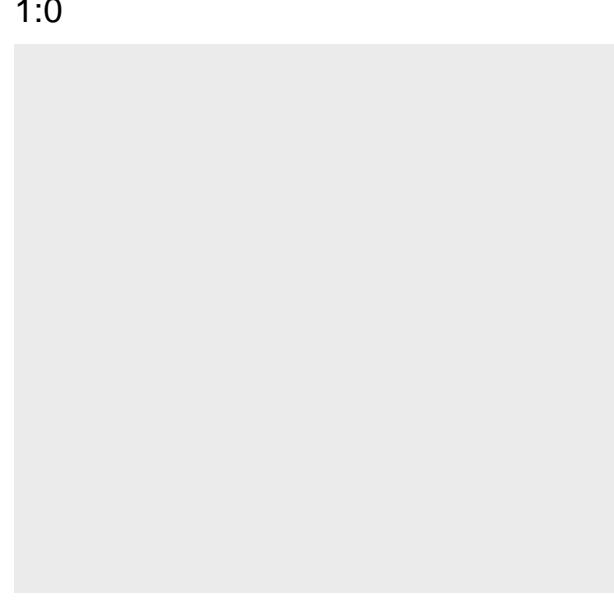
MM ($\omega = 156$; $\epsilon = 3e-05$; SSE $1.741e-03$) LV > 0

MM ($\omega = 180$; $\epsilon = 9e-05$; SSE $3.435e-03$) LV > 0

MM ($\omega = 174$; $\epsilon = 8e-06$; SSE $7.238e-04$) LV > 0

180928_HMFregCPCT_FR16983413_FR17758384_CPCT02010935

ONLY SNVs (min 150 – max 50000)

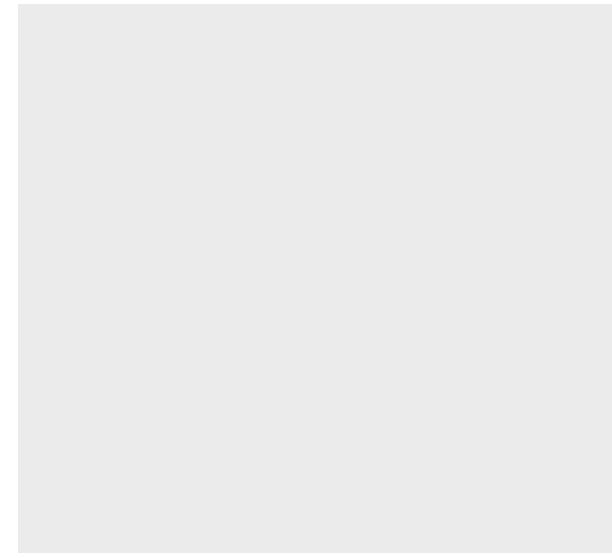
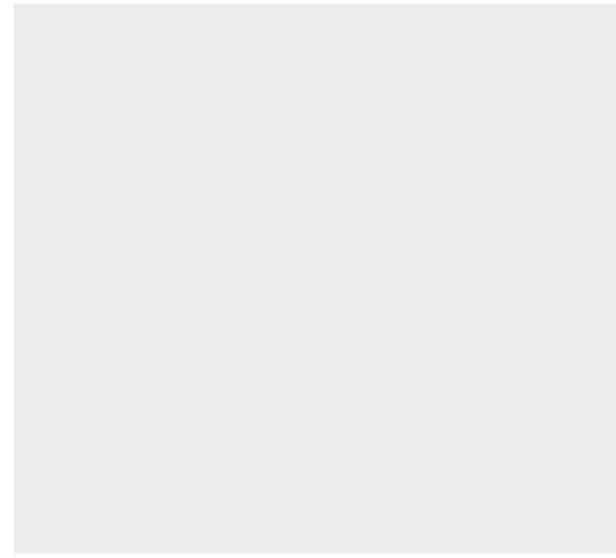


181002_HMFregCPCT_FR16967629_FR16967500_CPCT02070394

ONLY SNVs (min 150 – max 50000)

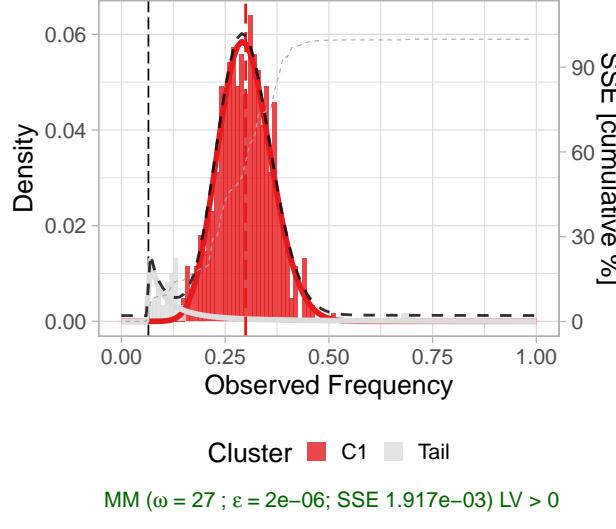
1:0

1:0



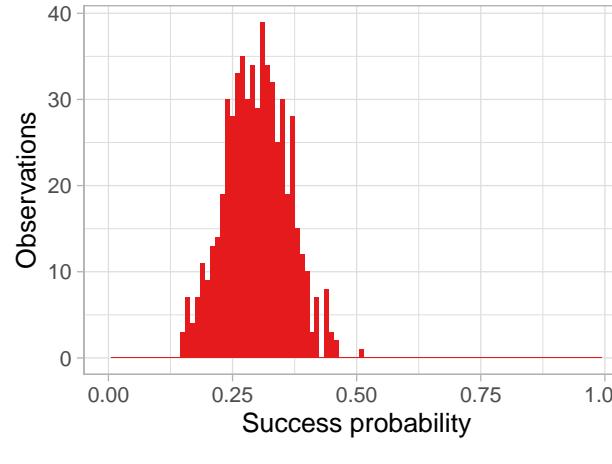
Karyotype: 1:1

N = 610; Tail 7.84%, C1 92.16%



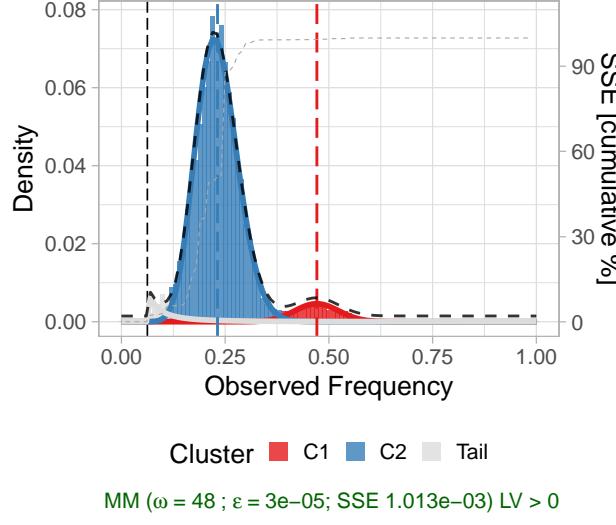
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



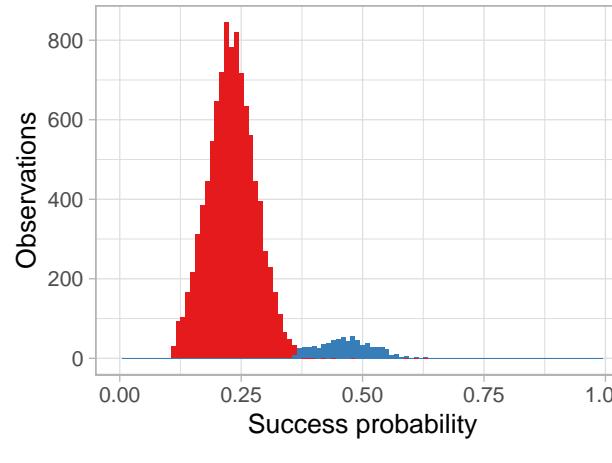
Karyotype: 2:1

N = 10778; Tail 3.46%, C1 6.07%, C2 90.47%



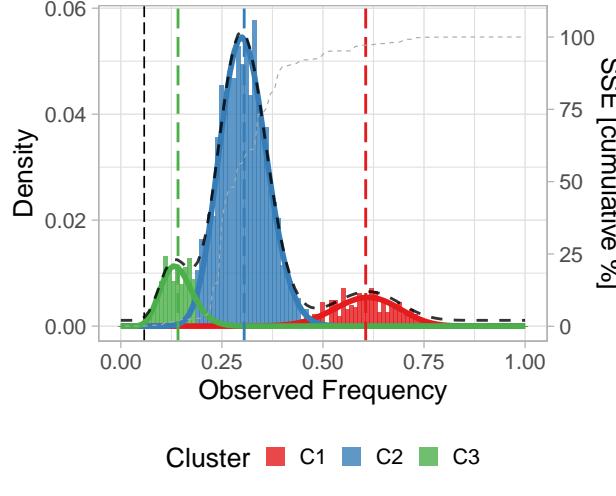
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



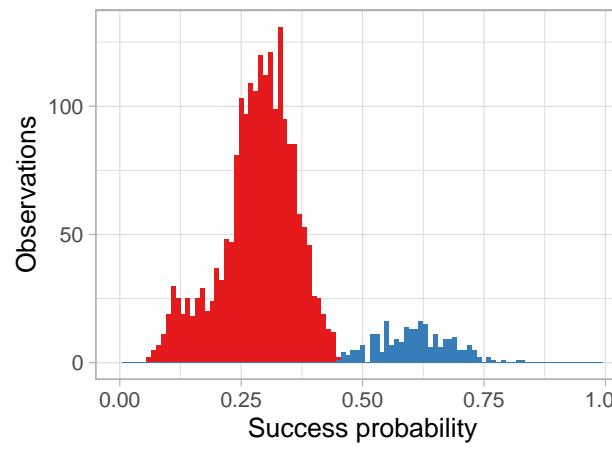
Karyotype: 2:0

N = 2270; Tail 0%, C1 10.73%, C2 10.86%, C3 10.86%



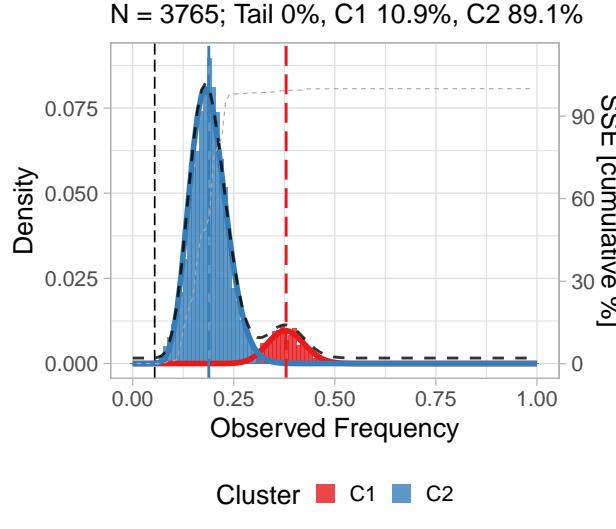
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



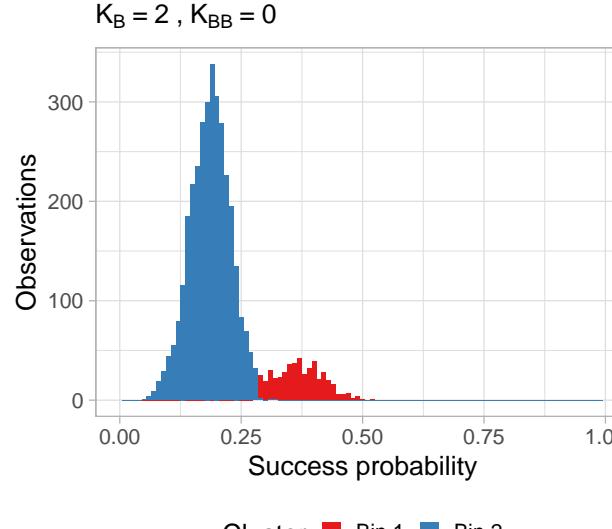
Karyotype: 2:2

N = 3765; Tail 0%, C1 10.9%, C2 89.1%



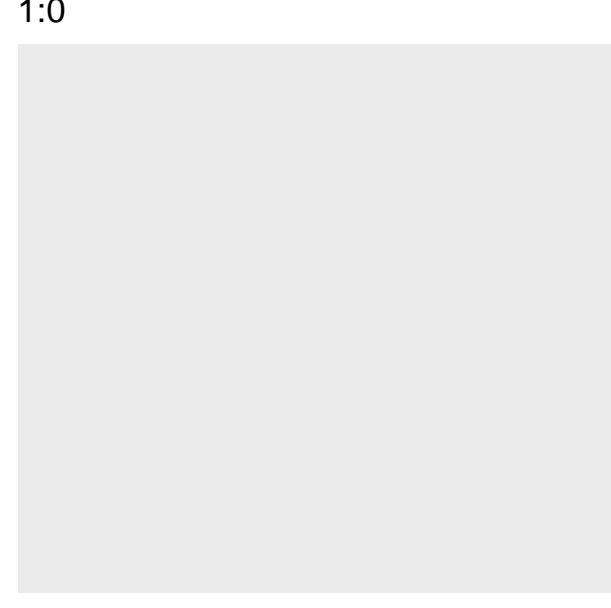
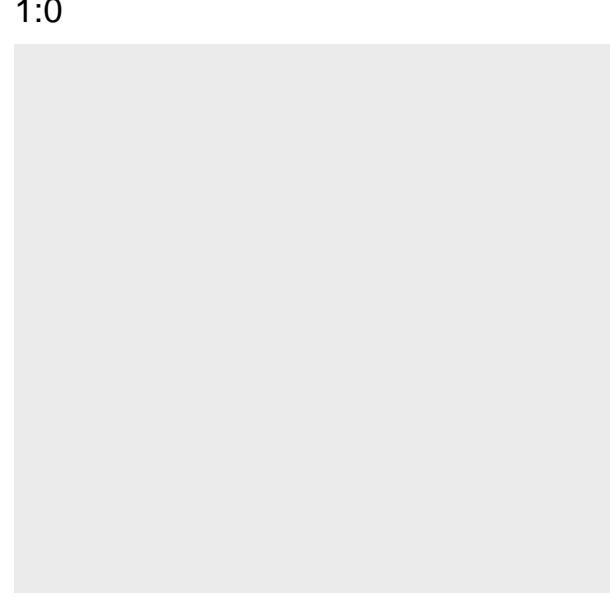
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



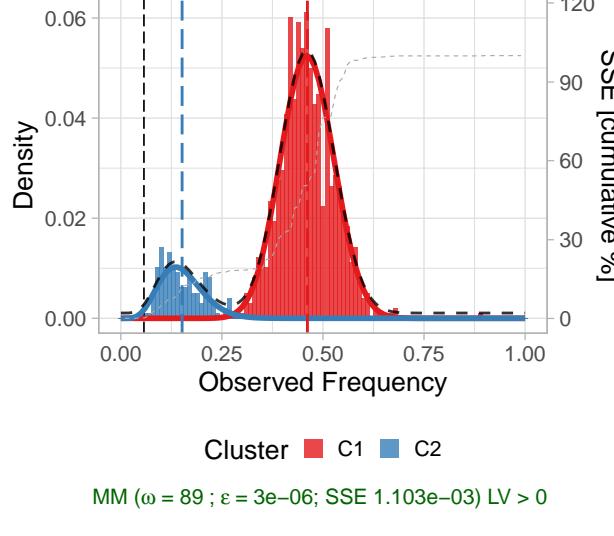
181012_HMFregCPCT_FR16967523_FR17495617_CPCT02010963

ONLY SNVs (min 150 – max 50000)



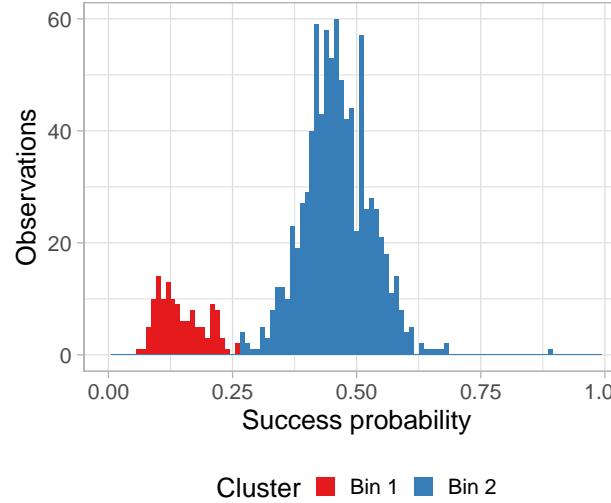
Karyotype: 1:1

N = 982; Tail 0%, C2 13.31%, C1 86.69%



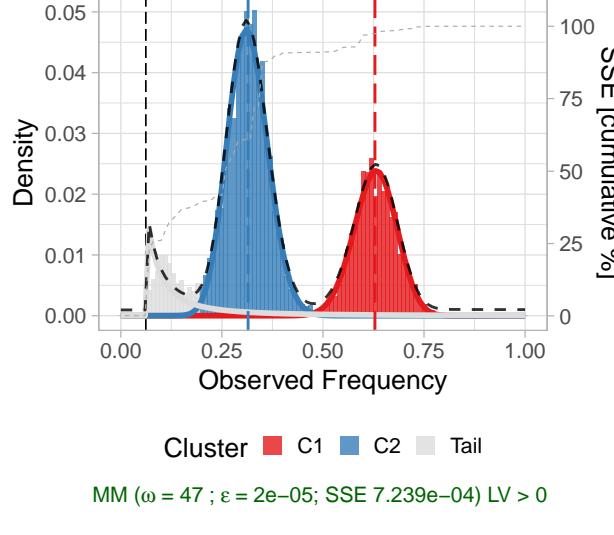
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



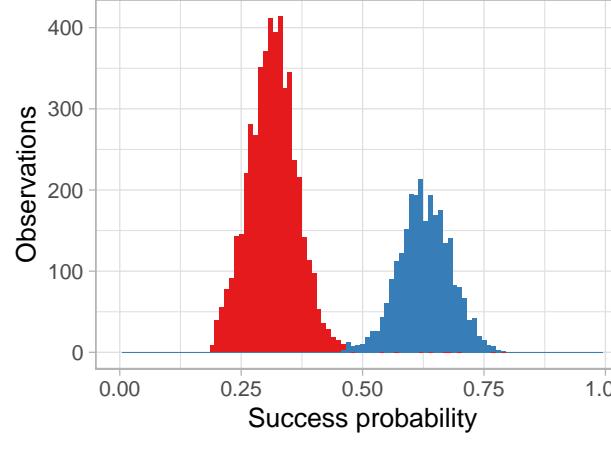
Karyotype: 2:1

N = 8228; Tail 10.13%, C1 31.44%, C2 58.43%



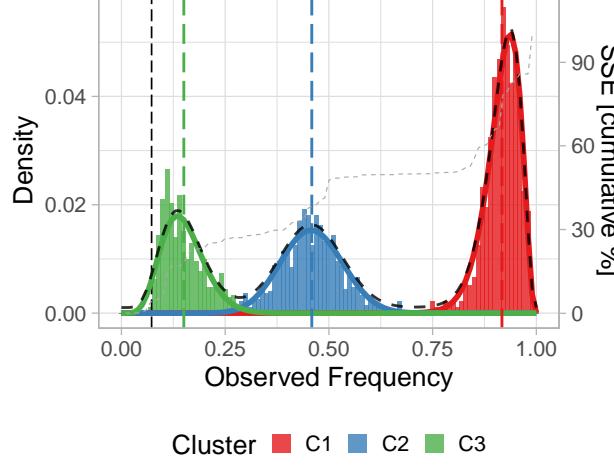
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



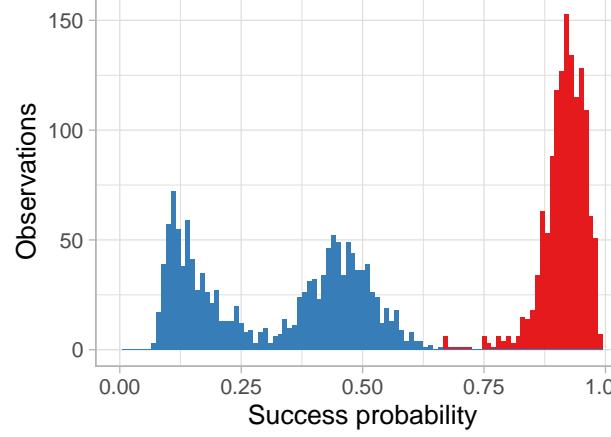
Karyotype: 2:0

N = 2711; Tail 0%, C3 22.52%, C2 28.6%, C1 28.9%



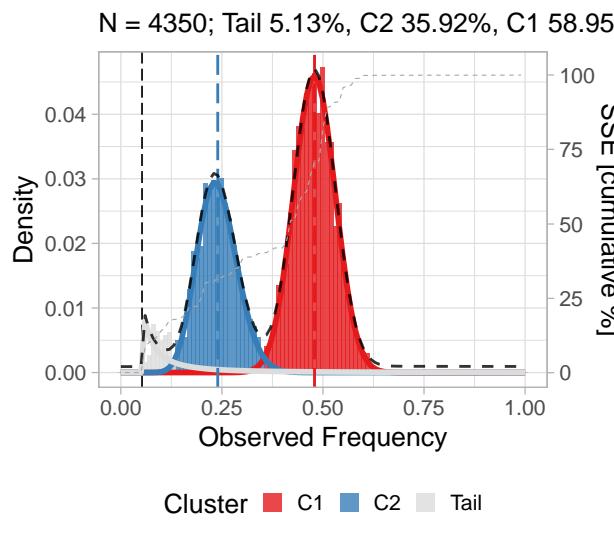
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



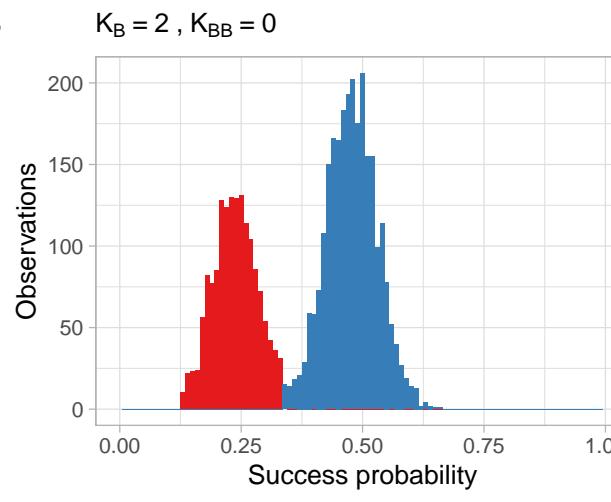
Karyotype: 2:2

N = 4350; Tail 5.13%, C2 35.92%, C1 58.95%



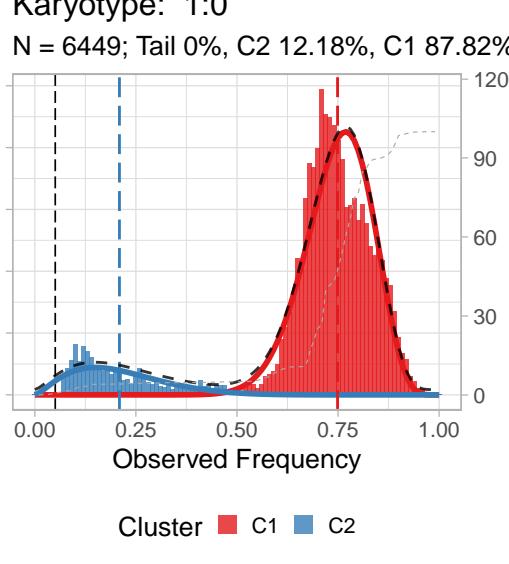
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



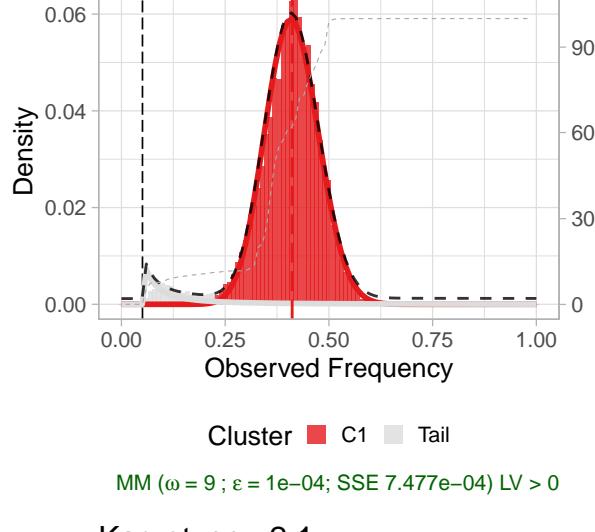
181111_HMFregCPCT_FR17495690_FR15580461_CPCT02030548

ONLY SNVs (min 150 – max 50000)



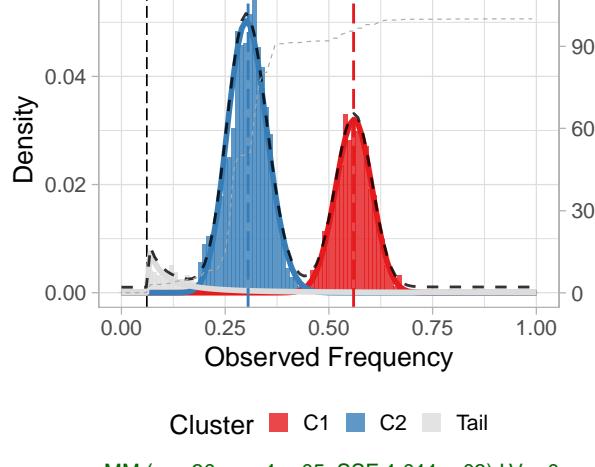
MM ($\omega = 159$; $\epsilon = 2e-05$; SSE $1.630e-03$) LV > 0

Karyotype: 1:1
N = 29987; Tail 5.51%, C1 94.49%



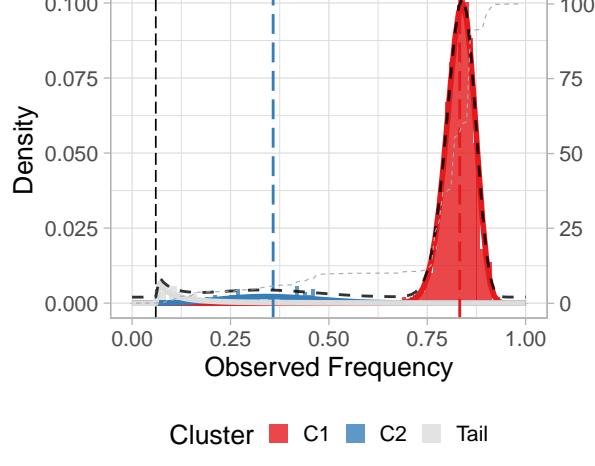
MM ($\omega = 9$; $\epsilon = 1e-04$; SSE $7.477e-04$) LV > 0

Karyotype: 2:1
N = 3148; Tail 5.65%, C1 35.04%, C2 59.31%



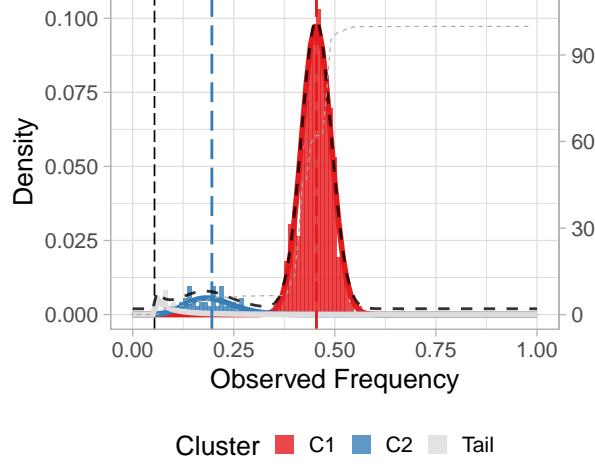
MM ($\omega = 30$; $\epsilon = 1e-05$; SSE $1.011e-03$) LV > 0

Karyotype: 2:0
N = 1109; Tail 4.57%, C2 6.44%, C1 88.98%

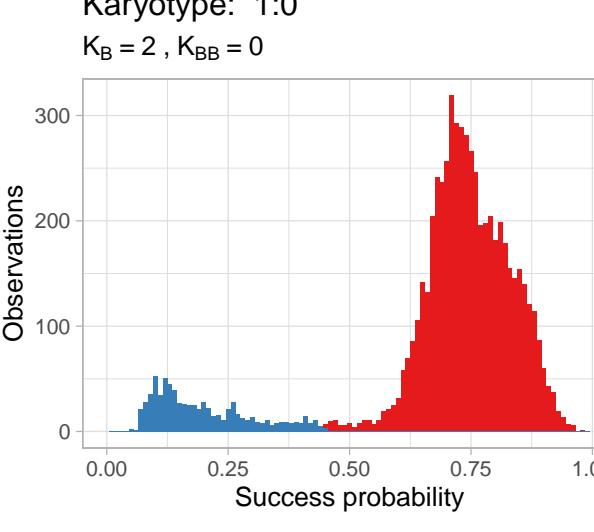


MM ($\omega = 180$; $\epsilon = 3e-05$; SSE $1.236e-03$) LV > 0

Karyotype: 2:2
N = 717; Tail 2.82%, C2 8.04%, C1 89.14%

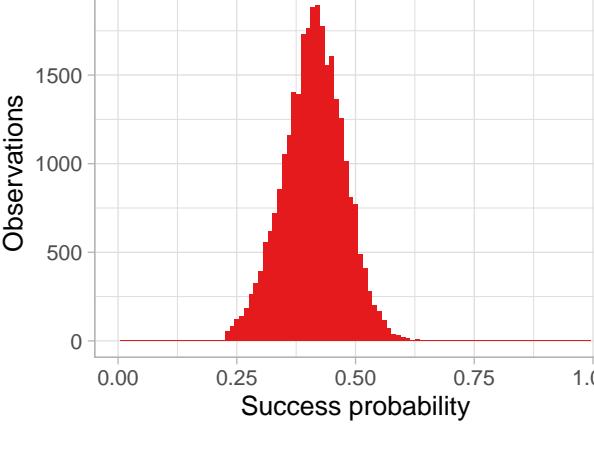


MM ($\omega = 54$; $\epsilon = 1e-06$; SSE $2.671e-03$) LV > 0



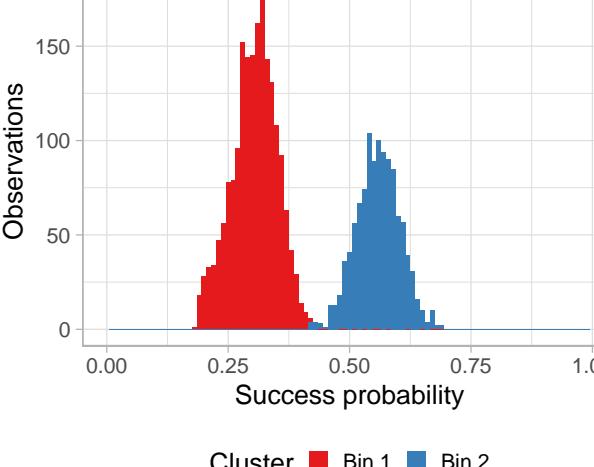
MM ($\omega = 159$; $\epsilon = 2e-05$; SSE $1.630e-03$) LV > 0

Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



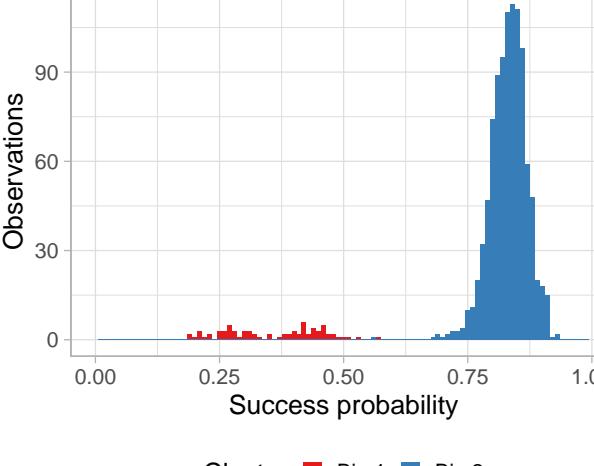
MM ($\omega = 9$; $\epsilon = 1e-04$; SSE $7.477e-04$) LV > 0

Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



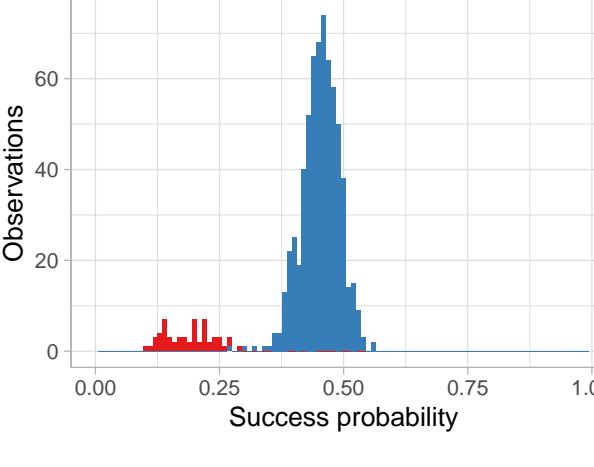
MM ($\omega = 30$; $\epsilon = 1e-05$; SSE $1.011e-03$) LV > 0

Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 3e-05$; SSE $1.236e-03$) LV > 0

Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$



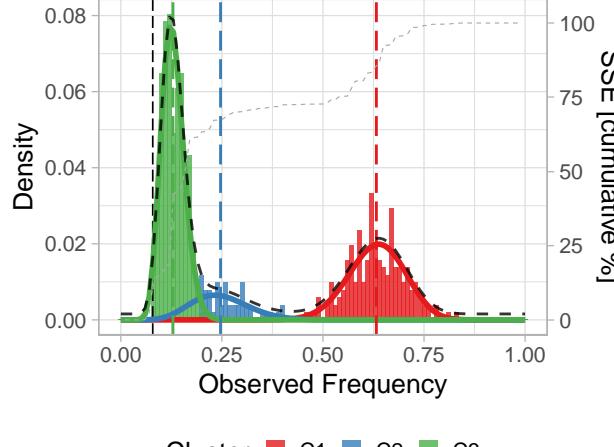
MM ($\omega = 54$; $\epsilon = 1e-06$; SSE $2.671e-03$) LV > 0

181114_HMFregCPCT_FR15580725_FR15580481_CPCT02040298

ONLY SNVs (min 150 – max 50000)

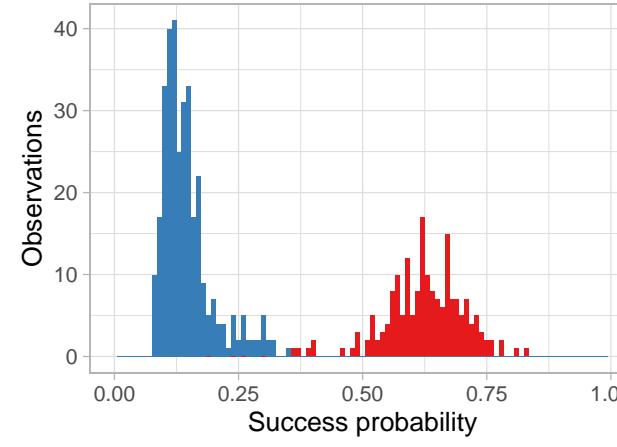
Karyotype: 1:0

N = 510; Tail 0%, C2 11.32%, C1 34.93%, C3



Karyotype: 1:0

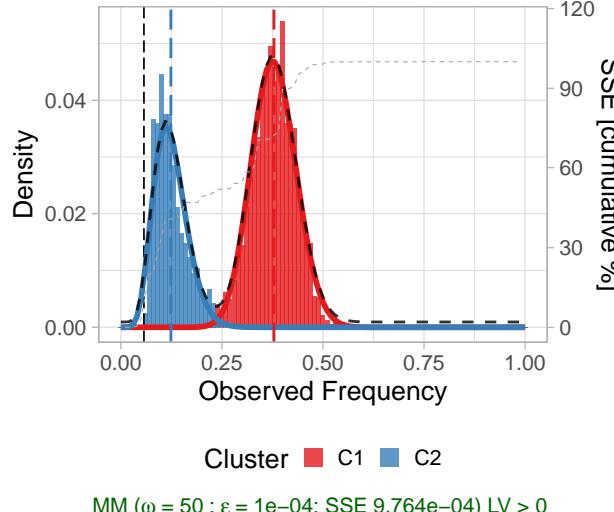
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 3e-06$; SSE $1.772e-03$) LV > 0

Karyotype: 1:1

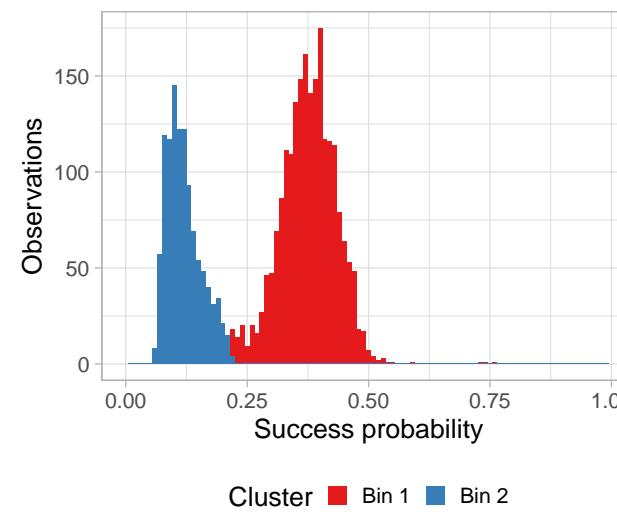
N = 3248; Tail 0%, C2 35%, C1 65%



Cluster ■ Bin 1 ■ Bin 2

Karyotype: 1:1

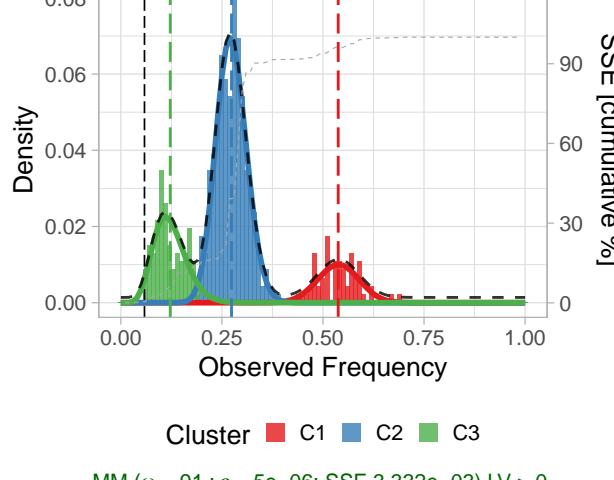
$K_B = 2, K_{BB} = 0$



MM ($\omega = 50$; $\epsilon = 1e-04$; SSE $9.764e-04$) LV > 0

Karyotype: 2:1

N = 461; Tail 0%, C1 12.83%, C3 21.96%, C2

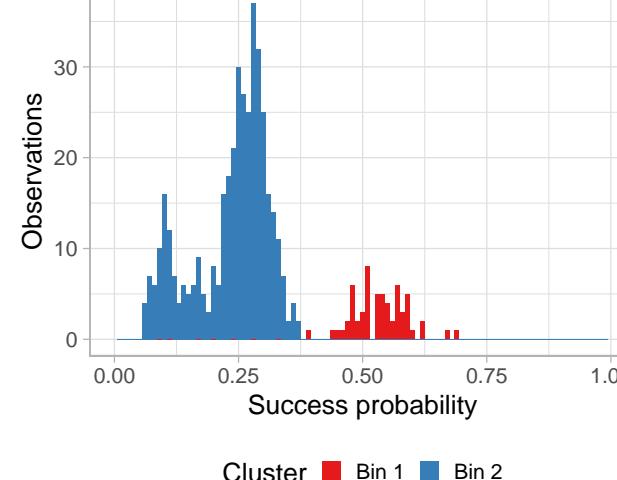


Cluster ■ C1 ■ C2 ■ C3

MM ($\omega = 91$; $\epsilon = 5e-06$; SSE $3.332e-03$) LV > 0

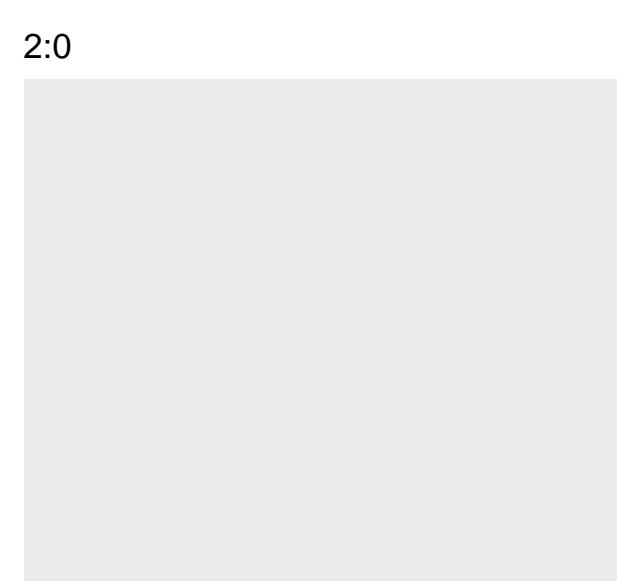
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$

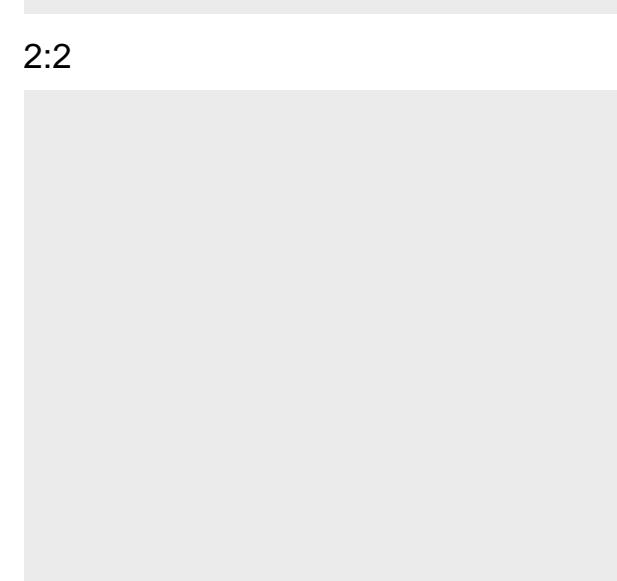


Cluster ■ Bin 1 ■ Bin 2

2:0



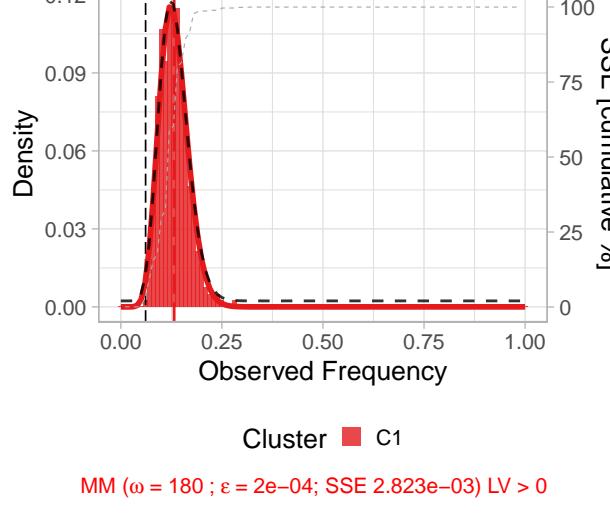
2:2



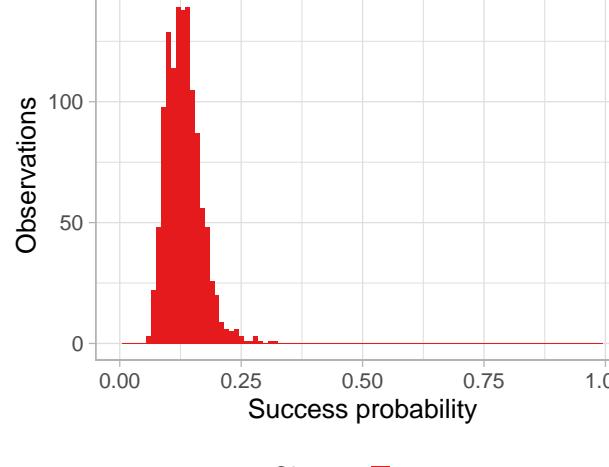
181121_HMFregCPCT_FR16967564_FR13922603_CPCT02020853

ONLY SNVs (min 150 – max 50000)

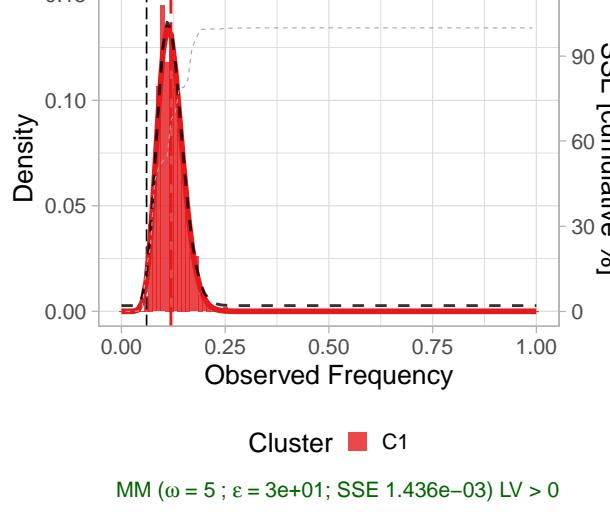
Karyotype: 1:0
N = 1209; Tail 0%, C1 100%



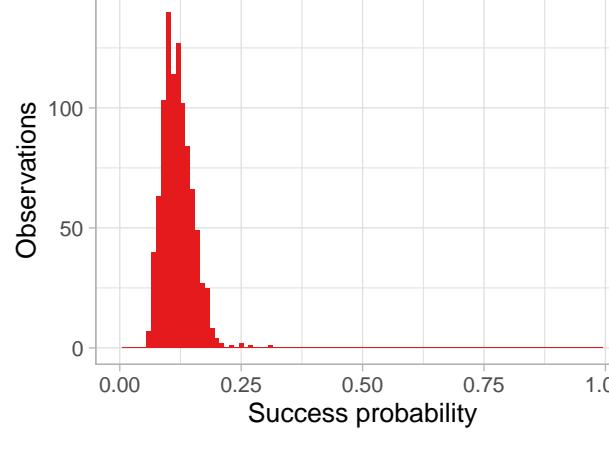
Karyotype: 1:0
 $K_B = 1$, $K_{BB} = 0$



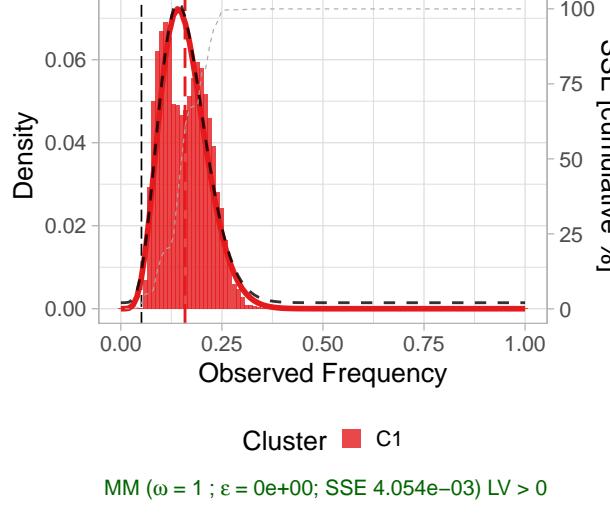
Karyotype: 1:1
N = 966; Tail 0%, C1 100%



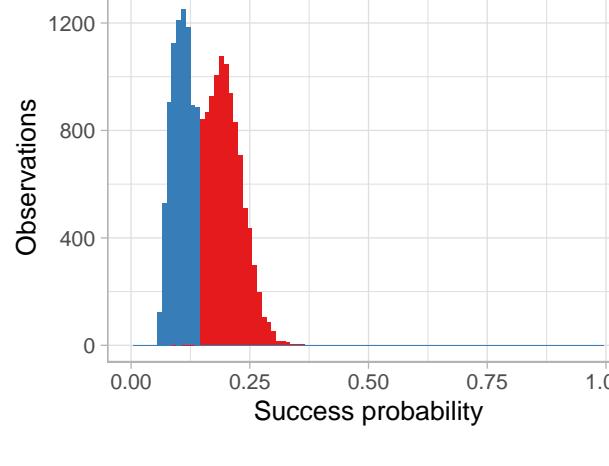
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



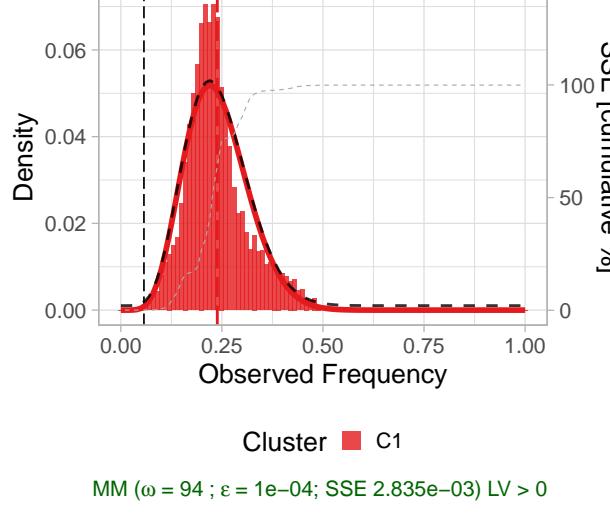
Karyotype: 2:1
N = 18109; Tail 0%, C1 100%



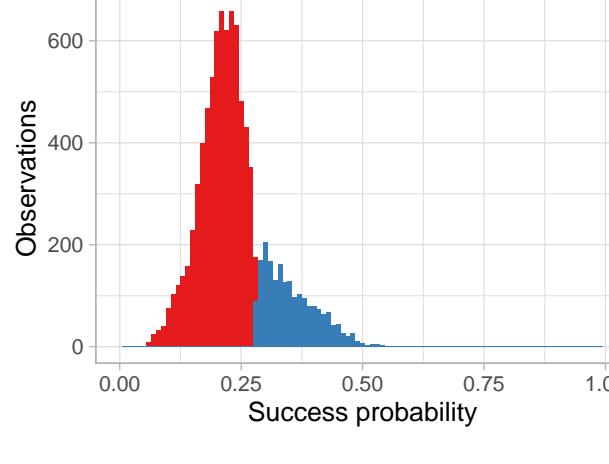
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



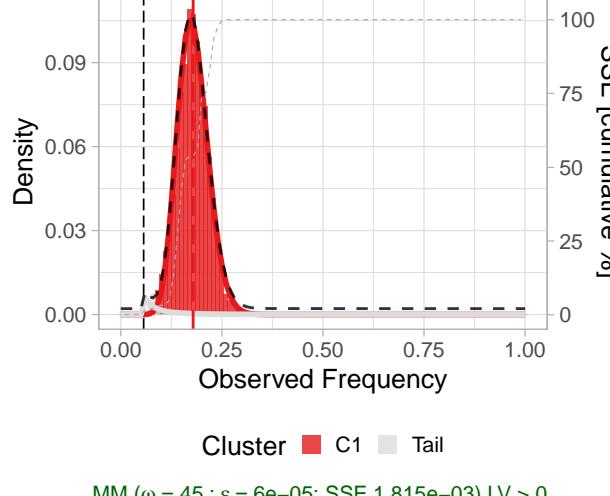
Karyotype: 2:0
N = 9346; Tail 0%, C1 100%



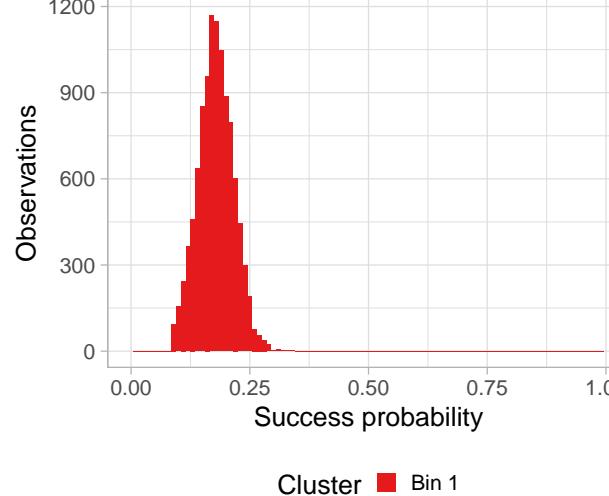
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 10710; Tail 2.4%, C1 97.6%



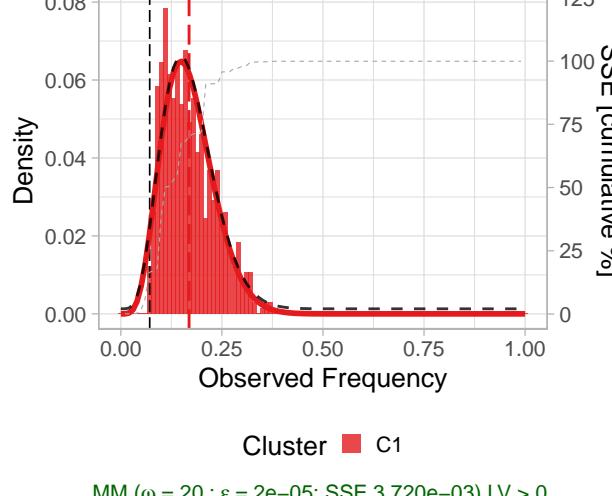
Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$



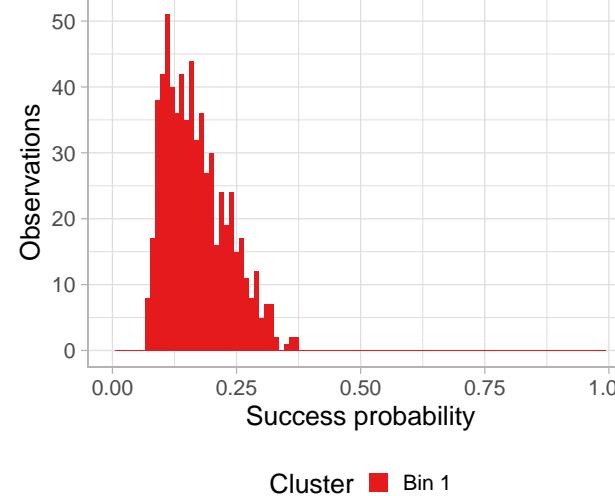
181122_HMFregCPCT_FR17495664_FR13922584_CPCT02020859

ONLY SNVs (min 150 – max 50000)

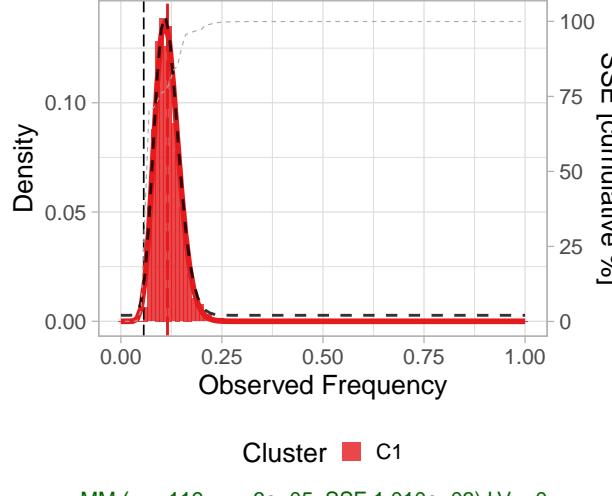
Karyotype: 1:0
N = 650; Tail 0%, C1 100%



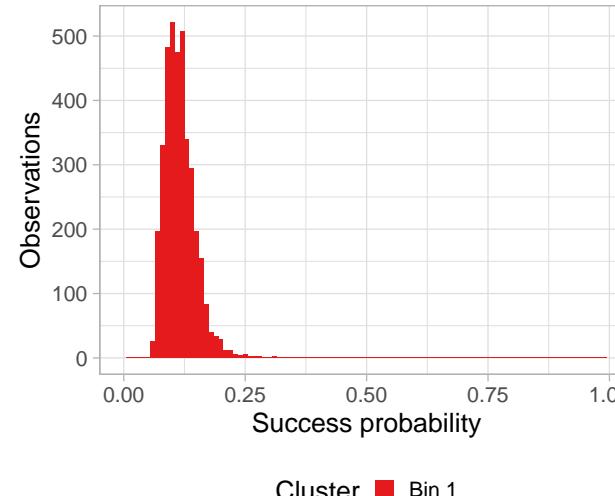
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



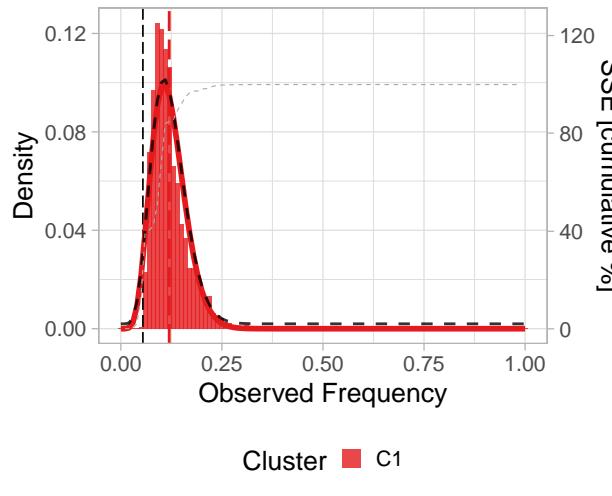
Karyotype: 1:1
N = 3759; Tail 0%, C1 100%



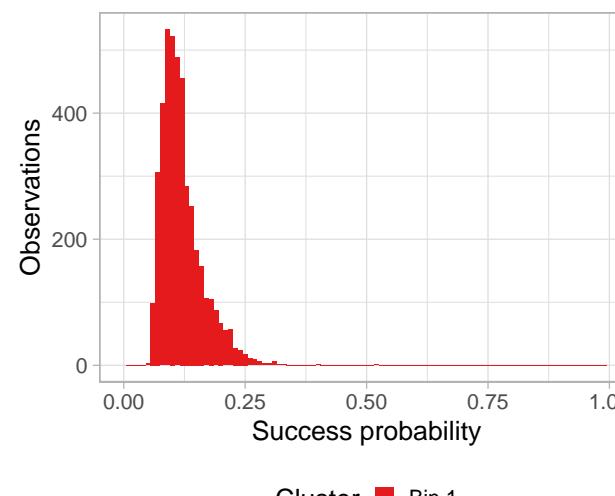
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



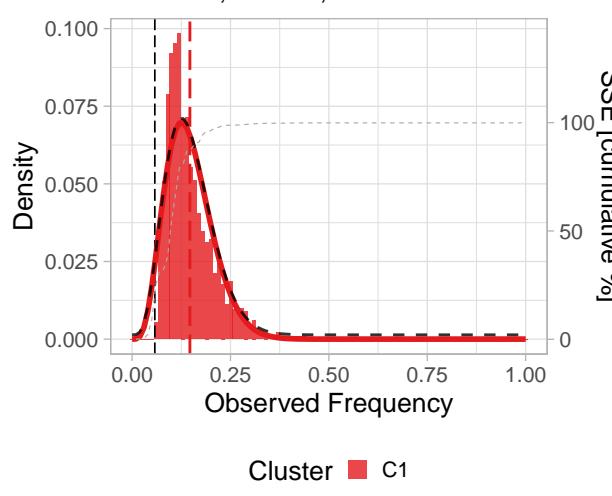
Karyotype: 2:1
N = 4289; Tail 0%, C1 100%



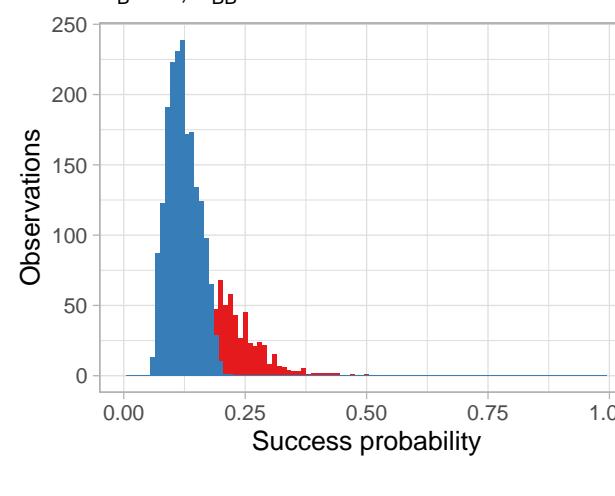
Karyotype: 2:1
 $K_B = 1, K_{BB} = 0$



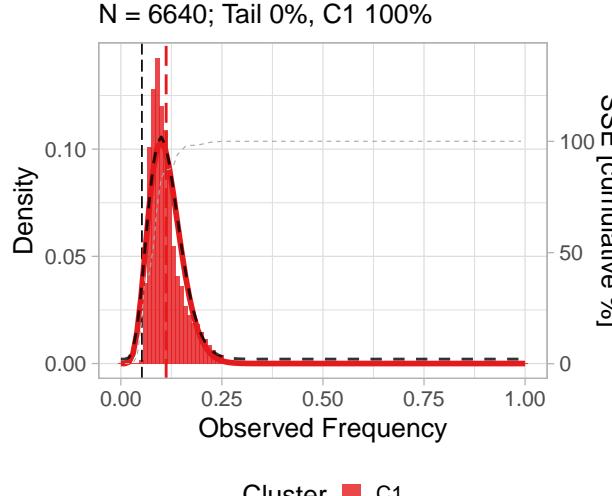
Karyotype: 2:0
N = 2427; Tail 0%, C1 100%



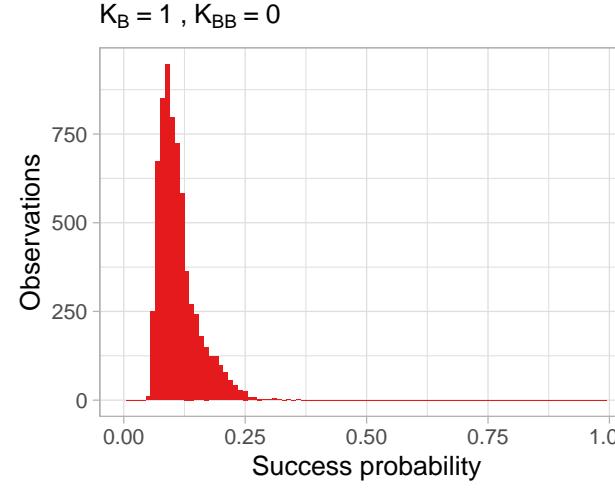
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 6640; Tail 0%, C1 100%



Karyotype: 2:2
 $K_B = 1, K_{BB} = 0$

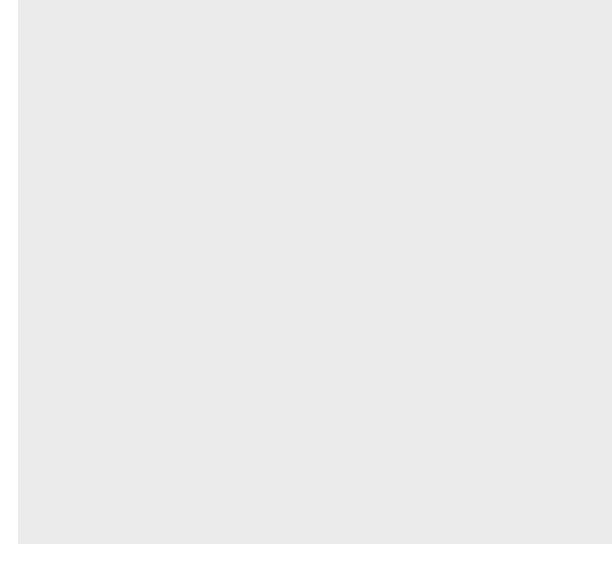
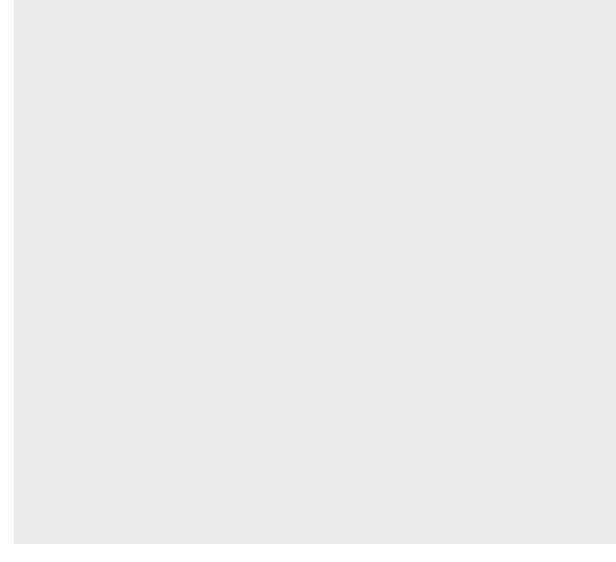


181129_HMFregCPCT_FR16967287_FR13922459_CPCT02270041

ONLY SNVs (min 150 – max 50000)

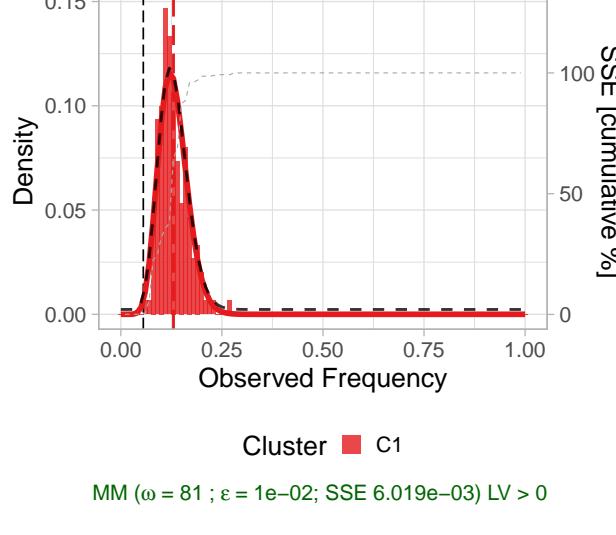
1:0

1:0



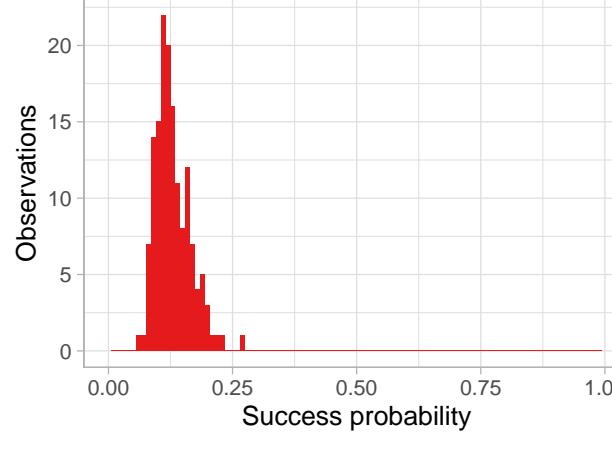
Karyotype: 1:1

N = 150; Tail 0%, C1 100%



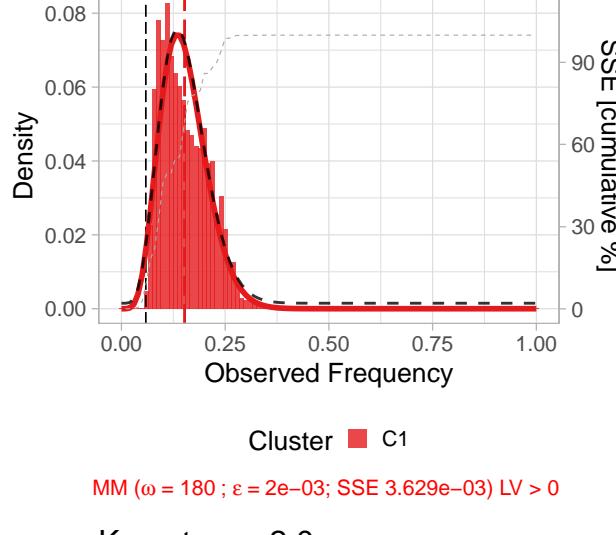
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



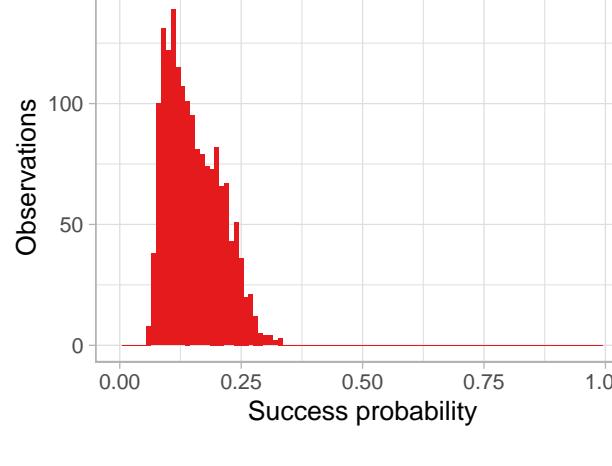
Karyotype: 2:1

N = 1679; Tail 0%, C1 100%



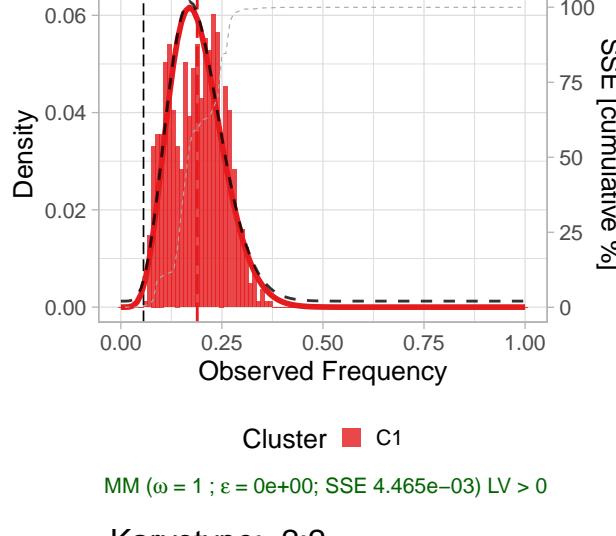
Karyotype: 2:1

$K_B = 1$, $K_{BB} = 0$



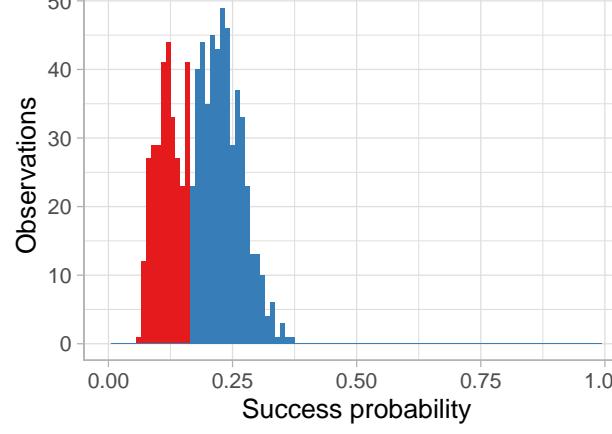
Karyotype: 2:0

N = 815; Tail 0%, C1 100%



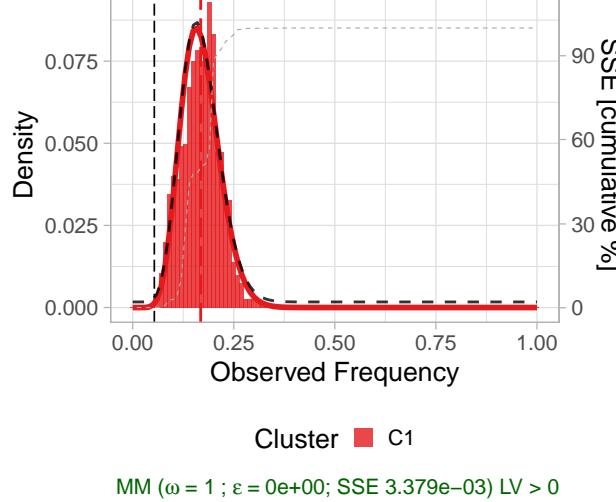
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



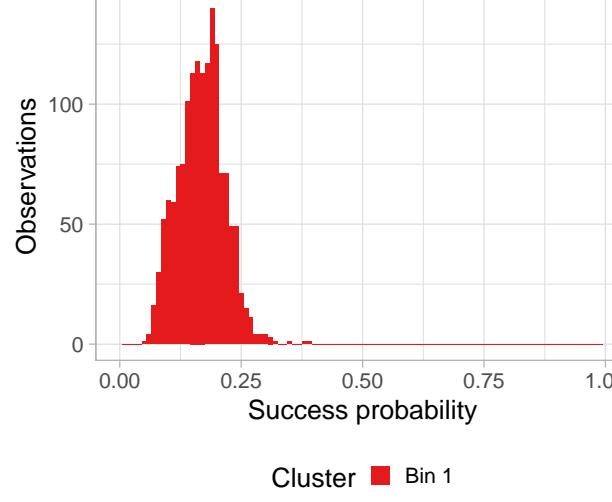
Karyotype: 2:2

N = 1504; Tail 0%, C1 100%



Karyotype: 2:2

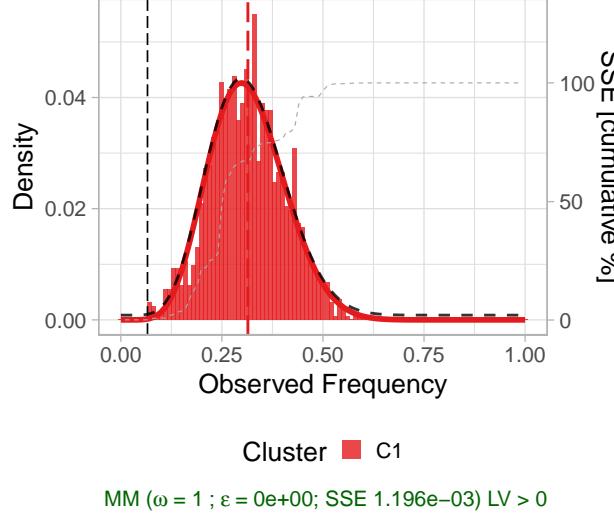
$K_B = 1$, $K_{BB} = 0$



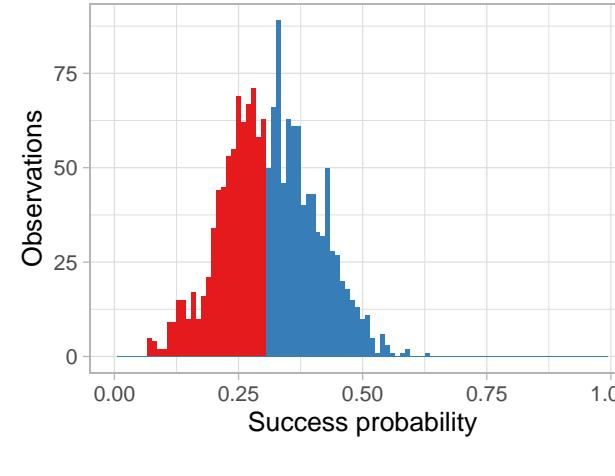
181204_HMFregCPCT_FR16967322_FR15580457_CPCT02010976

ONLY SNVs (min 150 – max 50000)

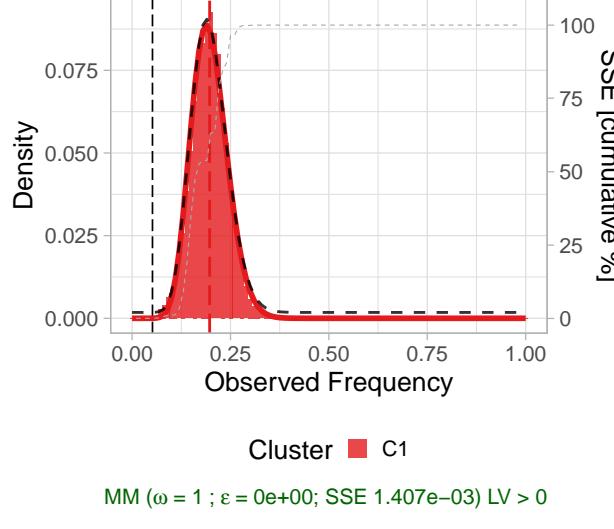
Karyotype: 1:0
N = 1618; Tail 0%, C1 100%



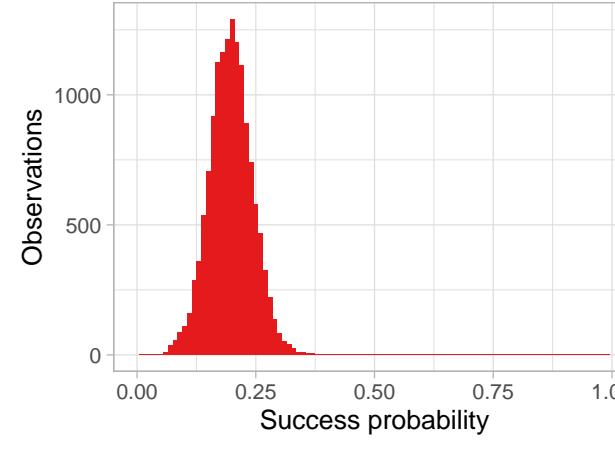
Karyotype: 1:0
 $K_B = 2$, $K_{BB} = 0$



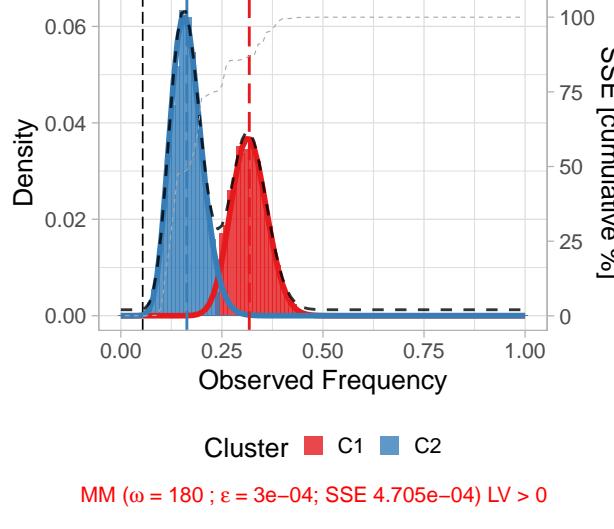
Karyotype: 1:1
N = 13970; Tail 0%, C1 100%



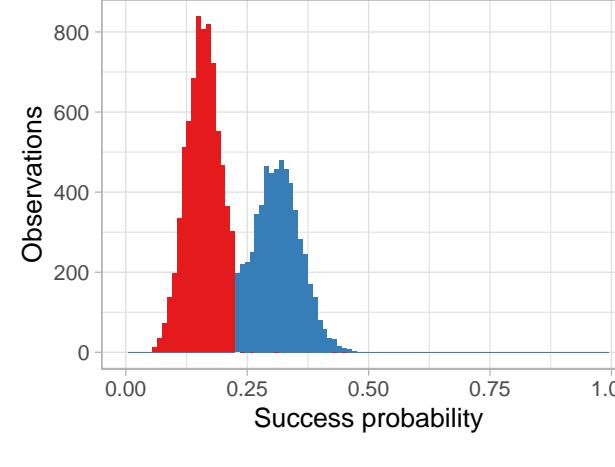
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



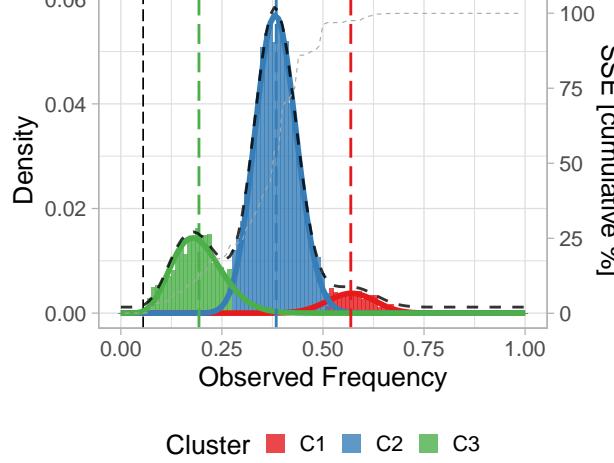
Karyotype: 2:1
N = 13229; Tail 0%, C1 40.52%, C2 59.48%



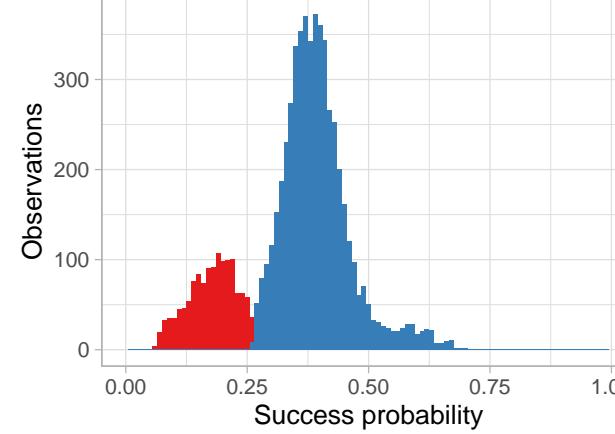
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



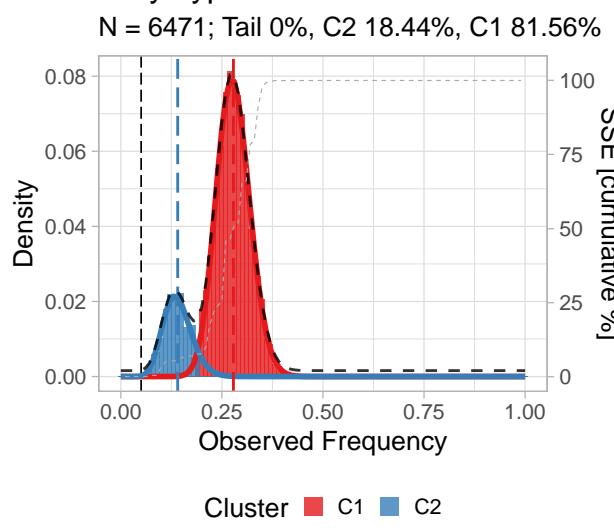
Karyotype: 2:0
N = 6631; Tail 0%, C1 5.6%, C3 21.79%, C2 7



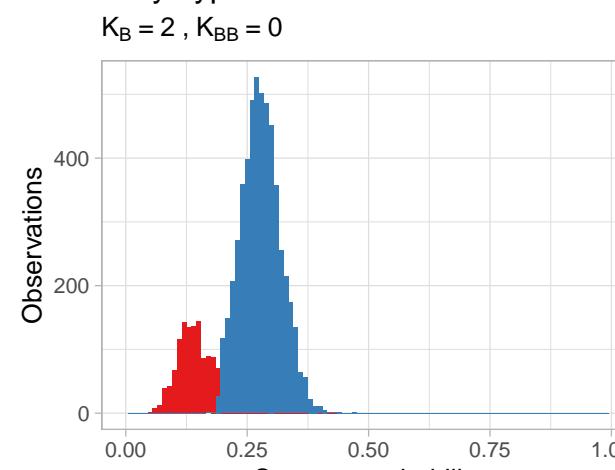
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 6471; Tail 0%, C2 18.44%, C1 81.56%



Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$

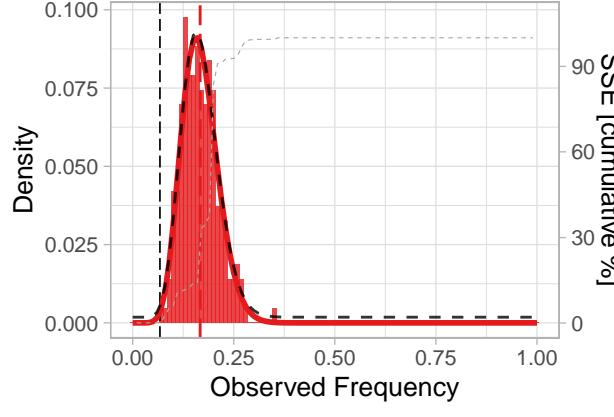


181206_HMFregCPCT_FR15580429_FR13922458_CPCT02020867

ONLY SNVs (min 150 – max 50000)

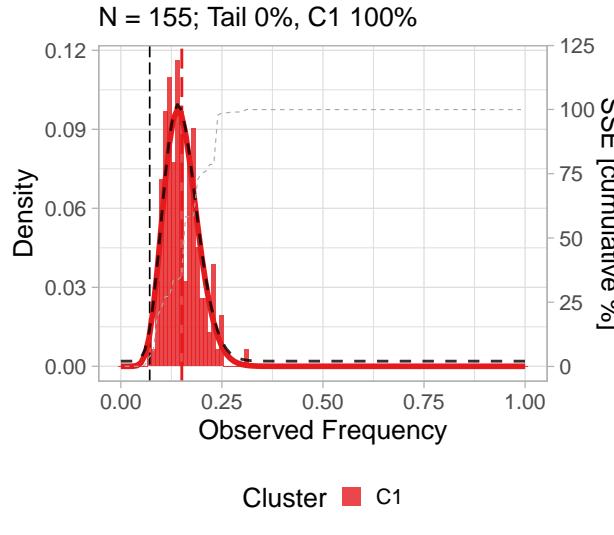
Karyotype: 1:0

N = 215; Tail 0%, C1 100%



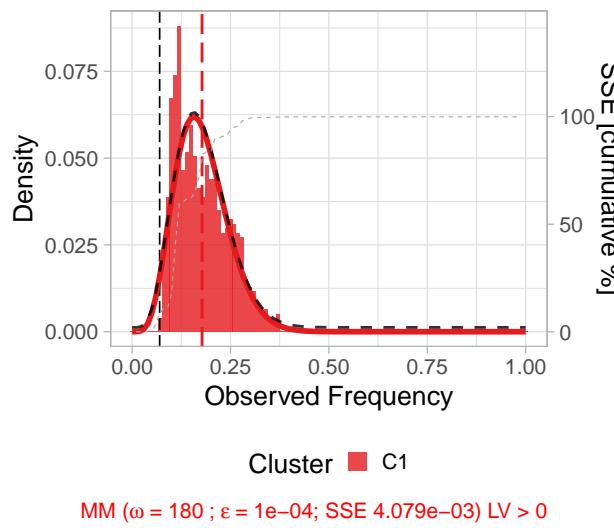
Karyotype: 1:1

N = 155; Tail 0%, C1 100%



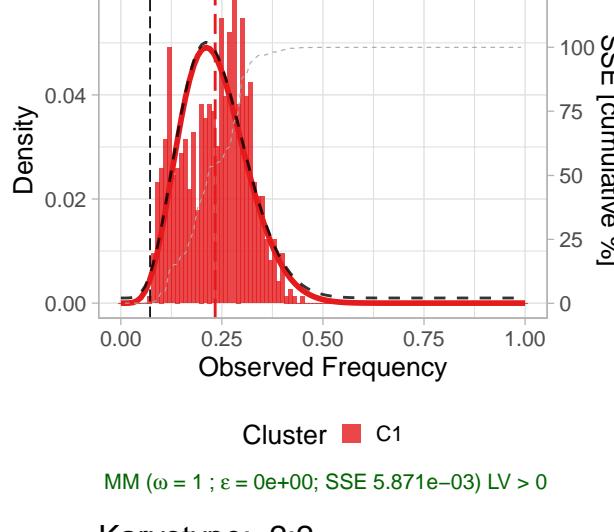
Karyotype: 2:1

N = 772; Tail 0%, C1 100%



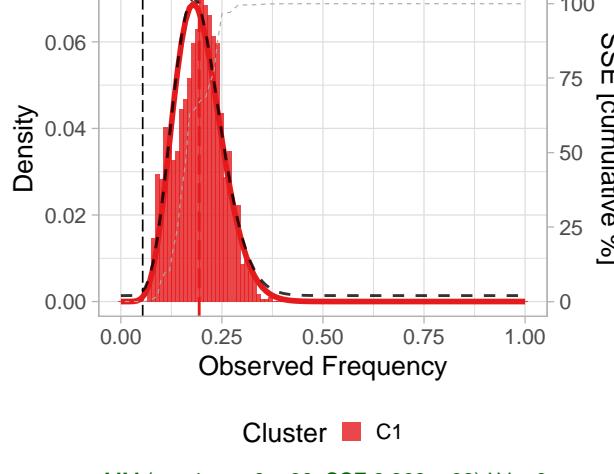
Karyotype: 2:0

N = 732; Tail 0%, C1 100%



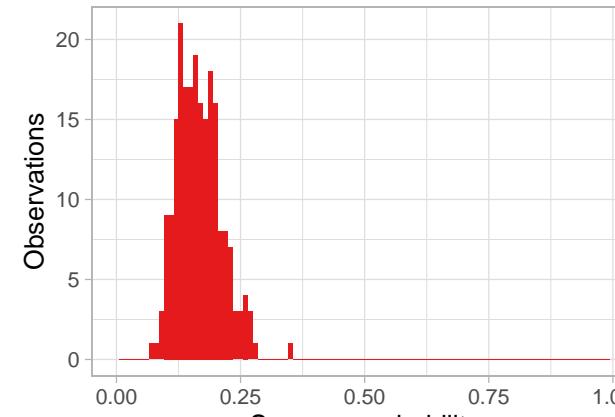
Karyotype: 2:2

N = 1840; Tail 0%, C1 100%



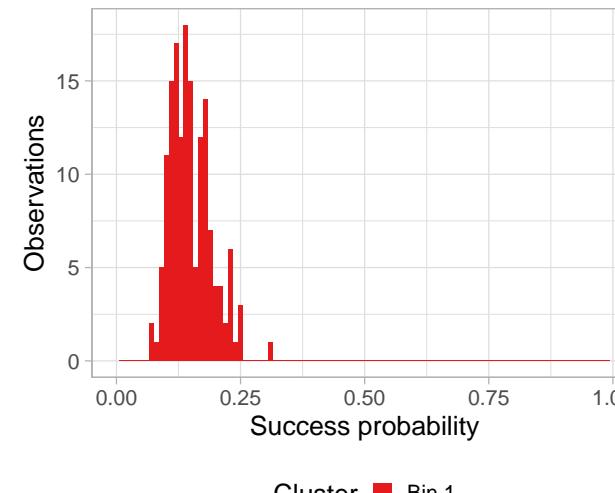
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



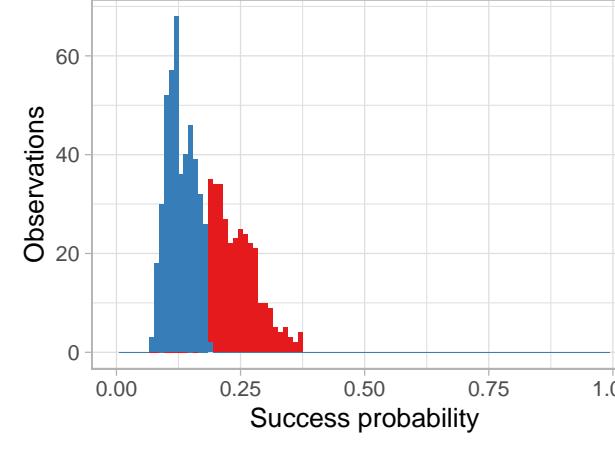
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



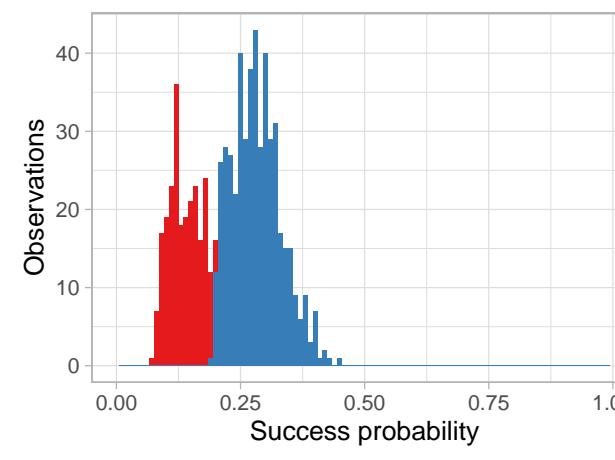
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



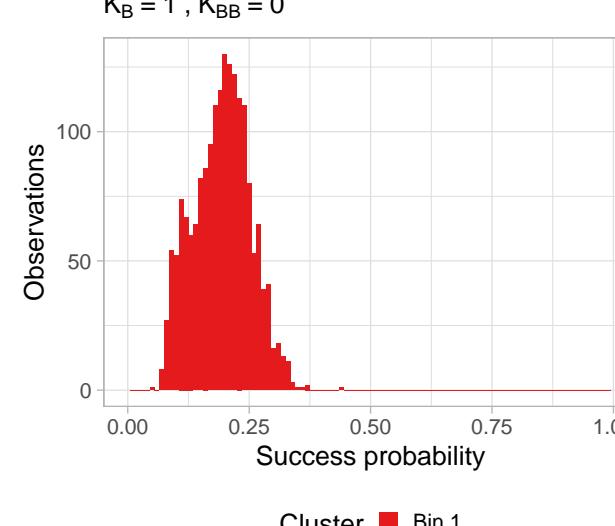
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

$K_B = 1, K_{BB} = 0$

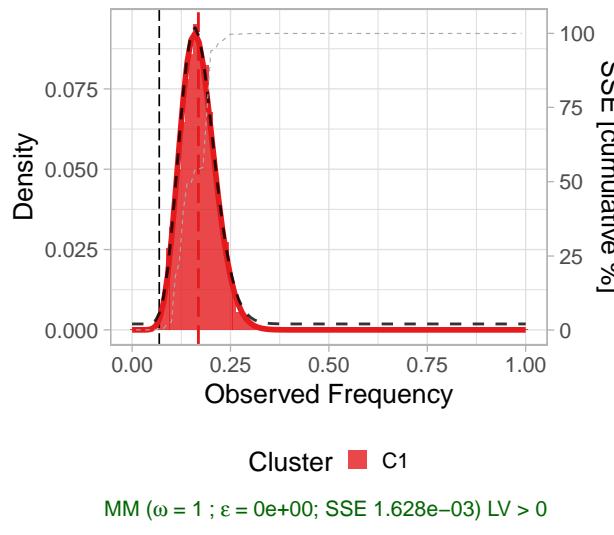


181206_HMFregCPCT_FR17756692_FR13921679_CPCT02010985

ONLY SNVs (min 150 – max 50000)

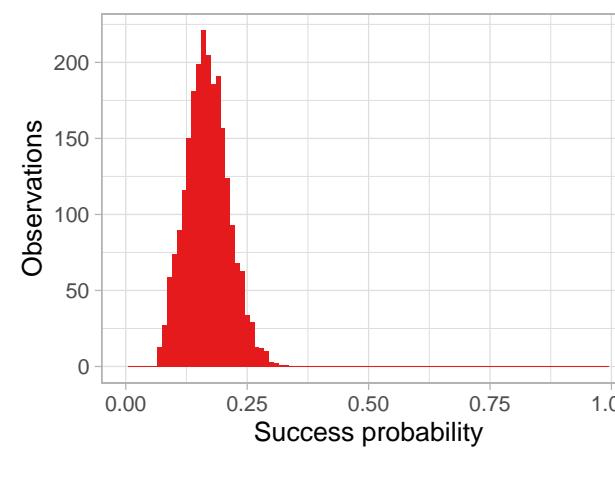
Karyotype: 1:0

N = 2322; Tail 0%, C1 100%



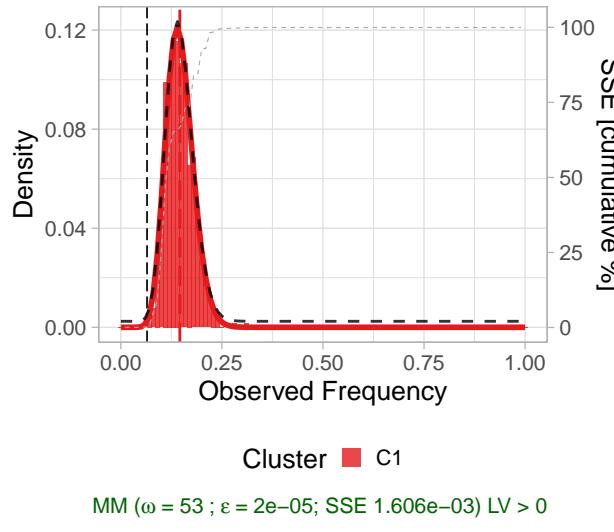
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



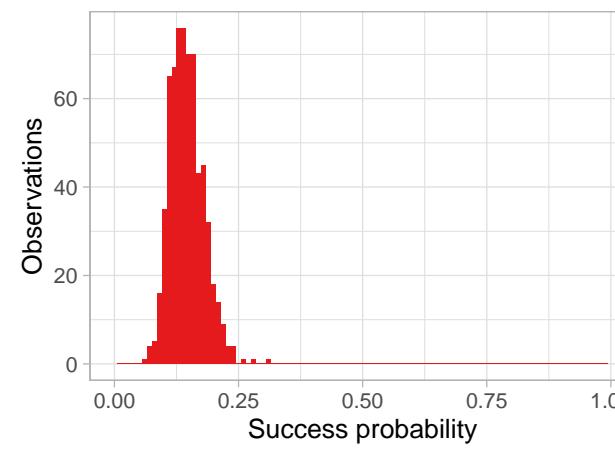
Karyotype: 1:1

N = 657; Tail 0%, C1 100%



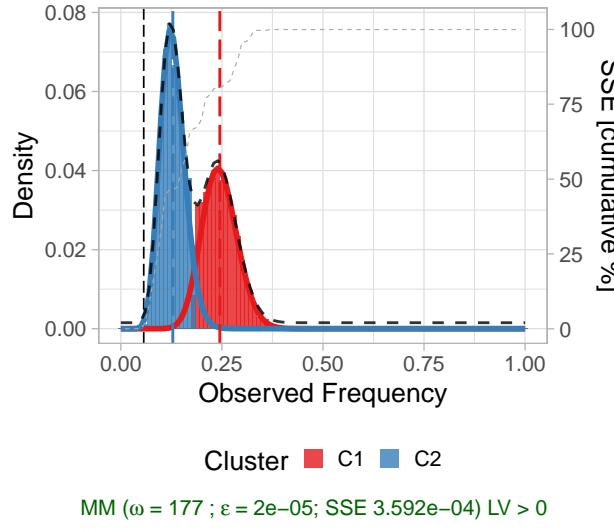
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



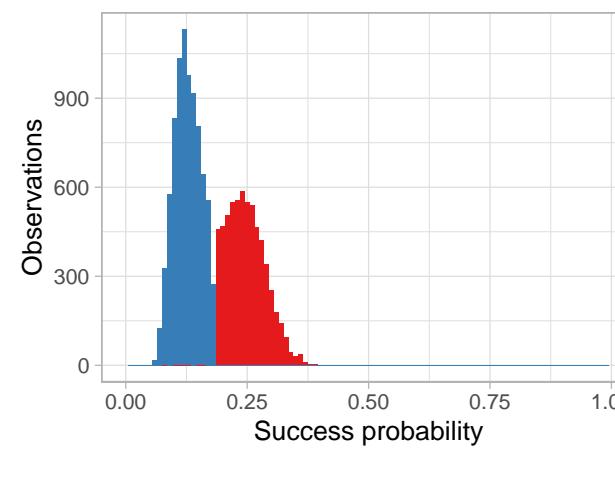
Karyotype: 2:1

N = 14634; Tail 0%, C1 43.76%, C2 56.24%



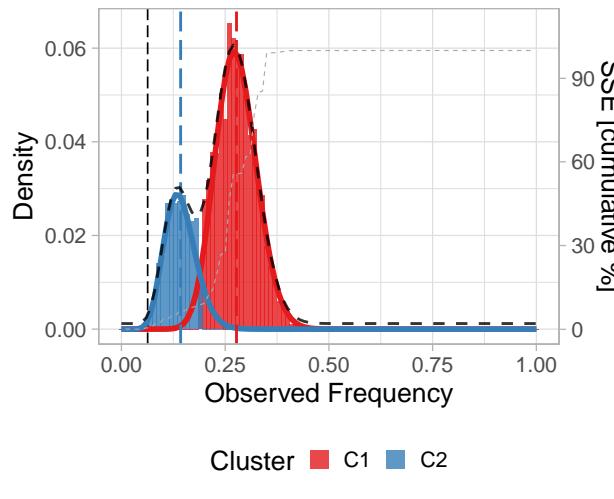
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



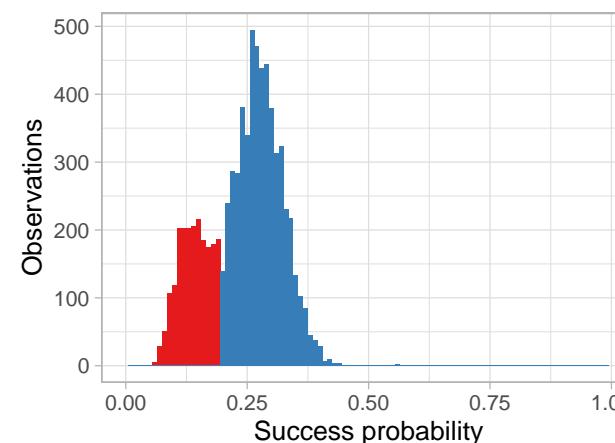
Karyotype: 2:0

N = 7580; Tail 0%, C2 26.73%, C1 73.27%



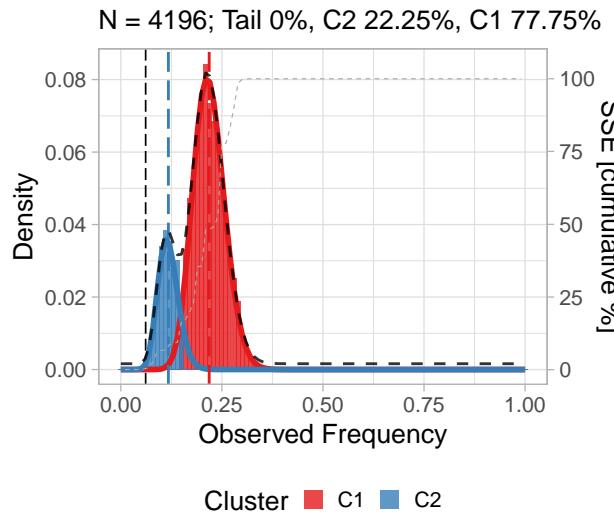
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



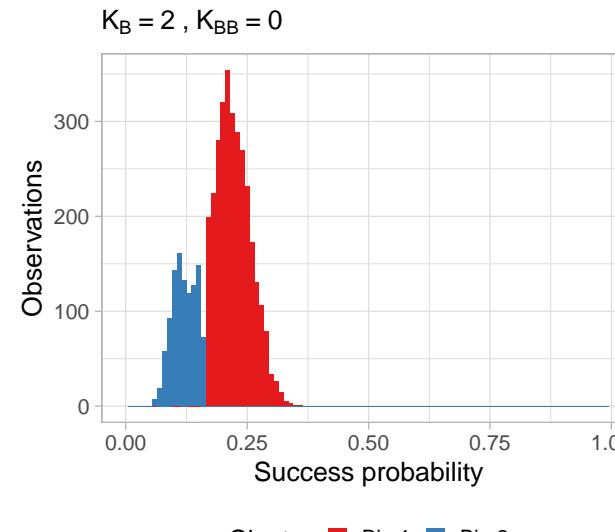
Karyotype: 2:2

N = 4196; Tail 0%, C2 22.25%, C1 77.75%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

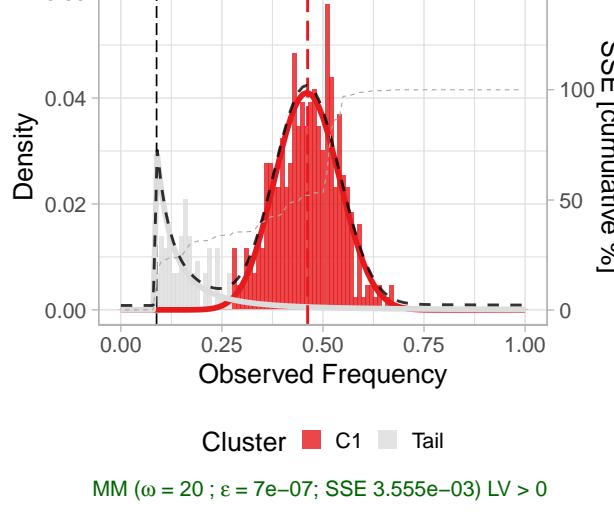


181211_HMFregCPCT_FR17756678_FR17756749_CPCT02070410

ONLY SNVs (min 150 – max 50000)

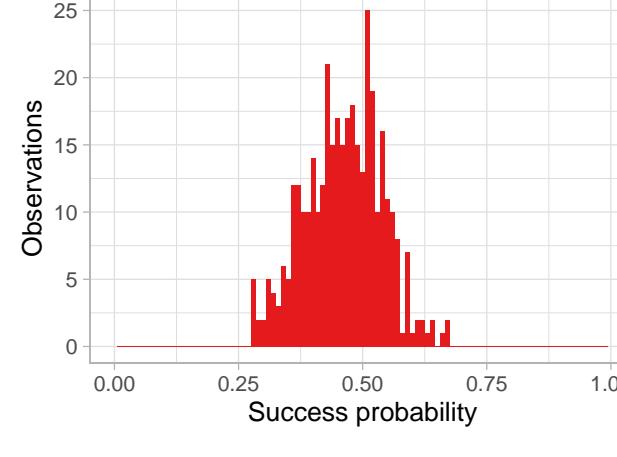
Karyotype: 1:0

N = 433; Tail 18.86%, C1 81.14%



Karyotype: 1:0

$K_B = 1, K_{BB} = 0$

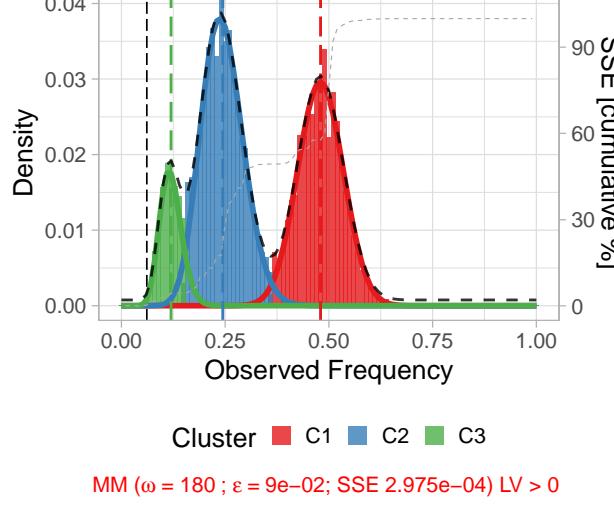


1:1

1:1

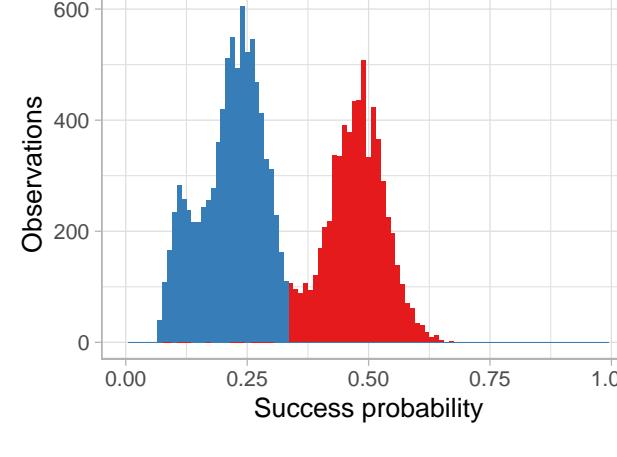
Karyotype: 2:1

N = 14948; Tail 0%, C3 11.55%, C1 40.62%, C2 47.83%



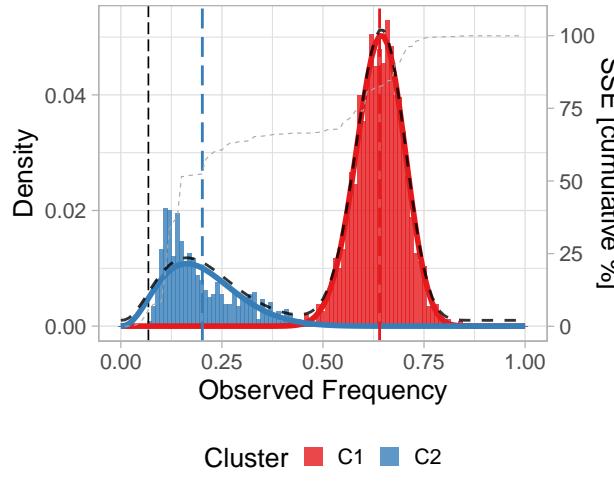
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



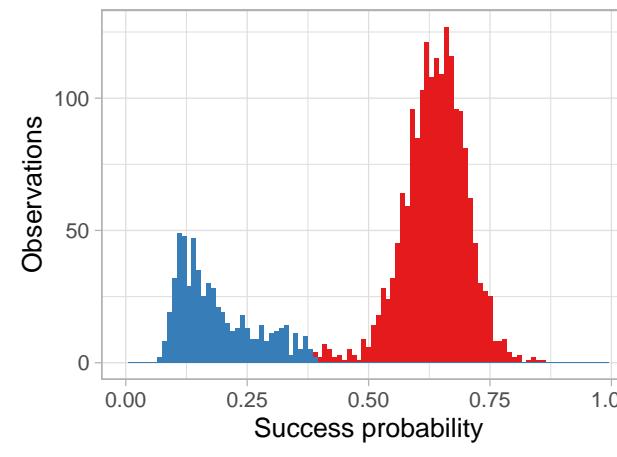
Karyotype: 2:0

N = 2401; Tail 0%, C2 24.74%, C1 75.26%



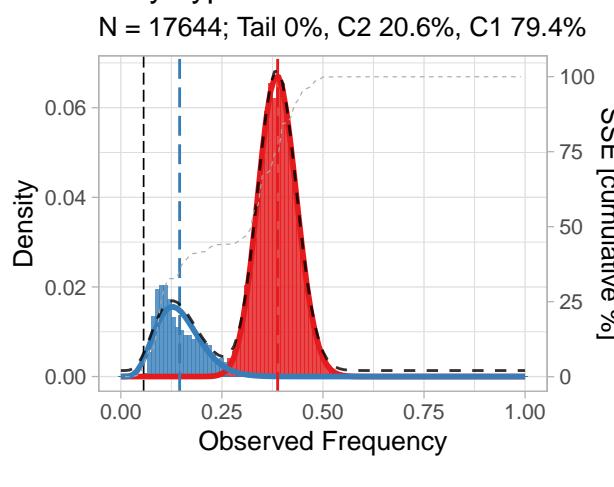
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



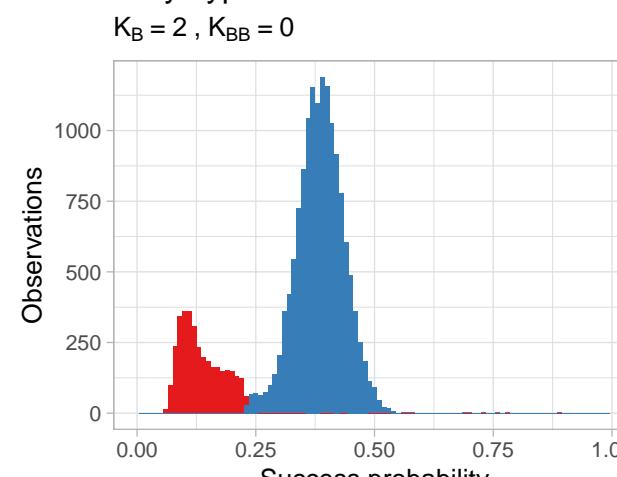
Karyotype: 2:2

N = 17644; Tail 0%, C2 20.6%, C1 79.4%



Karyotype: 2:2

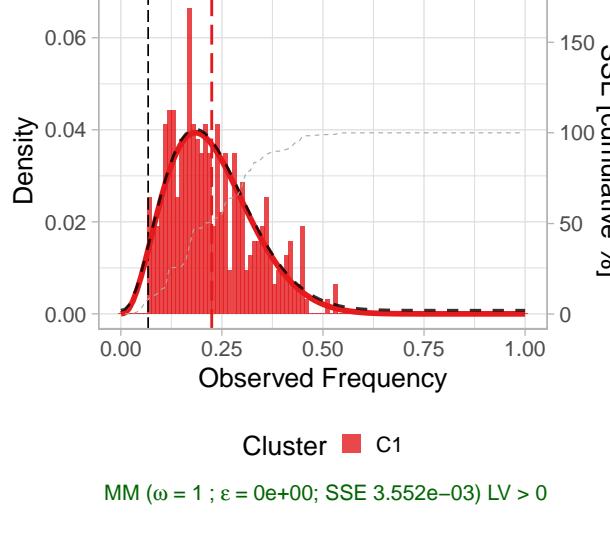
$K_B = 2, K_{BB} = 0$



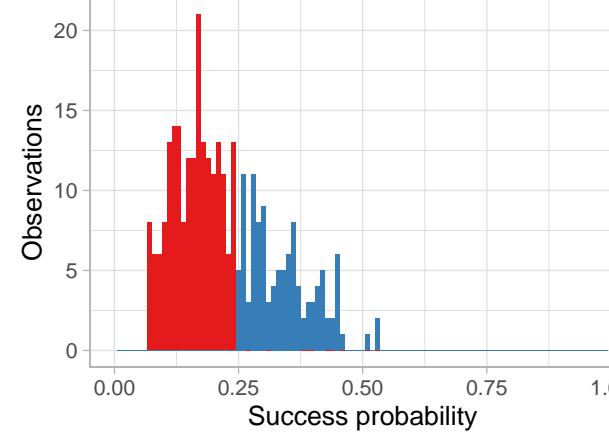
181228_HMFregCPCT_FR15410404_FR13922701_CPCT02040115

ONLY SNVs (min 150 – max 50000)

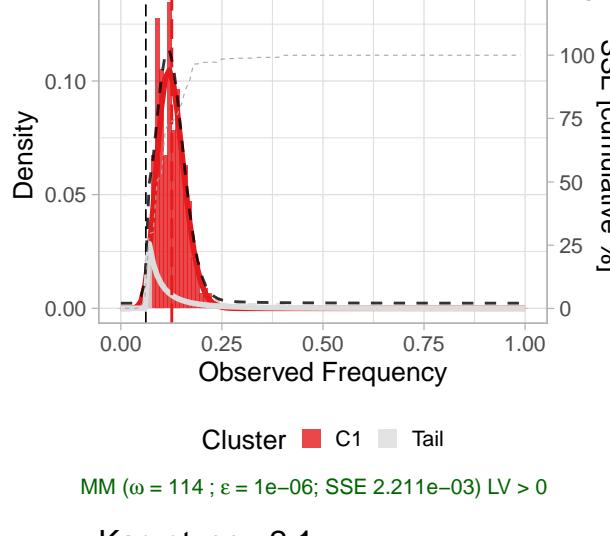
Karyotype: 1:0
N = 316; Tail 0%, C1 100%



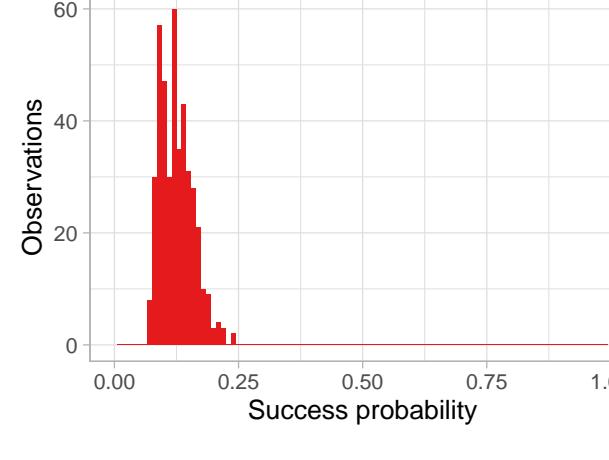
Karyotype: 1:0
 $K_B = 2, K_{BB} = 0$



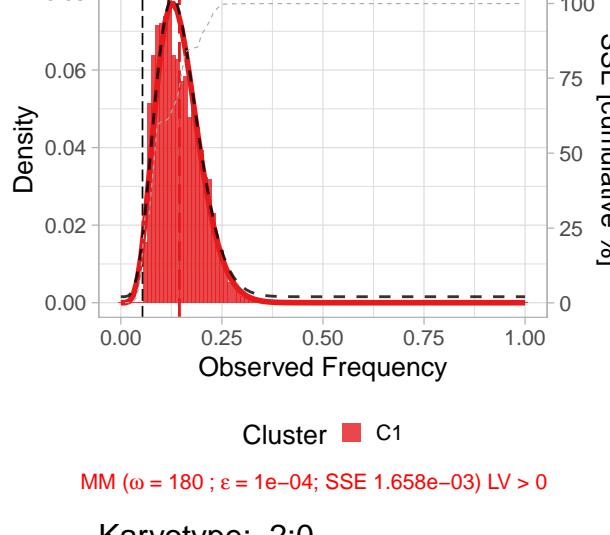
Karyotype: 1:1
N = 446; Tail 14.36%, C1 85.64%



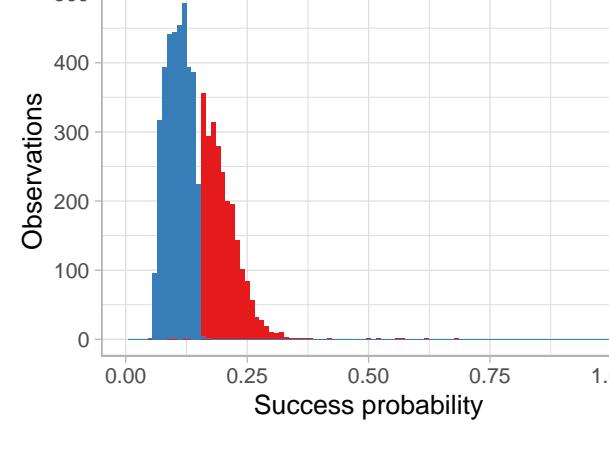
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



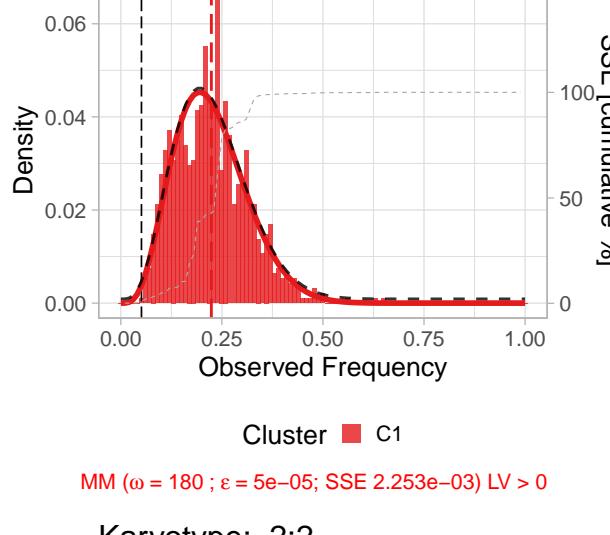
Karyotype: 2:1
N = 6163; Tail 0%, C1 100%



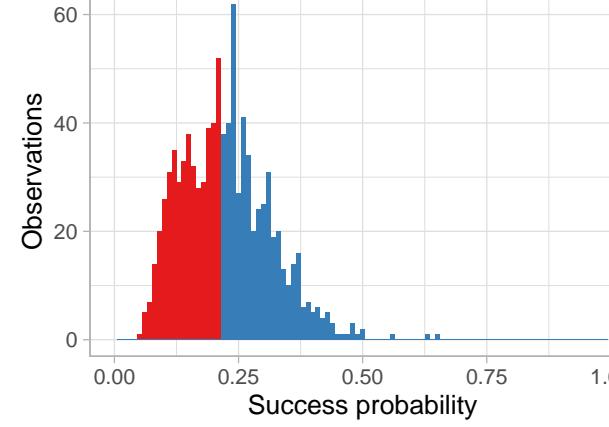
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



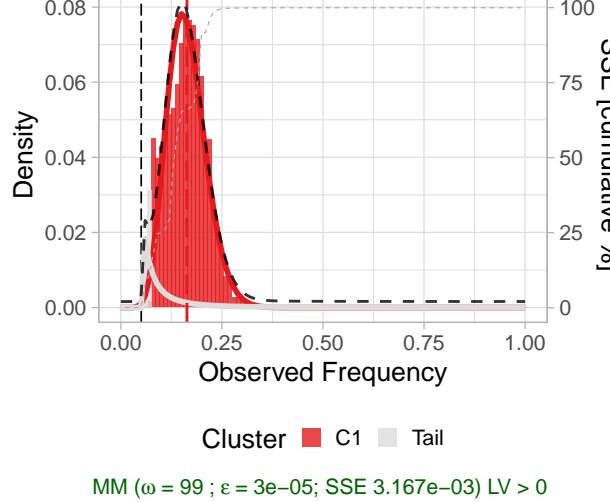
Karyotype: 2:0
N = 944; Tail 0%, C1 100%



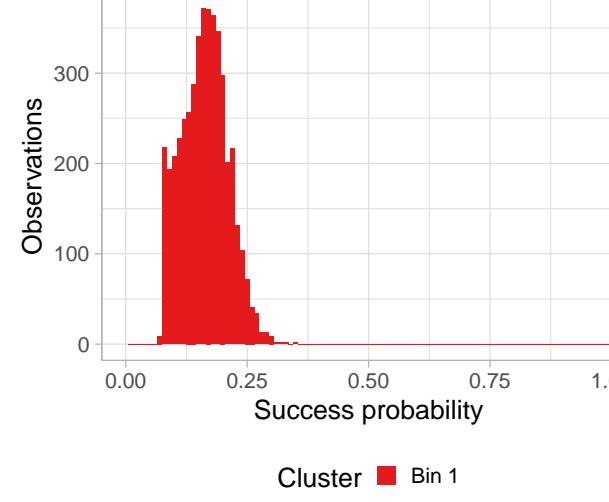
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 4843; Tail 8.91%, C1 91.09%



Karyotype: 2:2
 $K_B = 1, K_{BB} = 0$

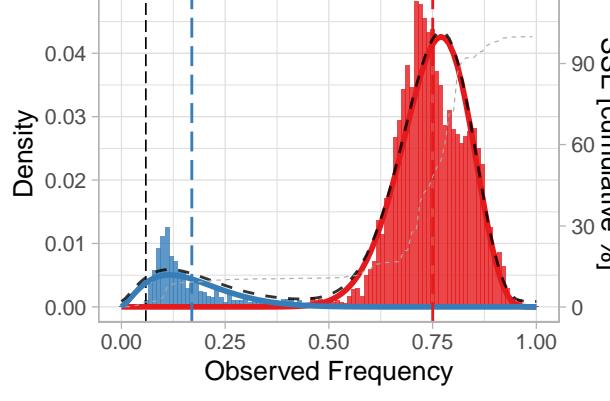


181228_HMFregCPCT_FR16967363_FR17756147_CPCT02020868

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 4043; Tail 0%, C2 11.31%, C1 88.69%



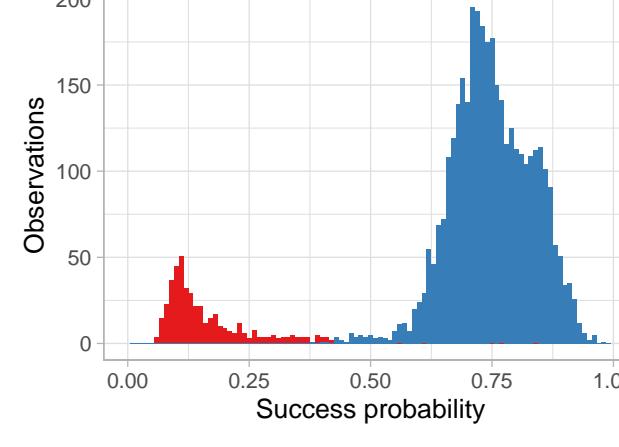
Karyotype: 1:0

N = 4043; Tail 0%, C2 11.31%, C1 88.69%

MM ($\omega = 59$; $\epsilon = 5e-04$; SSE $1.875e-03$) LV > 0

Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



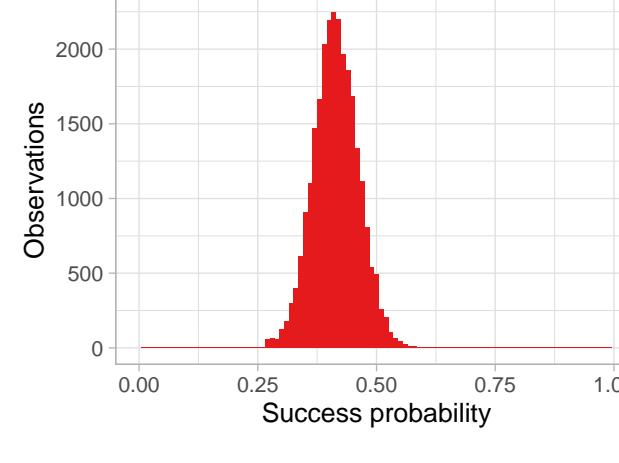
Karyotype: 1:1

N = 27421; Tail 5.33%, C1 94.67%

MM ($\omega = 12$; $\epsilon = 3e-05$; SSE $5.477e-04$) LV > 0

Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



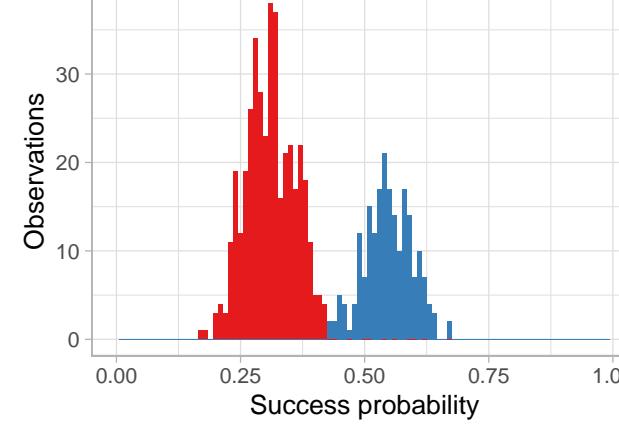
Karyotype: 2:1

N = 624; Tail 3.4%, C1 32.09%, C2 64.51%

MM ($\omega = 32$; $\epsilon = 8e-08$; SSE $2.132e-03$) LV > 0

Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



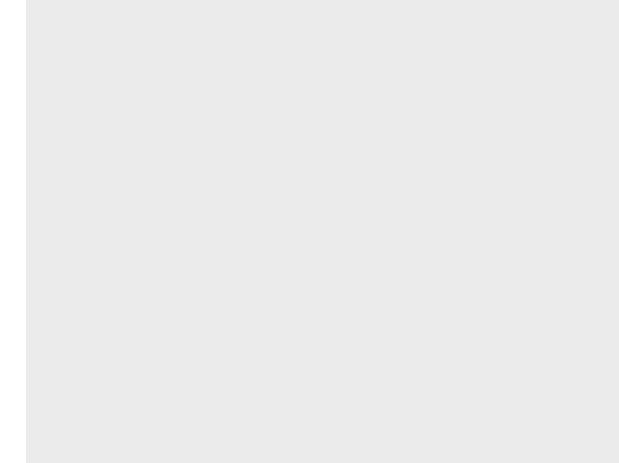
Cluster C1 C2 Tail

MM ($\omega = 32$; $\epsilon = 8e-08$; SSE $2.132e-03$) LV > 0

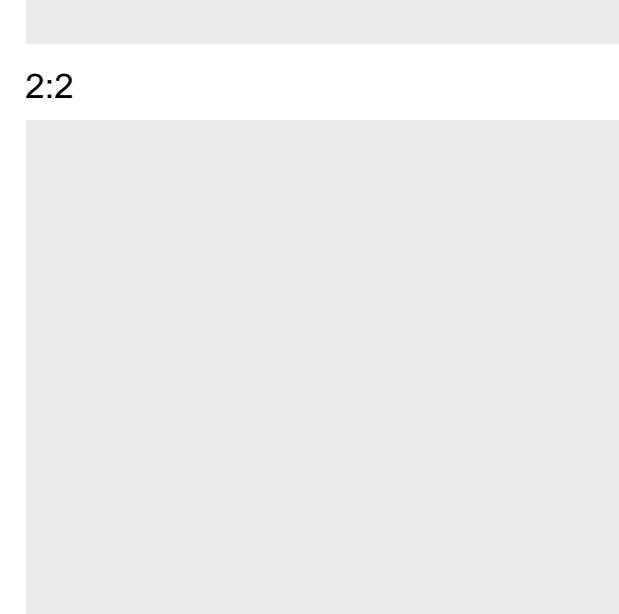
Cluster Bin 1 Bin 2

Success probability

2:0



2:0



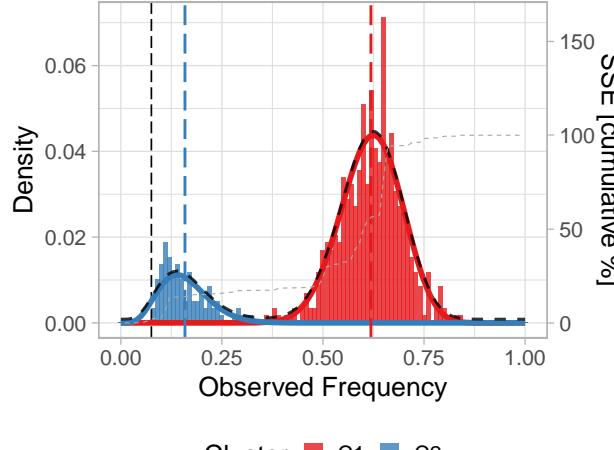
2:2

190115_HMFregCPCT_FR17452614_FR17452684_CPCT02011025

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

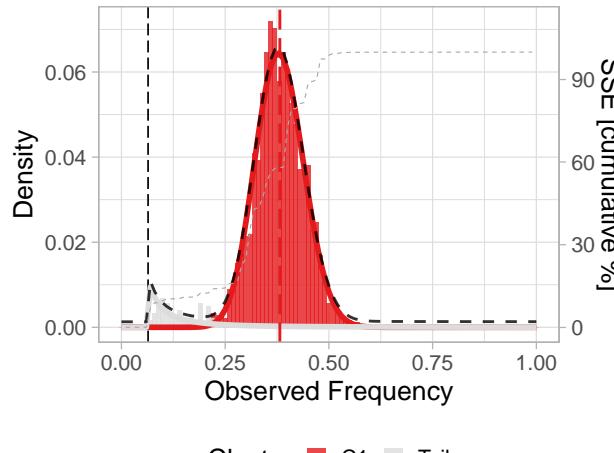
N = 589; Tail 0%, C2 16.44%, C1 83.56%



MM ($\omega = 40$; $\epsilon = 5e-05$; SSE 1.978e-03) LV > 0

Karyotype: 1:1

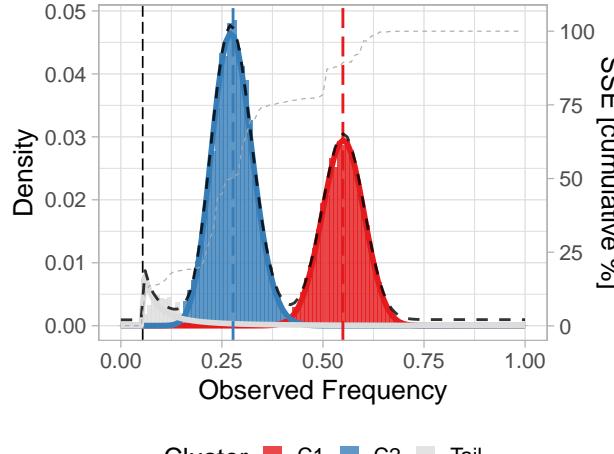
N = 1781; Tail 6.27%, C1 93.73%



MM ($\omega = 17$; $\epsilon = 3e-06$; SSE 1.108e-03) LV > 0

Karyotype: 2:1

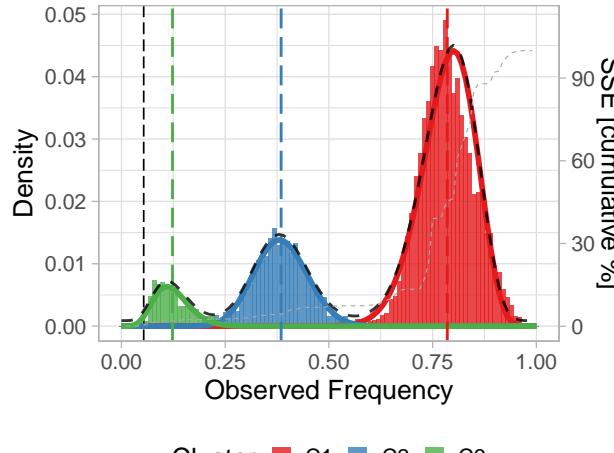
N = 12414; Tail 4.8%, C1 37.87%, C2 57.33%



MM ($\omega = 30$; $\epsilon = 4e-05$; SSE 4.352e-04) LV > 0

Karyotype: 2:0

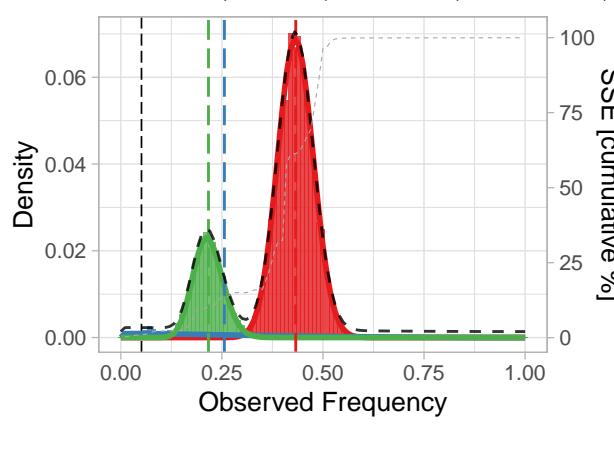
N = 10604; Tail 0%, C3 6.52%, C2 22.2%, C1



MM ($\omega = 87$; $\epsilon = 2e-04$; SSE 7.945e-04) LV > 0

Karyotype: 2:2

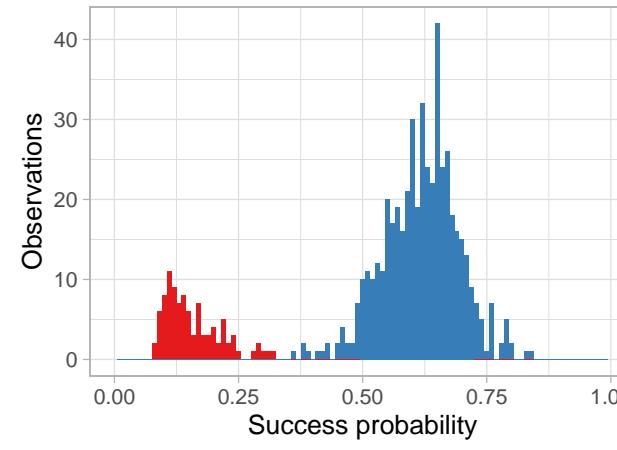
N = 21225; Tail 0%, C2 3.54%, C3 20.89%, C1



MM ($\omega = 130$; $\epsilon = 3e-04$; SSE 4.085e-04) LV > 0

Karyotype: 1:0

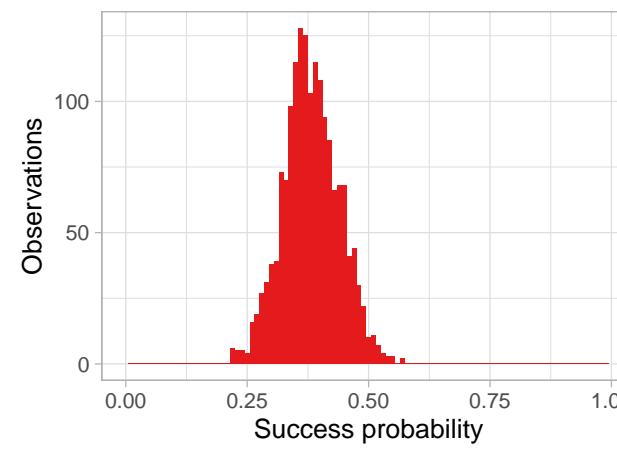
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 40$; $\epsilon = 5e-05$; SSE 1.978e-03) LV > 0

Karyotype: 1:1

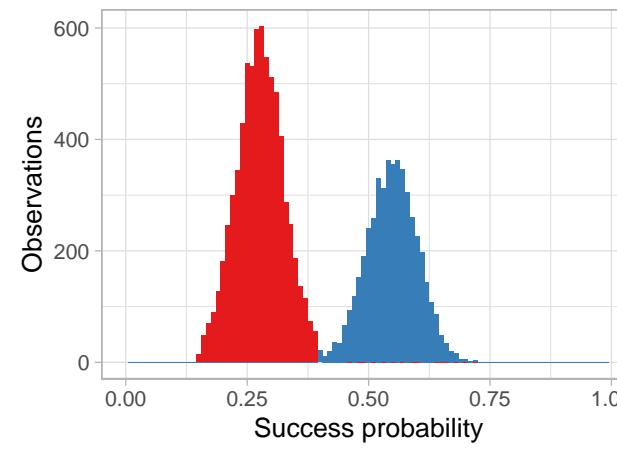
$K_B = 1$, $K_{BB} = 0$



MM ($\omega = 17$; $\epsilon = 3e-06$; SSE 1.108e-03) LV > 0

Karyotype: 2:1

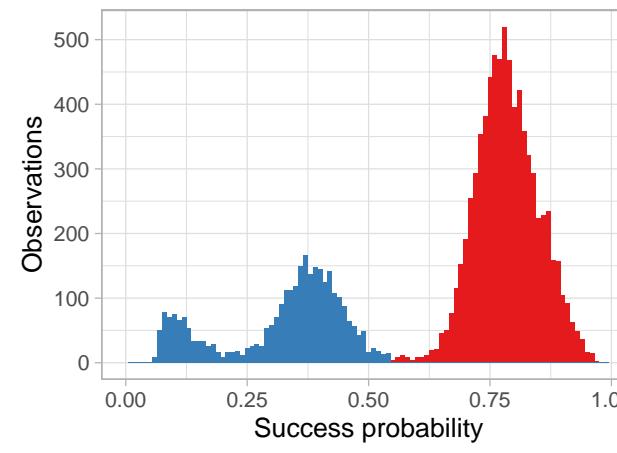
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 30$; $\epsilon = 4e-05$; SSE 4.352e-04) LV > 0

Karyotype: 2:0

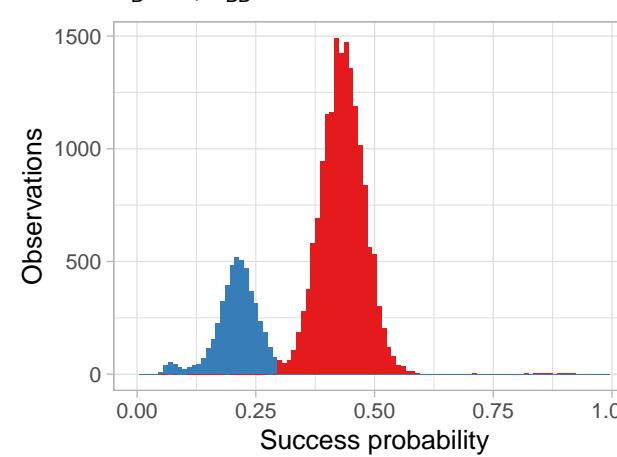
$K_B = 2$, $K_{BB} = 0$



MM ($\omega = 87$; $\epsilon = 2e-04$; SSE 7.945e-04) LV > 0

Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

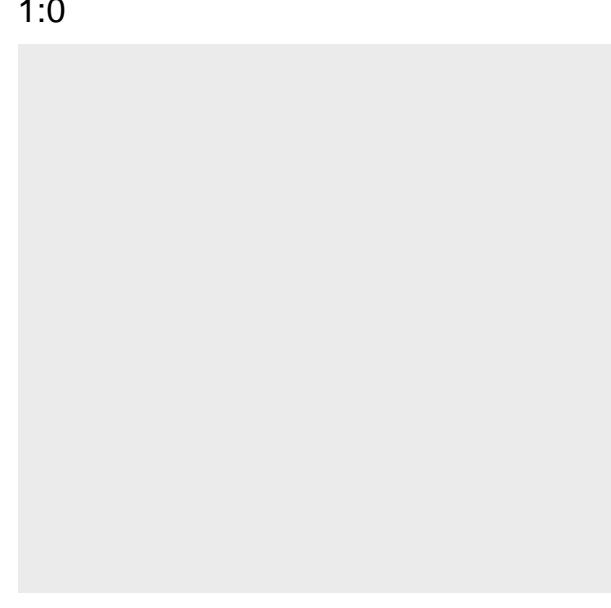
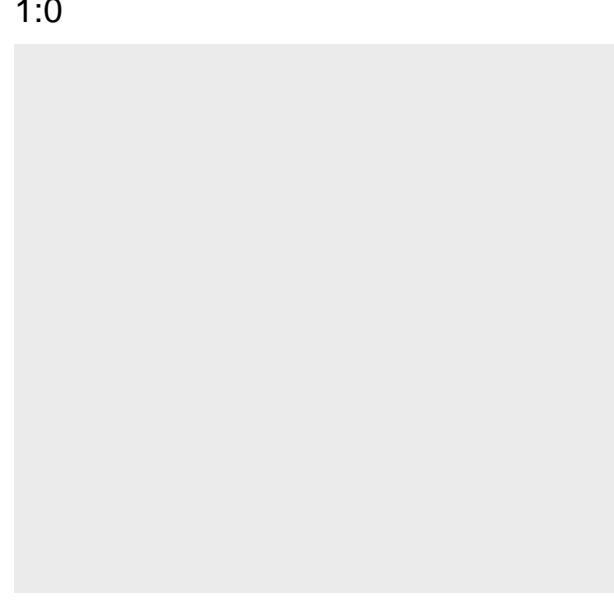


MM ($\omega = 130$; $\epsilon = 3e-04$; SSE 4.085e-04) LV > 0

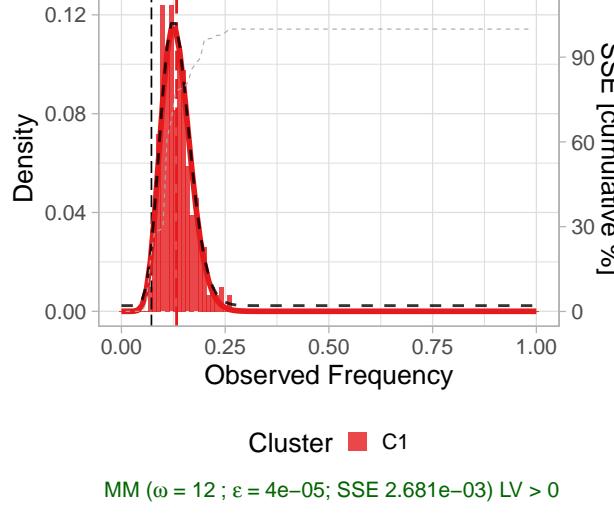
MM ($\omega = 130$; $\epsilon = 3e-04$; SSE 4.085e-04) LV > 0

190121_HMFregCPCT_FR17756722_FR17046985_CPCT02020876

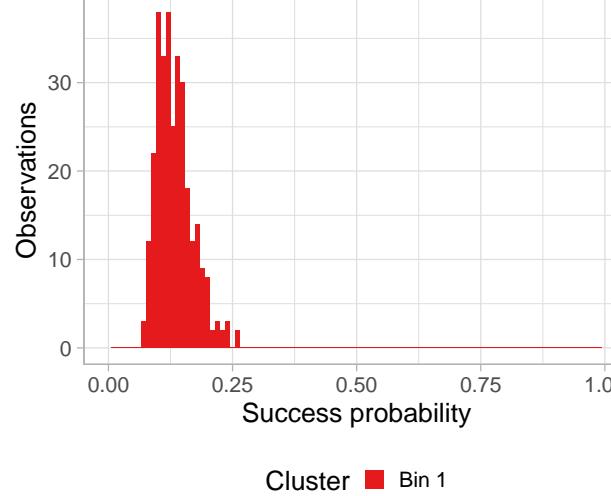
ONLY SNVs (min 150 – max 50000)



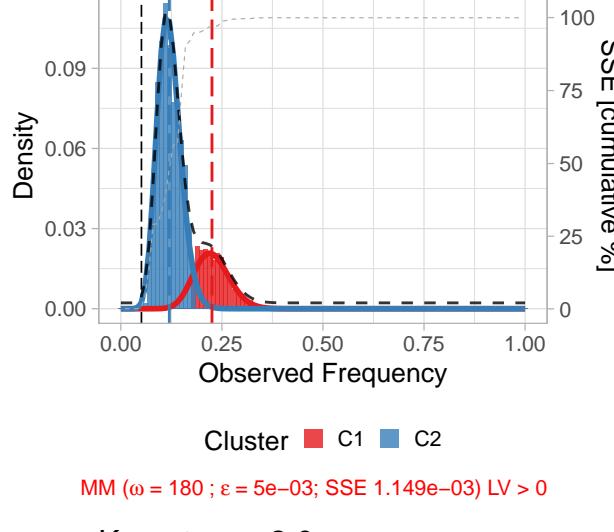
Karyotype: 1:1
N = 307; Tail 0%, C1 100%



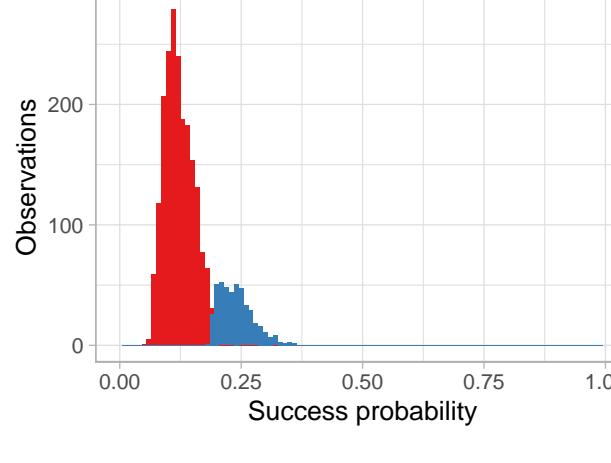
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



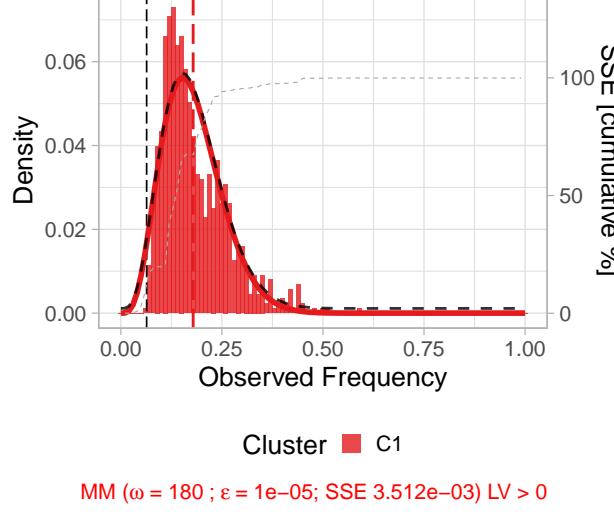
Karyotype: 2:1
N = 2437; Tail 0%, C1 22.33%, C2 77.67%



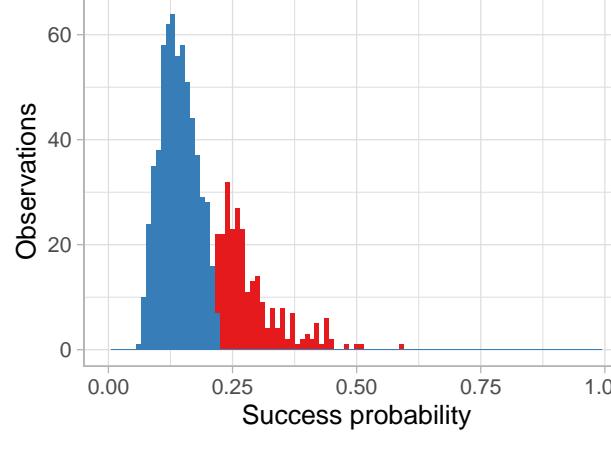
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



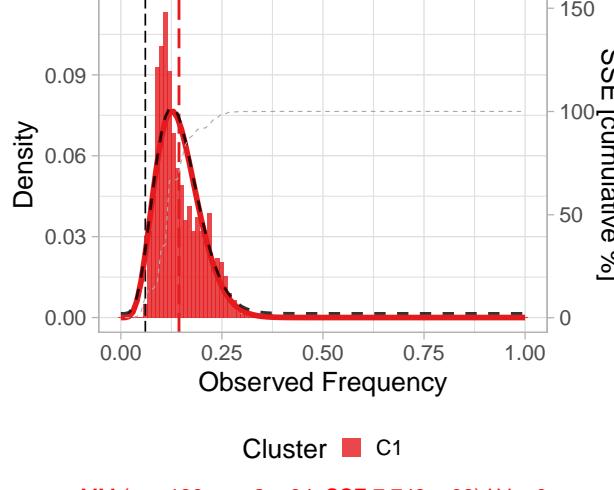
Karyotype: 2:0
N = 877; Tail 0%, C1 100%



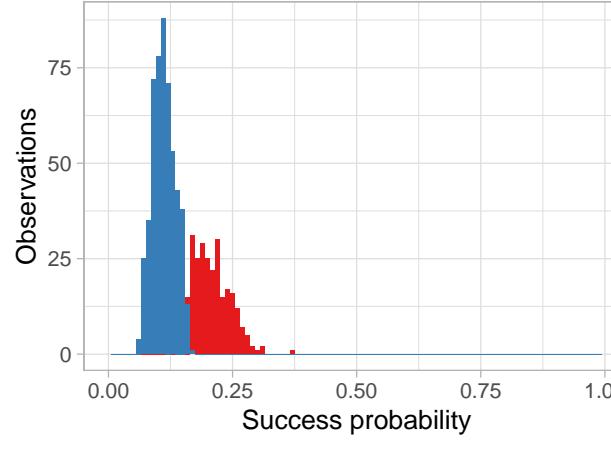
Karyotype: 2:0
 $K_B = 2$, $K_{BB} = 0$



Karyotype: 2:2
N = 776; Tail 0%, C1 100%

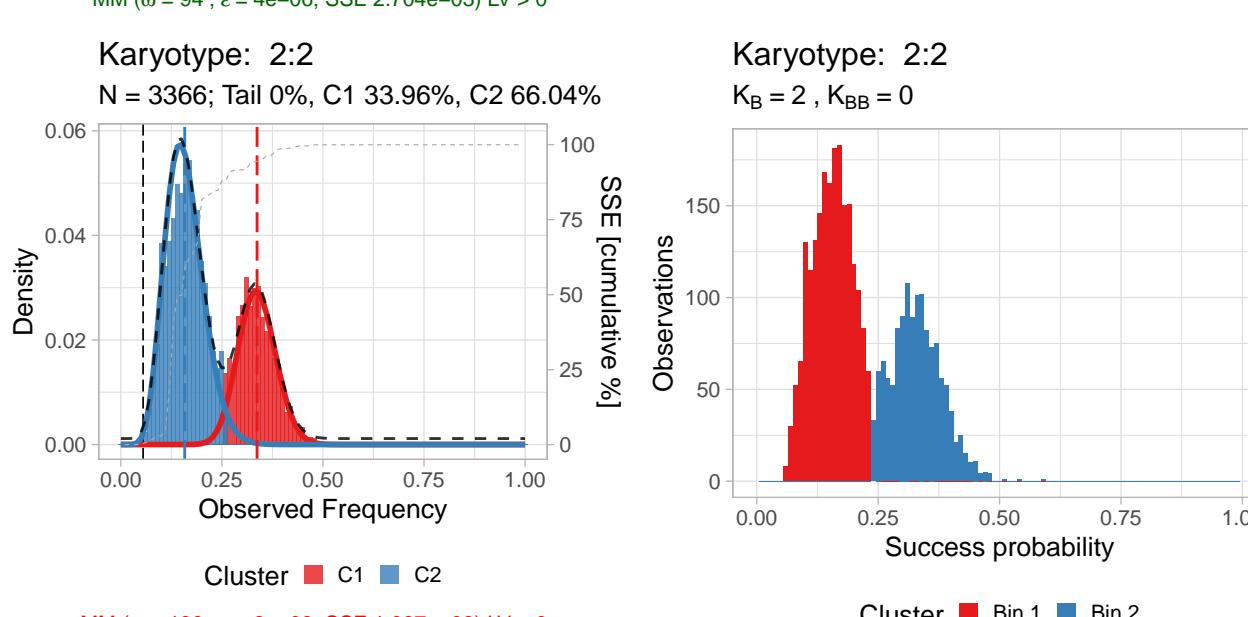
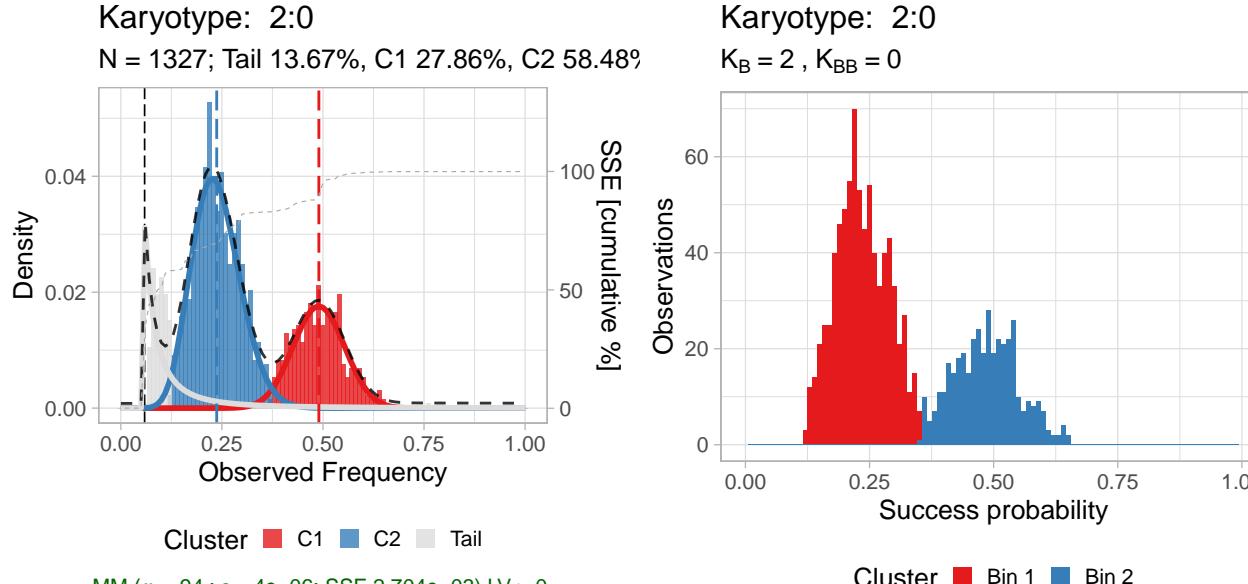
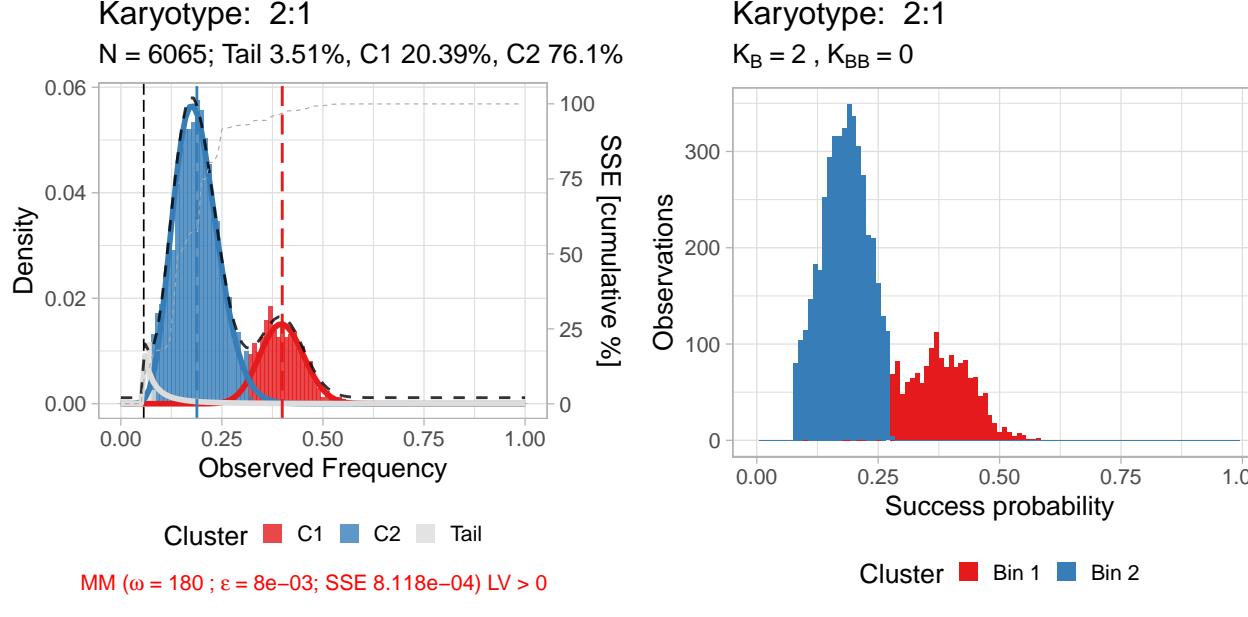
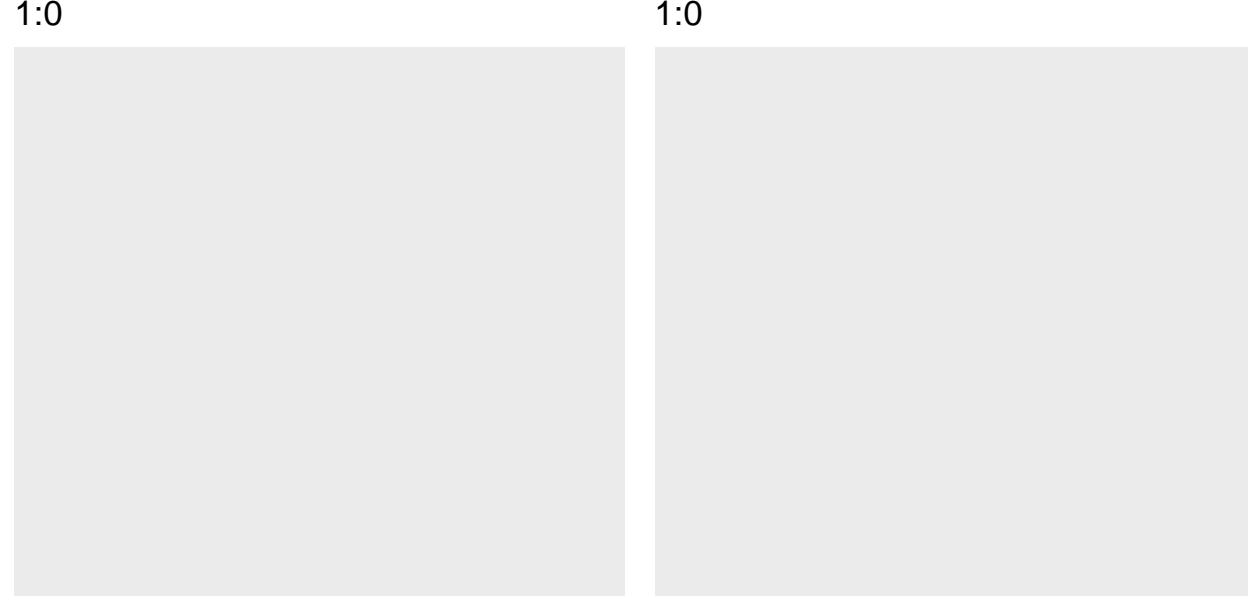


Karyotype: 2:2
 $K_B = 2$, $K_{BB} = 0$



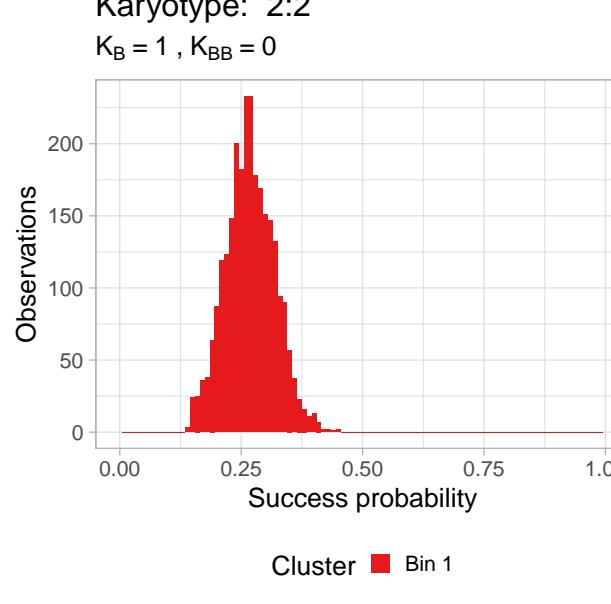
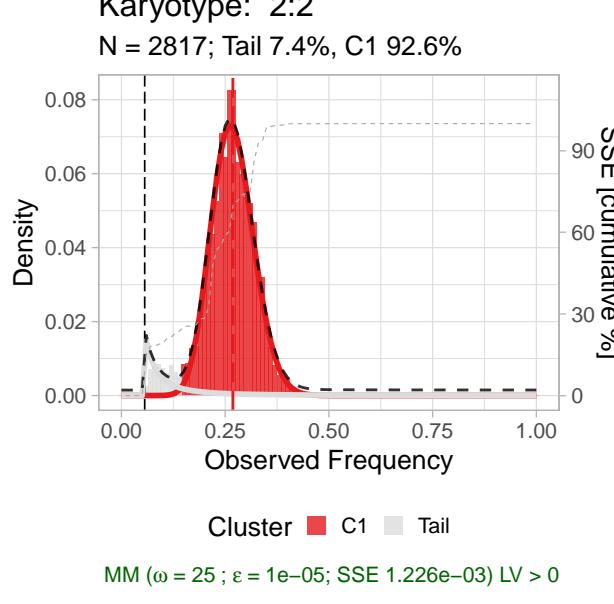
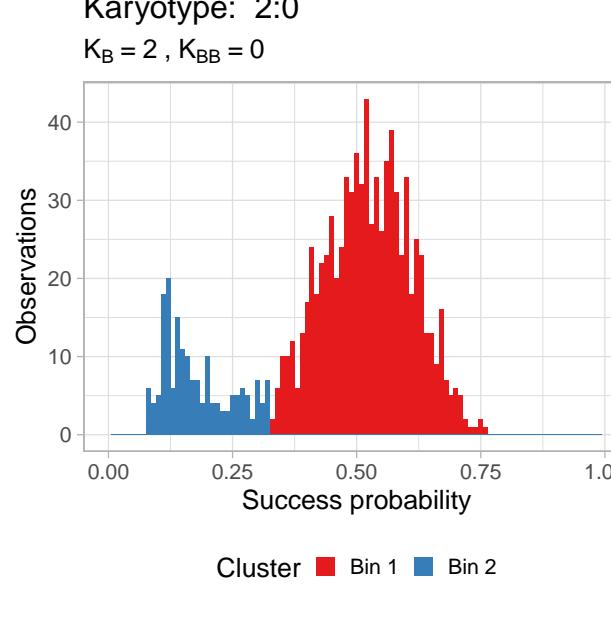
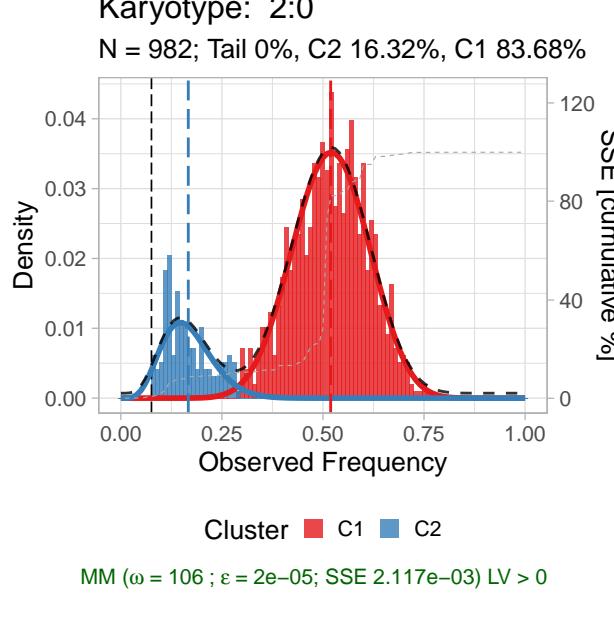
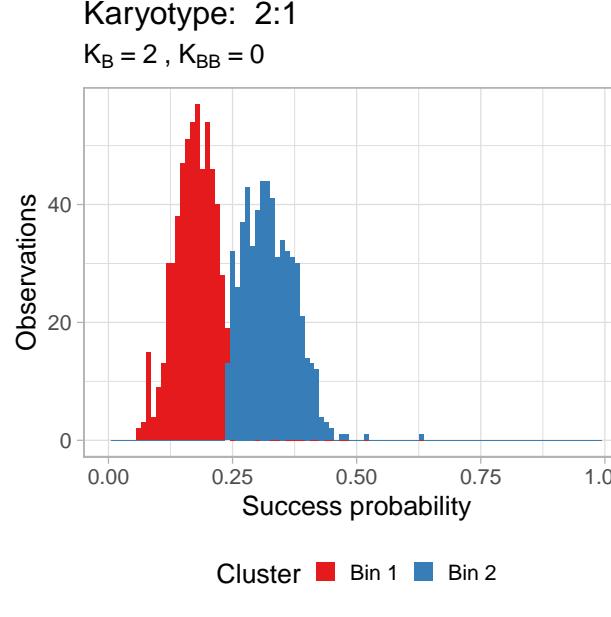
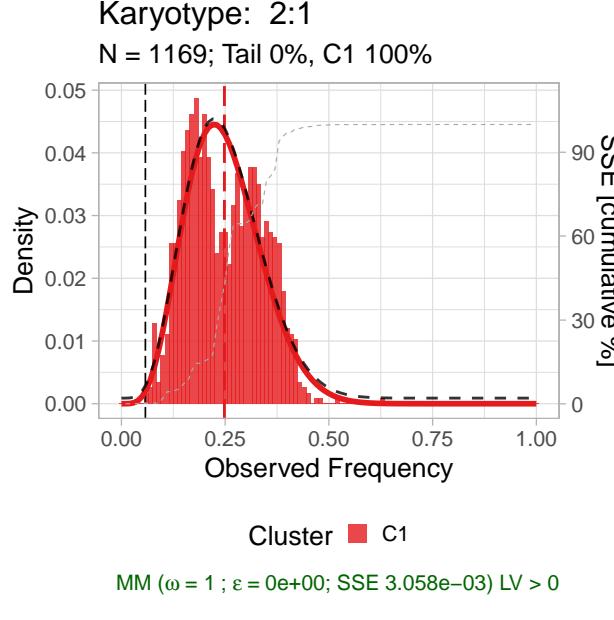
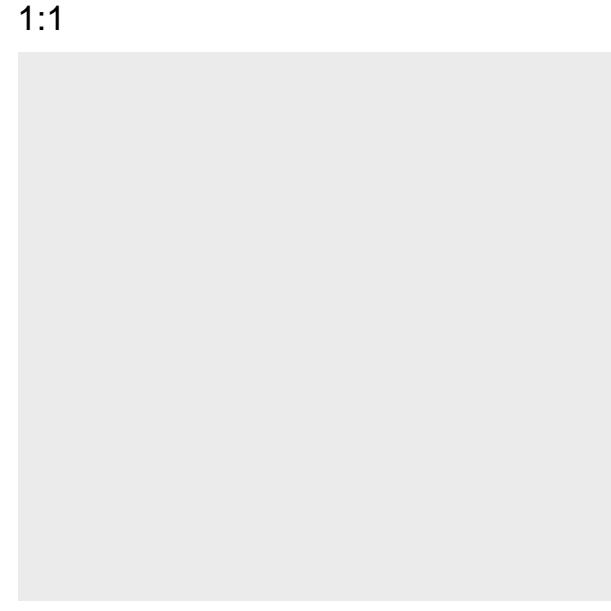
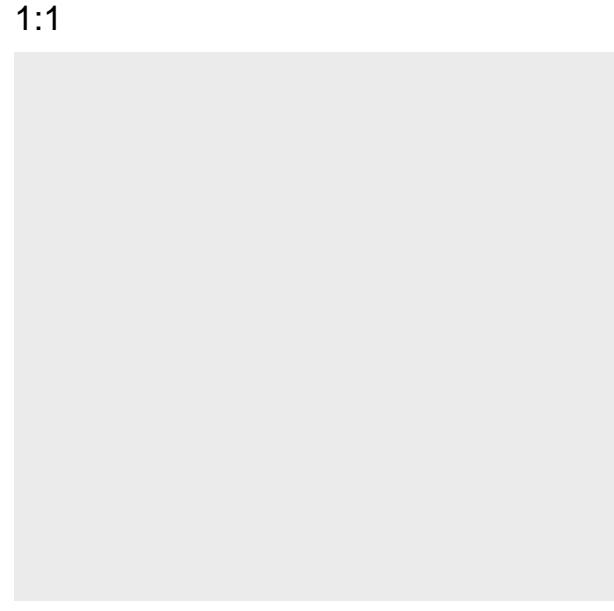
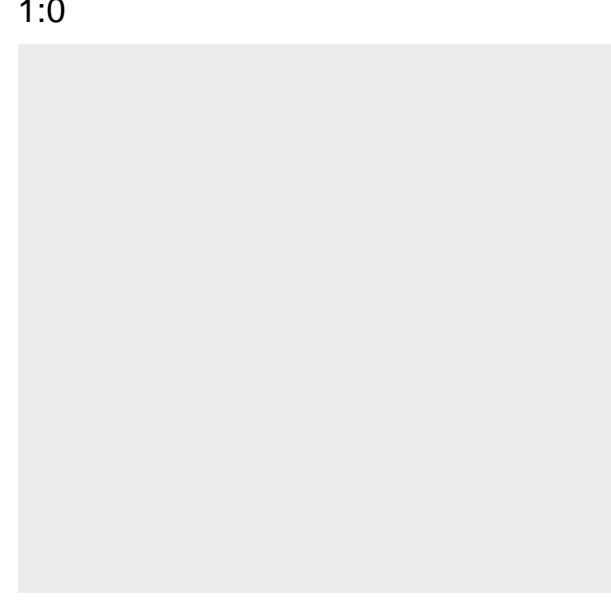
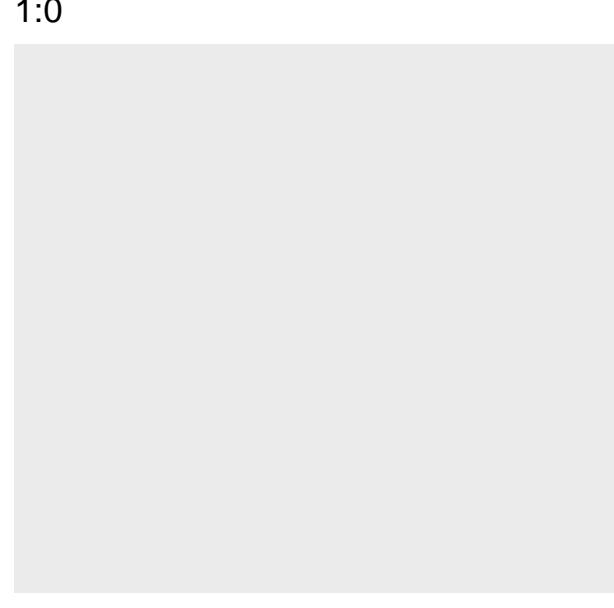
190128_HMFregCPCT_FR17046962_FR17046979_CPCT02011028

ONLY SNVs (min 150 – max 50000)



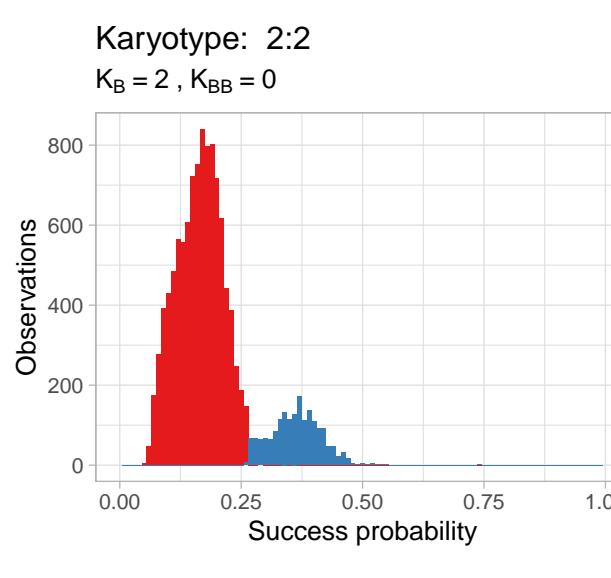
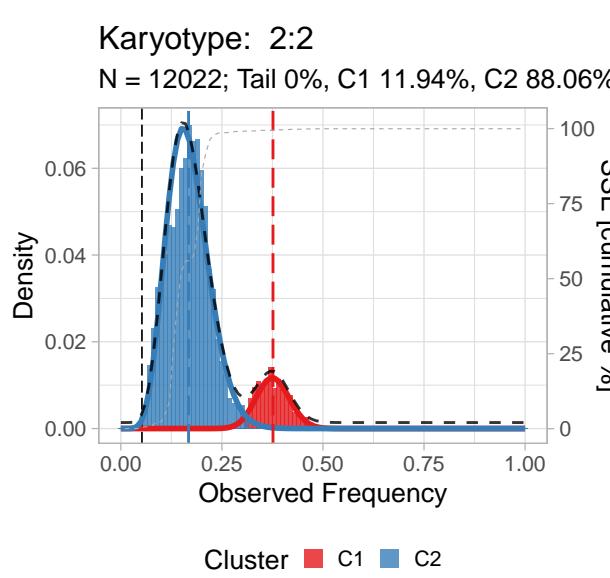
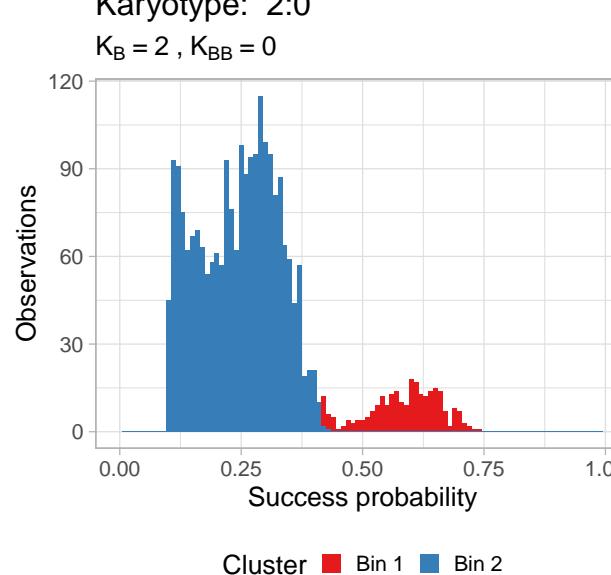
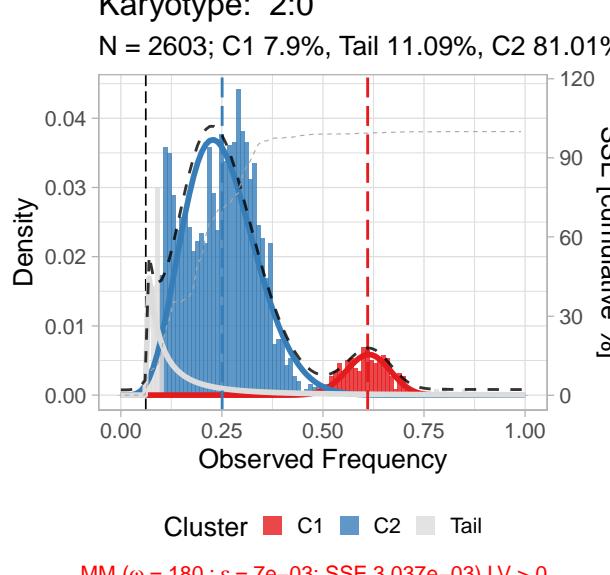
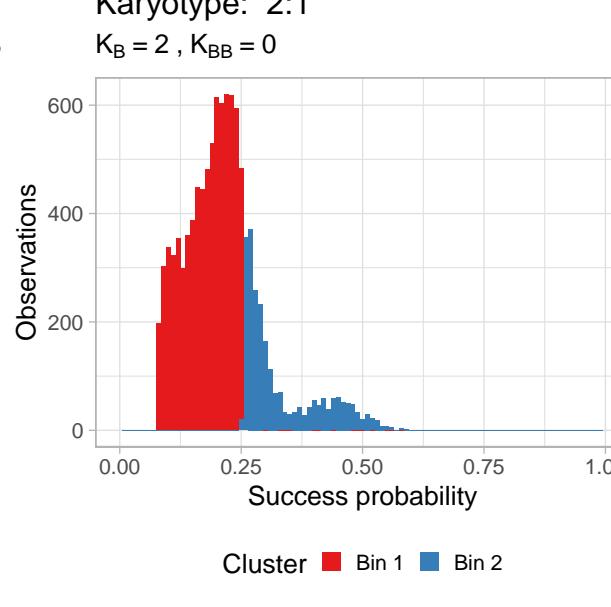
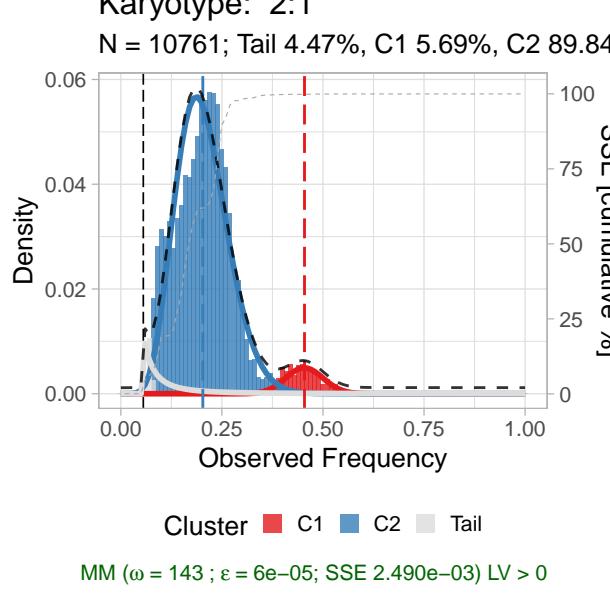
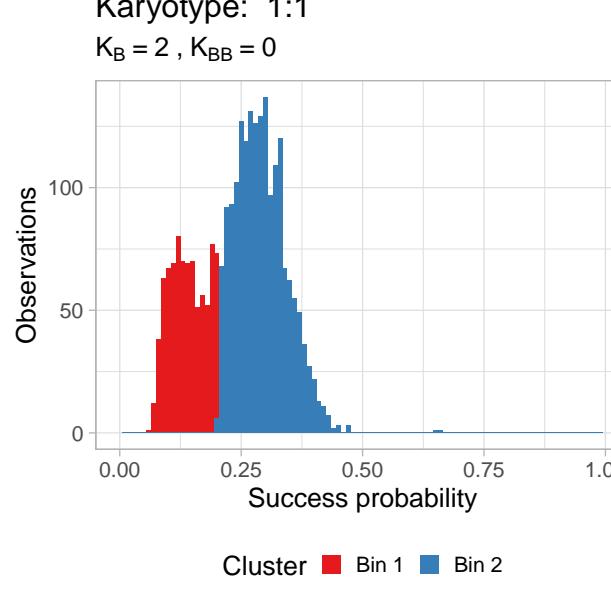
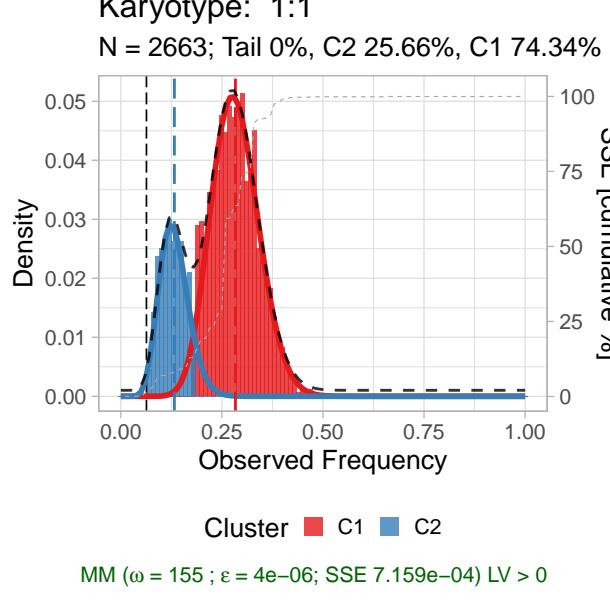
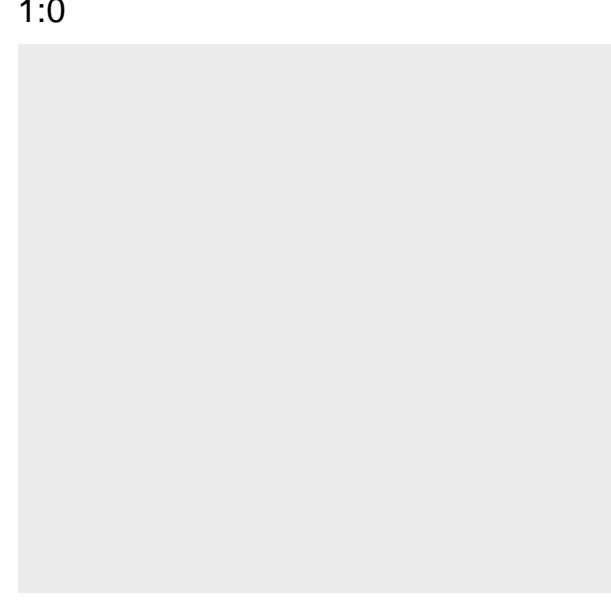
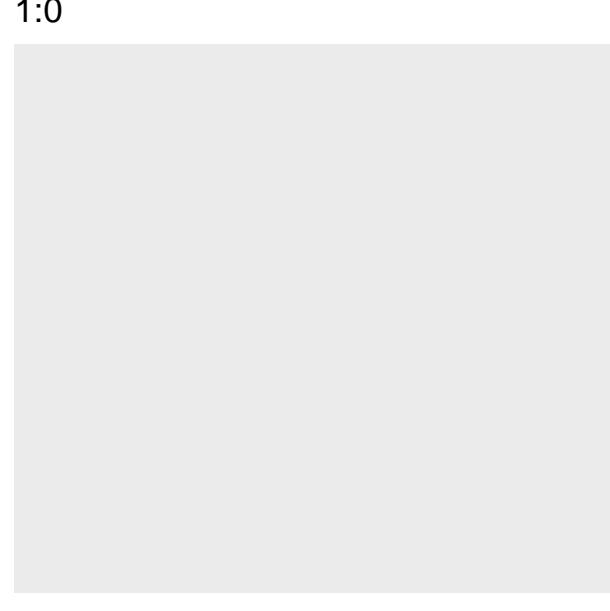
190208_HMFregCPCT_FR17452754_FR17498903_CPCT02120180

ONLY SNVs (min 150 – max 50000)



190209_HMFregCPCT_FR17046926_FR17498925_CPCT02020894

ONLY SNVs (min 150 – max 50000)

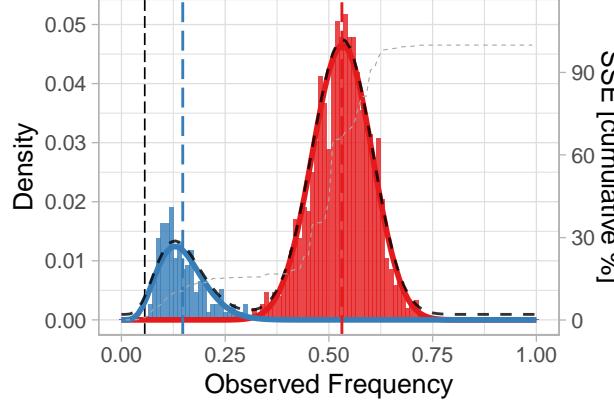


190209_HMFregCPCT_FR17046960_FR17498926_CPCT02020895

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

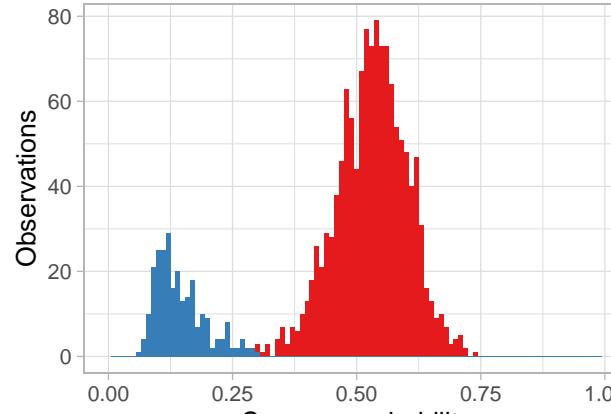
N = 1526; Tail 0%, C2 16.87%, C1 83.13%



MM ($\omega = 113$; $\epsilon = 1e-05$; SSE 1.216e-03) LV > 0

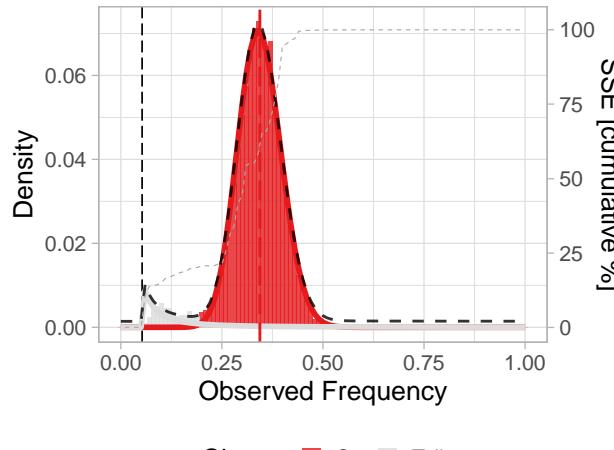
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



Karyotype: 1:1

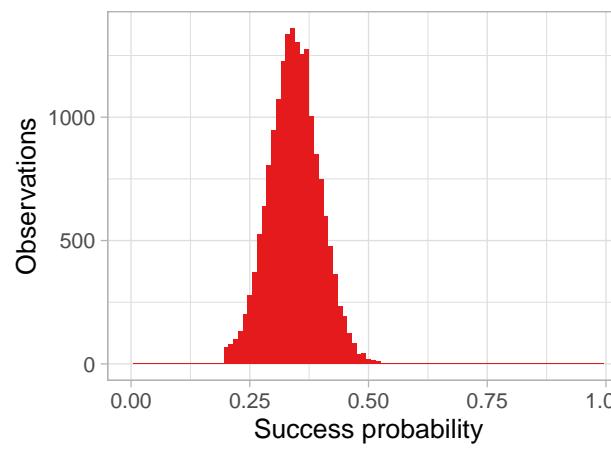
N = 18696; Tail 5.85%, C1 94.15%



MM ($\omega = 16$; $\epsilon = 5e-05$; SSE 6.587e-04) LV > 0

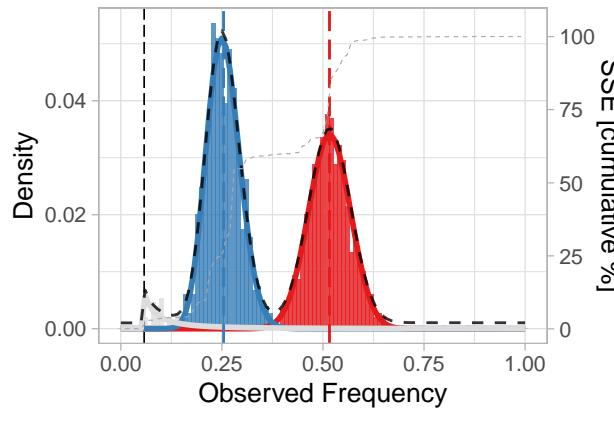
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

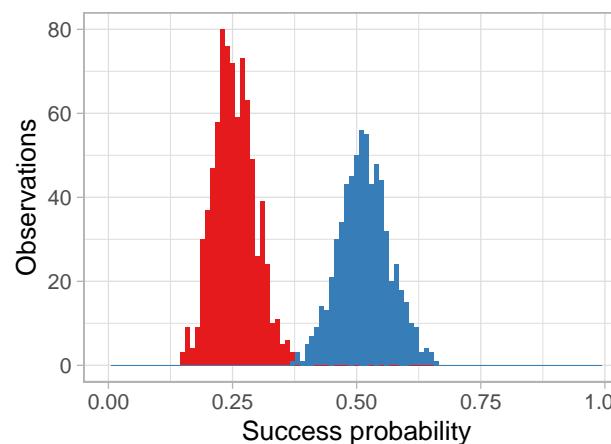
N = 1491; Tail 3.35%, C1 44.08%, C2 52.58%



MM ($\omega = 29$; $\epsilon = 3e-07$; SSE 1.092e-03) LV > 0

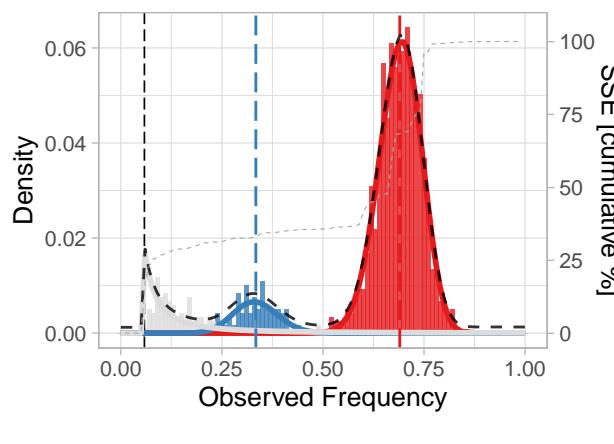
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

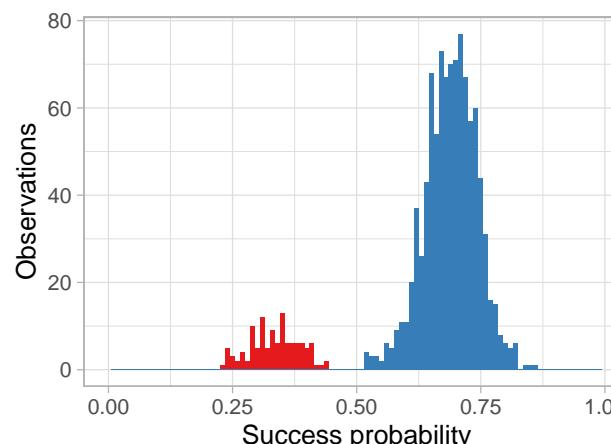
N = 1197; C2 8.94%, Tail 9.92%, C1 81.14%



MM ($\omega = 142$; $\epsilon = 5e-06$; SSE 1.393e-03) LV > 0

Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Cluster Bin 2

Cluster Bin 1 Bin 2

2:2

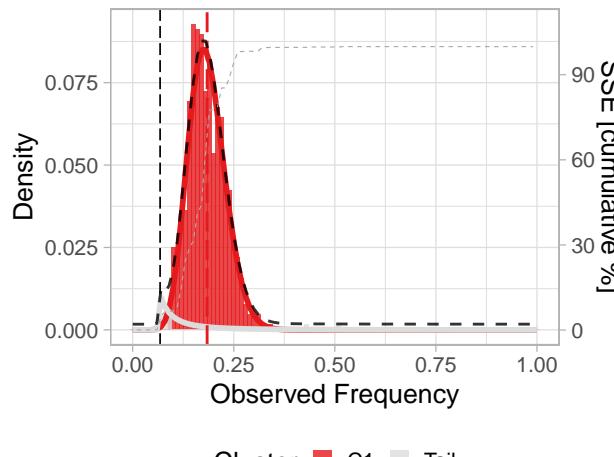


190214_HMFregCPCT_FR16800516_FR17035018_CPCT02330133

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

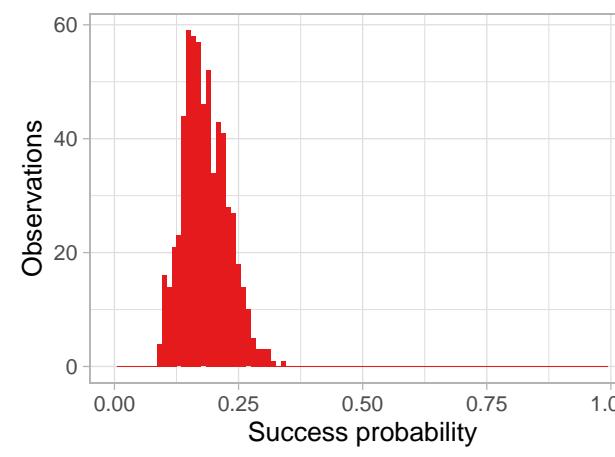
N = 636; Tail 4.83%, C1 95.17%



MM ($\omega = 180$; $\epsilon = 2e-07$; SSE $1.704e-03$) LV > 0

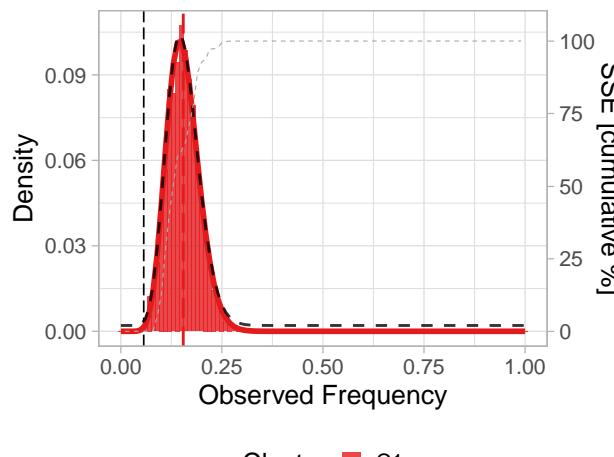
Karyotype: 1:0

$K_B = 1, K_{BB} = 0$



Karyotype: 1:1

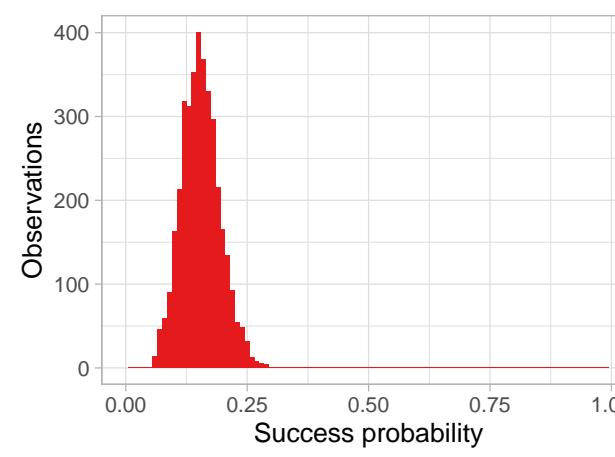
N = 3736; Tail 0%, C1 100%



MM ($\omega = 1$; $\epsilon = 0e+00$; SSE $1.172e-03$) LV > 0

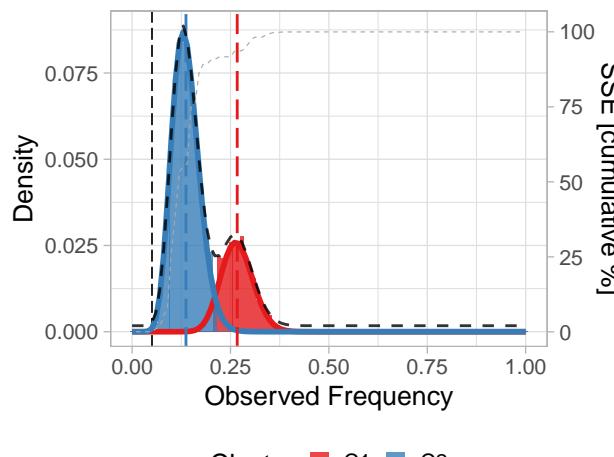
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



Karyotype: 2:1

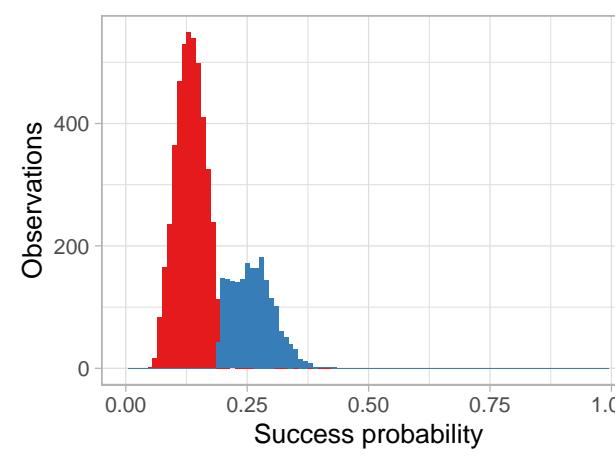
N = 6572; Tail 0%, C1 26.14%, C2 73.86%



MM ($\omega = 180$; $\epsilon = 1e-04$; SSE $7.346e-04$) LV > 0

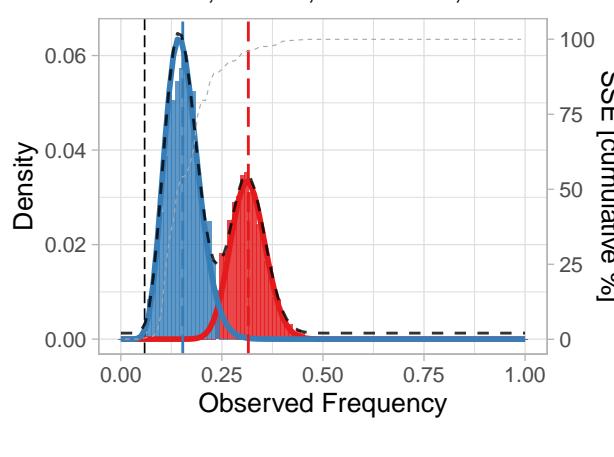
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



Karyotype: 2:0

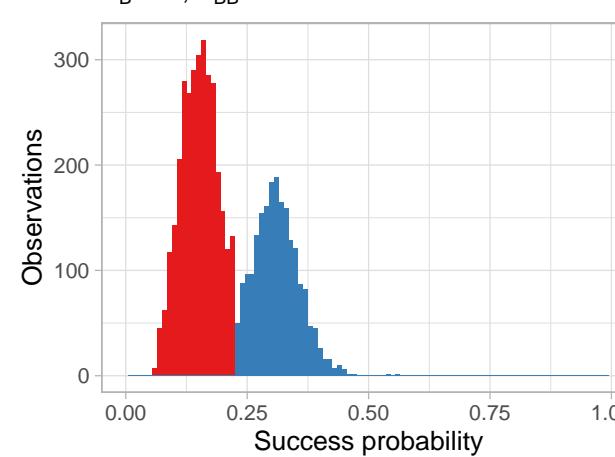
N = 5314; Tail 0%, C1 35.44%, C2 64.56%



MM ($\omega = 180$; $\epsilon = 1e-02$; SSE $7.566e-04$) LV > 0

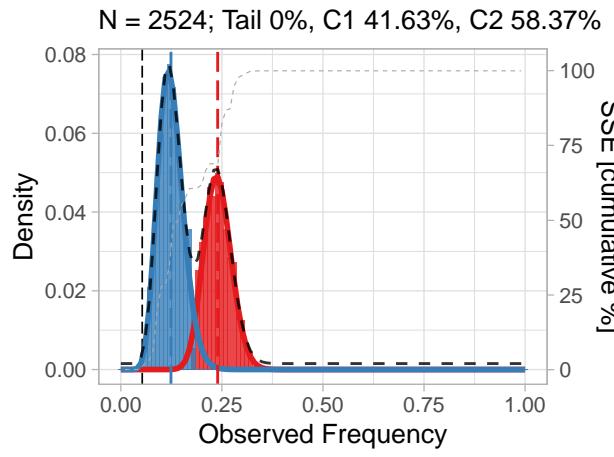
Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



Karyotype: 2:2

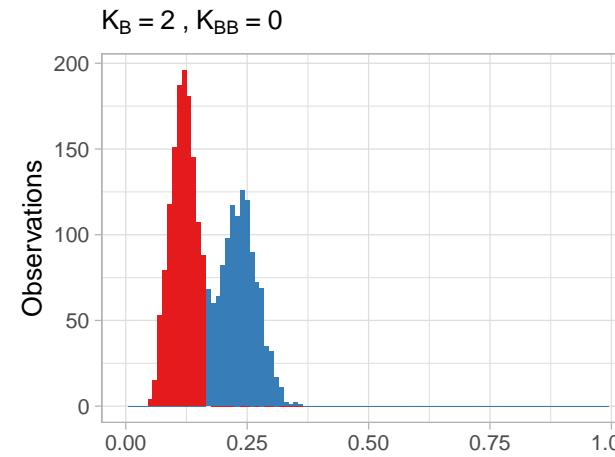
N = 2524; Tail 0%, C1 41.63%, C2 58.37%



MM ($\omega = 180$; $\epsilon = 1e-04$; SSE $7.209e-04$) LV > 0

Karyotype: 2:2

$K_B = 2, K_{BB} = 0$

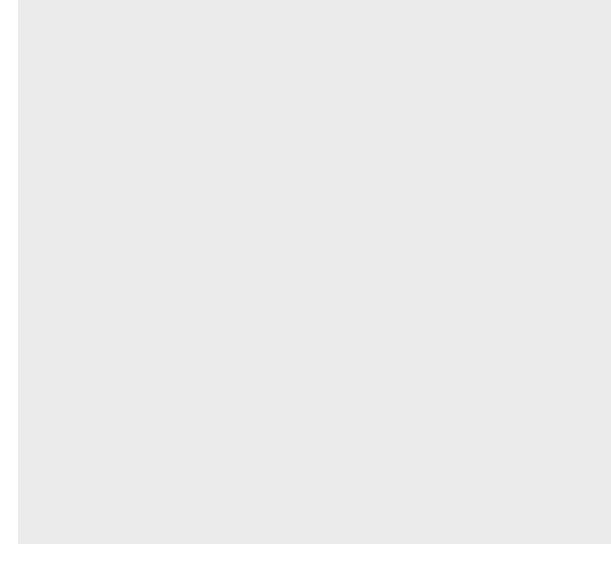
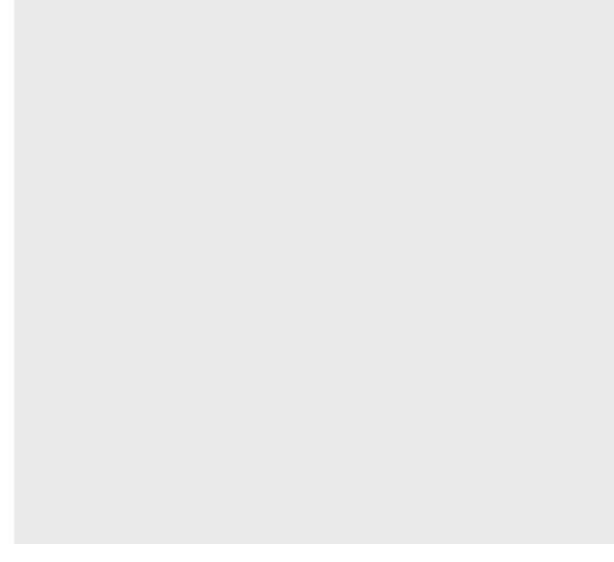


190219_HMFregCPCT_FR16800468_FR17035074_CPCT02050427

ONLY SNVs (min 150 – max 50000)

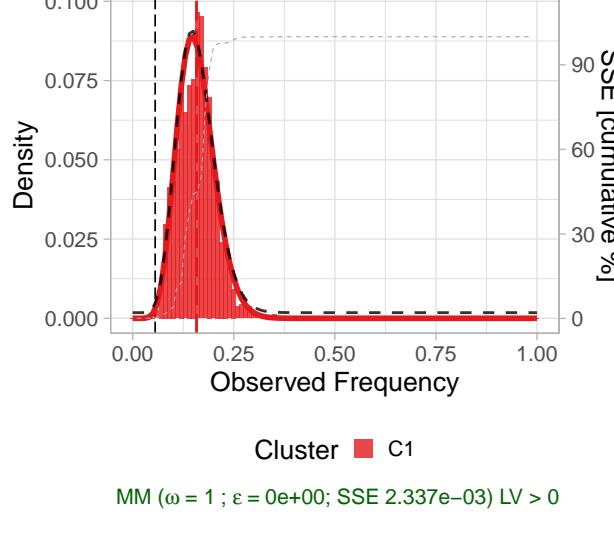
1:0

1:0



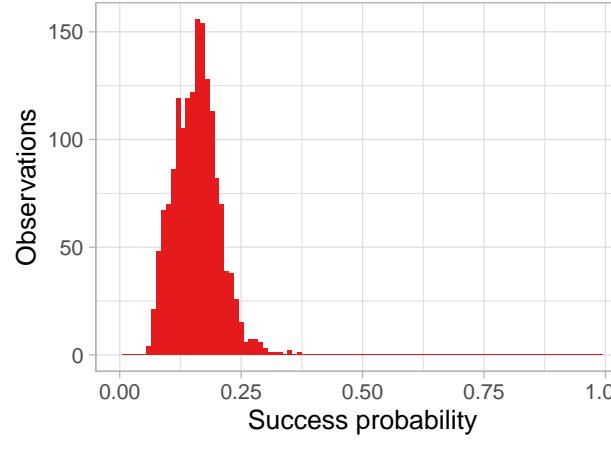
Karyotype: 1:1

N = 1617; Tail 0%, C1 100%



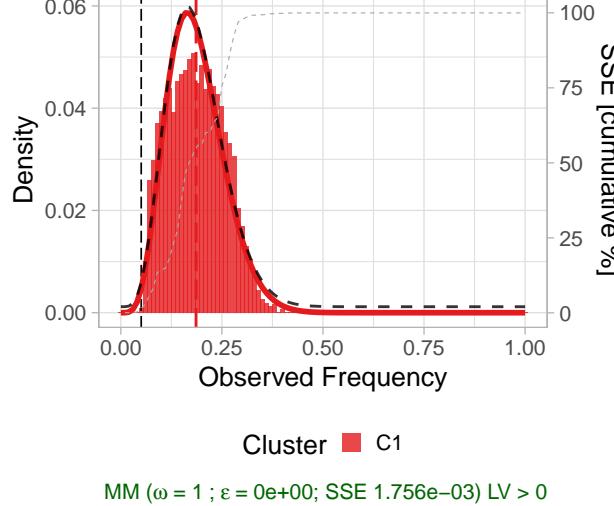
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



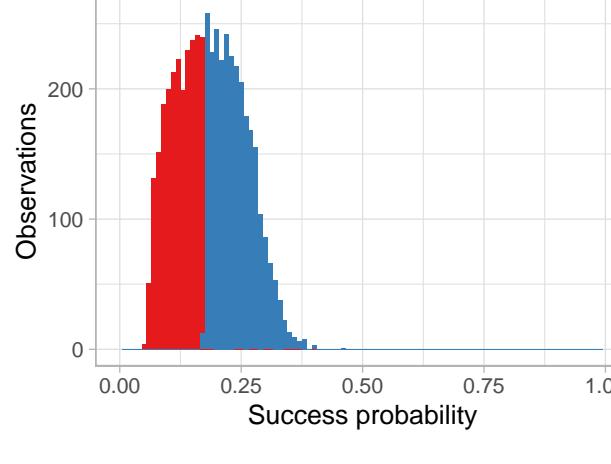
Karyotype: 2:1

N = 5074; Tail 0%, C1 100%



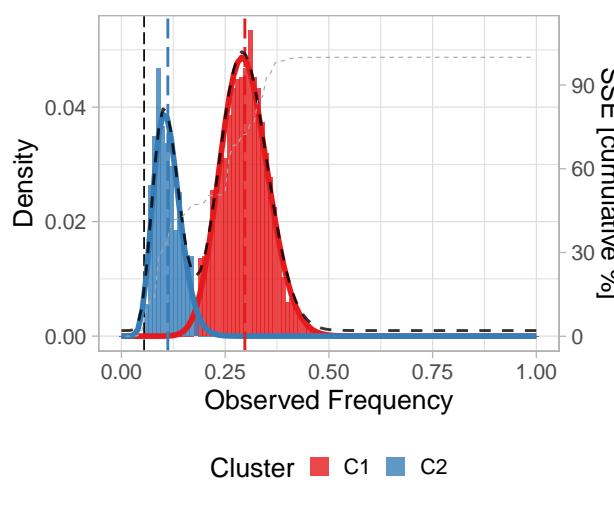
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



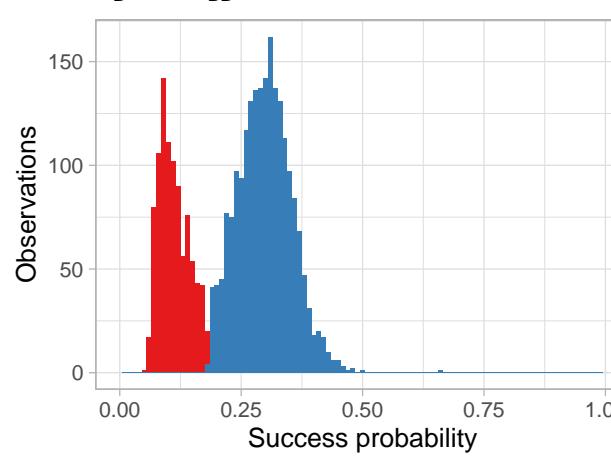
Karyotype: 2:0

N = 3033; Tail 0%, C2 30.72%, C1 69.28%



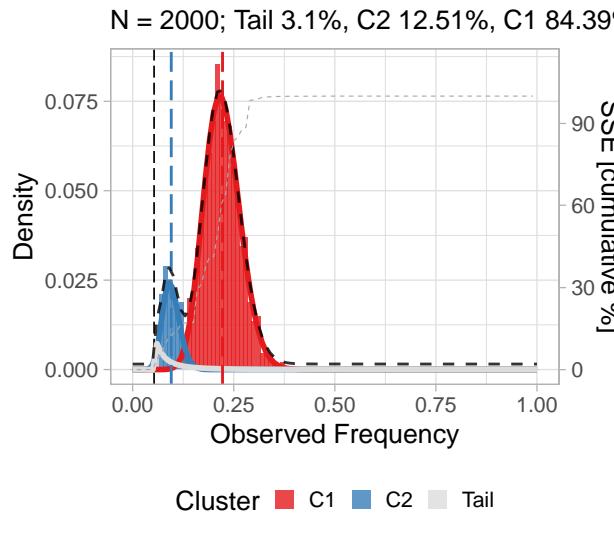
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



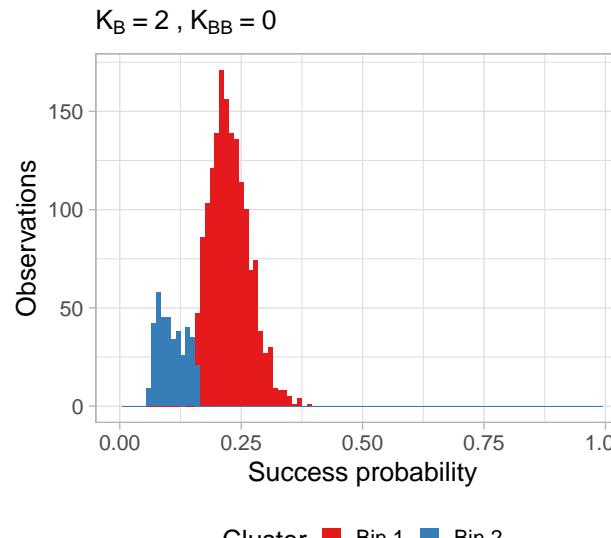
Karyotype: 2:2

N = 2000; Tail 3.1%, C2 12.51%, C1 84.39%



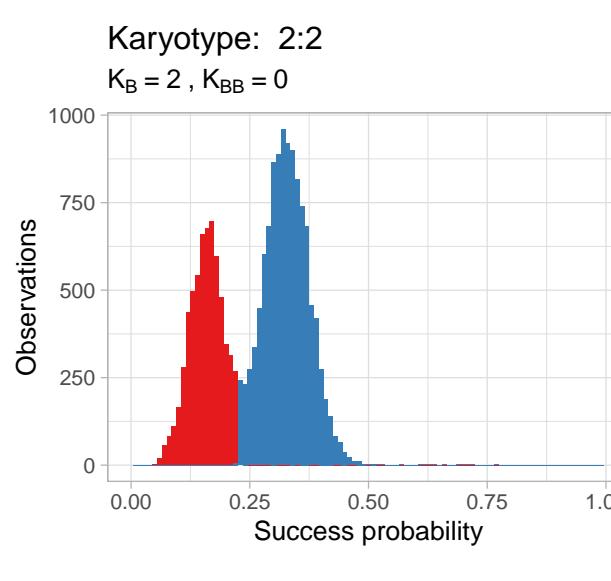
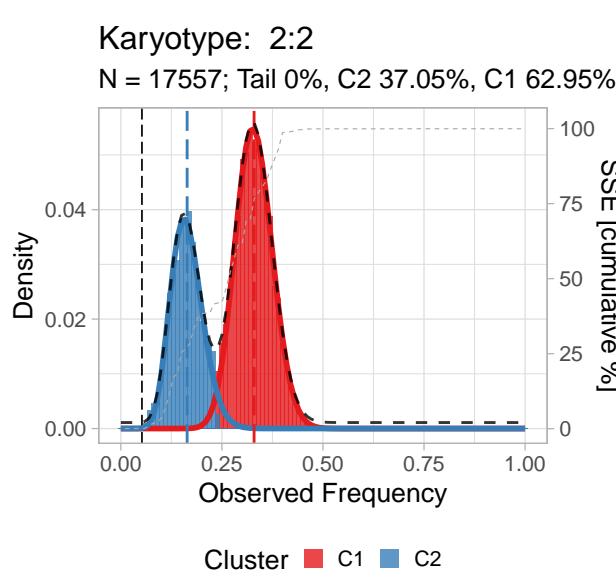
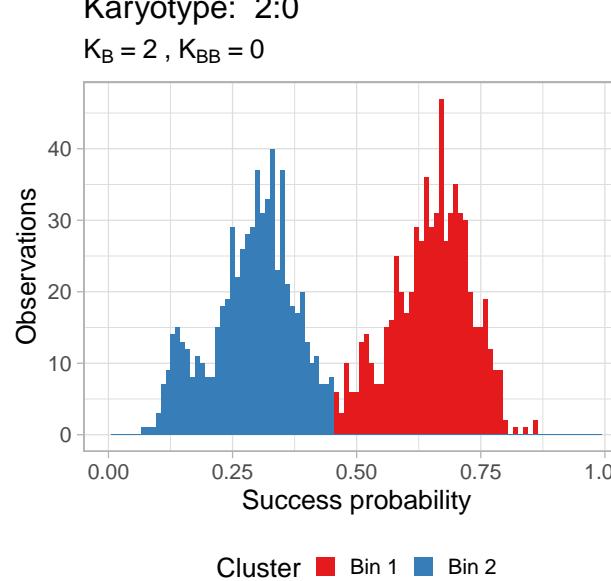
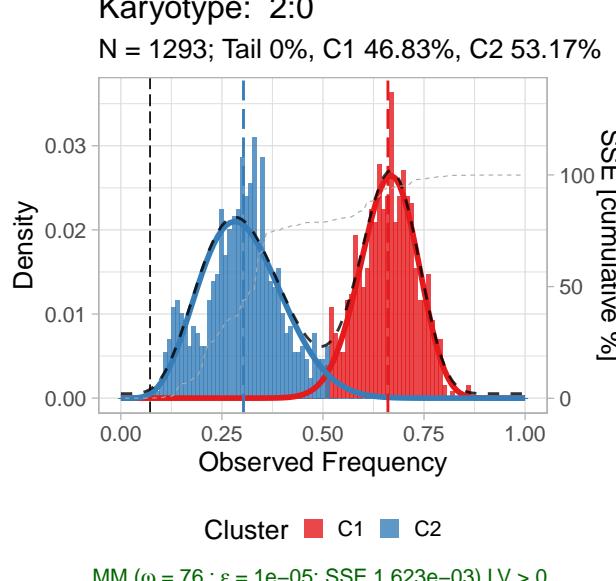
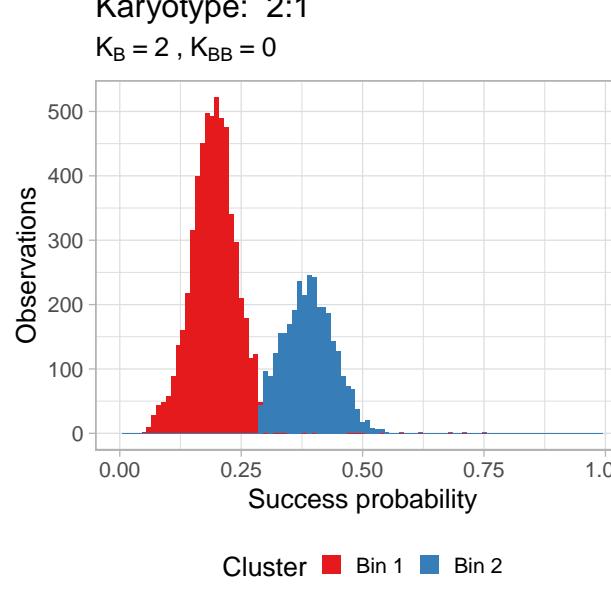
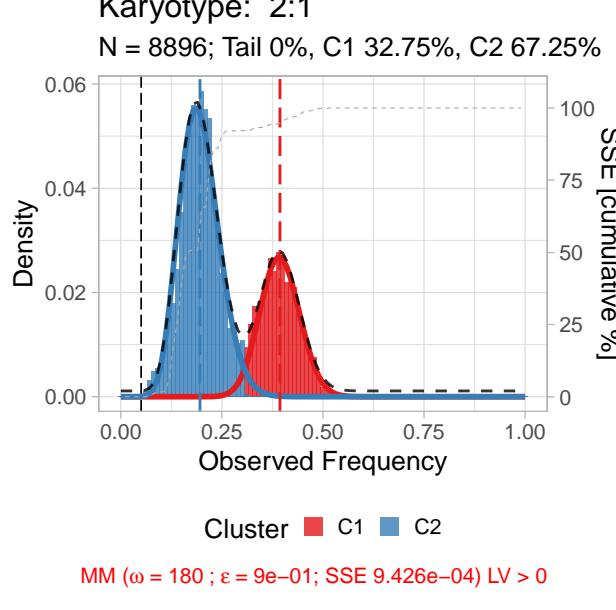
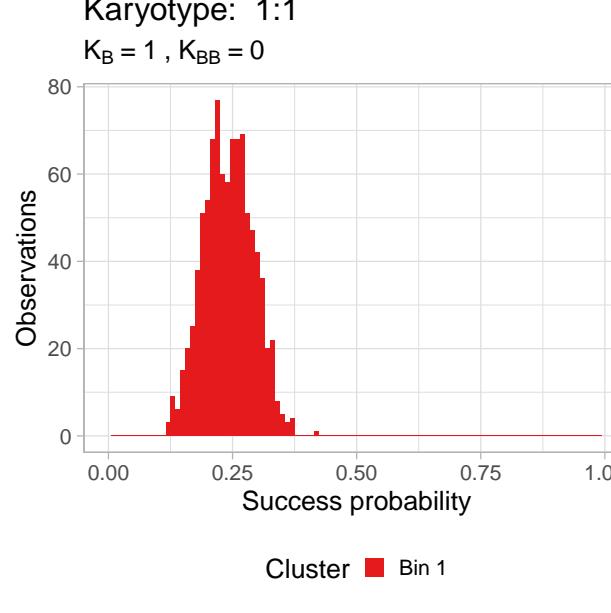
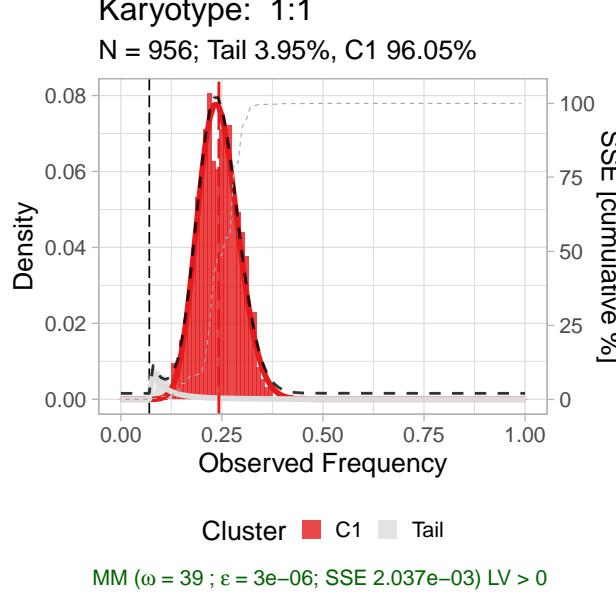
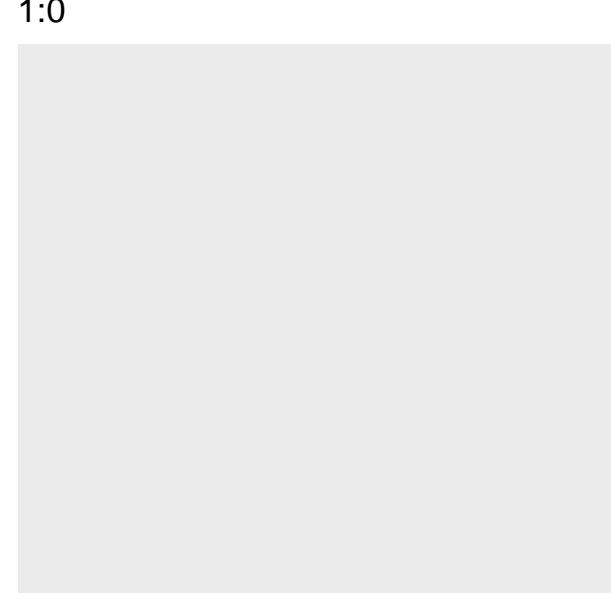
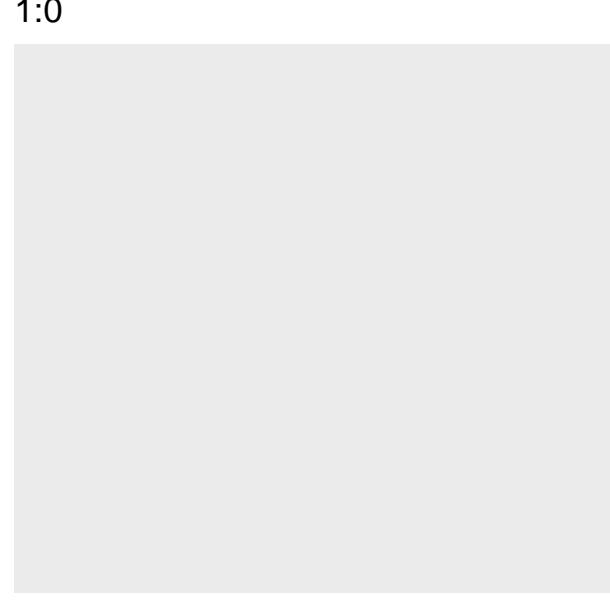
Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$



190222_HMFregCPCT_FR16800475_FR16800570_CPCT02020902

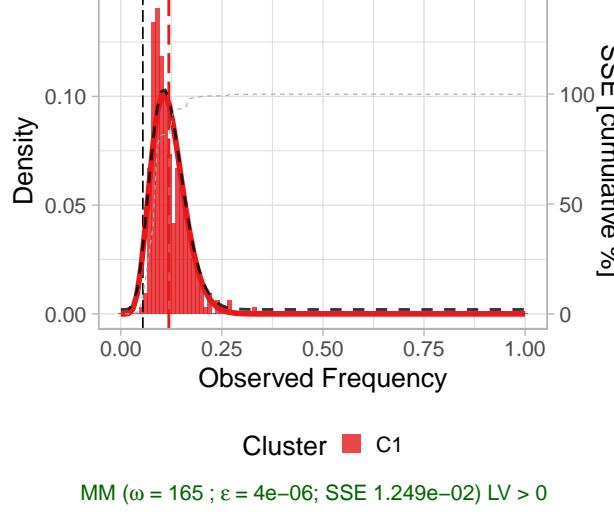
ONLY SNVs (min 150 – max 50000)



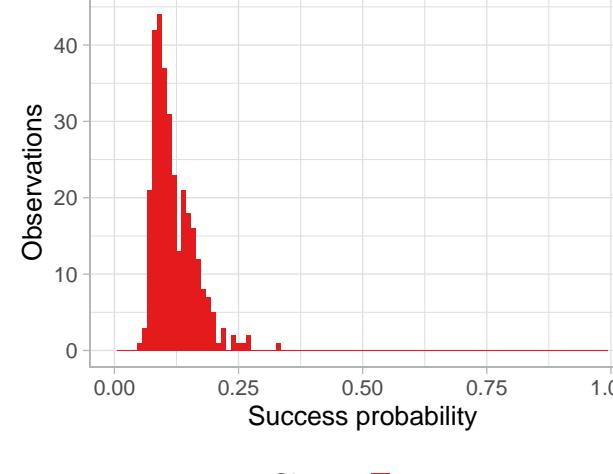
190301_HMFregCPCT_FR17498933_FR17499081_CPCT02011053

ONLY SNVs (min 150 – max 50000)

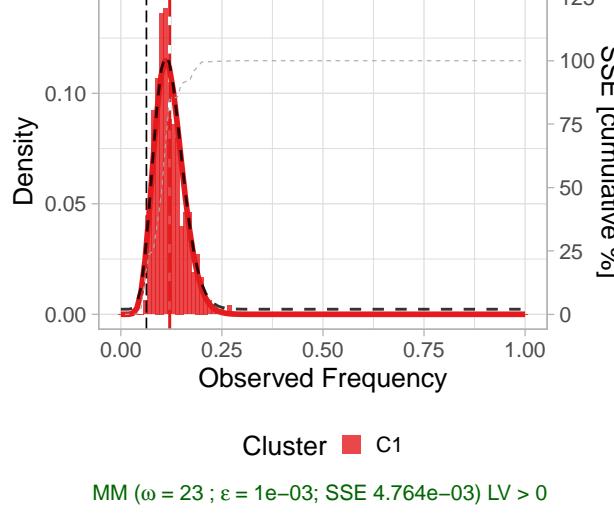
Karyotype: 1:0
N = 313; Tail 0%, C1 100%



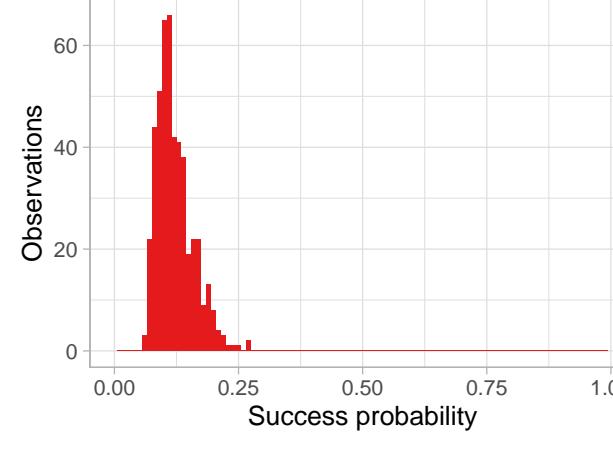
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



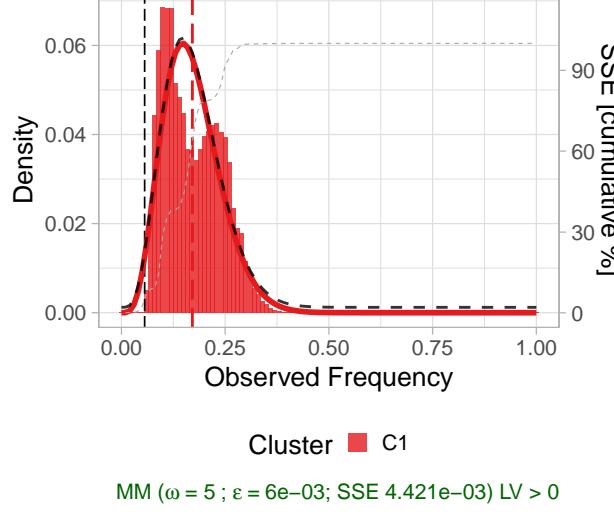
Karyotype: 1:1
N = 477; Tail 0%, C1 100%



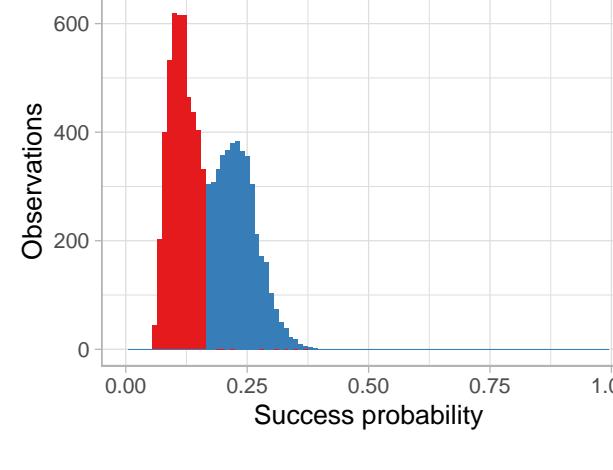
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



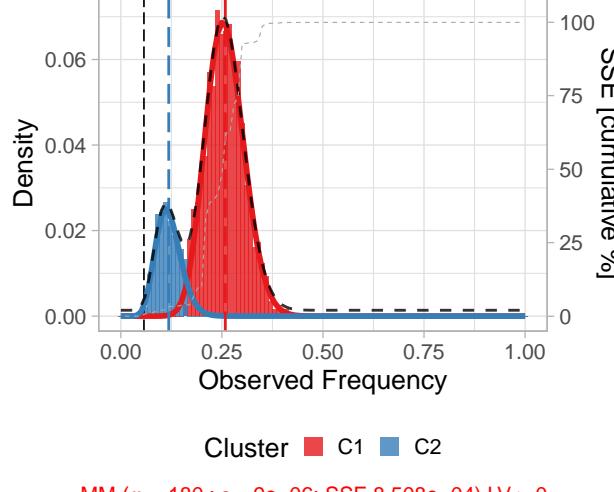
Karyotype: 2:1
N = 9018; Tail 0%, C1 100%



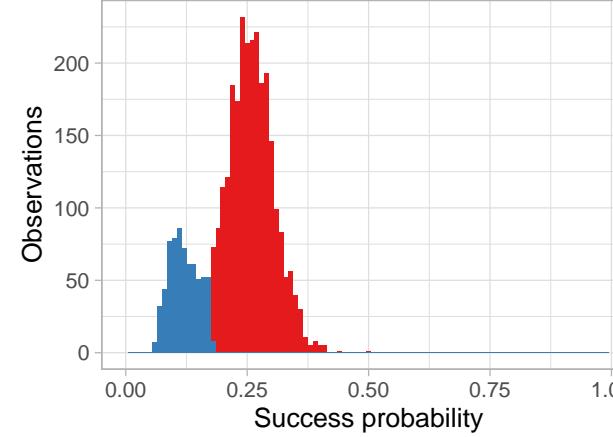
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



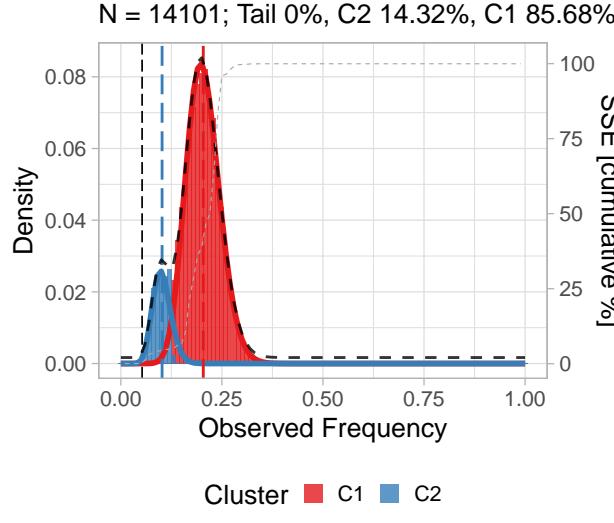
Karyotype: 2:0
N = 3245; Tail 0%, C2 19.05%, C1 80.95%



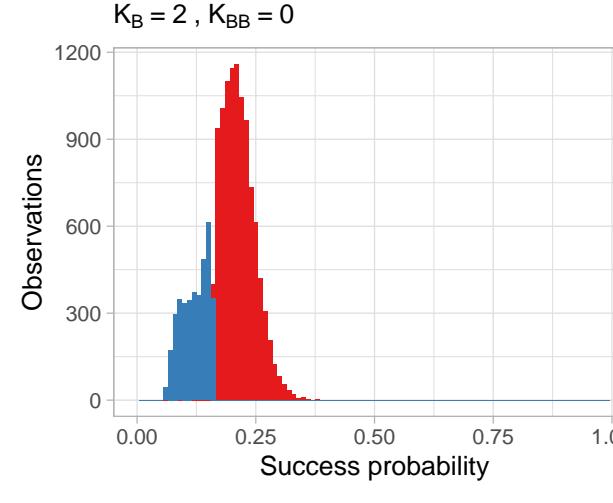
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 14101; Tail 0%, C2 14.32%, C1 85.68%



Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$

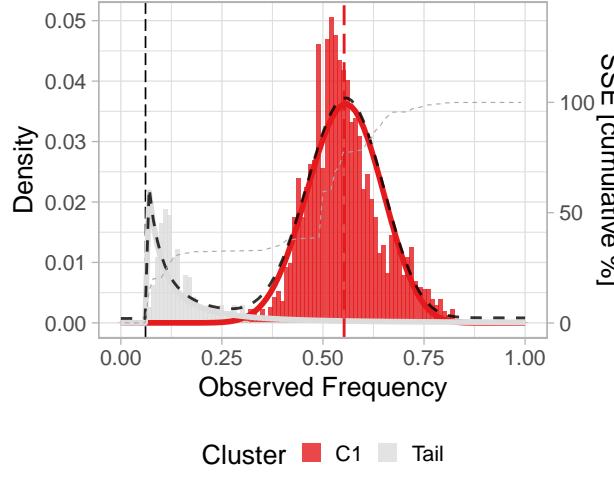


190308_HMFregCPCT_FR17034996_FR16799761_CPCT02020915

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

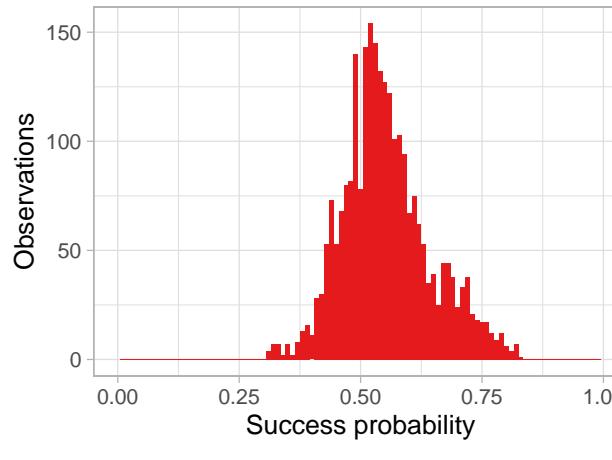
N = 3044; Tail 16.7%, C1 83.3%



MM ($\omega = 18$; $\epsilon = 2e-05$; SSE 2.910e-03) LV > 0

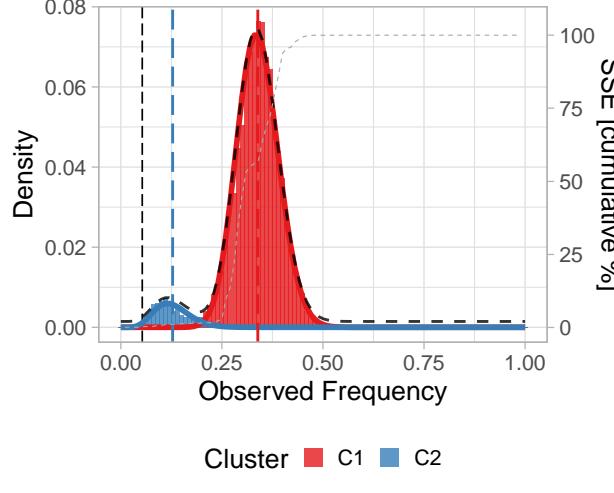
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



Karyotype: 1:1

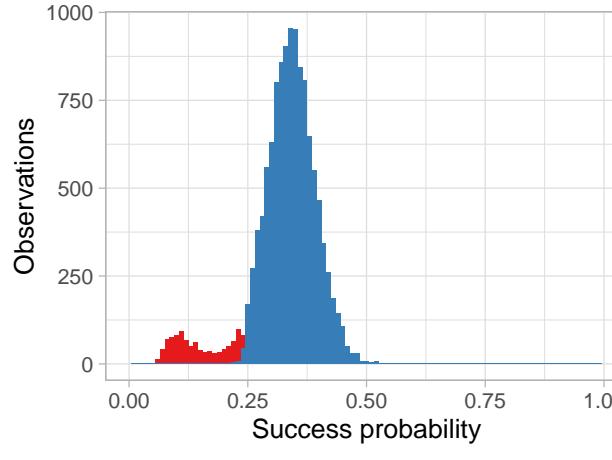
N = 12523; Tail 0%, C2 6.25%, C1 93.75%



MM ($\omega = 180$; $\epsilon = 2e-01$; SSE 7.569e-04) LV > 0

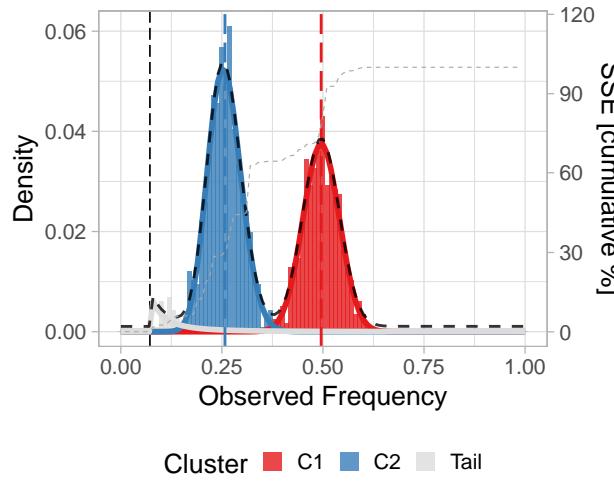
Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:1

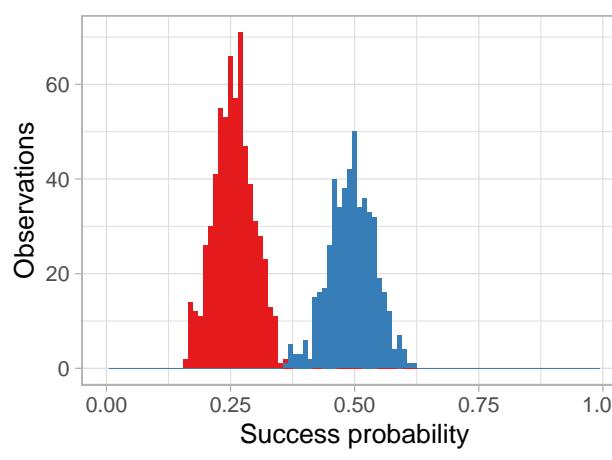
N = 1163; Tail 3.76%, C1 42.02%, C2 54.21%



MM ($\omega = 34$; $\epsilon = 1e-06$; SSE 1.064e-03) LV > 0

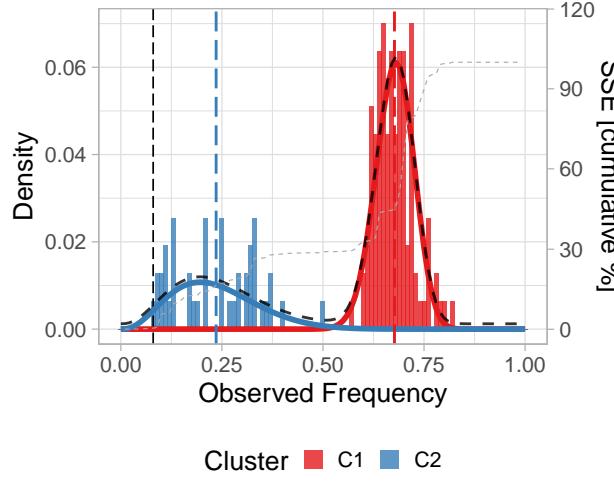
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Karyotype: 2:0

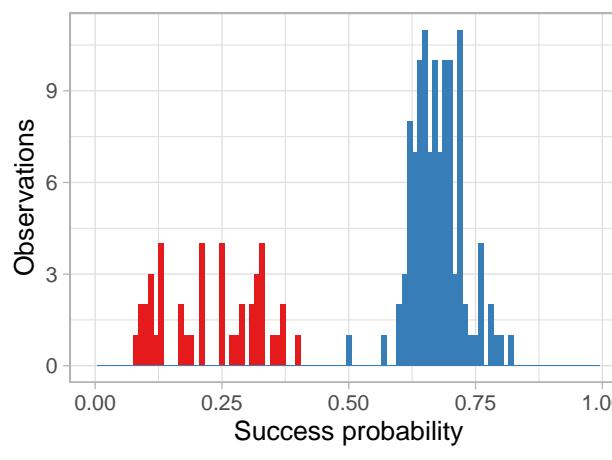
N = 157; Tail 0%, C2 28.04%, C1 71.96%



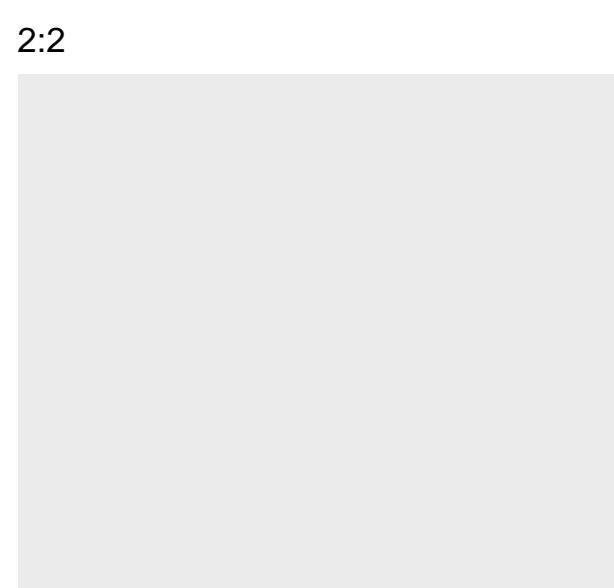
MM ($\omega = 26$; $\epsilon = 3e-06$; SSE 7.773e-03) LV > 0

Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

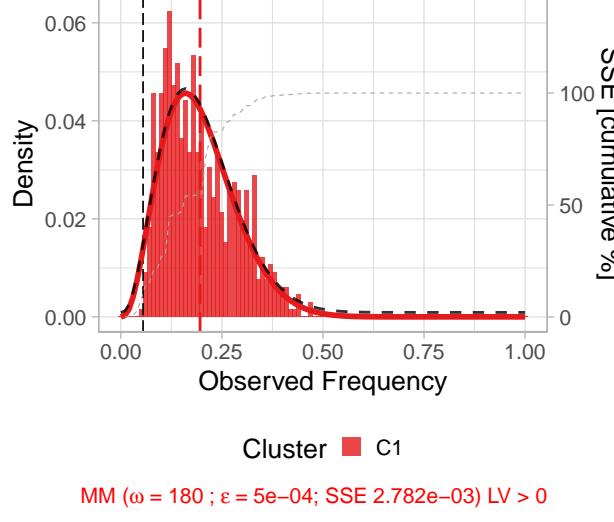


190322_HMFregCPCT_FR16800584_FR17497817_CPCT02020920

ONLY SNVs (min 150 – max 50000)

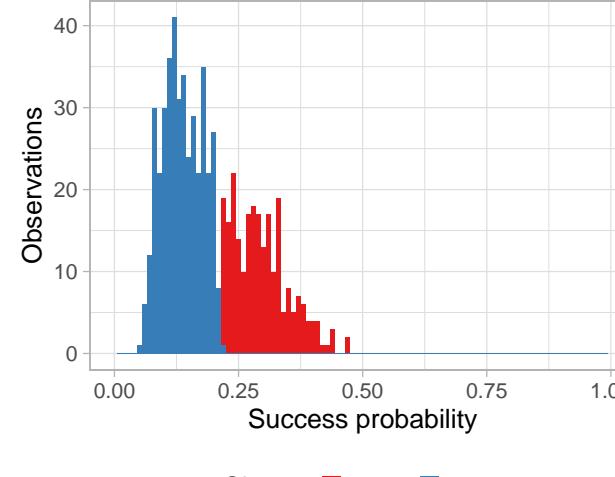
Karyotype: 1:0

N = 657; Tail 0%, C1 100%



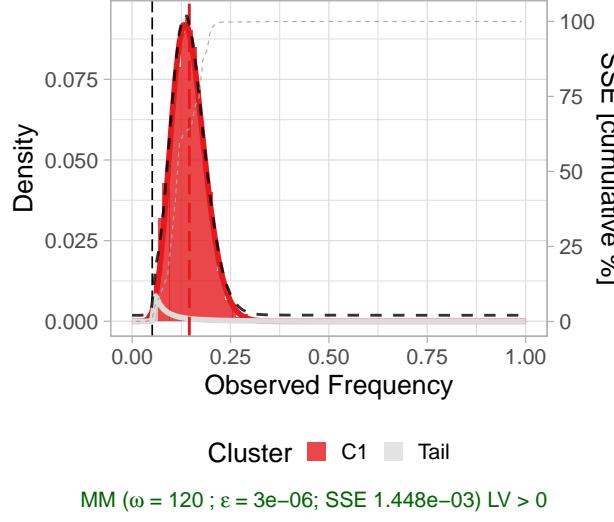
Karyotype: 1:0

$K_B = 2, K_{BB} = 0$



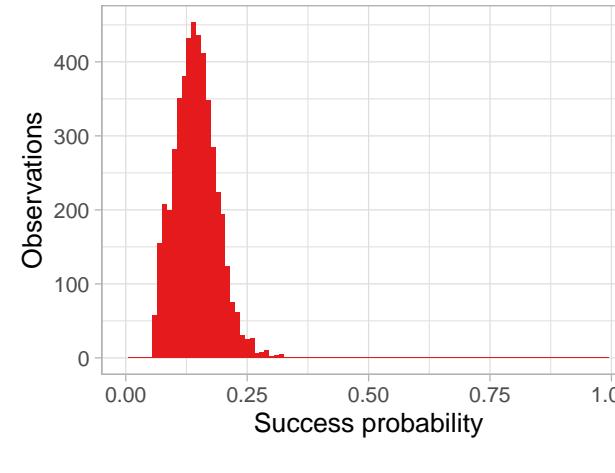
Karyotype: 1:1

N = 4838; Tail 3.85%, C1 96.15%



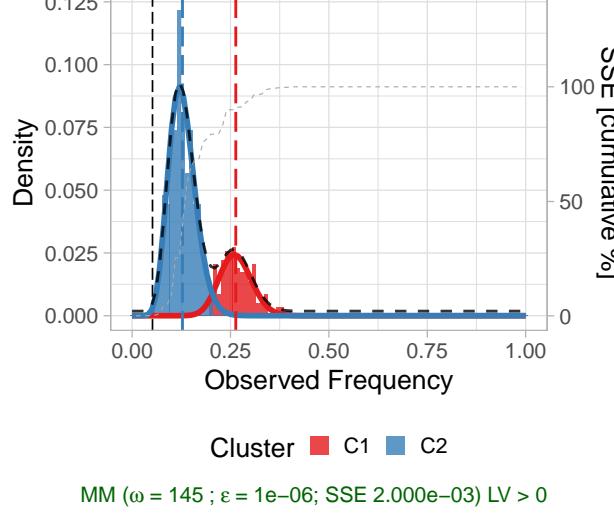
Karyotype: 1:1

$K_B = 1, K_{BB} = 0$



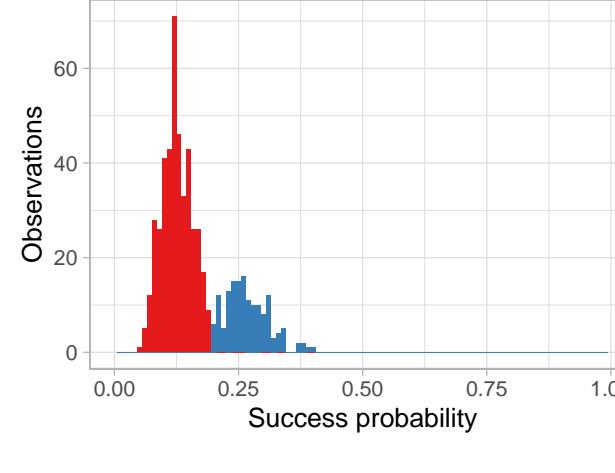
Karyotype: 2:1

N = 583; Tail 0%, C1 24.72%, C2 75.28%



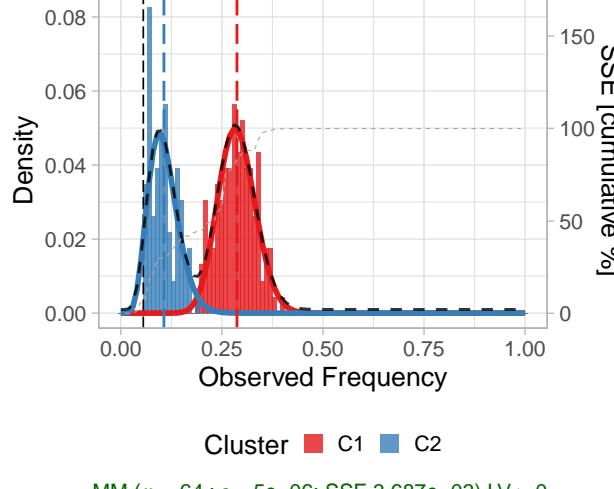
Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



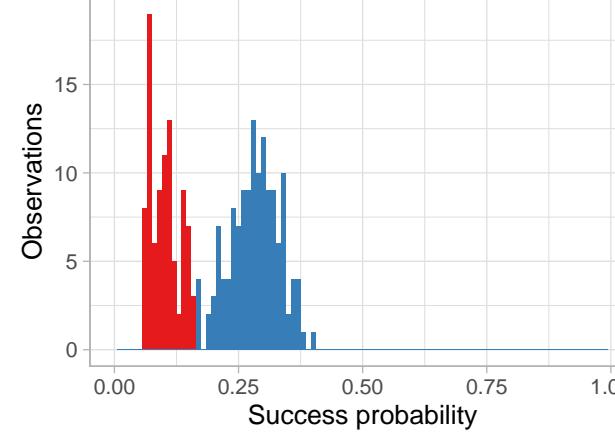
Karyotype: 2:0

N = 230; Tail 0%, C2 42.71%, C1 57.29%



Karyotype: 2:0

$K_B = 2, K_{BB} = 0$



2:2

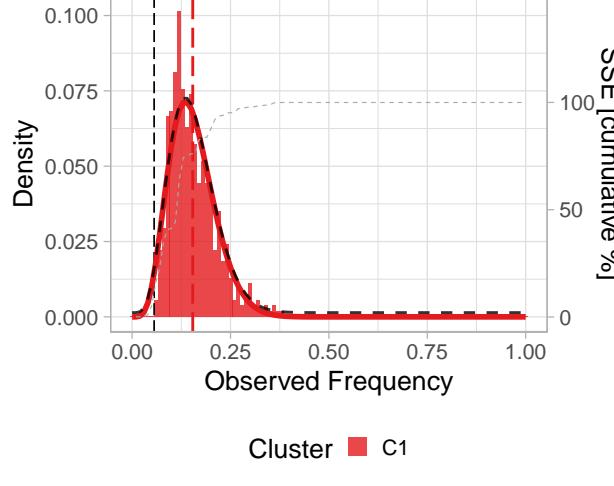
2:2

190410_HMFregCPCT_FR17035144_FR16672475_CPCT02011072

ONLY SNVs (min 150 – max 50000)

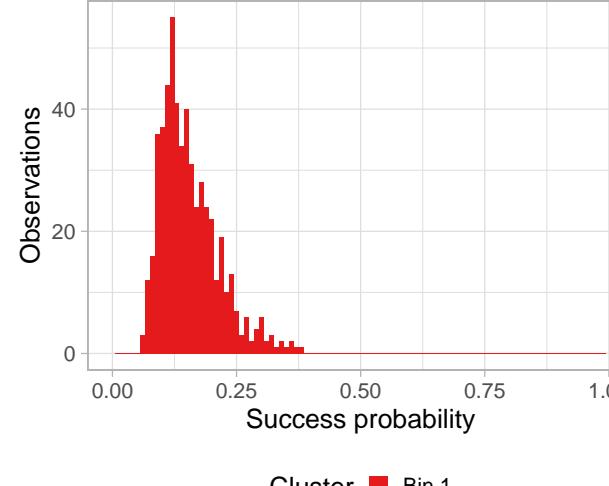
Karyotype: 1:0

N = 542; Tail 0%, C1 100%



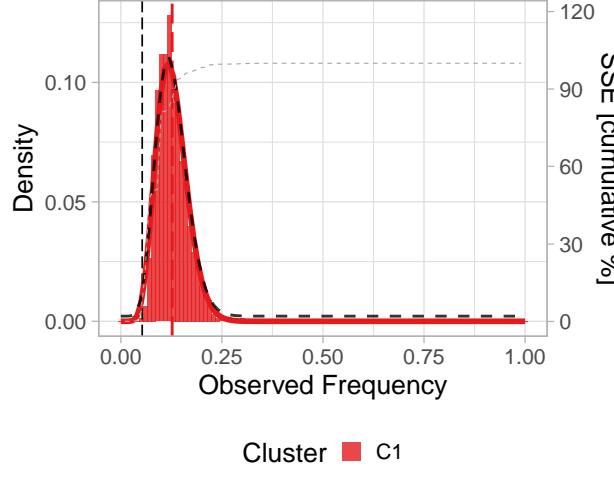
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



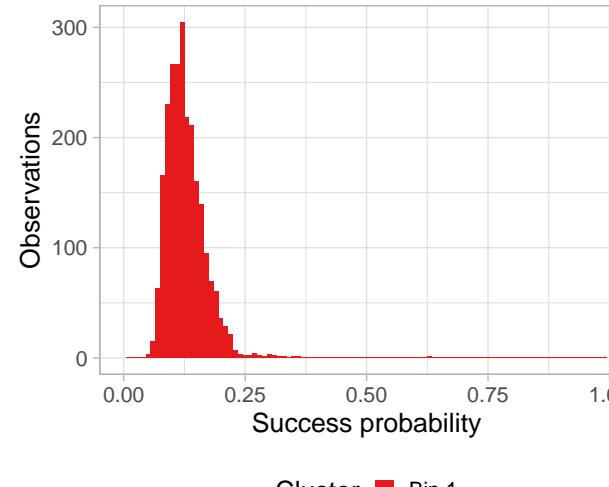
Karyotype: 1:1

N = 2383; Tail 0%, C1 100%



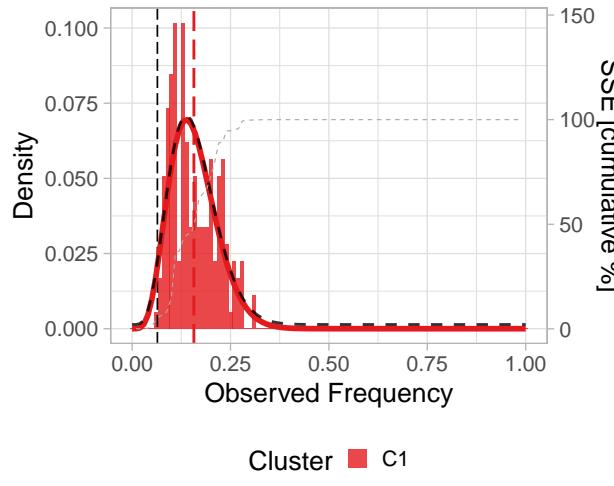
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



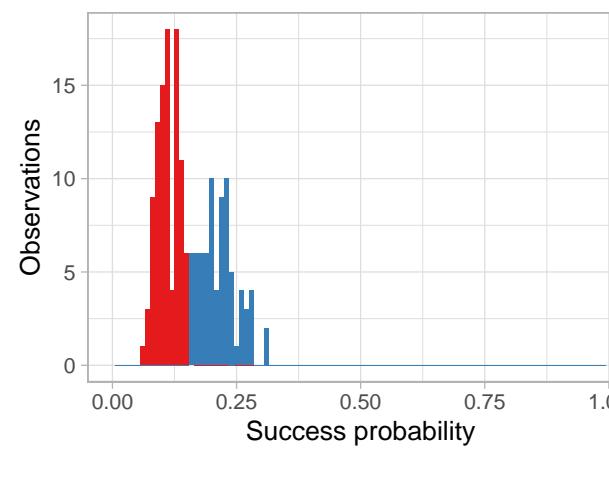
Karyotype: 2:1

N = 177; Tail 0%, C1 100%



Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



2:0

2:0

2:2

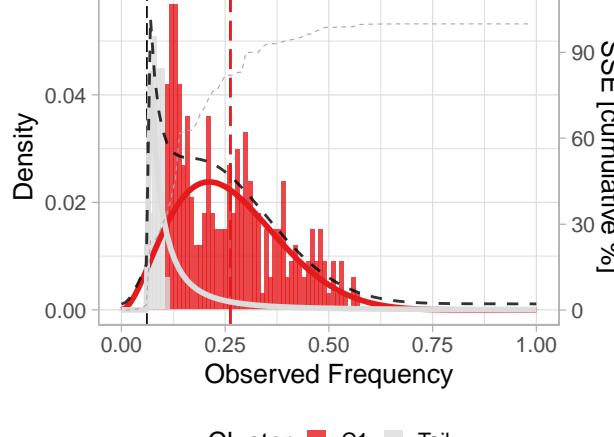
2:2

190411_HMFregCPCT_FR17499109_FR17436828_CPCT02020922

ONLY SNVs (min 150 – max 50000)

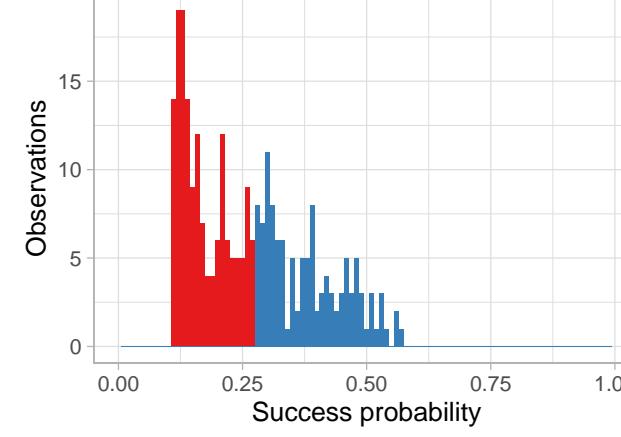
Karyotype: 1:0

N = 334; Tail 24.27%, C1 75.73%



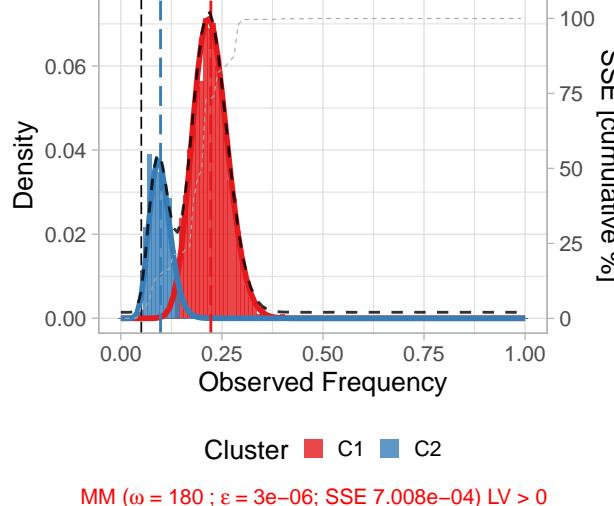
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



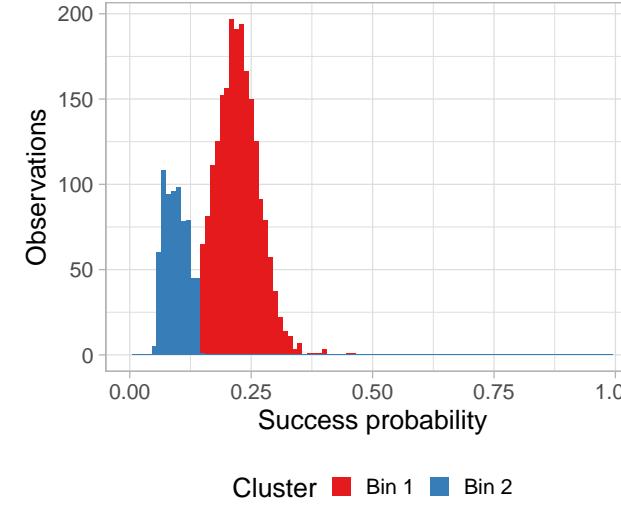
Karyotype: 1:1

N = 2765; Tail 0%, C2 23.55%, C1 76.45%



Karyotype: 1:1

$K_B = 2$, $K_{BB} = 0$



2:1

2:1

2:0

2:0

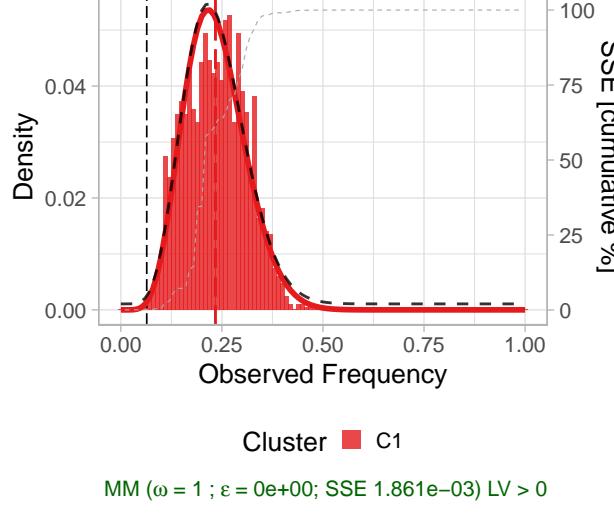
2:2

2:2

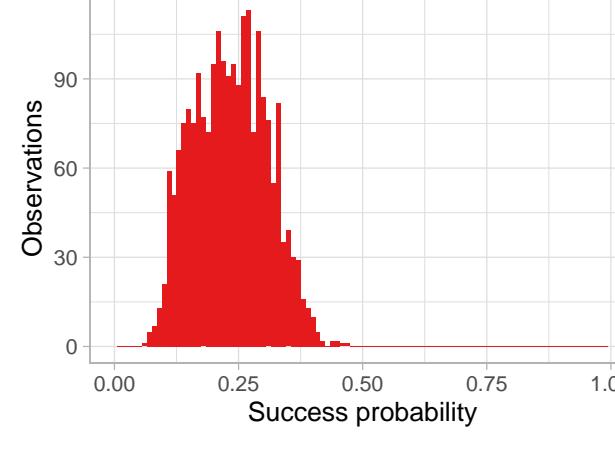
190425_HMFregCPCT_FR16672435_FR17498004_CPCT02011087

ONLY SNVs (min 150 – max 50000)

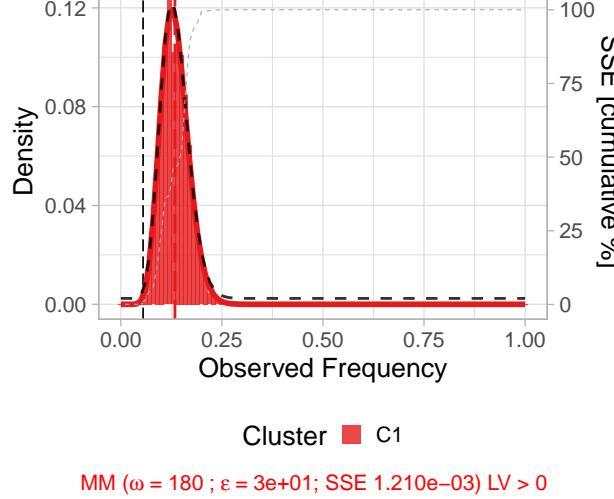
Karyotype: 1:0
N = 2149; Tail 0%, C1 100%



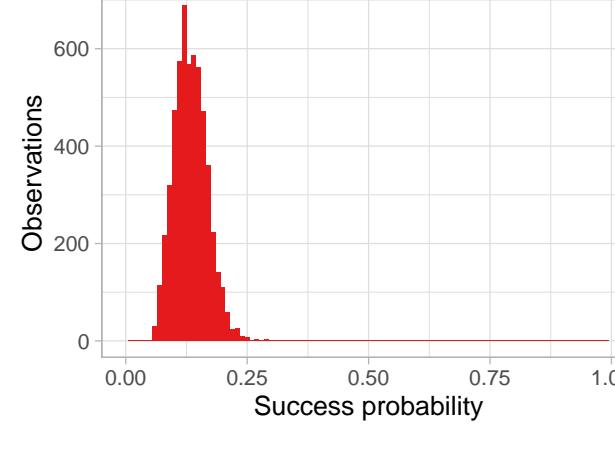
Karyotype: 1:0
 $K_B = 1, K_{BB} = 0$



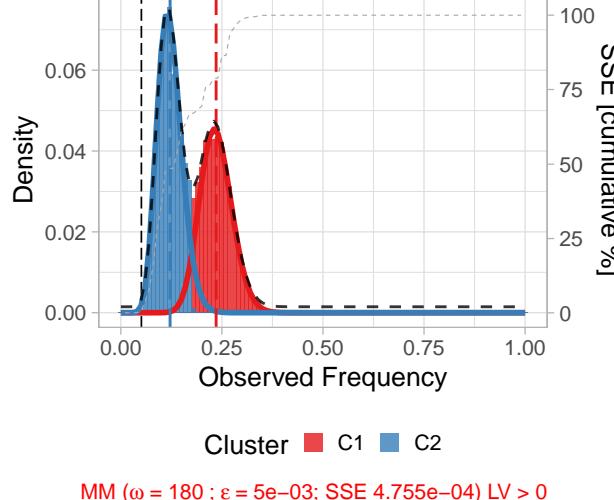
Karyotype: 1:1
N = 5574; Tail 0%, C1 100%



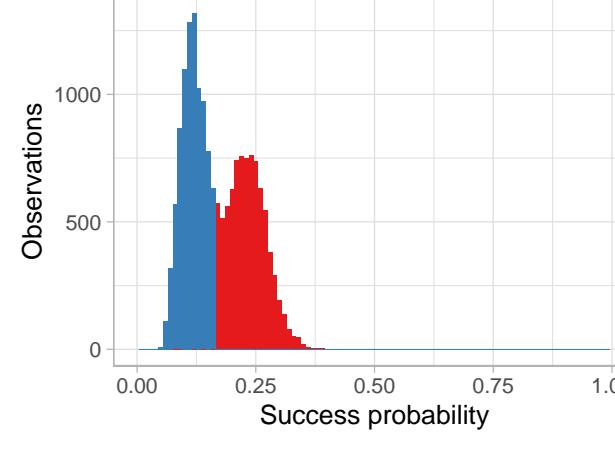
Karyotype: 1:1
 $K_B = 1, K_{BB} = 0$



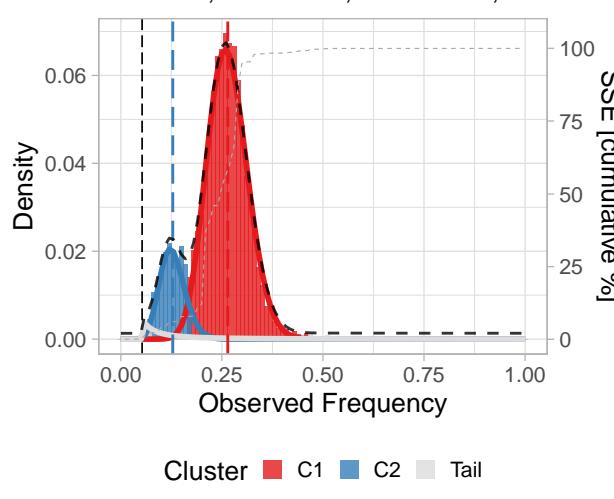
Karyotype: 2:1
N = 17422; Tail 0%, C1 44.56%, C2 55.44%



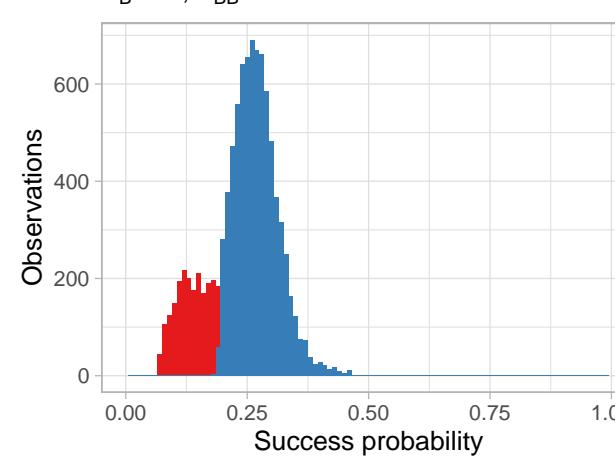
Karyotype: 2:1
 $K_B = 2, K_{BB} = 0$



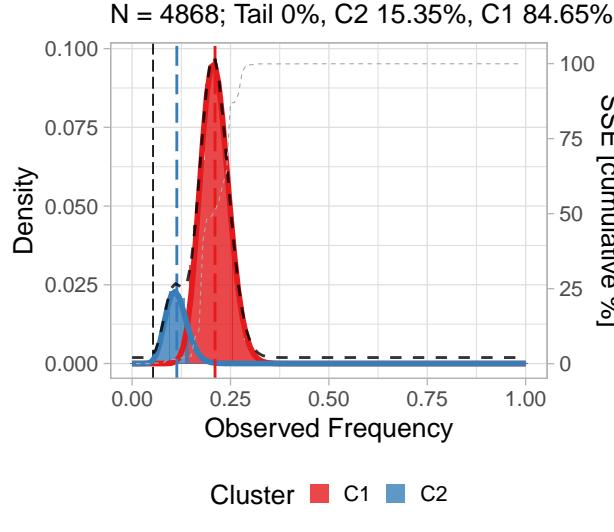
Karyotype: 2:0
N = 9931; Tail 2.59%, C2 15.66%, C1 81.75%



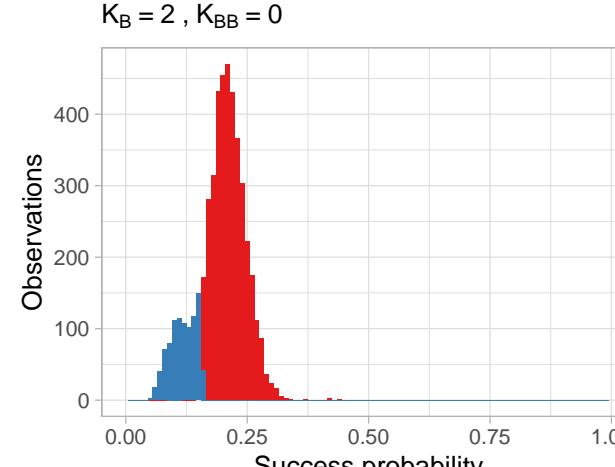
Karyotype: 2:0
 $K_B = 2, K_{BB} = 0$



Karyotype: 2:2
N = 4868; Tail 0%, C2 15.35%, C1 84.65%

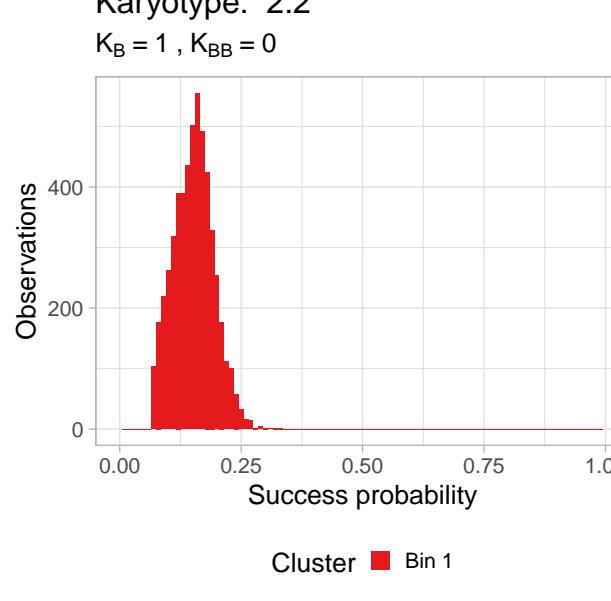
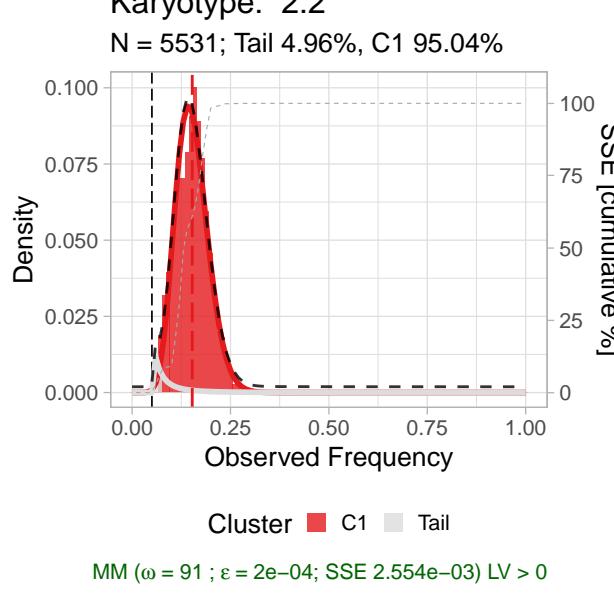
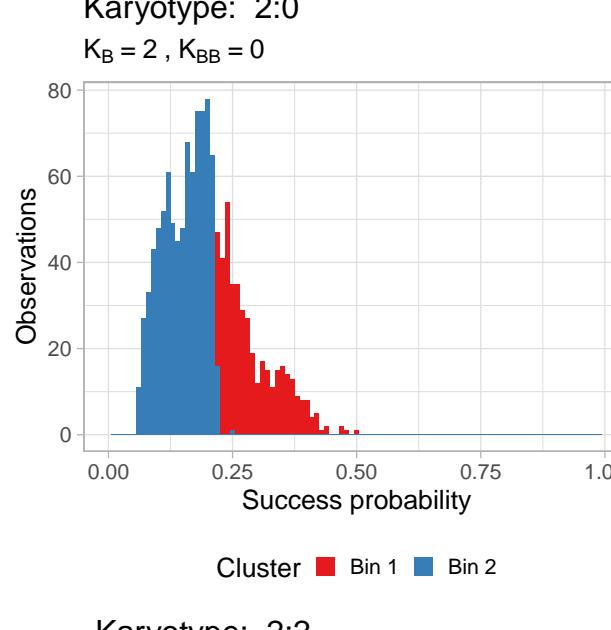
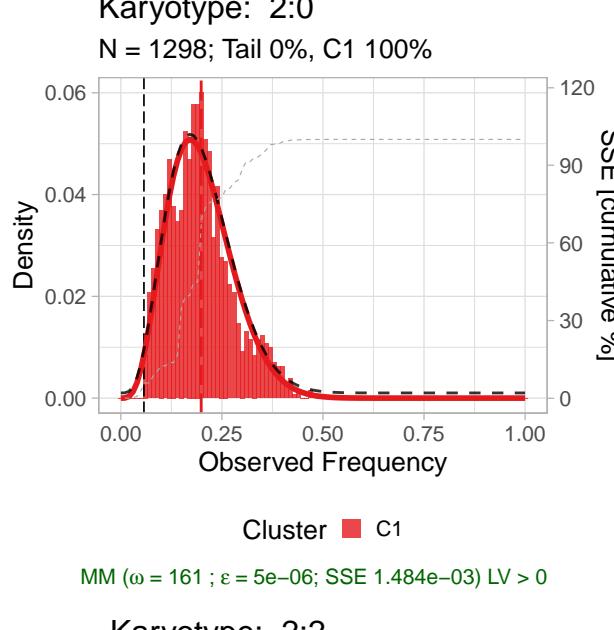
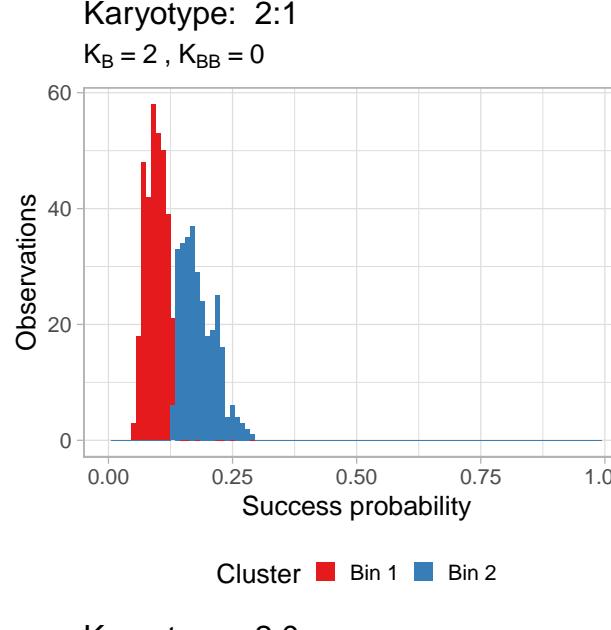
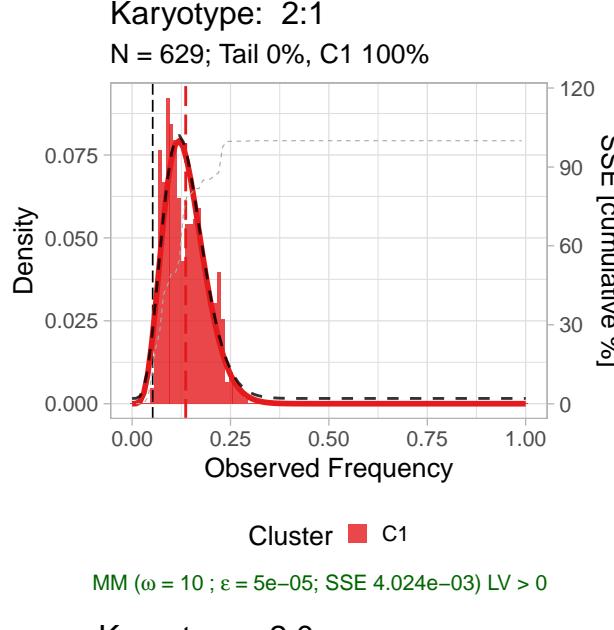
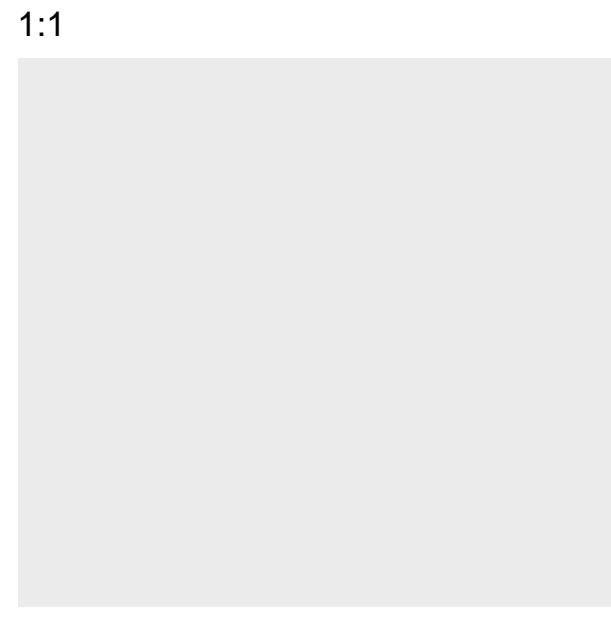
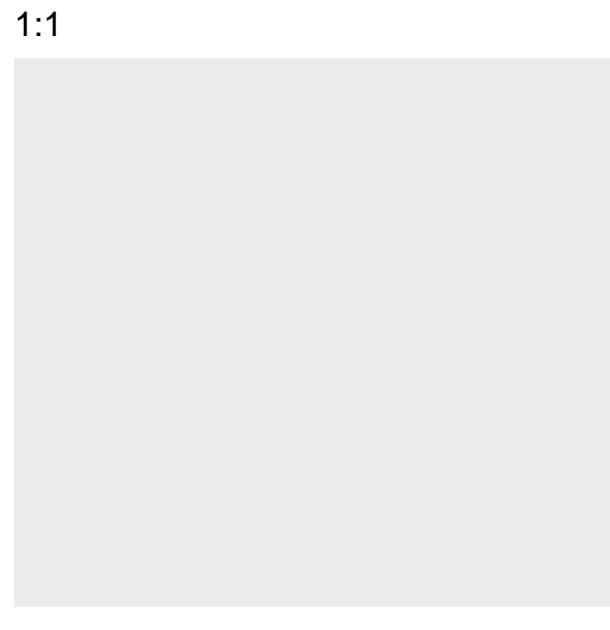
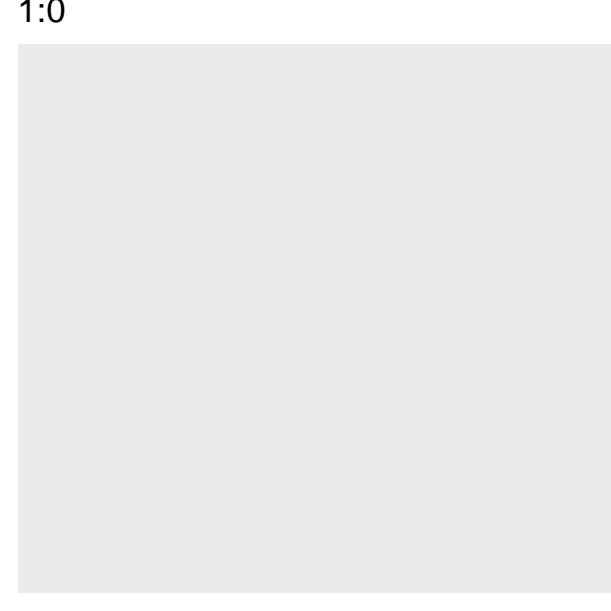
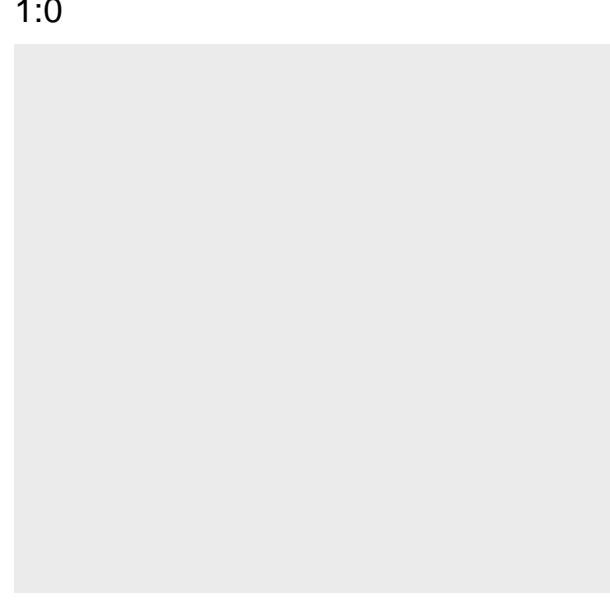


Karyotype: 2:2
 $K_B = 2, K_{BB} = 0$



190505_HMFregCPCT_FR17437138_FR17437063_CPCT02120195

ONLY SNVs (min 150 – max 50000)

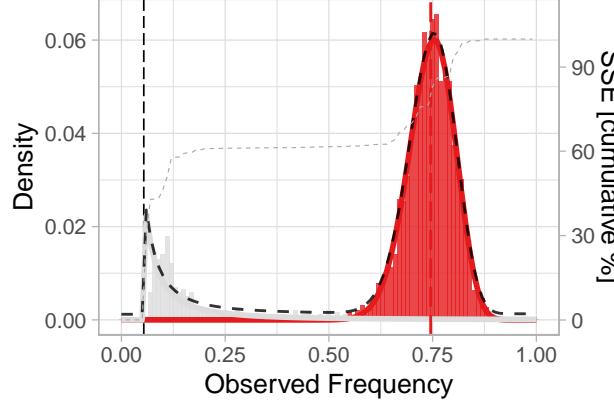


190505_HMFregCPCT_FR17437154_FR17437062_CPCT02120193

ONLY SNVs (min 150 – max 50000)

Karyotype: 1:0

N = 2562; Tail 15.78%, C1 84.22%

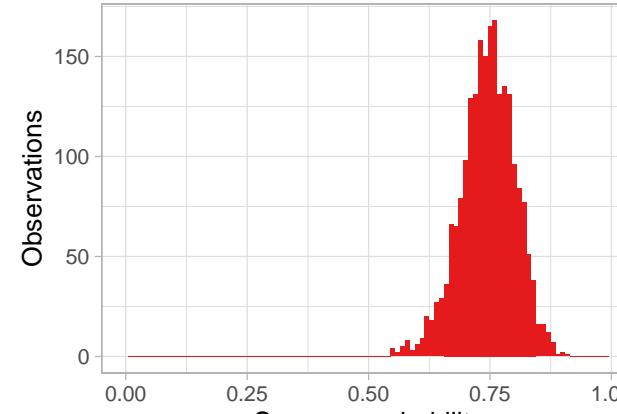


Cluster ■ C1 ■ Tail

MM ($\omega = 13$; $\varepsilon = 3e-06$; SSE $1.573e-03$) LV > 0

Karyotype: 1:0

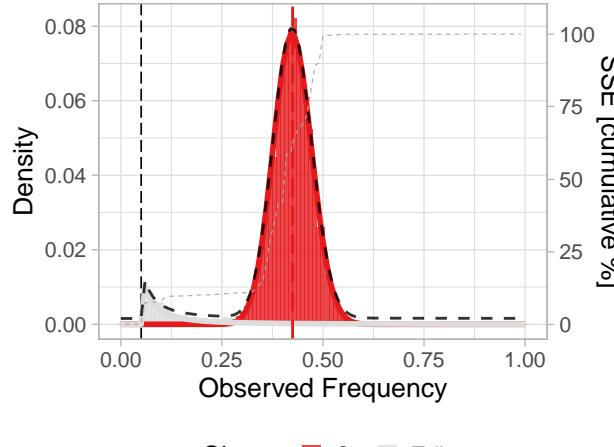
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 1:1

N = 21777; Tail 7.34%, C1 92.66%

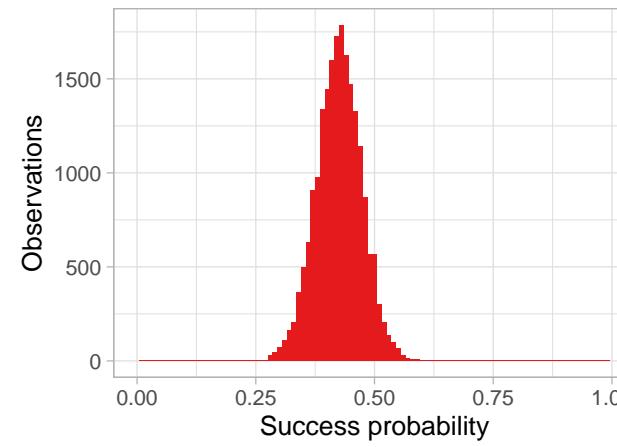


Cluster ■ C1 ■ Tail

MM ($\omega = 13$; $\varepsilon = 2e-05$; SSE $6.936e-04$) LV > 0

Karyotype: 1:1

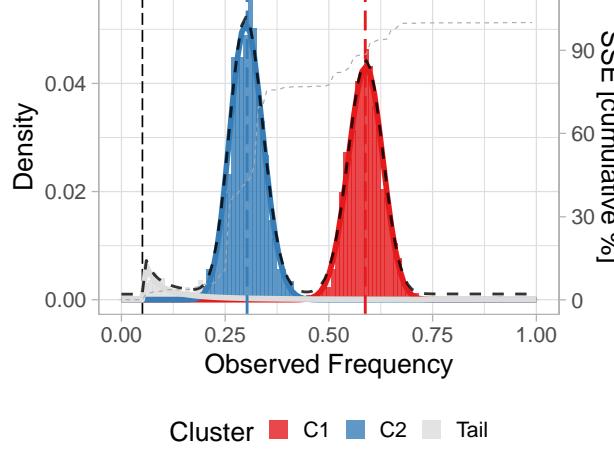
$K_B = 1$, $K_{BB} = 0$



Cluster ■ Bin 1

Karyotype: 2:1

N = 3519; Tail 4.57%, C1 44.62%, C2 50.8%

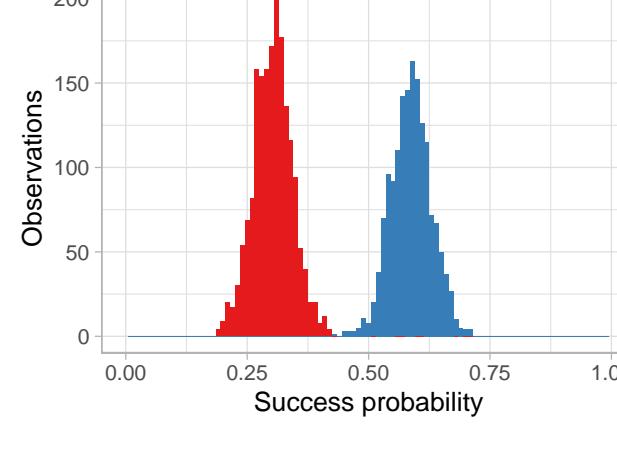


Cluster ■ C1 ■ C2 ■ Tail

MM ($\omega = 27$; $\varepsilon = 8e-06$; SSE $6.977e-04$) LV > 0

Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



Cluster ■ Bin 1 ■ Bin 2

2:0

2:0

2:2

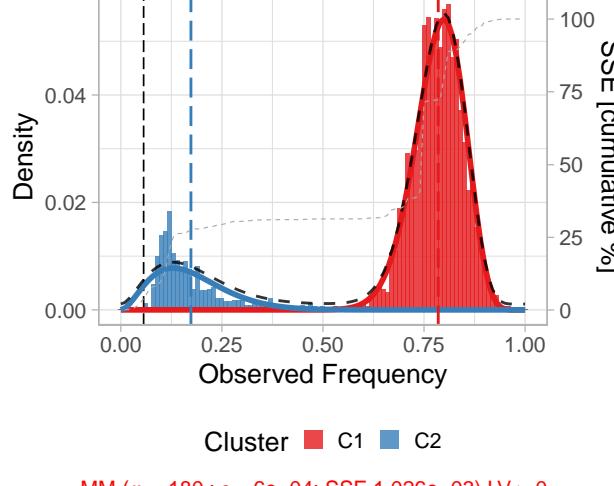
2:2

190510_HMFregCPCT_FR17497901_FR17437059_CPCT02080303

ONLY SNVs (min 150 – max 50000)

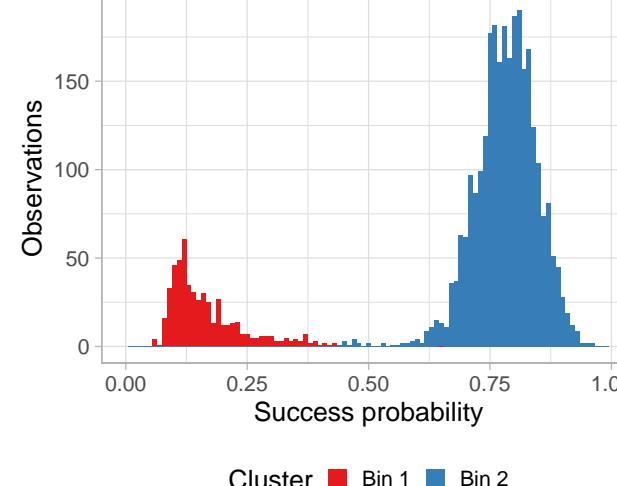
Karyotype: 1:0

N = 3338; Tail 0%, C2 16.66%, C1 83.34%



Karyotype: 1:0

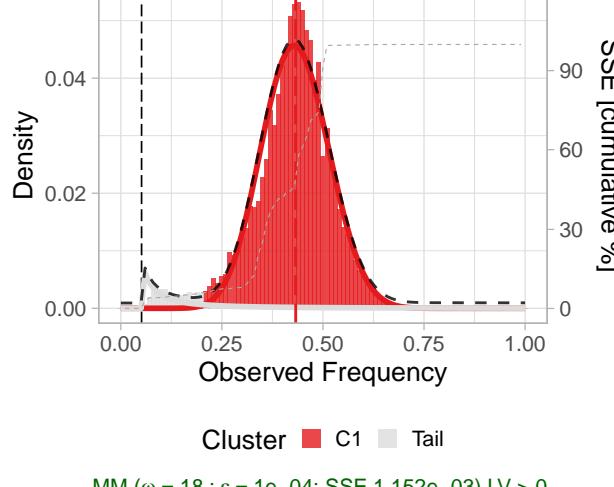
$K_B = 2, K_{BB} = 0$



MM ($\omega = 180$; $\epsilon = 6e-04$; SSE 1.026e-03) LV > 0

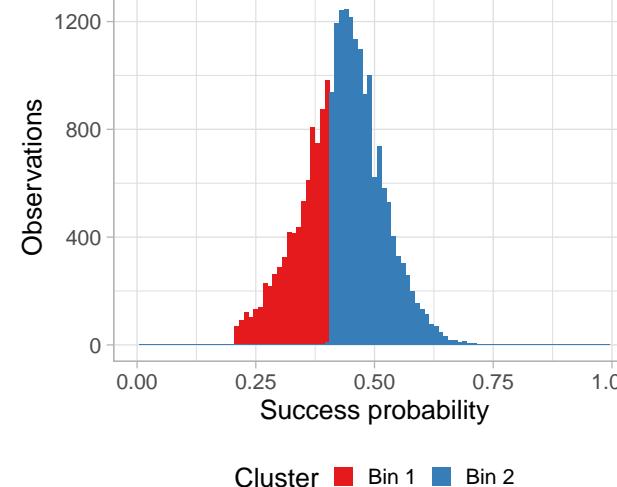
Karyotype: 1:1

N = 23463; Tail 4.83%, C1 95.17%



Karyotype: 1:1

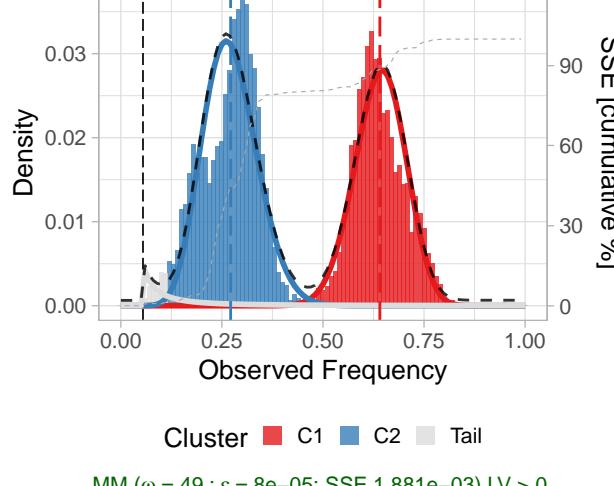
$K_B = 2, K_{BB} = 0$



MM ($\omega = 18$; $\epsilon = 1e-04$; SSE 1.152e-03) LV > 0

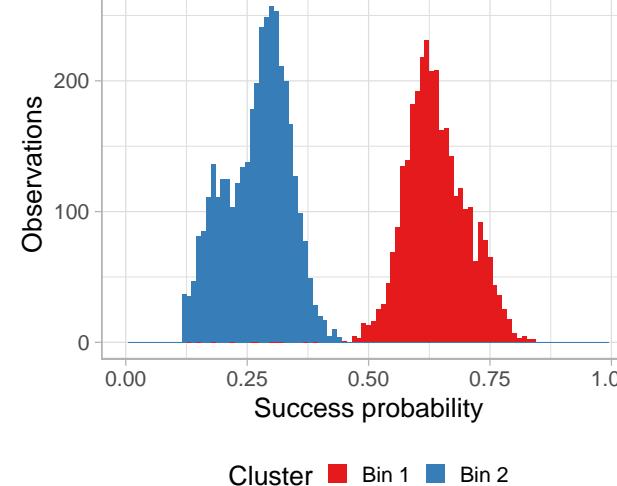
Karyotype: 2:1

N = 7060; Tail 2.73%, C1 44.56%, C2 52.71%



Karyotype: 2:1

$K_B = 2, K_{BB} = 0$



MM ($\omega = 49$; $\epsilon = 8e-05$; SSE 1.881e-03) LV > 0

2:0

2:0

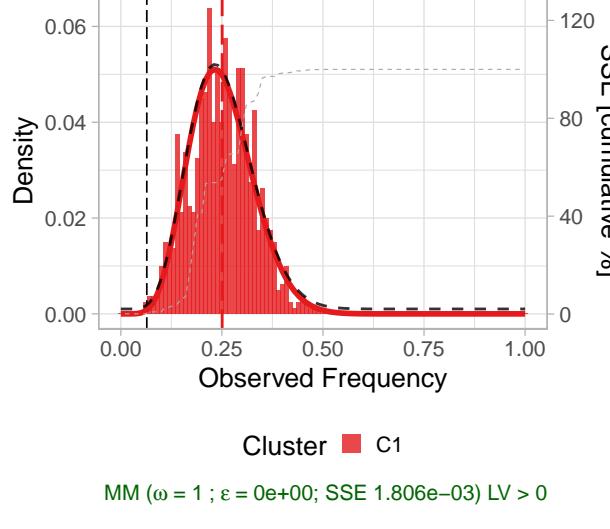
2:2

2:2

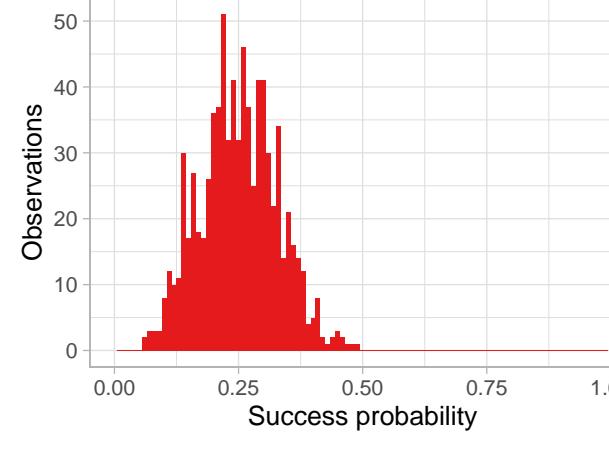
190620_HMFregCPCT_FR17455875_FR17455935_CPCT02080313

ONLY SNVs (min 150 – max 50000)

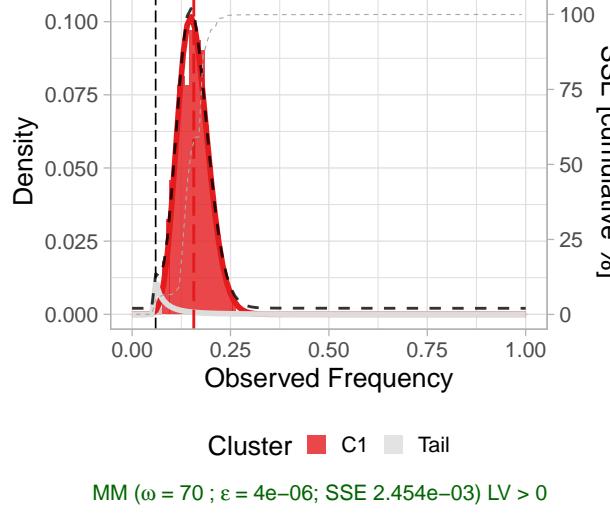
Karyotype: 1:0
N = 799; Tail 0%, C1 100%



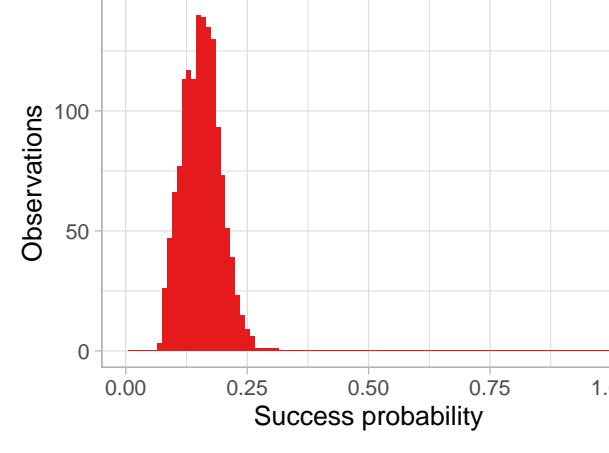
Karyotype: 1:0
 $K_B = 1$, $K_{BB} = 0$



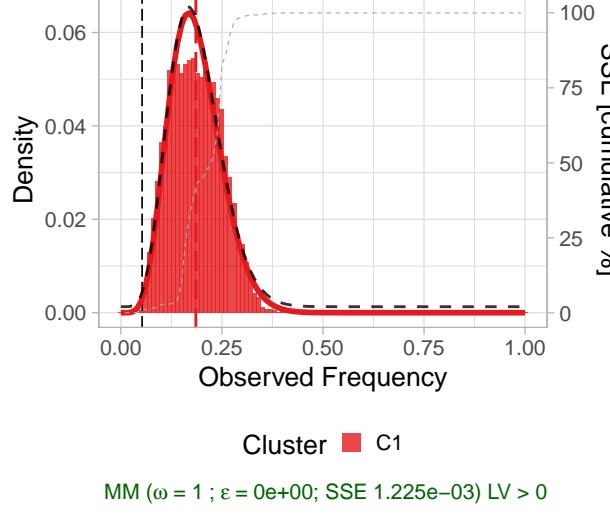
Karyotype: 1:1
N = 1441; Tail 3.42%, C1 96.58%



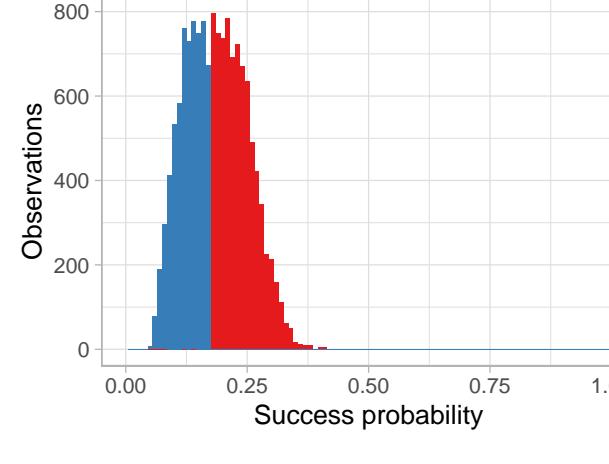
Karyotype: 1:1
 $K_B = 1$, $K_{BB} = 0$



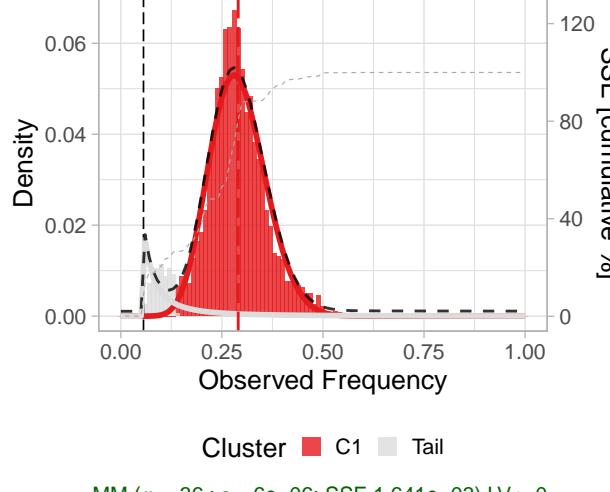
Karyotype: 2:1
N = 14615; Tail 0%, C1 100%



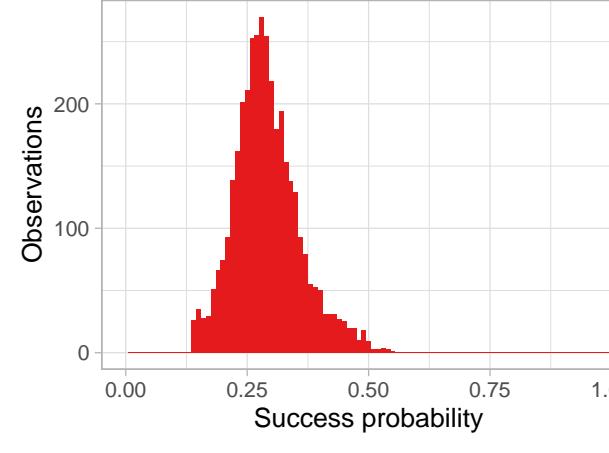
Karyotype: 2:1
 $K_B = 2$, $K_{BB} = 0$



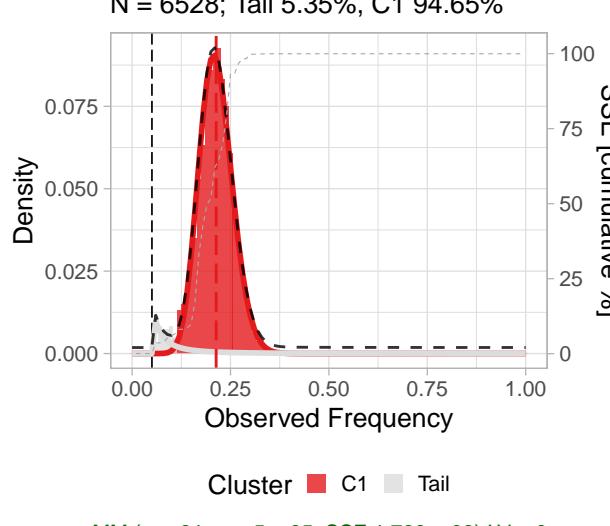
Karyotype: 2:0
N = 4016; Tail 8.77%, C1 91.23%



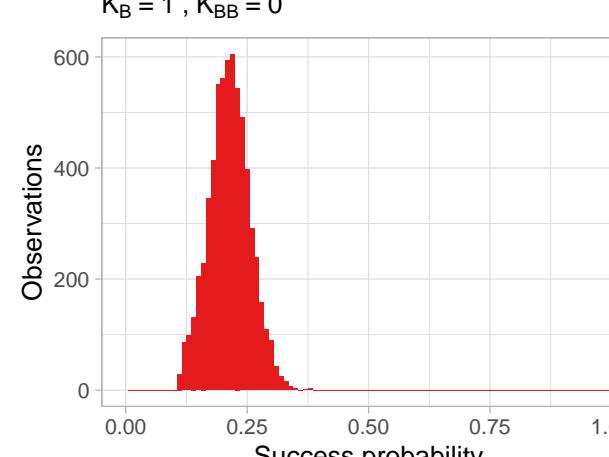
Karyotype: 2:0
 $K_B = 1$, $K_{BB} = 0$



Karyotype: 2:2
N = 6528; Tail 5.35%, C1 94.65%



Karyotype: 2:2
 $K_B = 1$, $K_{BB} = 0$

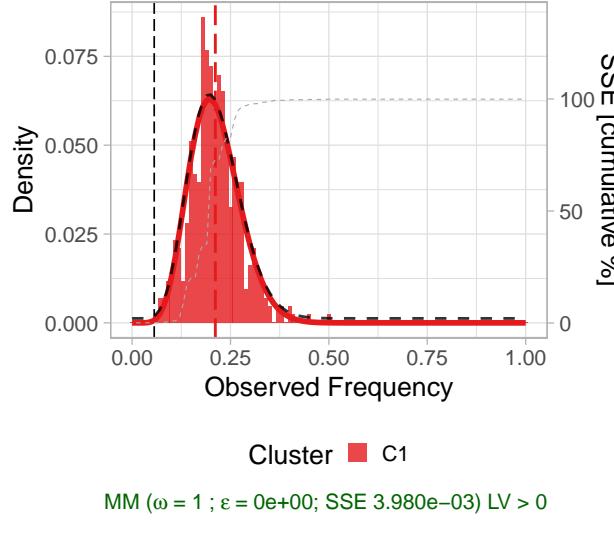


190806_HMFregCPCT_FR13921048_FR16671907_CPCT02020972

ONLY SNVs (min 150 – max 50000)

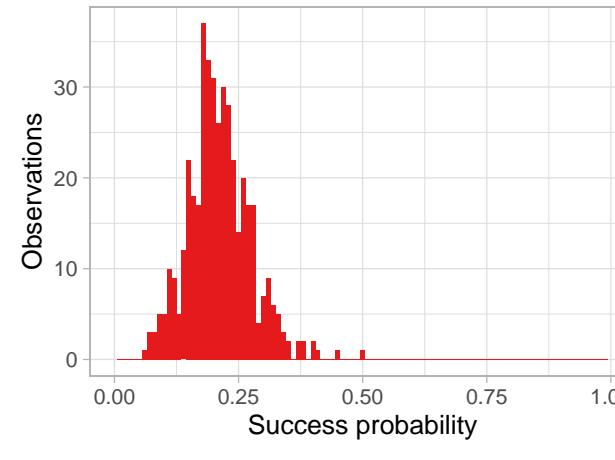
Karyotype: 1:0

N = 430; Tail 0%, C1 100%



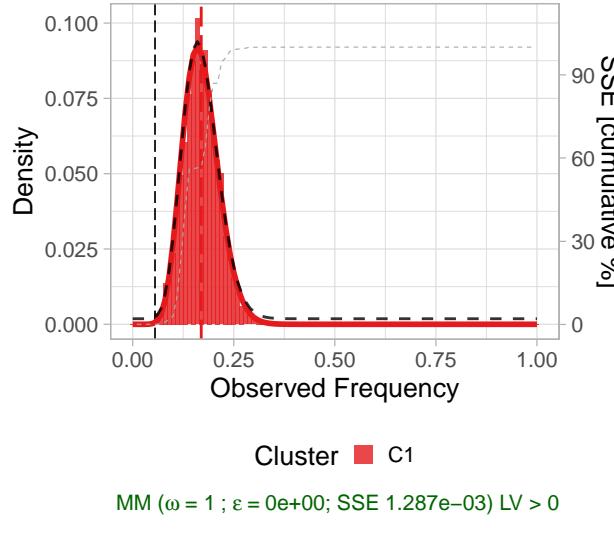
Karyotype: 1:0

$K_B = 1$, $K_{BB} = 0$



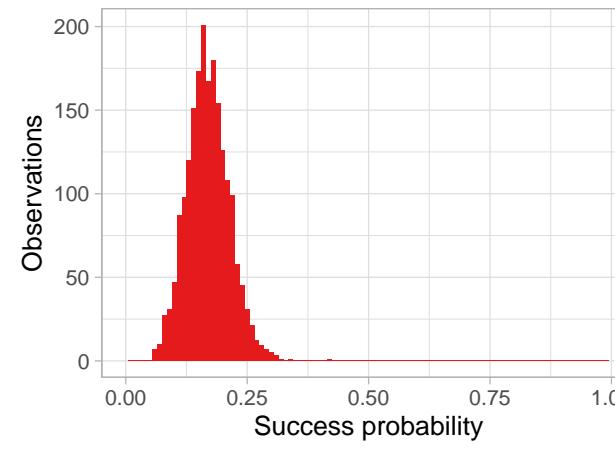
Karyotype: 1:1

N = 1980; Tail 0%, C1 100%



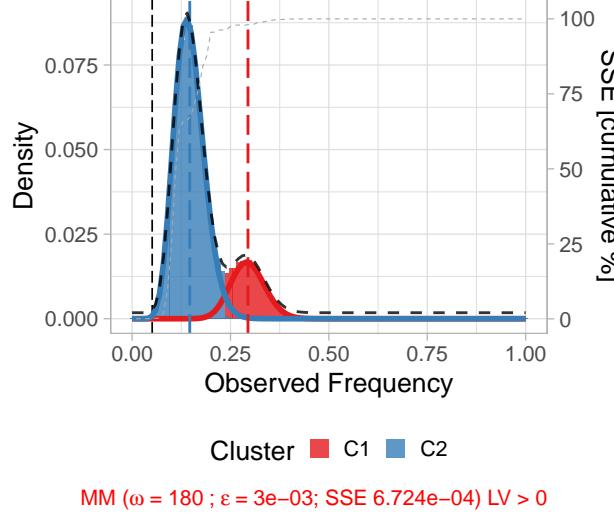
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



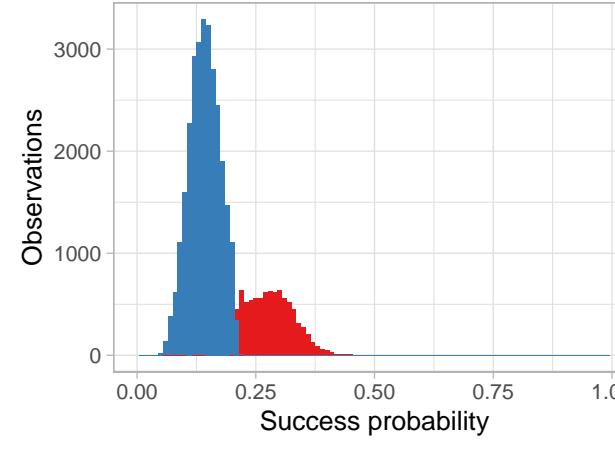
Karyotype: 2:1

N = 37273; Tail 0%, C1 17.93%, C2 82.07%



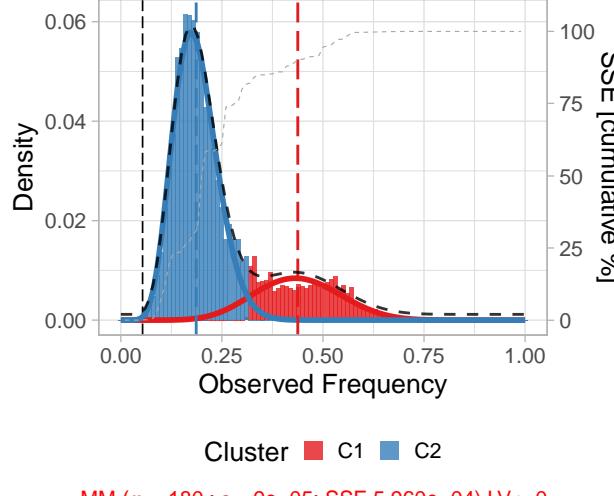
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



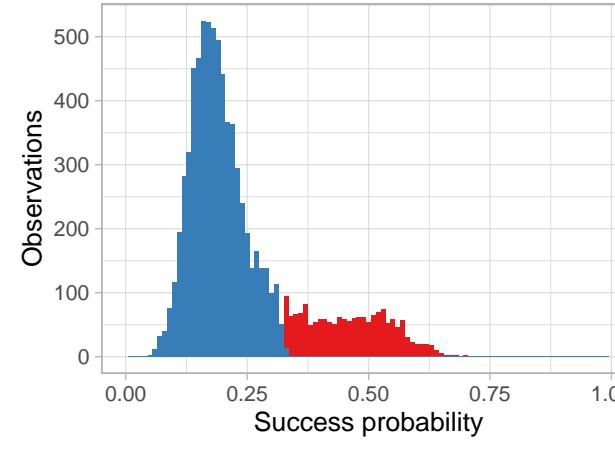
Karyotype: 2:0

N = 8539; Tail 0%, C1 22.45%, C2 77.55%



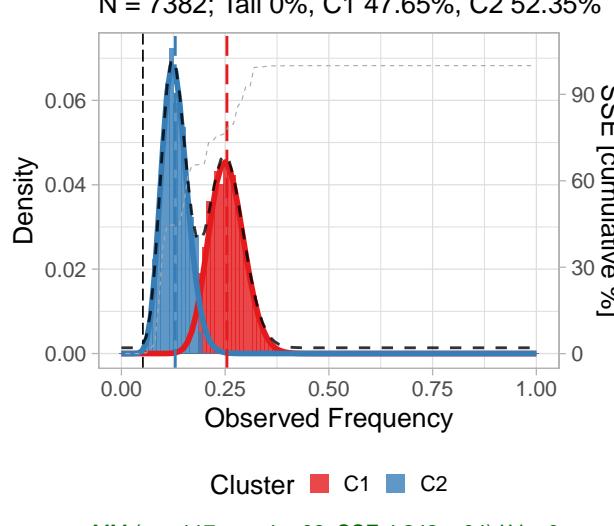
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



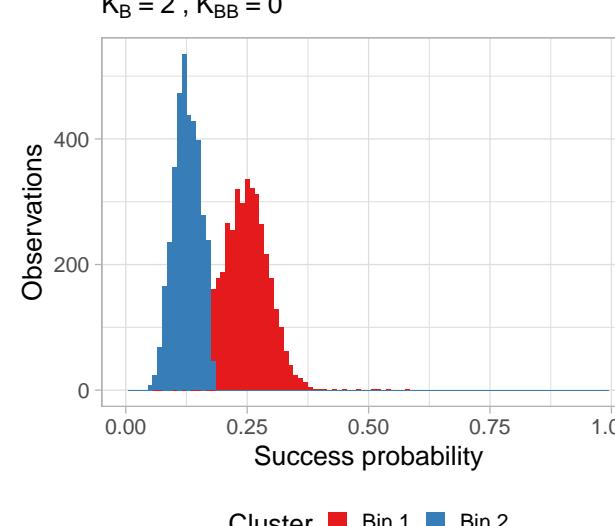
Karyotype: 2:2

N = 7382; Tail 0%, C1 47.65%, C2 52.35%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

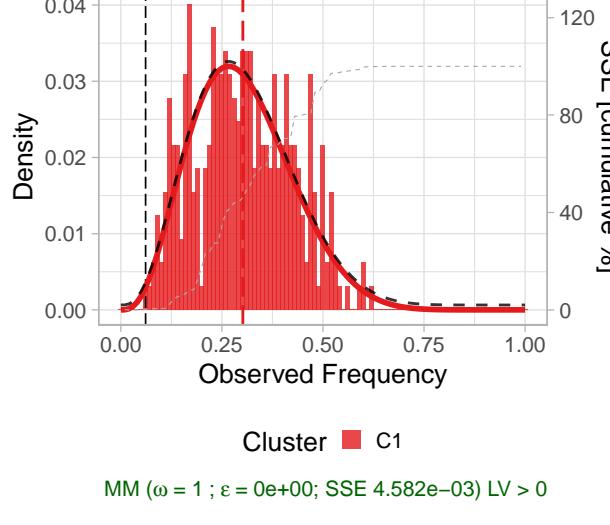


190909_HMFregCPCT_FR16672602_FR13920653_CPCT02020973

ONLY SNVs (min 150 – max 50000)

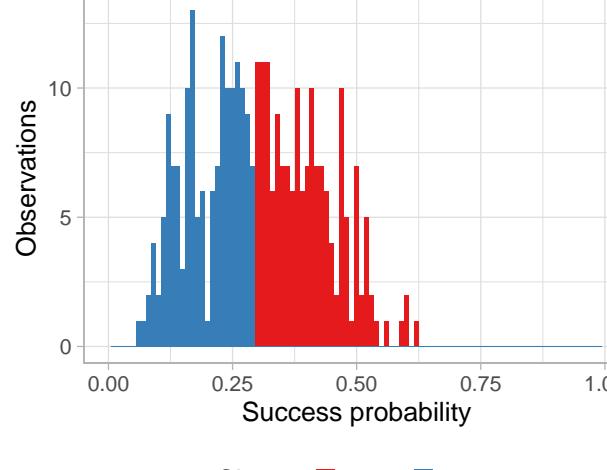
Karyotype: 1:0

N = 324; Tail 0%, C1 100%



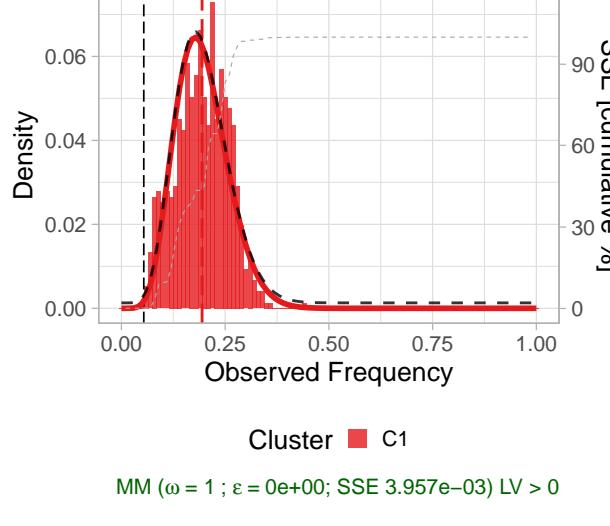
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



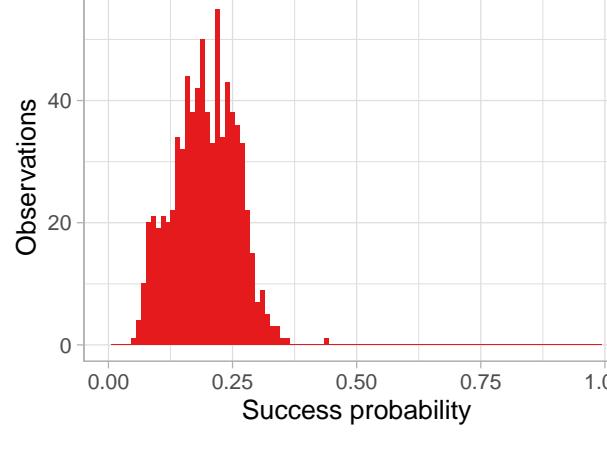
Karyotype: 1:1

N = 755; Tail 0%, C1 100%



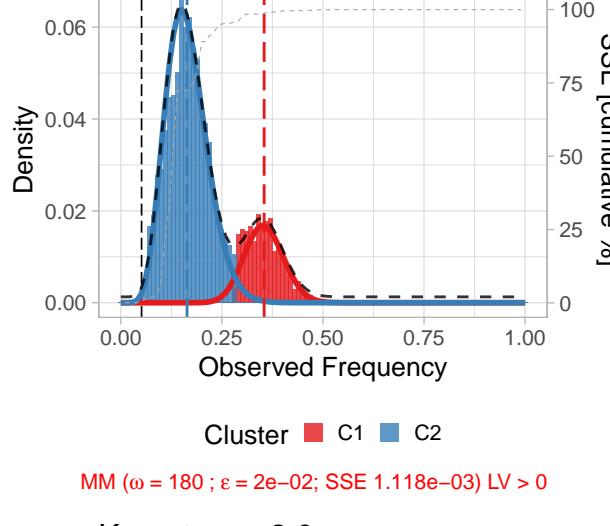
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



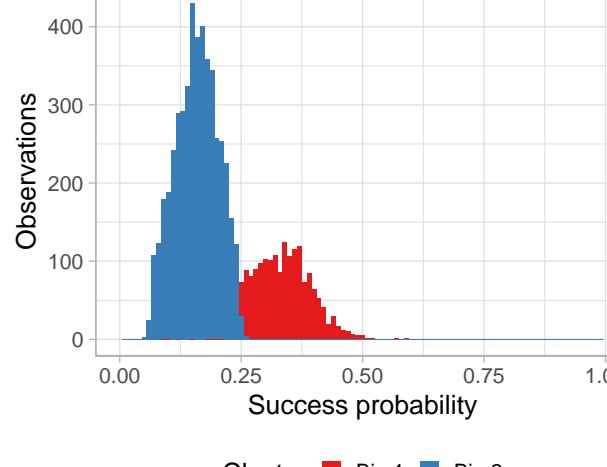
Karyotype: 2:1

N = 6459; Tail 0%, C1 20.21%, C2 79.79%



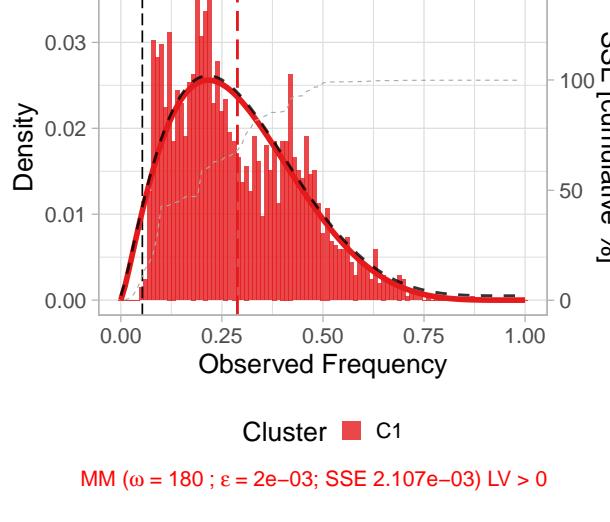
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



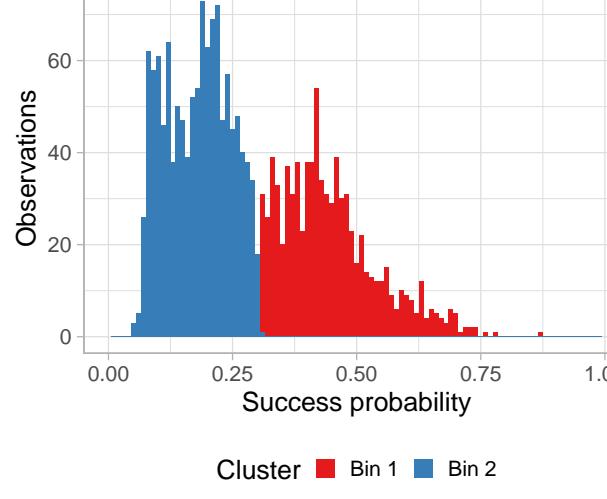
Karyotype: 2:0

N = 2051; Tail 0%, C1 100%



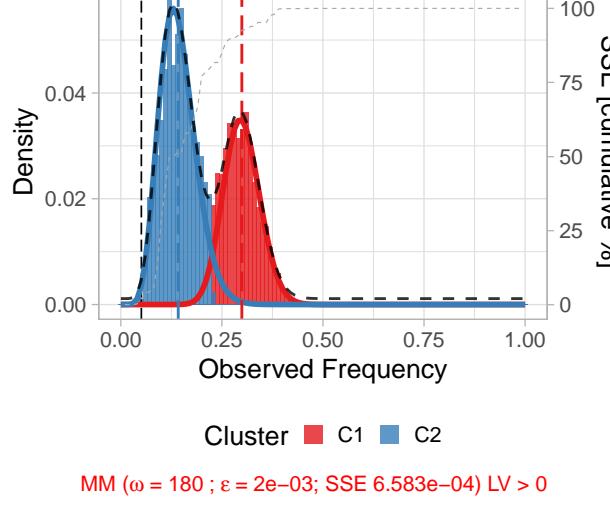
Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



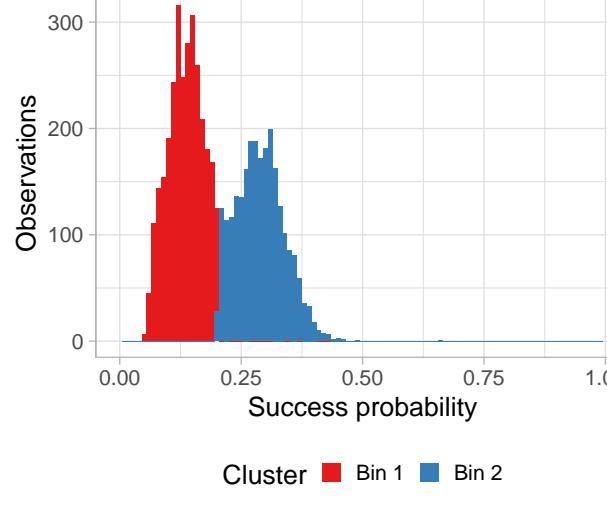
Karyotype: 2:2

N = 5466; Tail 0%, C1 39.13%, C2 60.87%



Karyotype: 2:2

$K_B = 2$, $K_{BB} = 0$

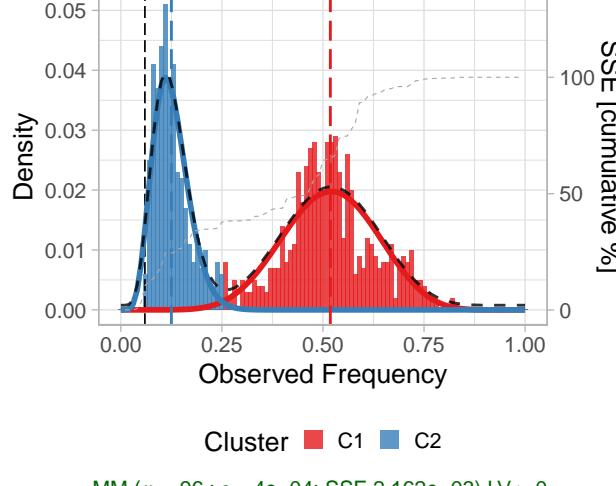


190913_HMFregCPCT_FR16672425_FR13923148_CPCT02020940

ONLY SNVs (min 150 – max 50000)

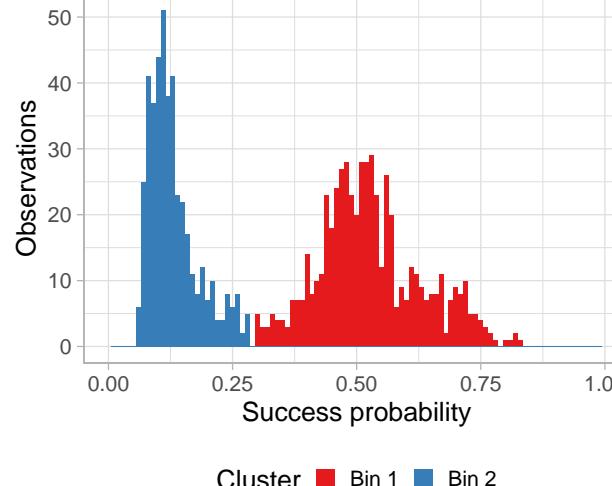
Karyotype: 1:0

N = 999; Tail 0%, C2 41.12%, C1 58.88%



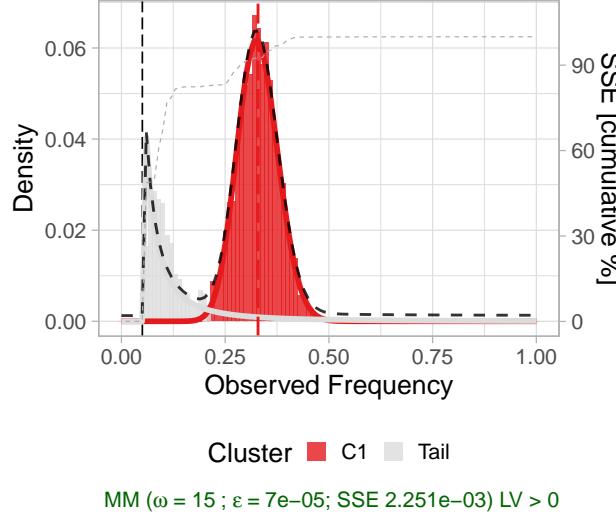
Karyotype: 1:0

$K_B = 2$, $K_{BB} = 0$



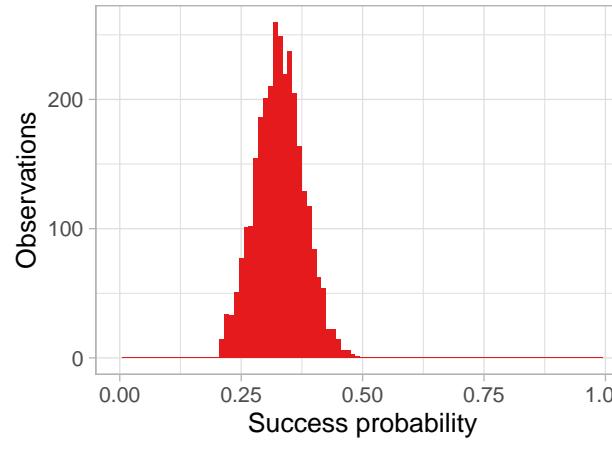
Karyotype: 1:1

N = 3873; Tail 24.36%, C1 75.64%



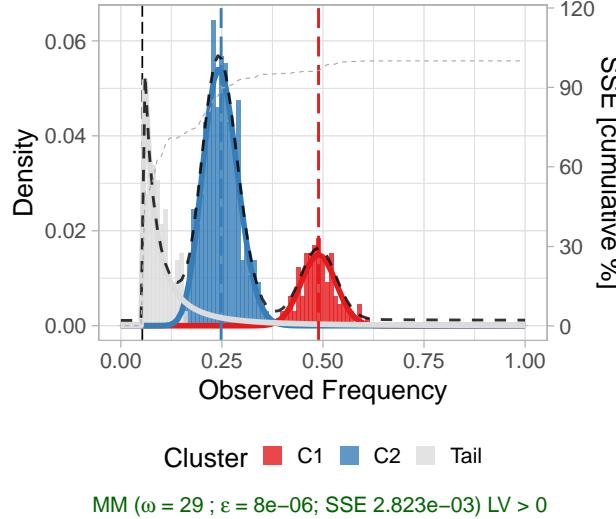
Karyotype: 1:1

$K_B = 1$, $K_{BB} = 0$



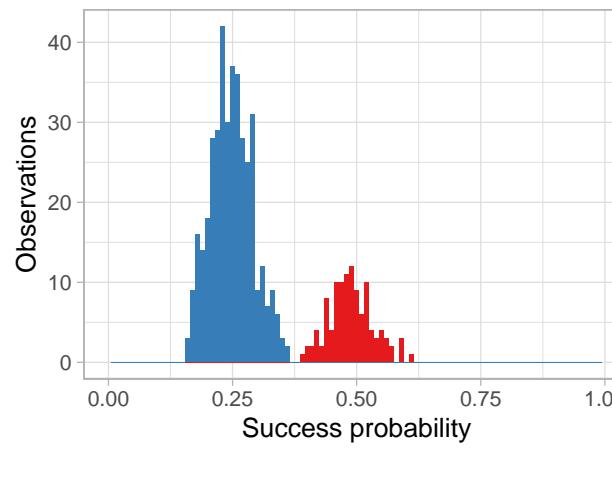
Karyotype: 2:1

N = 652; C1 16.13%, Tail 26.12%, C2 57.75%



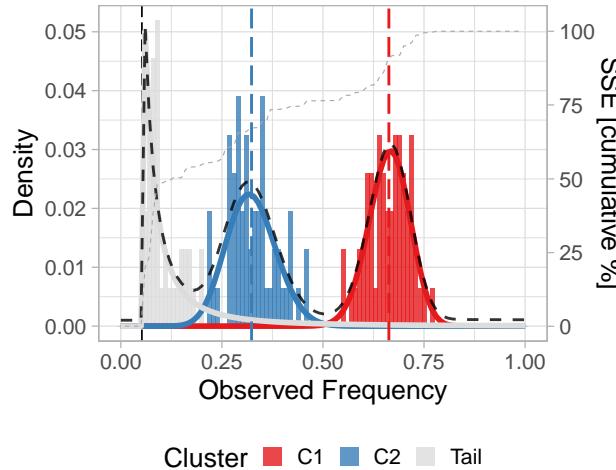
Karyotype: 2:1

$K_B = 2$, $K_{BB} = 0$



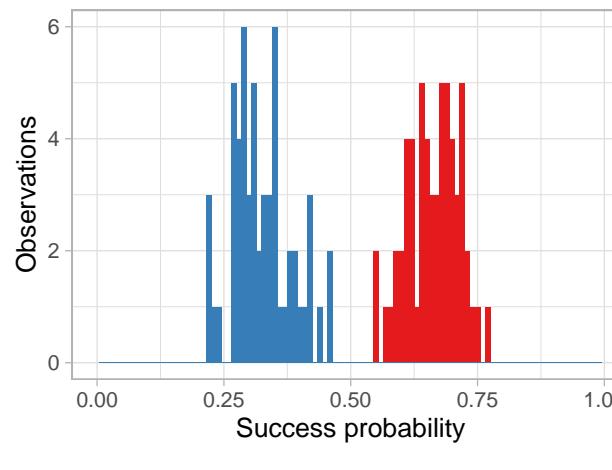
Karyotype: 2:0

N = 154; Tail 27.98%, C2 34.33%, C1 37.69%



Karyotype: 2:0

$K_B = 2$, $K_{BB} = 0$



2:2

2:2