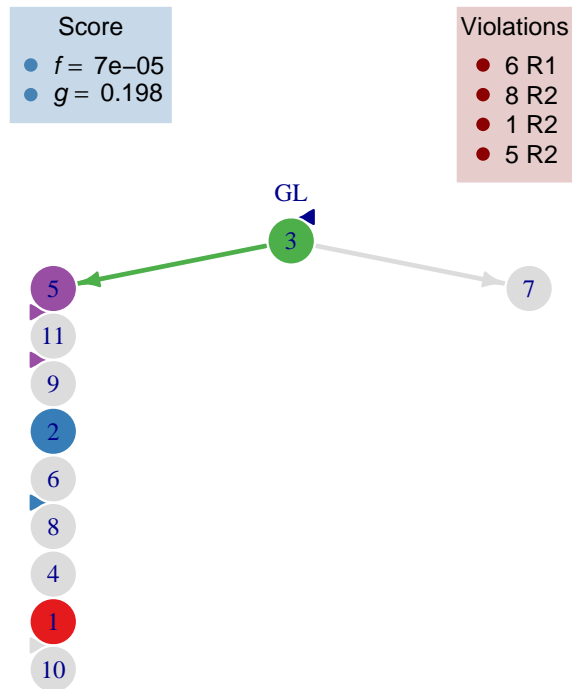
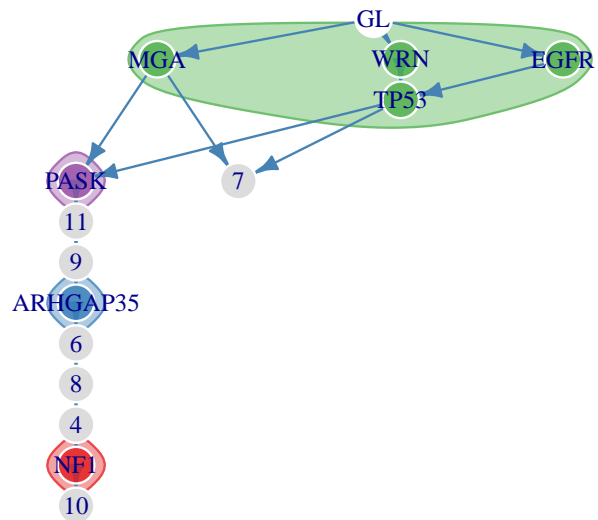


Patient: CRUK0001



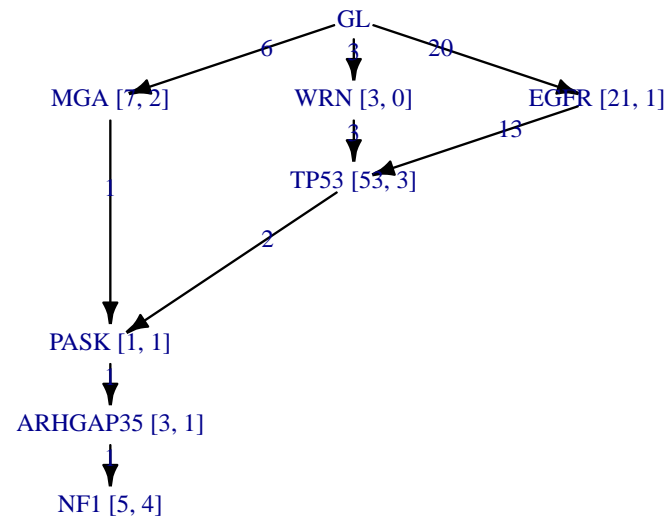
Ranked 1/200

CRUK0001 : evolutionary trajectories



Exploded trajectories

CRUK0001 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

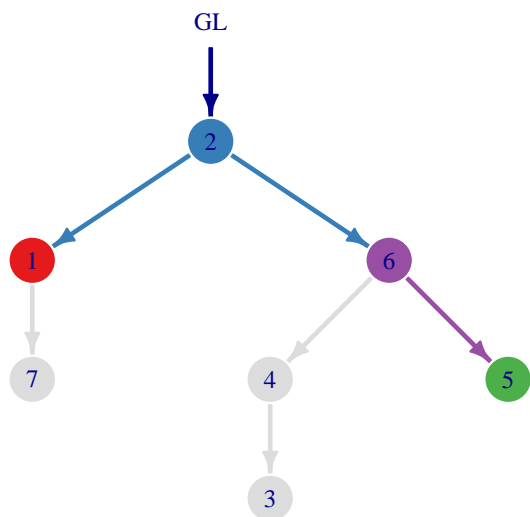
Patient: CRUK0002

Score

• $f = 6e-01$
• $g = 1$

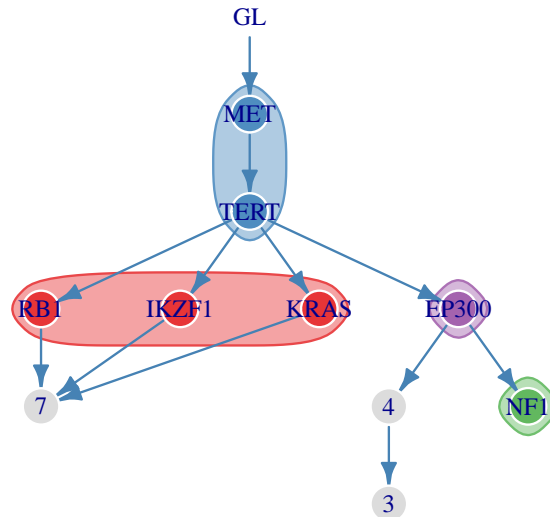
Violations

• None



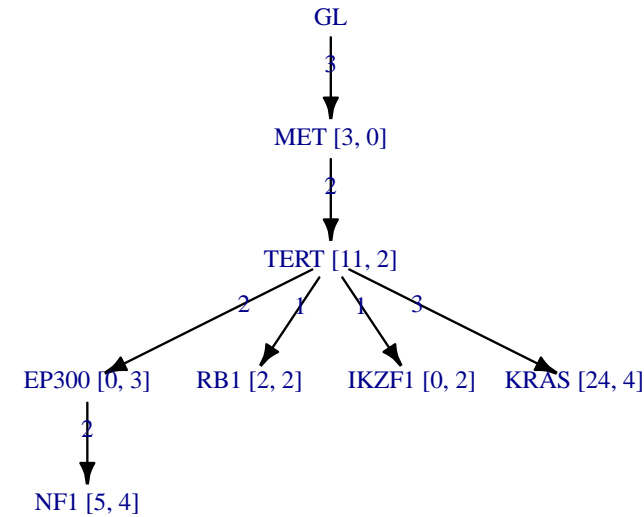
Ranked 1/3

CRUK0002 : evolutionary trajectories



Exploded trajectories

CRUK0002 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0003

CRUK0003 : evolutionary trajectories

CRUK0003 : information transfer

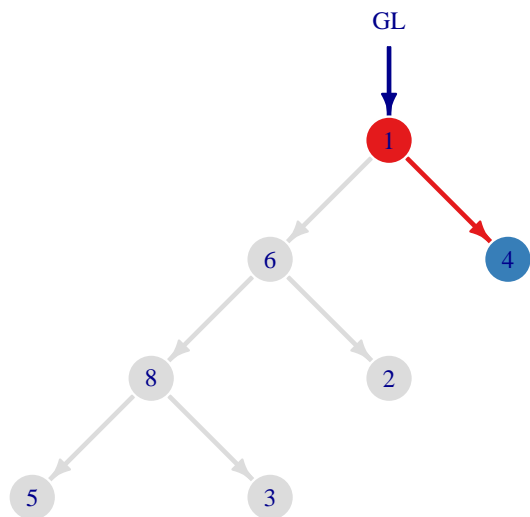
Score

• $f = 8e-01$

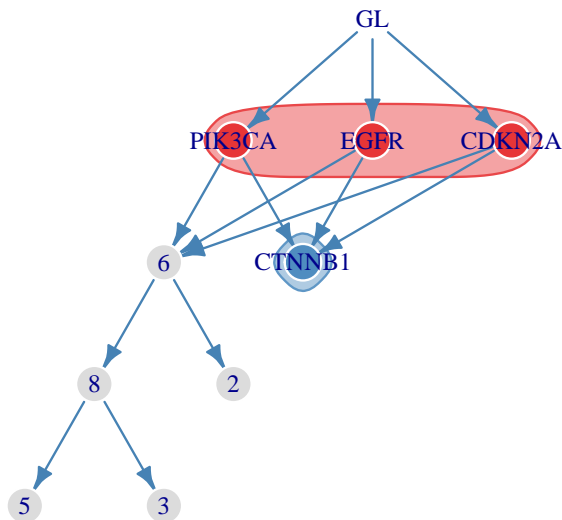
• $g = 0.8$

Violations

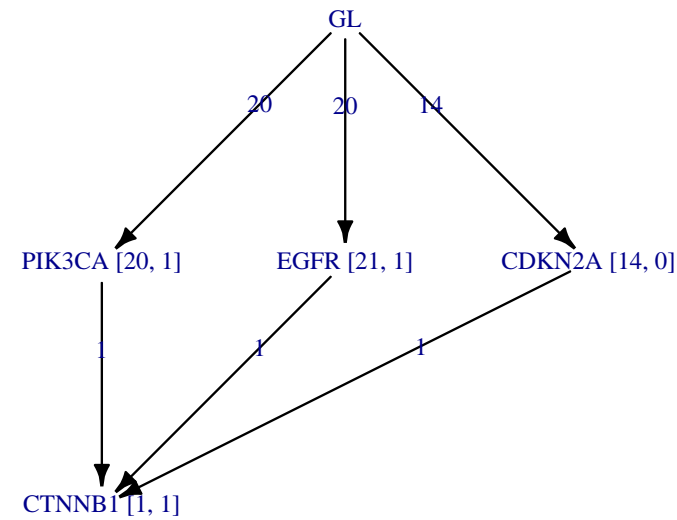
• 8 R6



Ranked 1/1



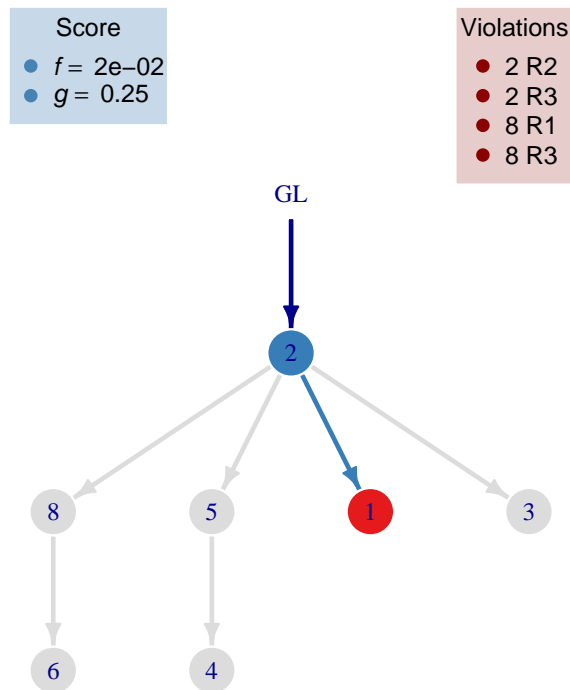
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

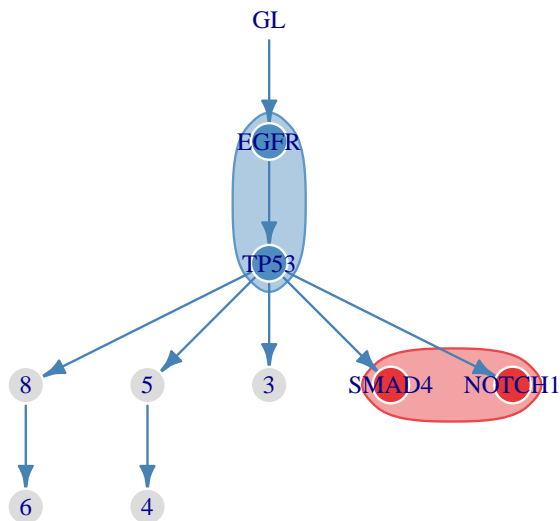
... : k patients

Patient: CRUK0004



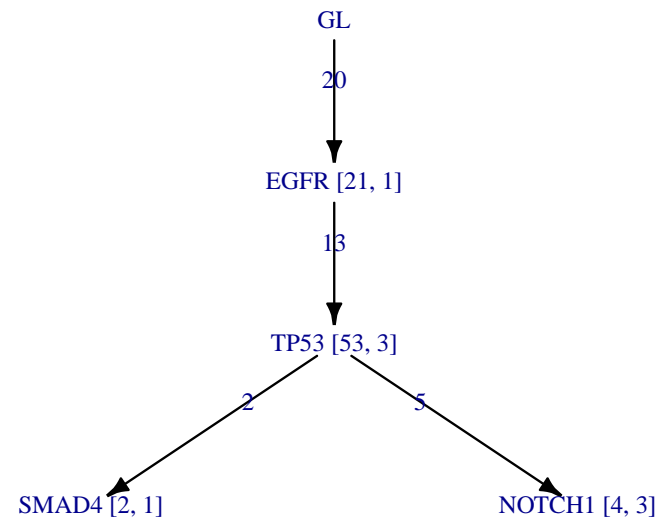
Ranked 1/18

CRUK0004 : evolutionary trajectories



Exploded trajectories

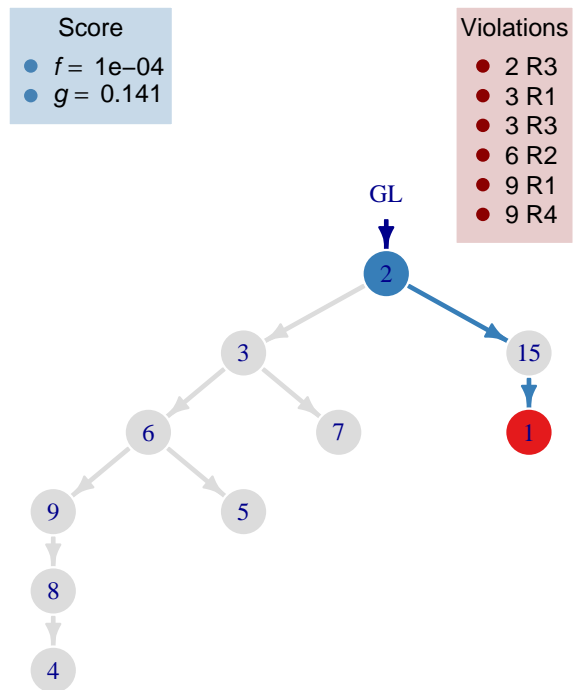
CRUK0004 : information transfer



[n m]: n clonal, m subclonal (driver)

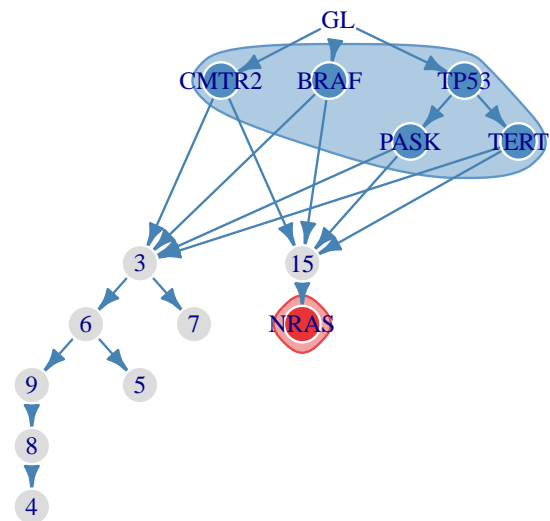
... : k patients

Patient: CRUK0005



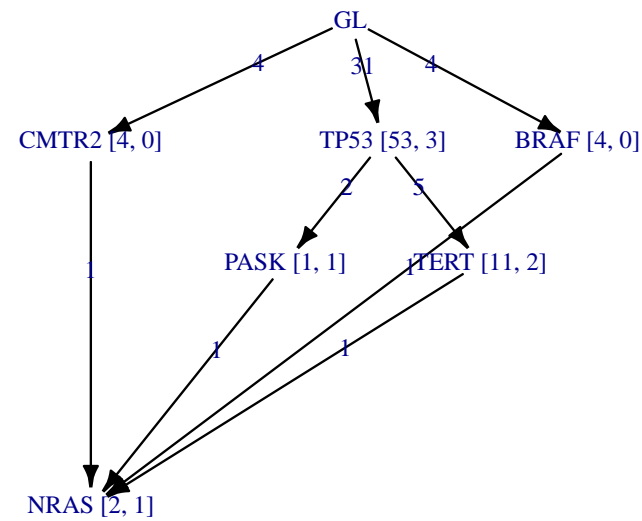
Ranked 1/200

CRUK0005 : evolutionary trajectories



Exploded trajectories

CRUK0005 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0006

CRUK0006 : evolutionary trajectories

CRUK0006 : information transfer

Score

● $f = 3e-04$
● $g = 0.5$

Violations

● 6 R2

GL

1

7

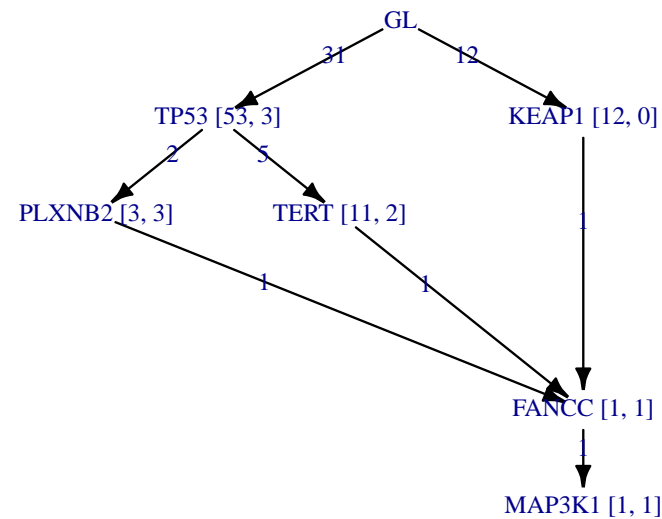
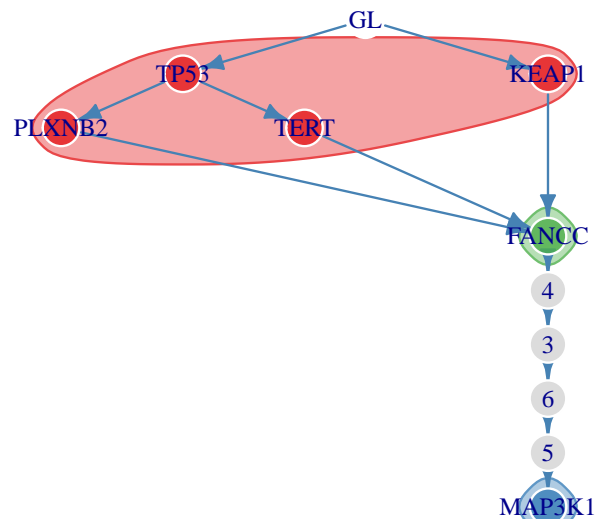
4

3

6

5

2



Ranked 1/200

Exploded trajectories

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0007

CRUK0007 : evolutionary trajectories

CRUK0007 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

GL

1

3

2

Ranked 1/1

GL

PIK3CA

EGFR

SGK223

3

2

Exploded trajectories

GL

20

20

3

PIK3CA [20, 1]

EGFR [21, 1]

SGK223 [3, 0]

[n m]: n clonal, m subclonal (driver)

... : k patients

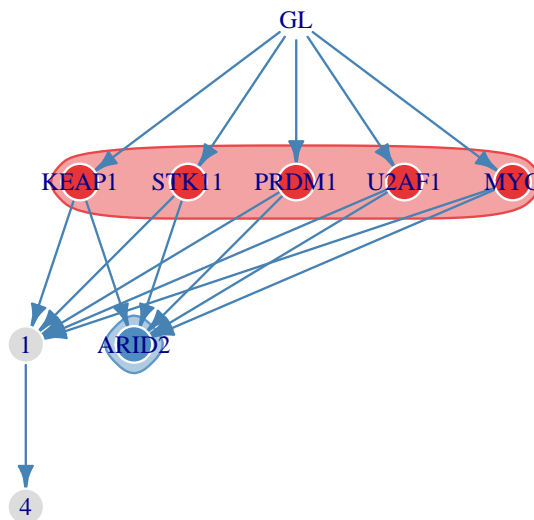
Patient: CRUK0008

CRUK0008 : evolutionary trajectories

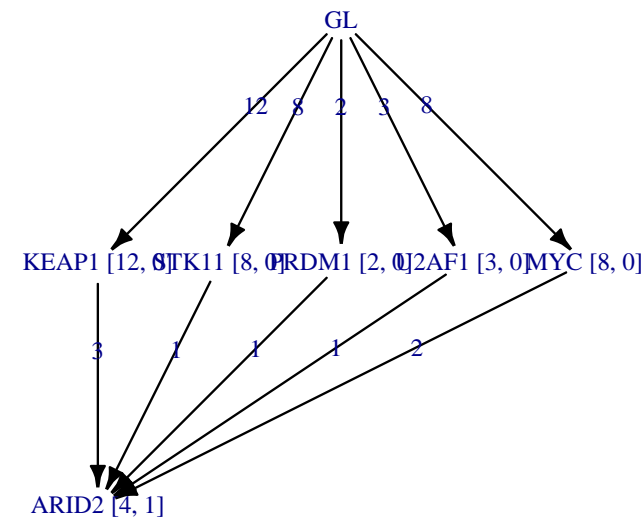
CRUK0008 : information transfer



Ranked 1/1



Exploded trajectories



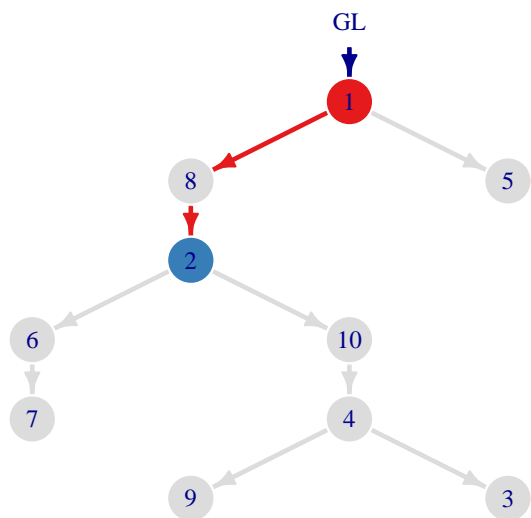
[n m]: n clonal, m subclonal (driver)

... : k patients

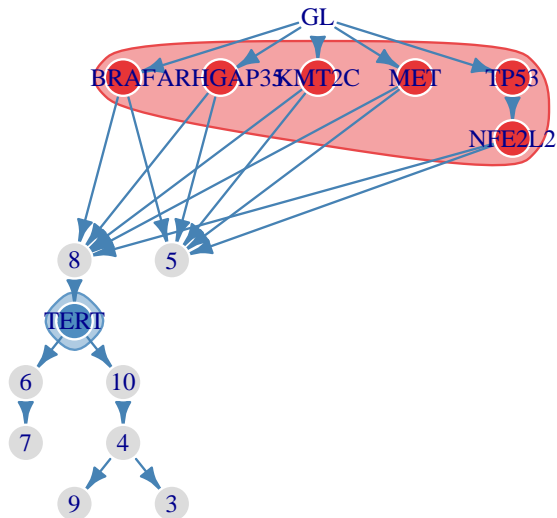
Patient: CRUK0009

CRUK0009 : evolutionary trajectories

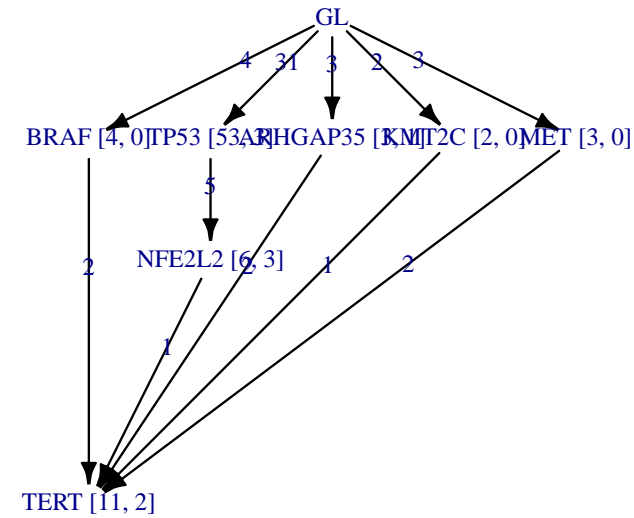
CRUK0009 : information transfer



Ranked 1/55



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0010

CRUK0010 : evolutionary trajectories

CRUK0010 : information transfer

Score

Violations

• $f = 1e+00$

• None

• $g = 1$

GL

1

2

3

Ranked 1/1

GL

SETD2

EGFR

TERT

2

3

Exploded trajectories

GL

1

20

3

SETD2 [1, 1]

EGFR [21, 1]

TERT [11, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0011

CRUK0011 : evolutionary trajectories

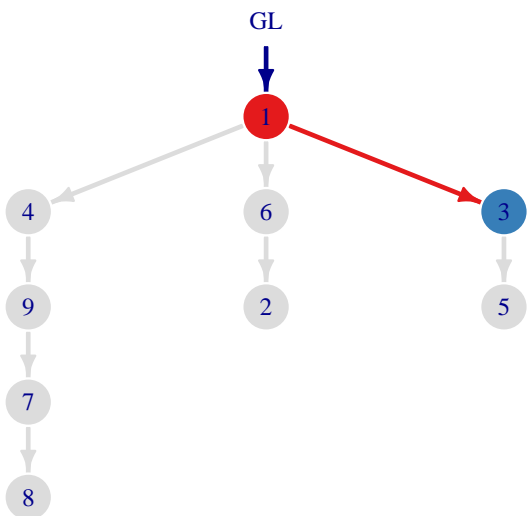
CRUK0011 : information transfer

Score

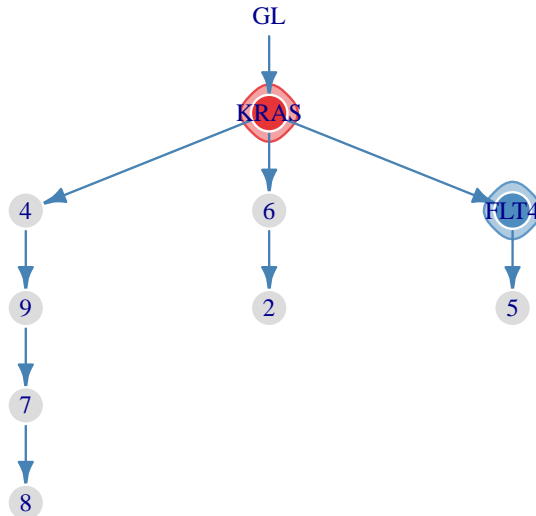
Violations

• $f = 2e-02$
• $g = 0.667$

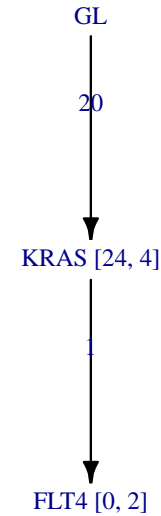
• 1 R2



Ranked 1/30



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0012

CRUK0012 : evolutionary trajectories

CRUK0012 : information transfer

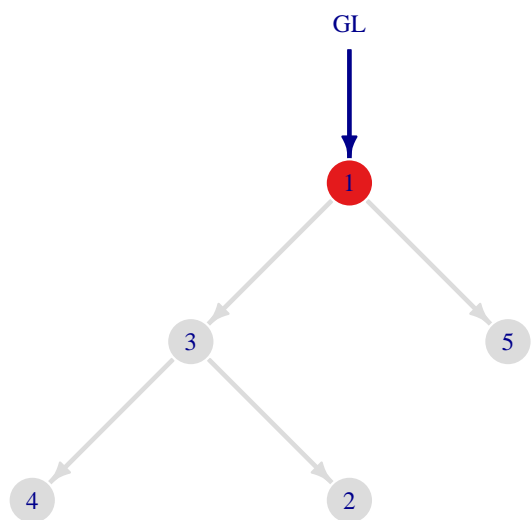
Score

• $f = 2e-01$

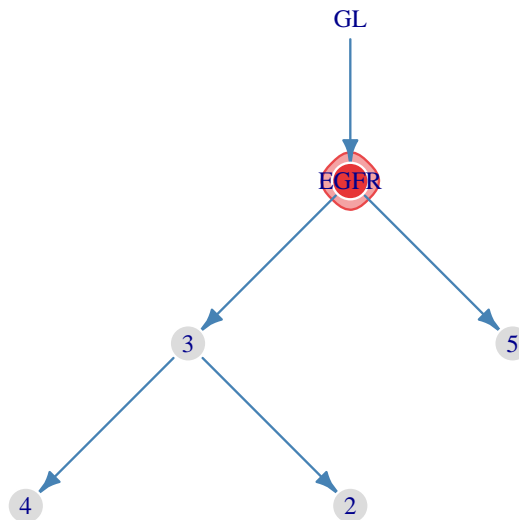
• $g = 0.5$

Violations

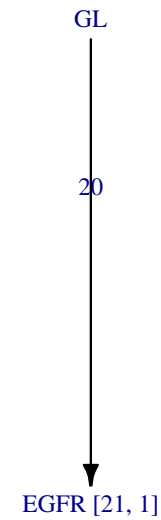
• 1 R1



Ranked 1/2



Exploded trajectories



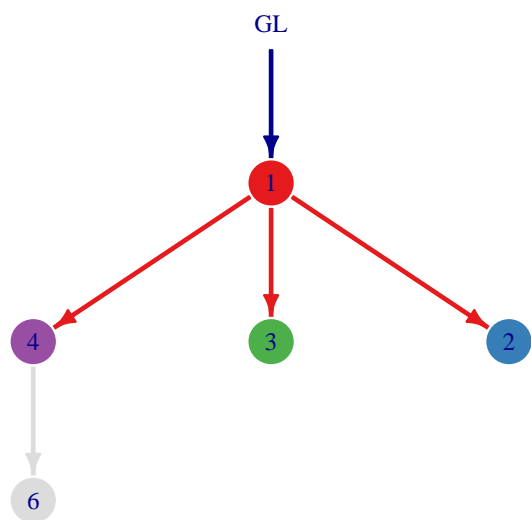
[n m]: n clonal, m subclonal (driver)

... : k patients

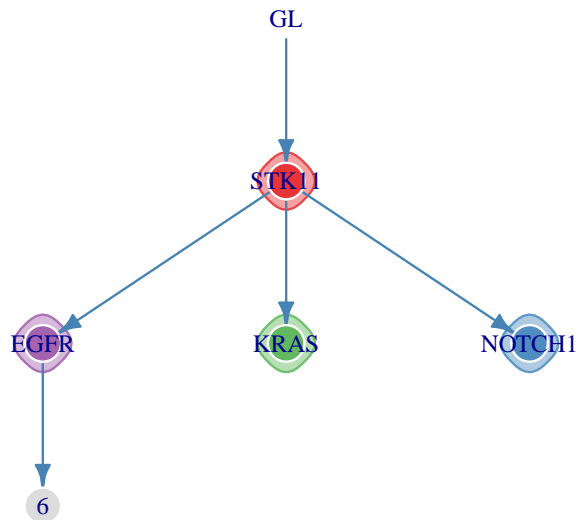
Patient: CRUK0013

CRUK0013 : evolutionary trajectories

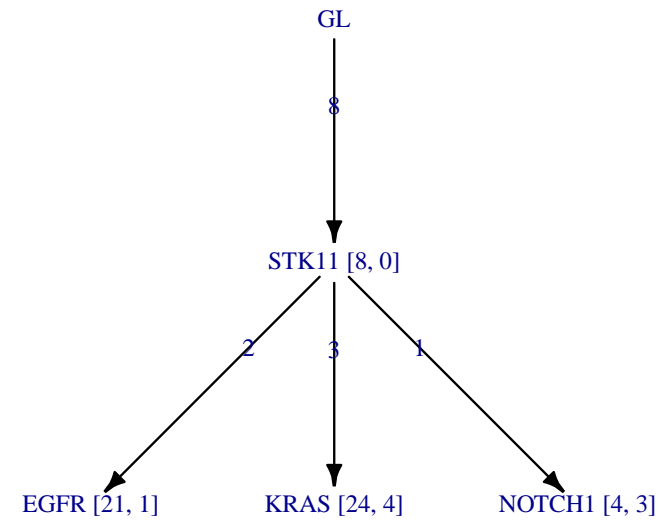
CRUK0013 : information transfer



Ranked 1/4



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0014

CRUK0014 : evolutionary trajectories

CRUK0014 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL

1

2

3

Ranked 1/1

GL

TP53

KRAS

3

RNF43

Exploded trajectories

GL

TP53 [53, 3]

KRAS [24, 4]

RNF43 [1, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0015

CRUK0015 : evolutionary trajectories

CRUK0015 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

GL

1

2

3

Ranked 1/1

GL

BAP1

EGFR

TP53

RB1

Exploded trajectories

GL

BAP1 [2, 1]

EGFR [21, 1]

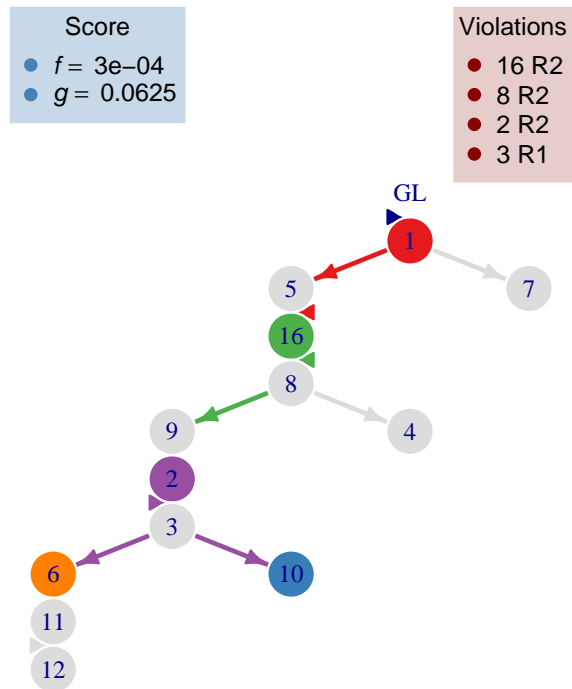
TP53 [53, 3]

RB1 [2, 2]

[n m]: n clonal, m subclonal (driver)

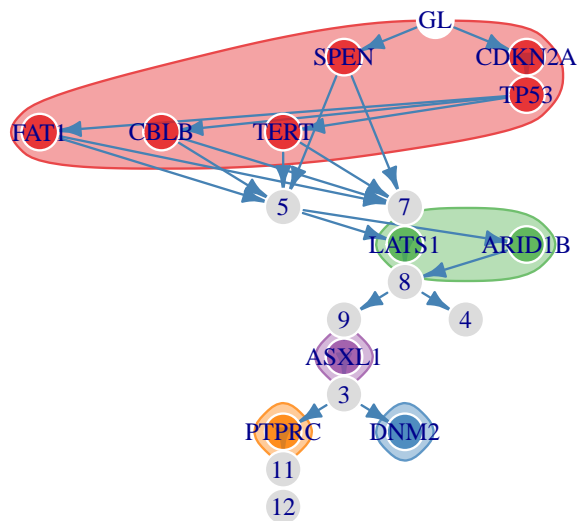
... : k patients

Patient: CRUK0016



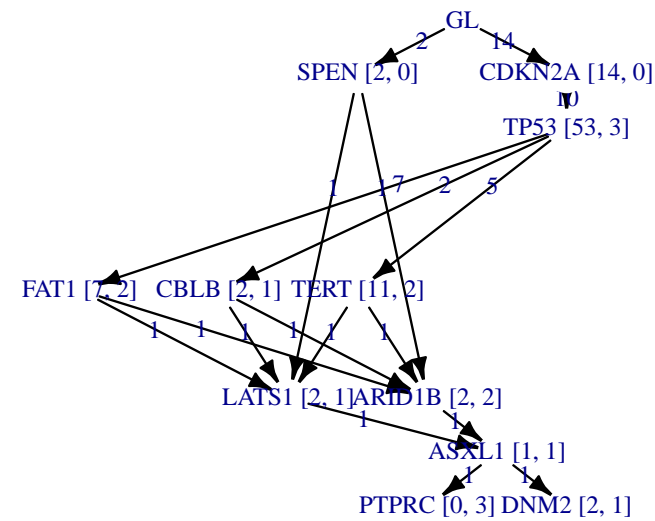
Ranked 4/56

CRUK0016 : evolutionary trajectories



Exploded trajectories

CRUK0016 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

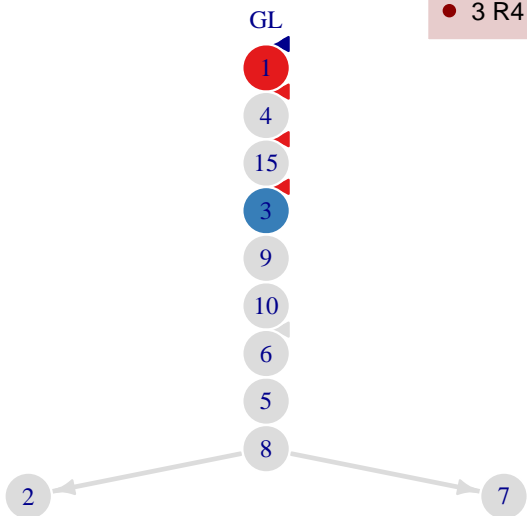
Patient: CRUK0017

Score

- $f = 5e-04$
- $g = 0.211$

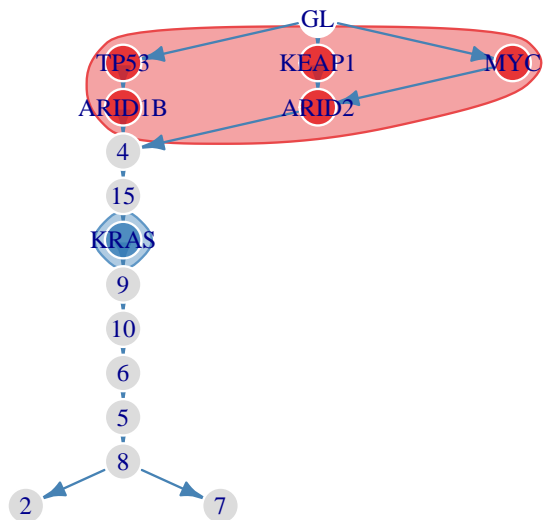
Violations

- 8 R1
- 5 R1
- 5 R4
- 10 R2
- 3 R4



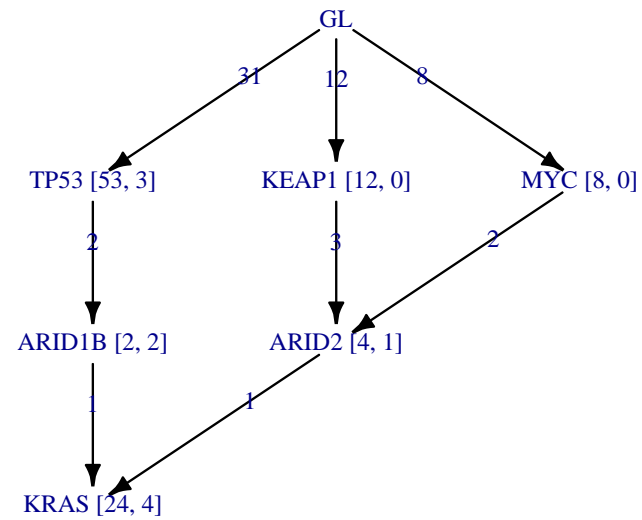
Ranked 1/200

CRUK0017 : evolutionary trajectories



Exploded trajectories

CRUK0017 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

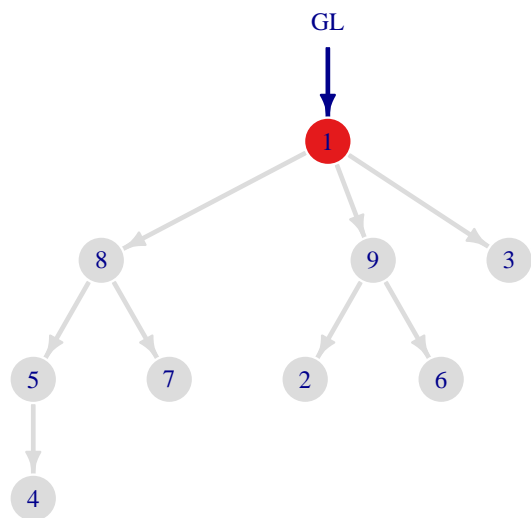
Patient: CRUK0018

Score

• $f = 5e-02$
• $g = 0.562$

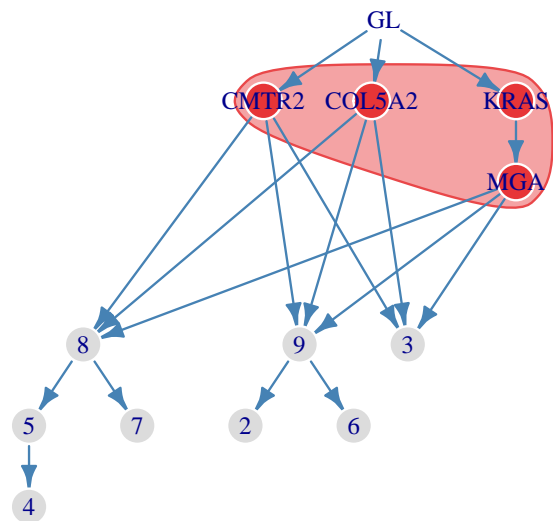
Violations

• 1 R2
• 8 R4



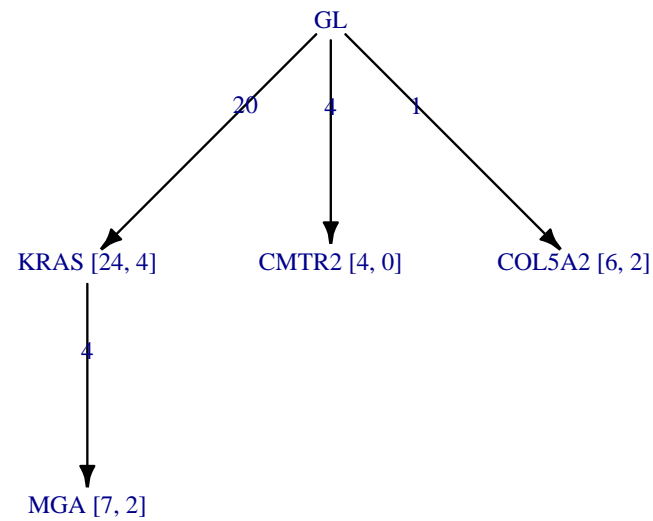
Ranked 1/10

CRUK0018 : evolutionary trajectories



Exploded trajectories

CRUK0018 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0019

CRUK0019 : evolutionary trajectories

CRUK0019 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL

1

3

2

Ranked 1/1

GL

EGFR

3

2

Exploded trajectories

GL

20

EGFR [21, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0020

CRUK0020 : evolutionary trajectories

CRUK0020 : information transfer

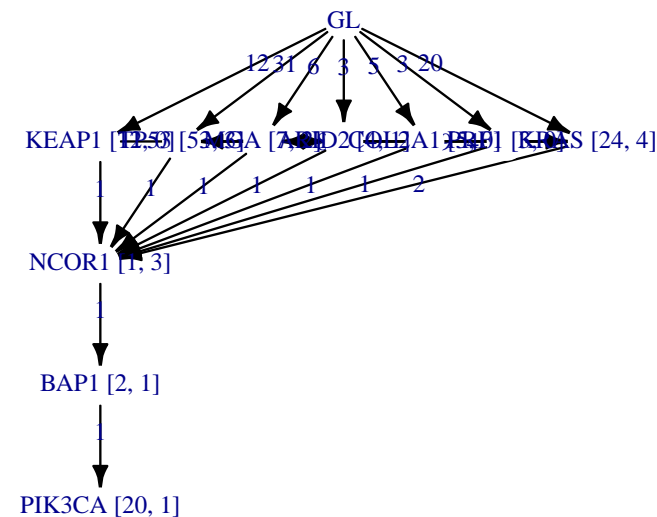
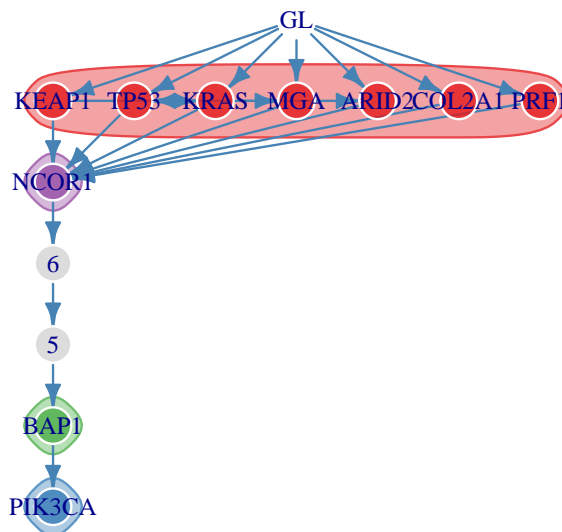
Score

• $f = 7e-03$
• $g = 0.25$

Violations

• 5 R1
• 6 R1

GL



Ranked 8/11

Exploded trajectories

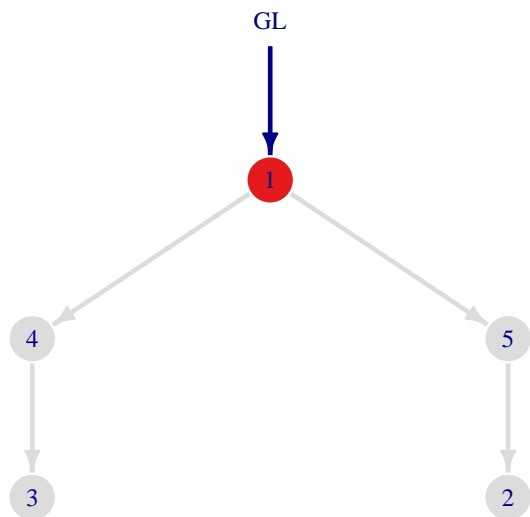
[n m]: n clonal, m subclonal (driver)

... : k patients

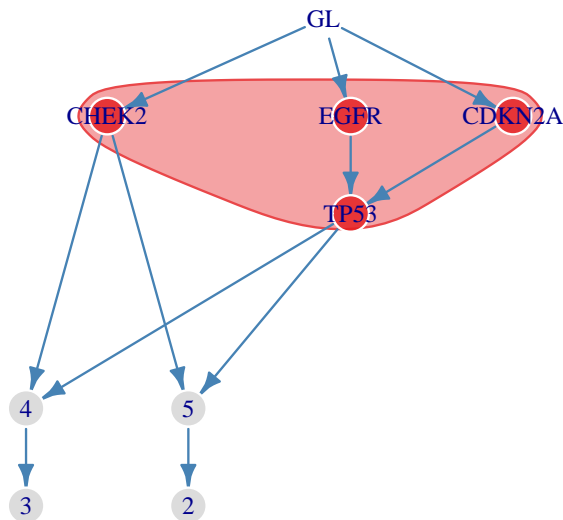
Patient: CRUK0021

CRUK0021 : evolutionary trajectories

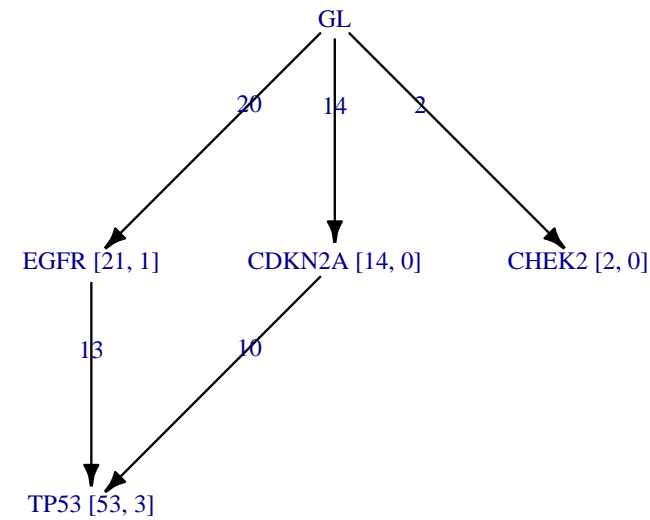
CRUK0021 : information transfer



Ranked 1/4



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0022

CRUK0022 : evolutionary trajectories

CRUK0022 : information transfer

Score

- $f = 2e-01$
- $g = 0.5$

Violations

- 2 R2

GL



1



2



3

Ranked 1/2

GL



EGFR



TP53



CIC

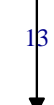
3

Exploded trajectories

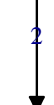
GL



EGFR [21, 1]



TP53 [53, 3]



CIC [1, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

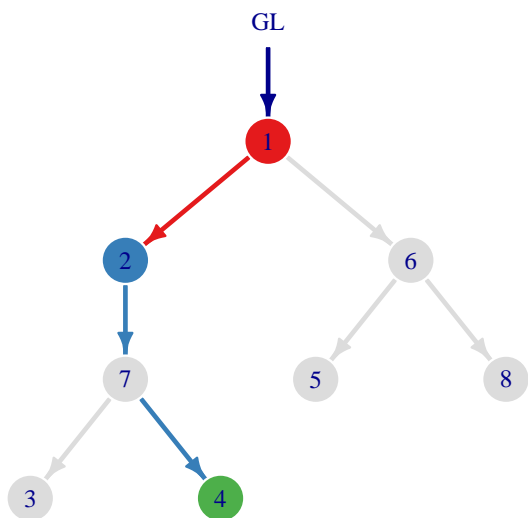
Patient: CRUK0023

Score

- $f = 3e-01$
- $g = 0.562$

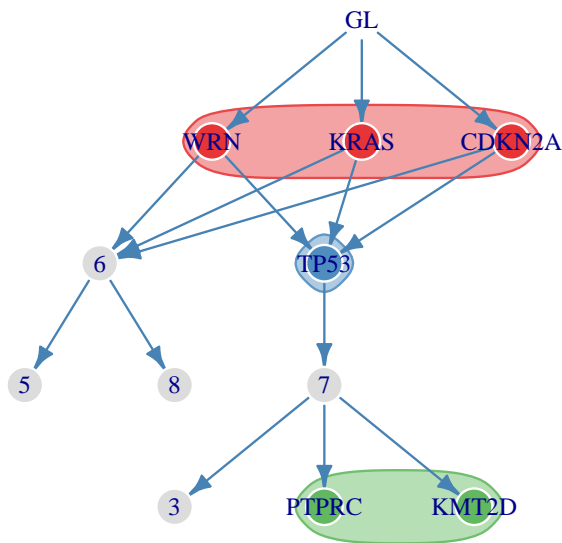
Violations

- 2 R2
- 6 R1



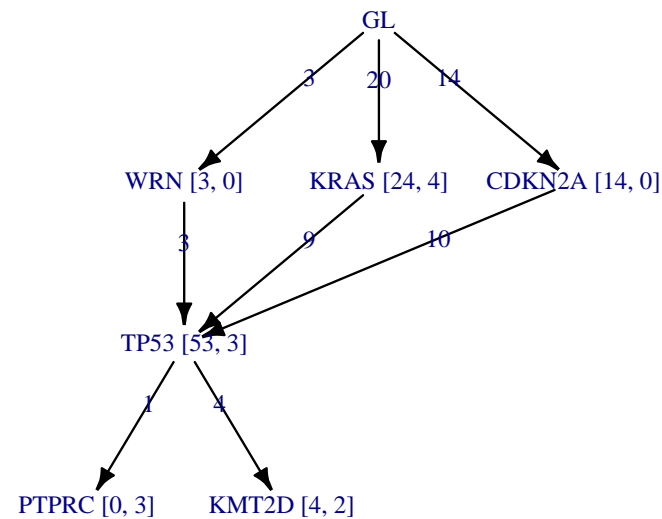
Ranked 1/2

CRUK0023 : evolutionary trajectories



Exploded trajectories

CRUK0023 : information transfer



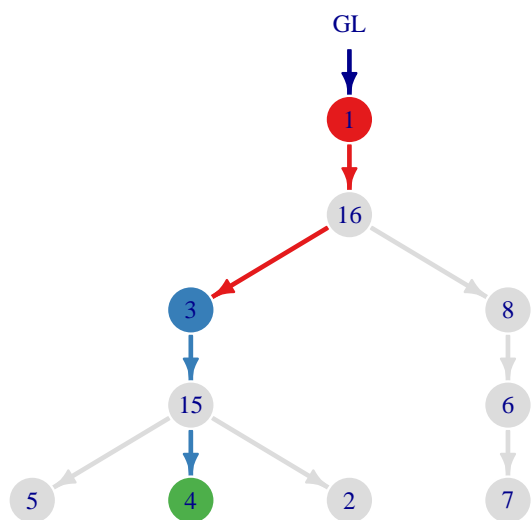
[n m]: n clonal, m subclonal (driver)

... : k patients

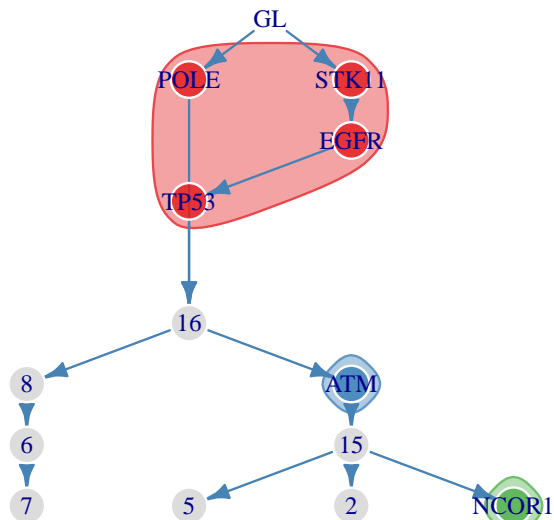
Patient: CRUK0024

CRUK0024 : evolutionary trajectories

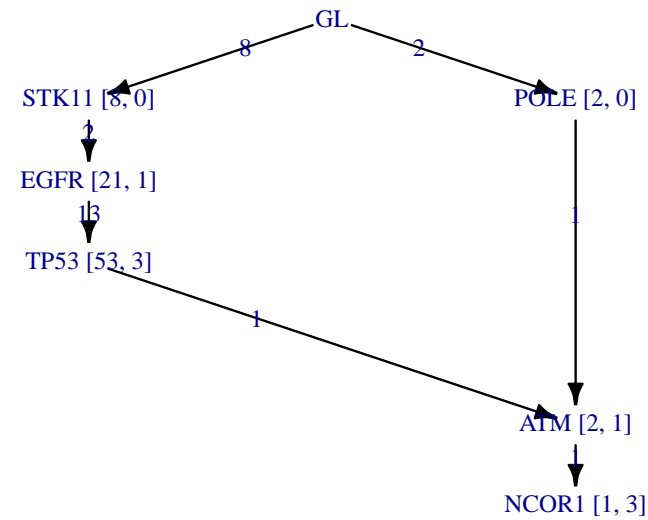
CRUK0024 : information transfer



Ranked 1/36



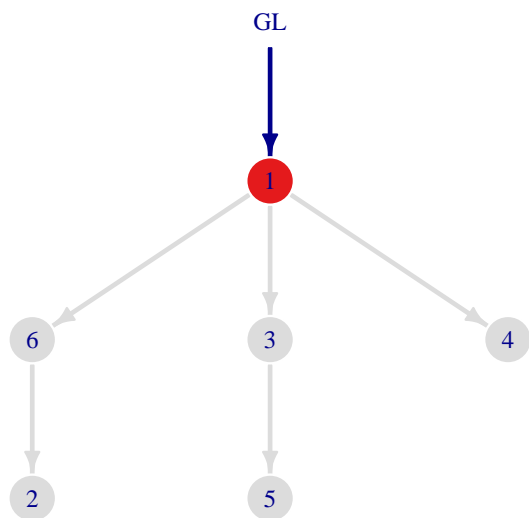
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

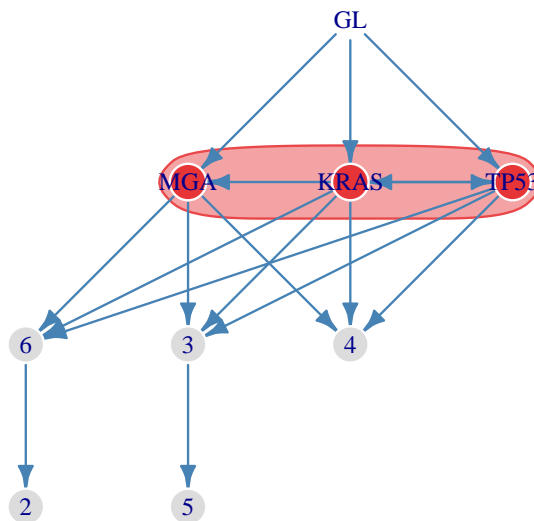
... : k patients

Patient: CRUK0025



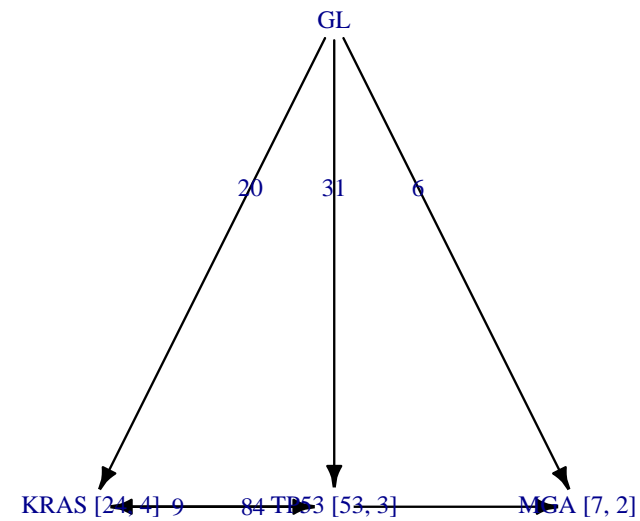
Ranked 1/2

CRUK0025 : evolutionary trajectories



Exploded trajectories

CRUK0025 : information transfer



KRAS [24, 4] 9 84 TP53 [53, 3] 6 MGA [7, 2]

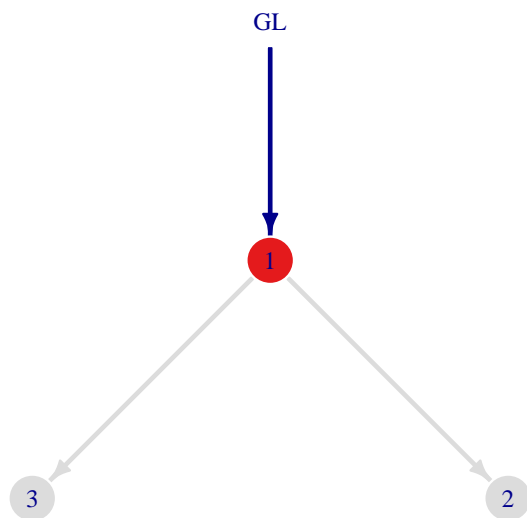
[n m]: n clonal, m subclonal (driver)

... : k patients

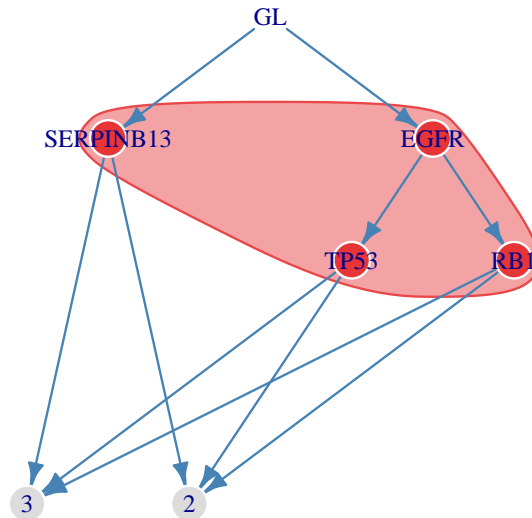
Patient: CRUK0026

CRUK0026 : evolutionary trajectories

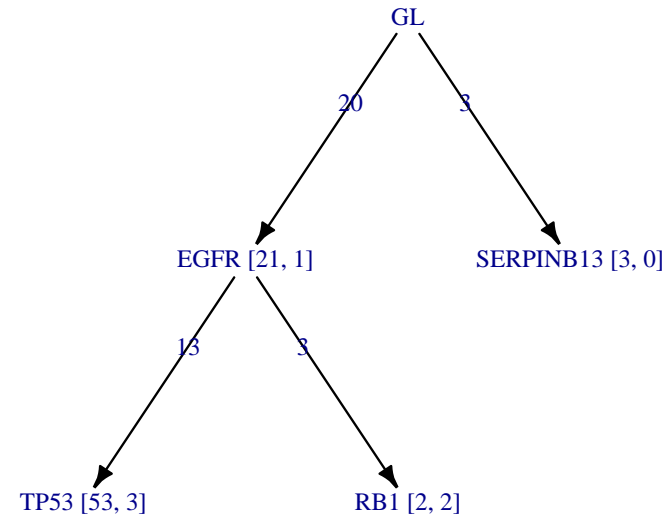
CRUK0026 : information transfer



Ranked 1/1



Exploded trajectories



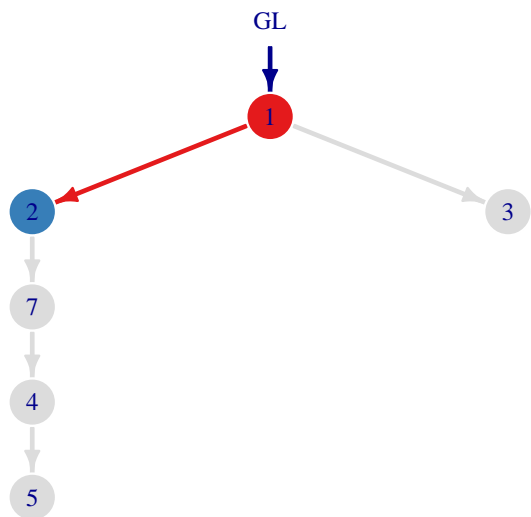
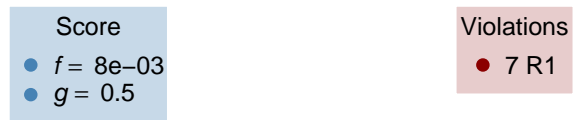
[n m]: n clonal, m subclonal (driver)

... : k patients

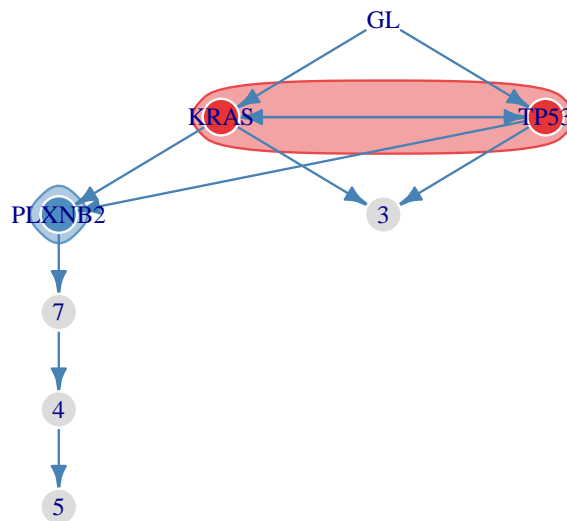
Patient: CRUK0027

CRUK0027 : evolutionary trajectories

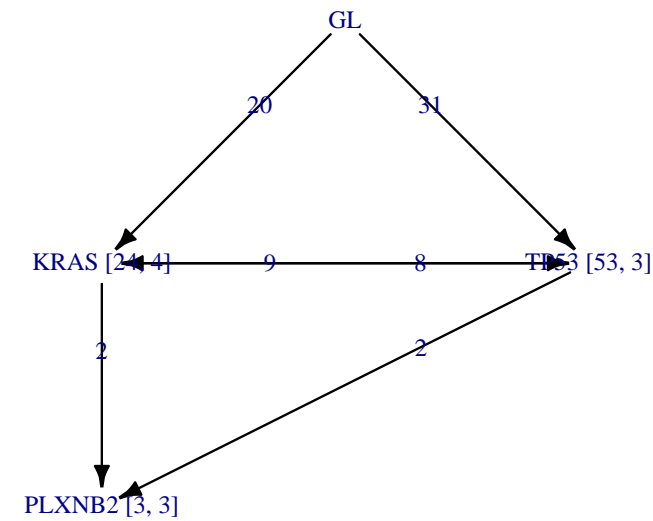
CRUK0027 : information transfer



Ranked 1/25



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0028

CRUK0028 : evolutionary trajectories

CRUK0028 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

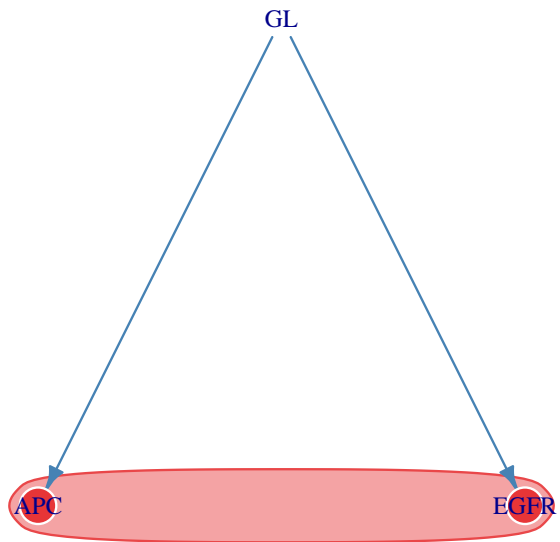
GL



1

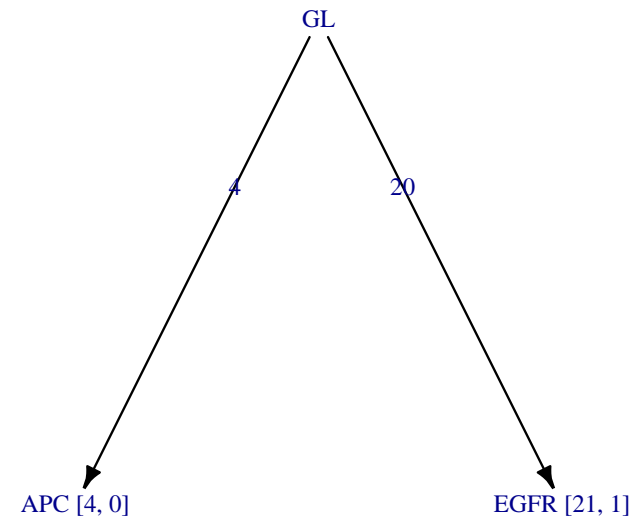
Ranked 1/1

GL



Exploded trajectories

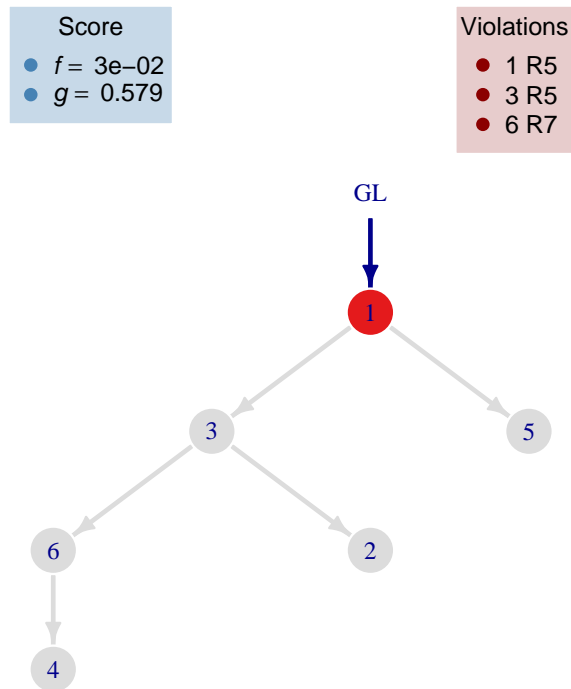
GL



[n m]: n clonal, m subclonal (driver)

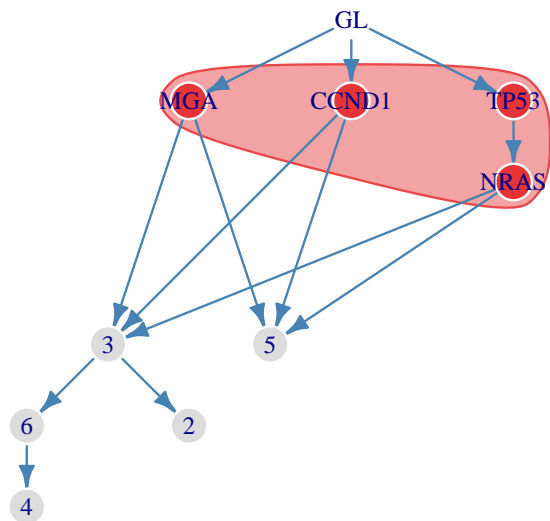
... : k patients

Patient: CRUK0029



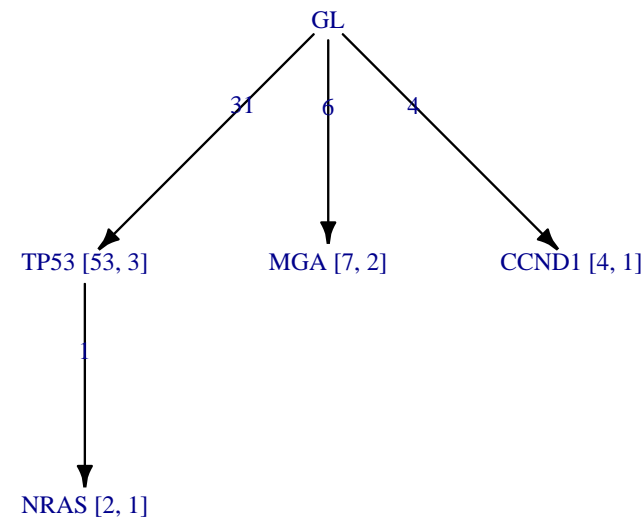
Ranked 1/24

CRUK0029 : evolutionary trajectories



Exploded trajectories

CRUK0029 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0030

CRUK0030 : evolutionary trajectories

CRUK0030 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

GL



1

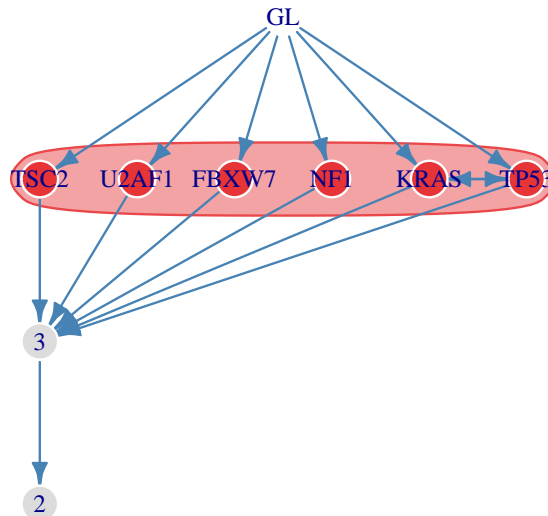


3

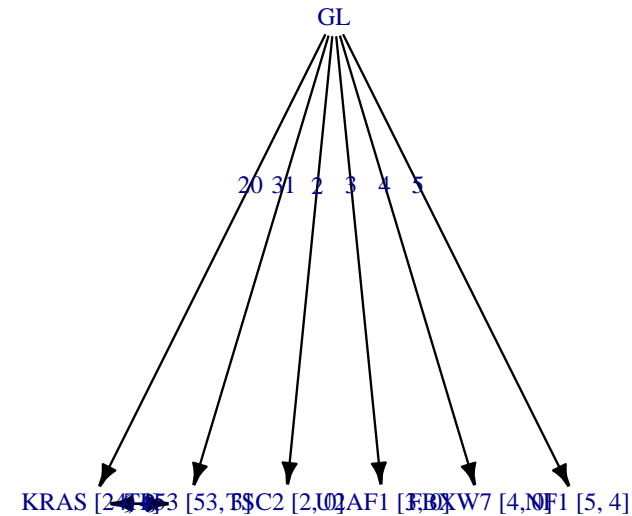


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

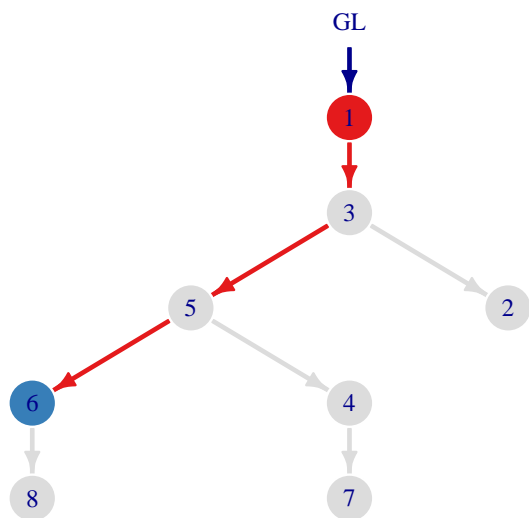
Patient: CRUK0031

Score

• $f = 8e-04$
• $g = 0.444$

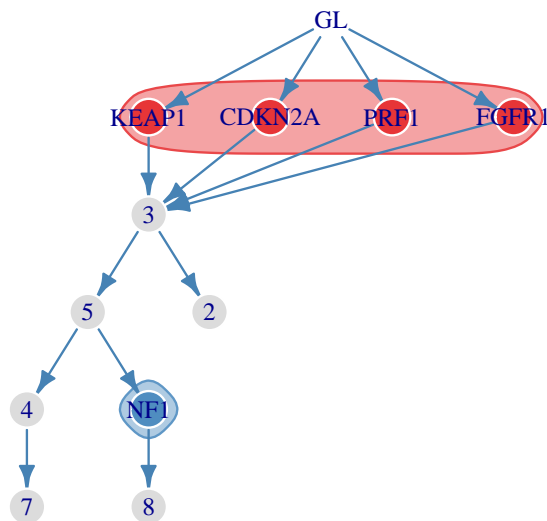
Violations

• 5 R1
• 3 R3



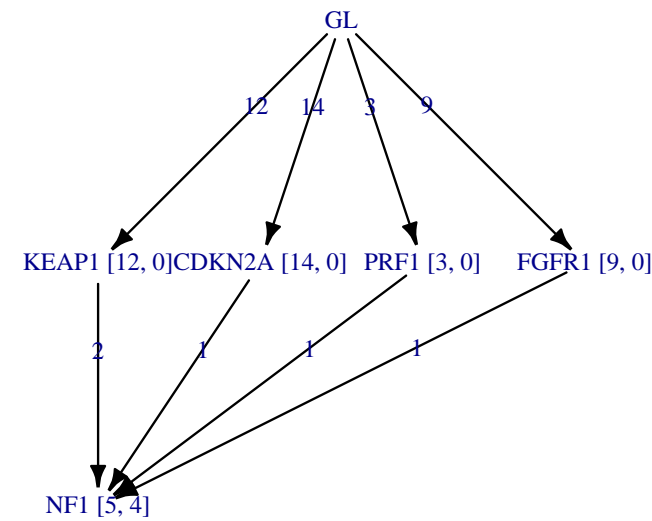
Ranked 1/200

CRUK0031 : evolutionary trajectories



Exploded trajectories

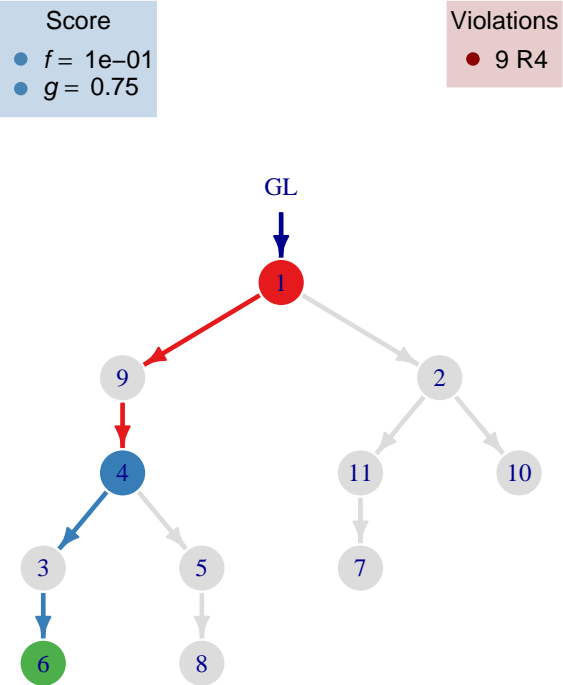
CRUK0031 : information transfer



[n m]: n clonal, m subclonal (driver)

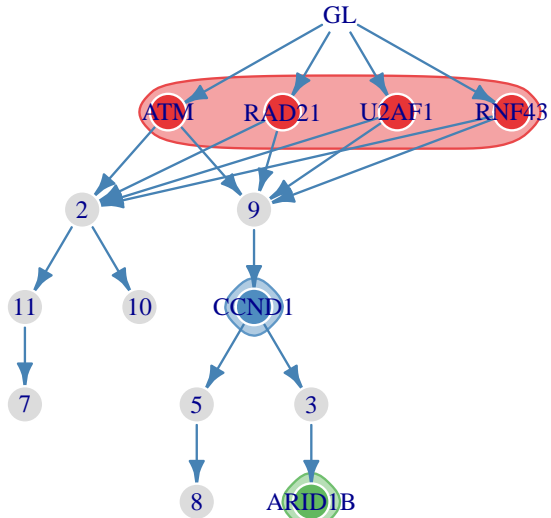
... : k patients

Patient: CRUK0032



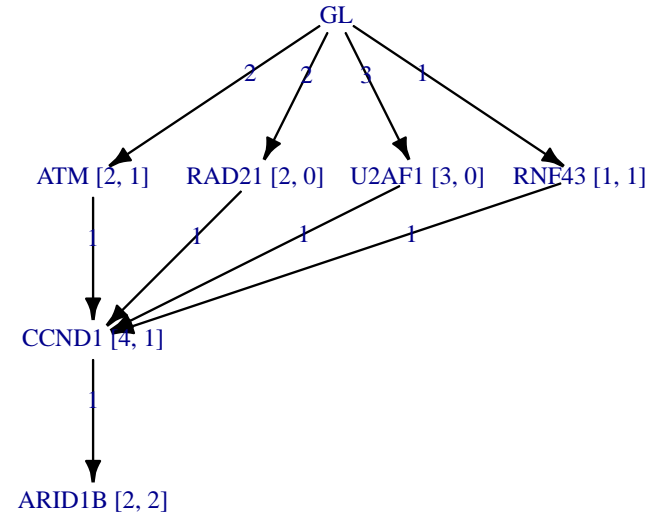
Ranked 1/4

CRUK0032 : evolutionary trajectories



Exploded trajectories

CRUK0032 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0033

CRUK0033 : evolutionary trajectories

CRUK0033 : information transfer

Score

Violations

- $f = 1e+00$
- $g = 1$

- None

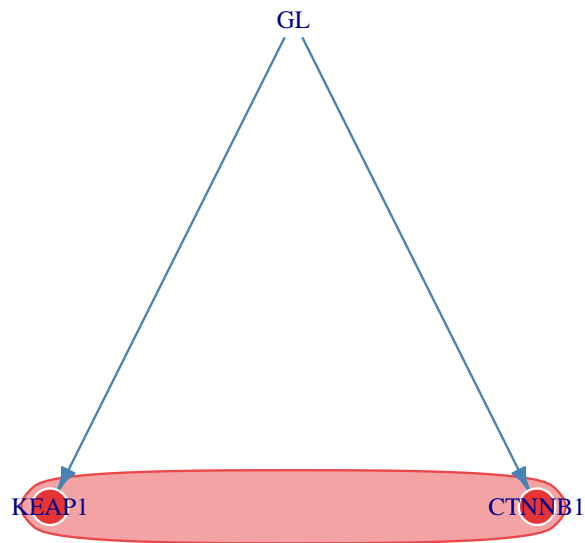
GL



1

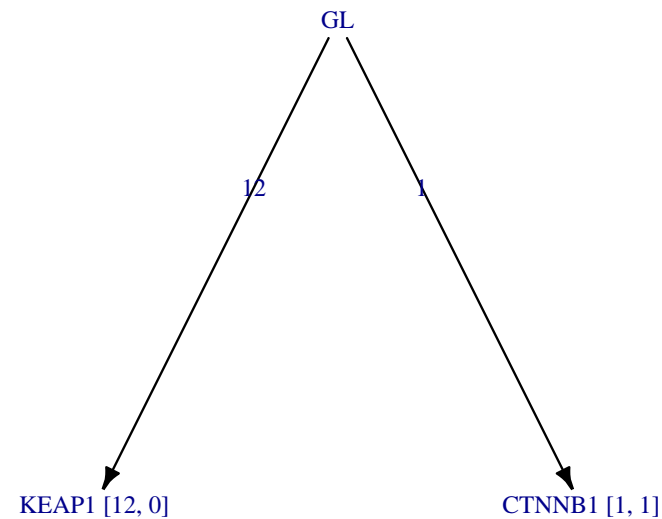
Ranked 1/1

GL



Exploded trajectories

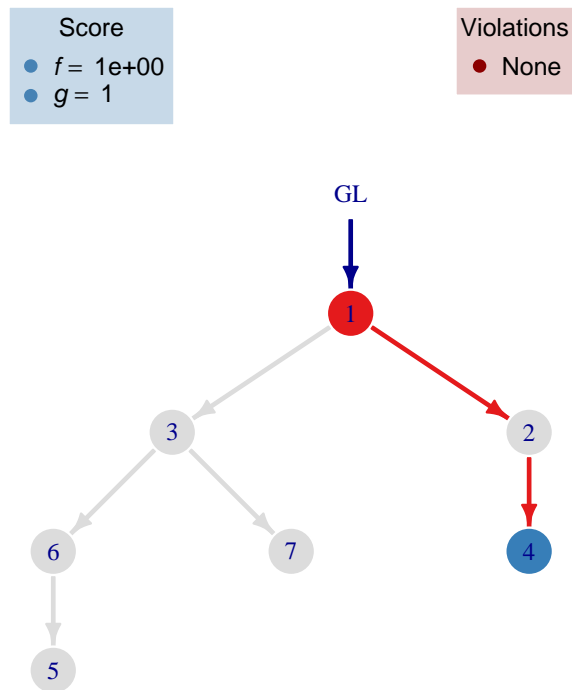
GL



[n m]: n clonal, m subclonal (driver)

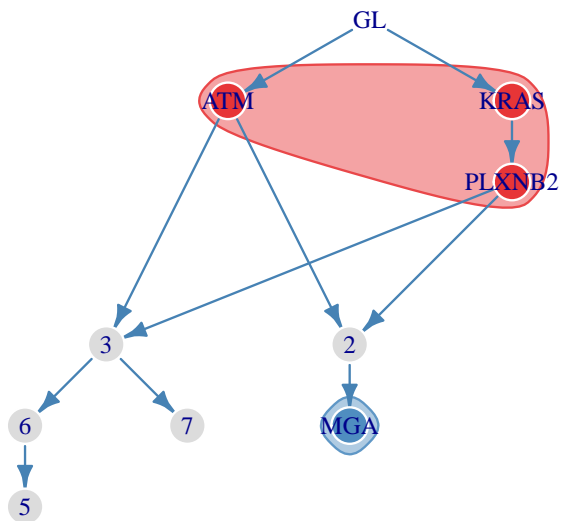
... : k patients

Patient: CRUK0034



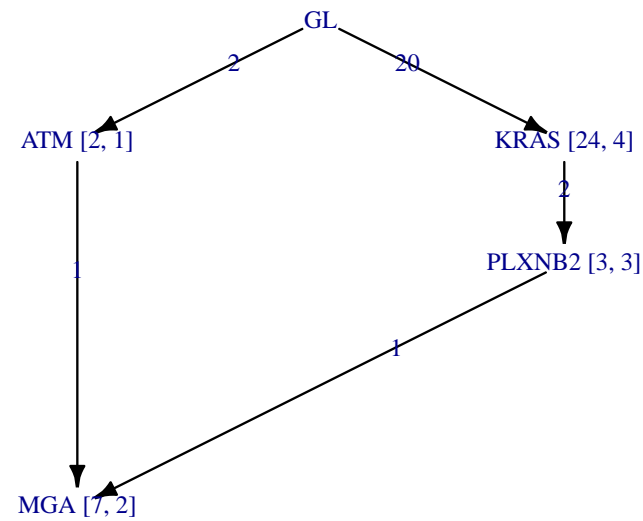
Ranked 1/1

CRUK0034 : evolutionary trajectories



Exploded trajectories

CRUK0034 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0035

CRUK0035 : evolutionary trajectories

CRUK0035 : information transfer

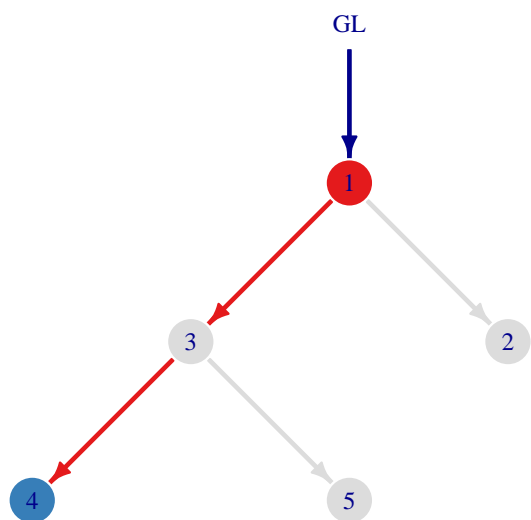
Score

Violations

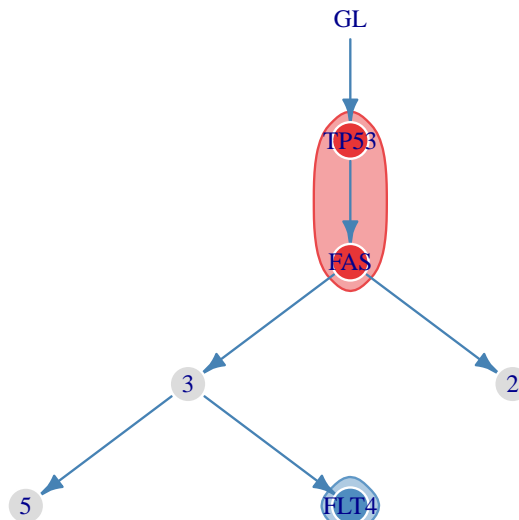
• $f = 1e+00$

• $g = 1$

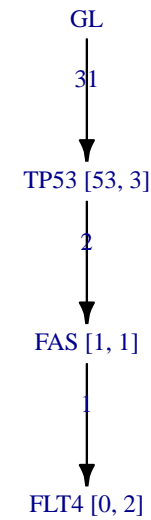
• None



Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0036

CRUK0036 : evolutionary trajectories

CRUK0036 : information transfer

Score

• $f = 1e+00$
• $g = 1$

Violations

• None

GL

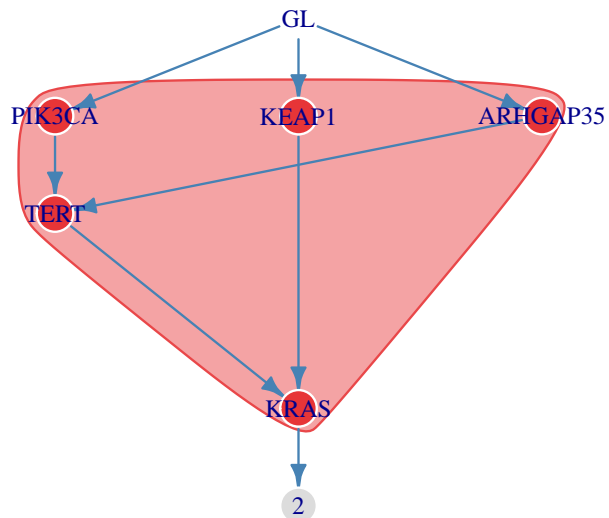


1

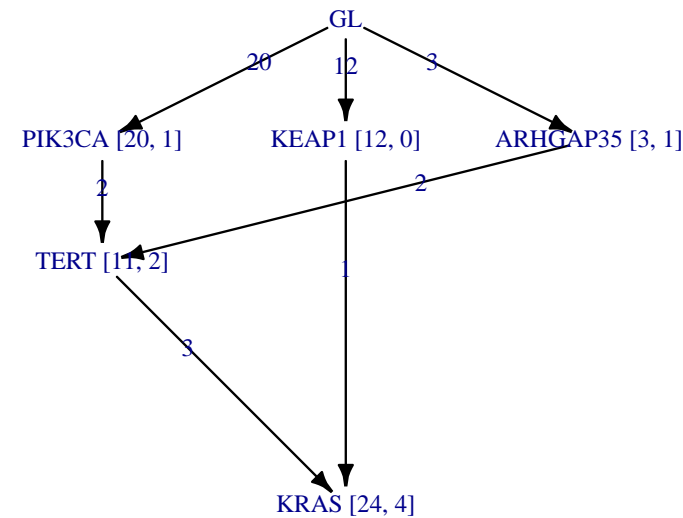


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0037

CRUK0037 : evolutionary trajectories

CRUK0037 : information transfer

Score

Violations

• $f = 9e-02$
• $g = 0.8$

• 16 R1

GL



1

16

4

5

6

2

3

4

Ranked 1/12

GL

NCOA6

CREBBP

KRAS

16

4

5

6

2

3

4

Exploded trajectories

GL

NCOA6 [4, 1]

CREBBP [4, 0]

KRAS [24, 4]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0038

CRUK0038 : evolutionary trajectories

CRUK0038 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL

1

2

3

Ranked 1/1

GL

KRAS

2

KMT2D

Exploded trajectories

GL

20

KRAS [24, 4]

2

KMT2D [4, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients

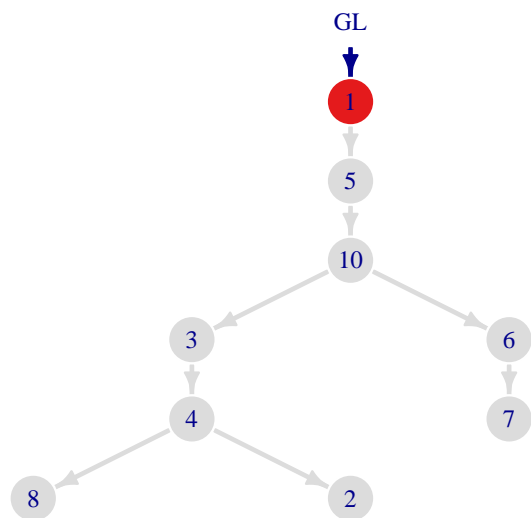
Patient: CRUK0039

Score

• $f = 7e-04$
• $g = 0.667$

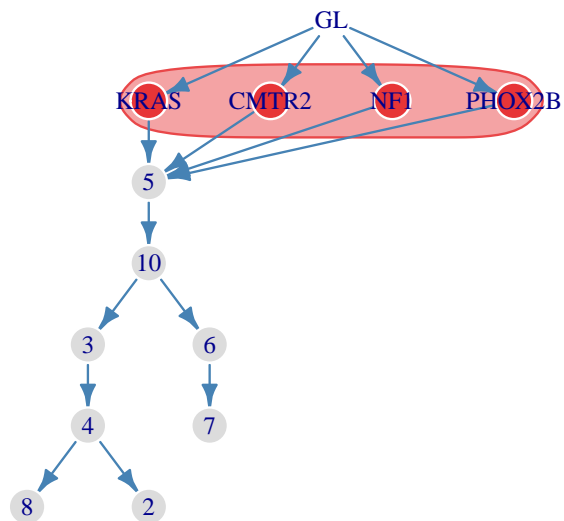
Violations

• 3 R3



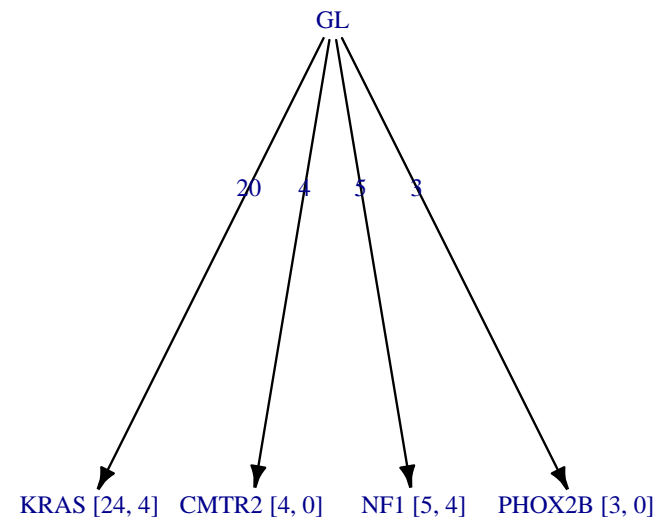
Ranked 1/200

CRUK0039 : evolutionary trajectories



Exploded trajectories

CRUK0039 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0040

CRUK0040 : evolutionary trajectories

CRUK0040 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

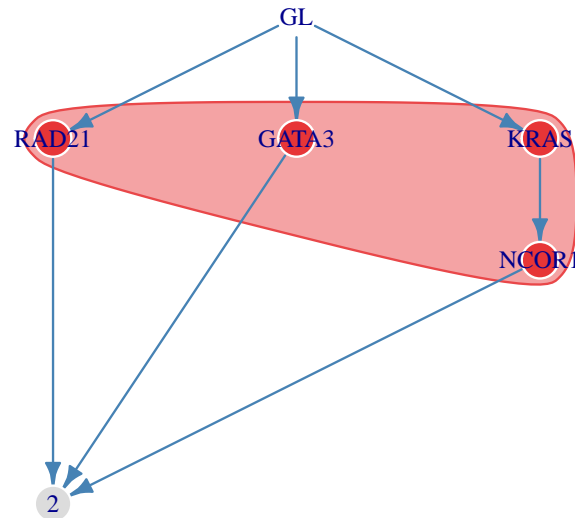
GL



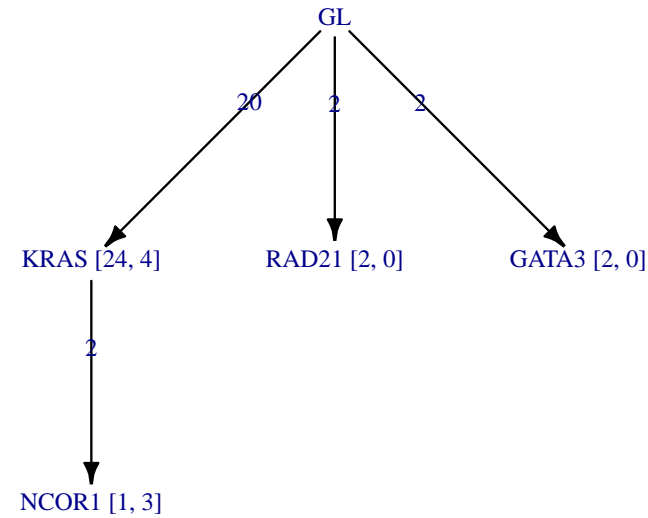
1

2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0041

CRUK0041 : evolutionary trajectories

CRUK0041 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

GL

1

2

3

Ranked 1/1

GL

EGFR

BRAF

TERT

2

3

Exploded trajectories

GL

BRAF [4, 0]

EGFR [21, 1]

TERT [11, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0042

CRUK0042 : evolutionary trajectories

CRUK0042 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1

Ranked 1/1

GL



KRAS

Exploded trajectories

GL



20

KRAS [24, 4]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0043

CRUK0043 : evolutionary trajectories

CRUK0043 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1



2

Ranked 1/1

GL



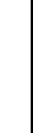
MET



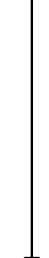
2

Exploded trajectories

GL



3



MET [3, 0]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0044

CRUK0044 : evolutionary trajectories

CRUK0044 : information transfer

Score

• $f = 8e-02$

• $g = 0.5$

Violations

• 1 R1

GL

1

3

2

4

Ranked 1/4

GL

KRAS

3

2

4

Exploded trajectories

GL

20

KRAS [24, 4]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0045

CRUK0045 : evolutionary trajectories

CRUK0045 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

GL

1

3

2

Ranked 1/1

GL

BAP1

3

2

Exploded trajectories

GL

2

BAP1 [2, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0046

CRUK0046 : evolutionary trajectories

CRUK0046 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

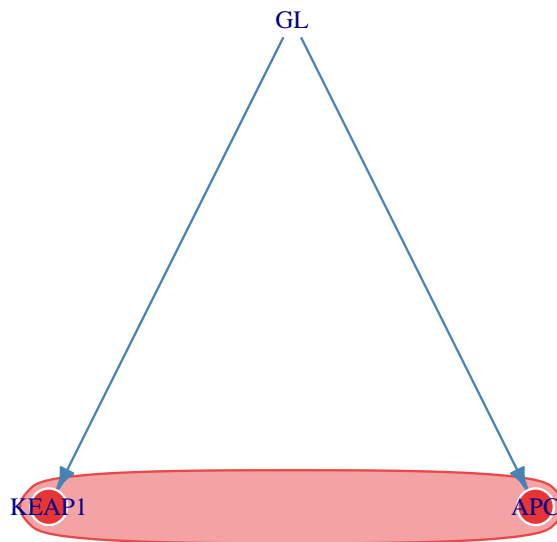
GL



1

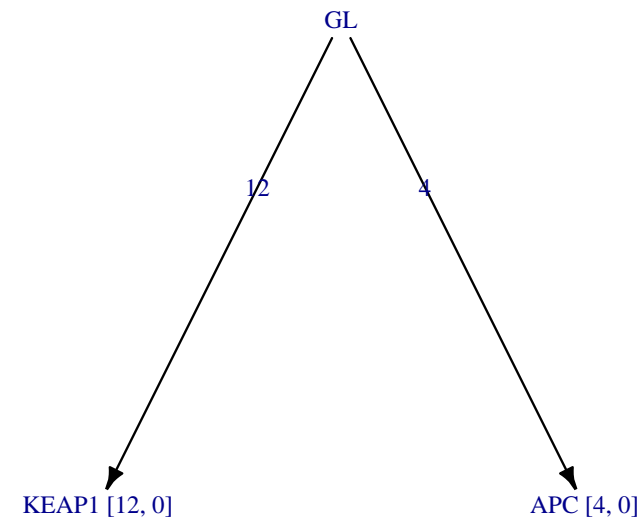
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0047

CRUK0047 : evolutionary trajectories

CRUK0047 : information transfer

Score

Violations

None

$f = 1e+00$

$g = 1$

GL

1

2

3

Ranked 1/1

GL

APC

STK11

MYC

KRAS

2

3

Exploded trajectories

GL

STK11 [8, 0]

MYC [8, 0]

APC [4, 0]

KRAS [24, 4]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0048

CRUK0048 : evolutionary trajectories

CRUK0048 : information transfer

Score

Violations

$f = 4e-01$

$g = 0.667$

1 R1

GL

1

2

3

Ranked 1/2

GL

APC

PRDM14

RHGAP35

BRAF

MYC

EGFR

TP53

2

3

Exploded trajectories

GL

20

4

2

3

4

8

EGFR [21, 1]

APC [4, 0]

PRDM14 [4, 0]

RHGAP35 [4, 0]

BRAF [4, 0]

MYC [8, 0]

13

TP53 [53, 3]

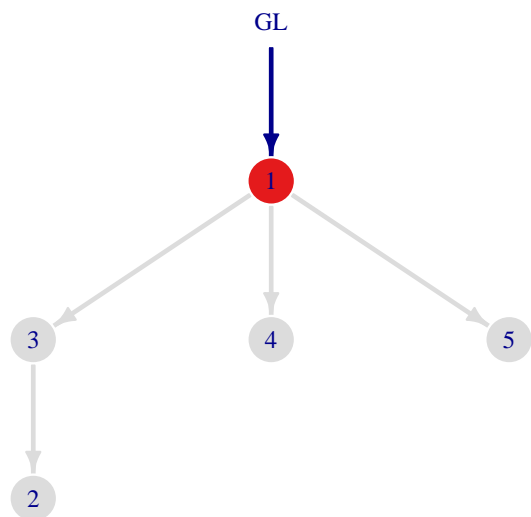
[n m]: n clonal, m subclonal (driver)

... : k patients

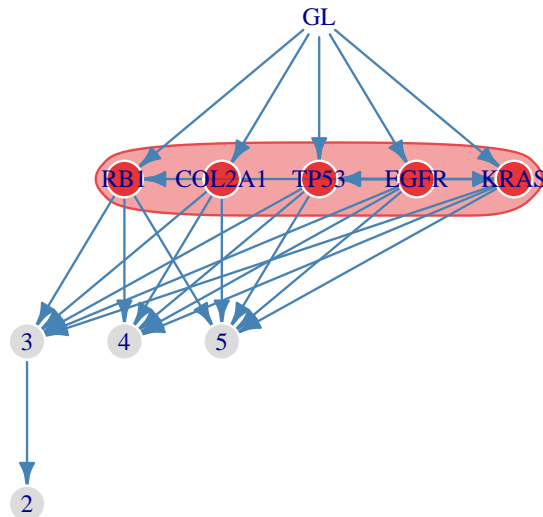
Patient: CRUK0049

CRUK0049 : evolutionary trajectories

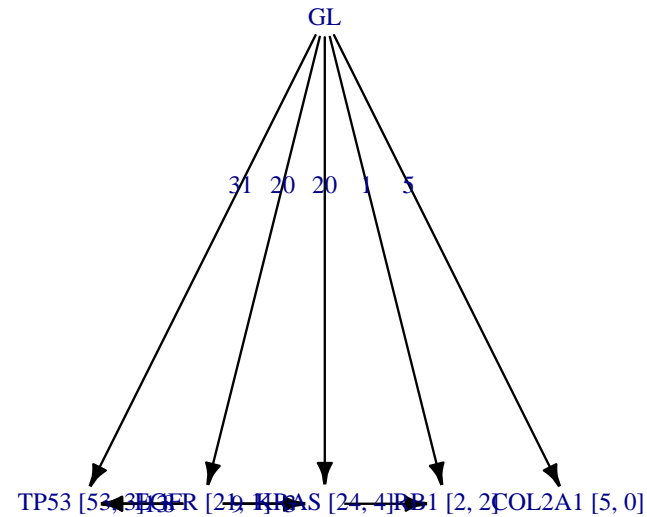
CRUK0049 : information transfer



Ranked 1/10



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0050

CRUK0050 : evolutionary trajectories

CRUK0050 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

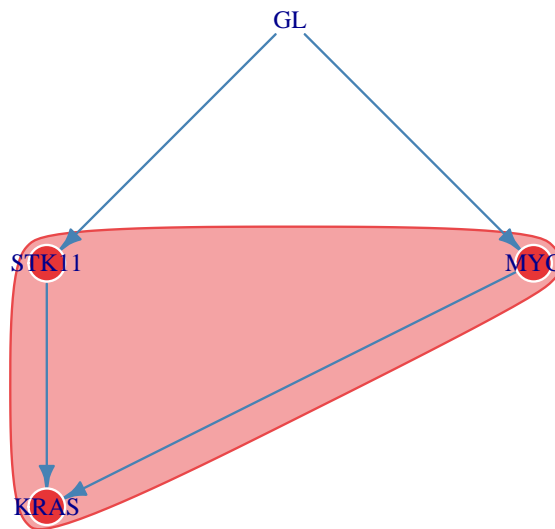
• None

GL

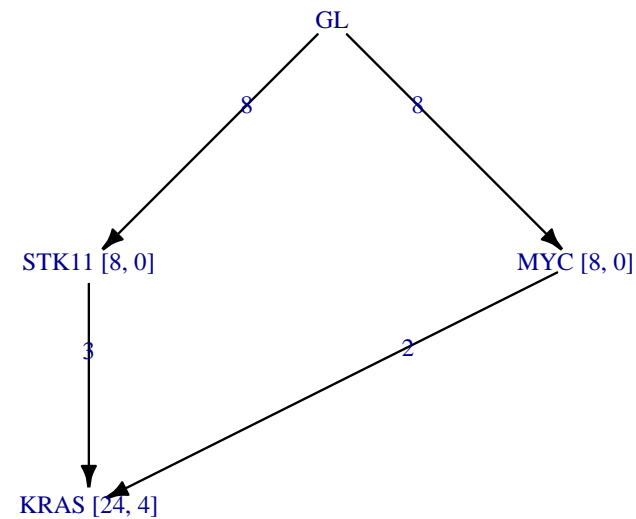


1

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0051

CRUK0051 : evolutionary trajectories

CRUK0051 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

GL

1

4

Ranked 1/1

3

2

GL

FBXW7

KRAS

TP53

EGFR

4

2

EP300

Exploded trajectories

GL

KRAS [24, 4]

FBXW7 [4, 8]

TP53 [53, 3]

EGFR [21, 1]

EP300 [0, 3]

[n m]: n clonal, m subclonal (driver)

... : k patients

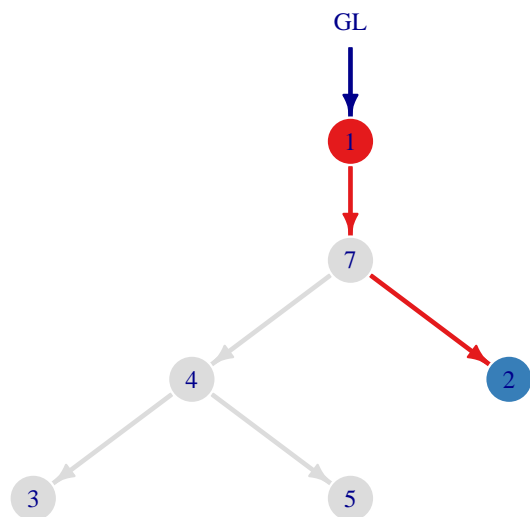
Patient: CRUK0052

Score

• $f = 3e-01$
• $g = 0.667$

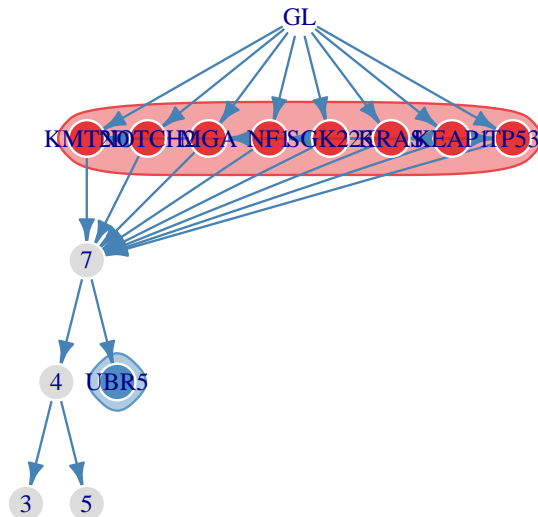
Violations

• 7 R3



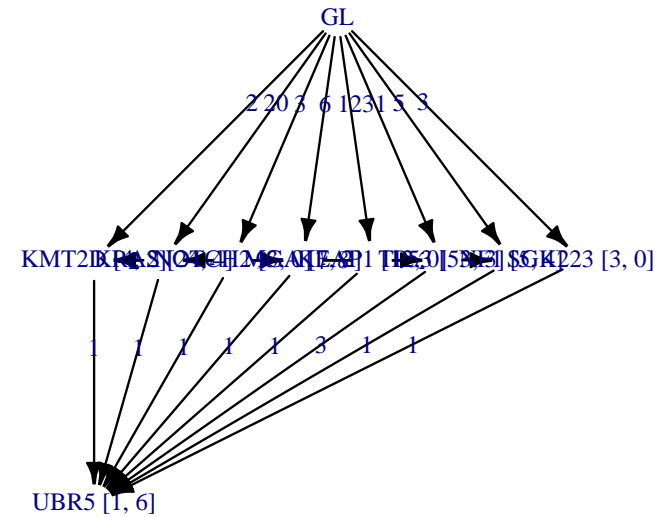
Ranked 1/2

CRUK0052 : evolutionary trajectories



Exploded trajectories

CRUK0052 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0054

CRUK0054 : evolutionary trajectories

CRUK0054 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1

Ranked 1/1

GL



EGFR

Exploded trajectories

GL



20

EGFR [21, 1]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0055

CRUK0055 : evolutionary trajectories

CRUK0055 : information transfer

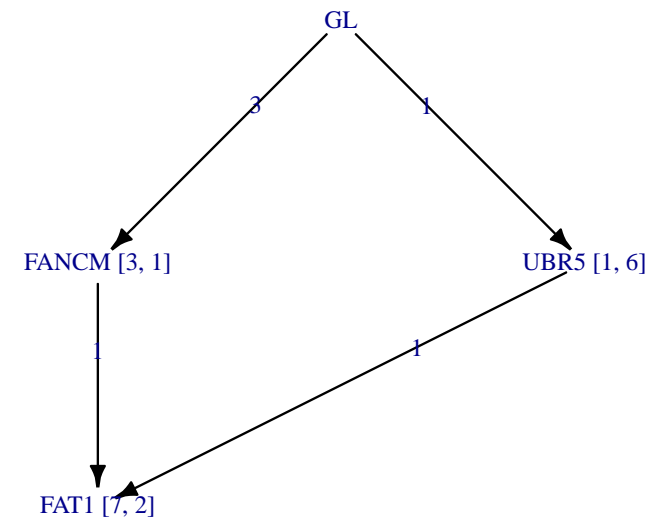
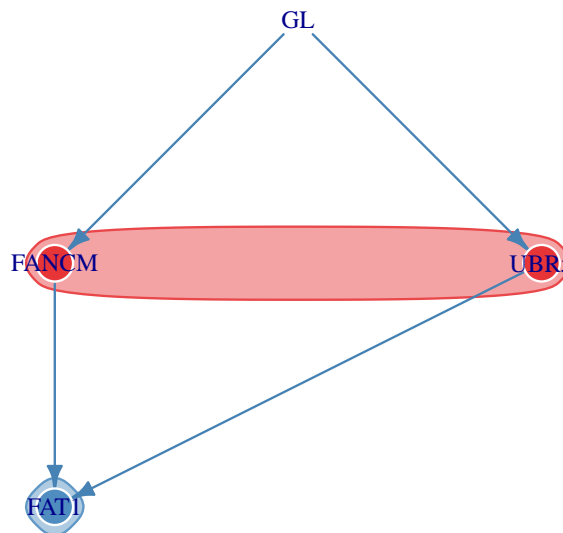
Score

- $f = 1e+00$
- $g = 1$

Violations

- None

GL



Ranked 1/1

Exploded trajectories

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0056

CRUK0056 : evolutionary trajectories

CRUK0056 : information transfer

Score

• $f = 3e-01$
• $g = 1$

Violations

• None

GL



1

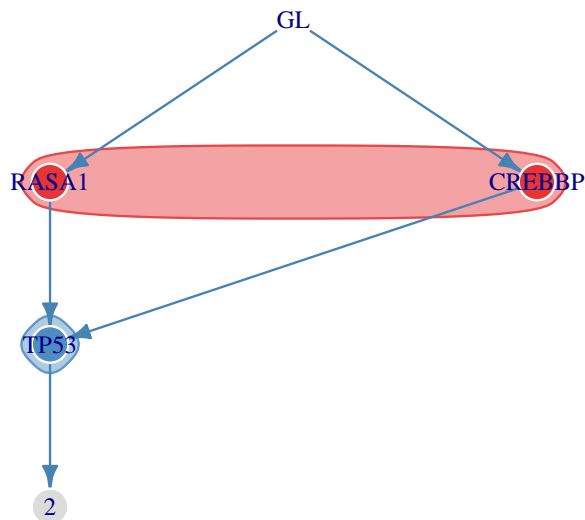


3

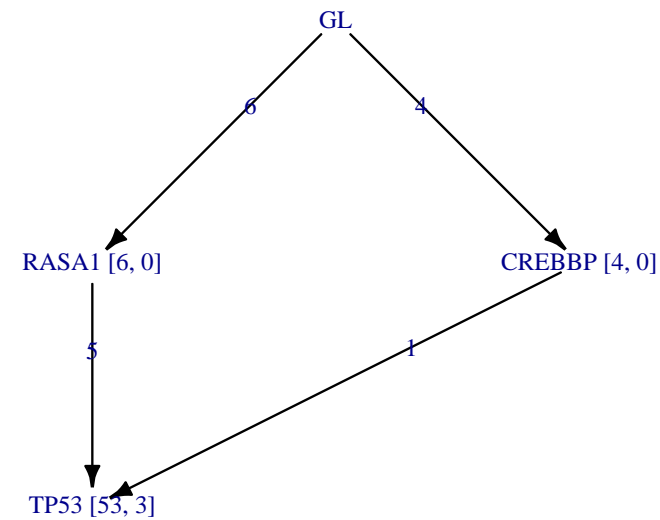


2

Ranked 1/3



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0057

Score

- $f = 2e-01$
- $g = 0.5$

Violations

- 1 R2

GL

1

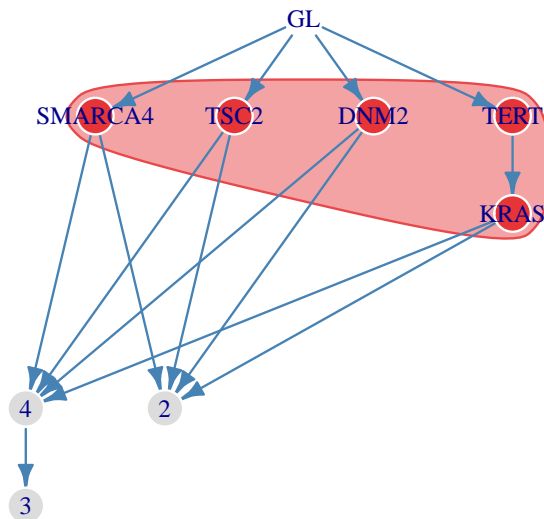
4

2

3

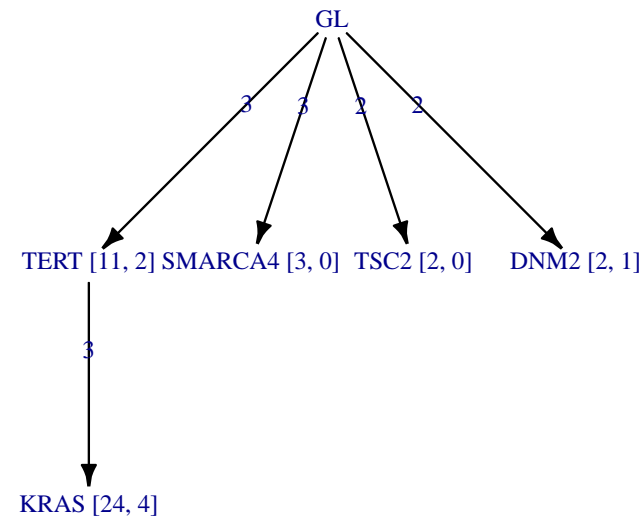
Ranked 1/2

CRUK0057 : evolutionary trajectories



Exploded trajectories

CRUK0057 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0058

CRUK0058 : evolutionary trajectories

CRUK0058 : information transfer

Score

- $f = 1e+00$
- $g = 1$

Violations

- None

GL



1

Ranked 1/1

GL



EGFR



TP53

Exploded trajectories

GL



EGFR [21, 1]



TP53 [53, 3]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0059

CRUK0059 : evolutionary trajectories

CRUK0059 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1

Ranked 1/1

GL



KRAS

Exploded trajectories

GL



20

KRAS [24, 4]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0060

CRUK0060 : evolutionary trajectories

CRUK0060 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

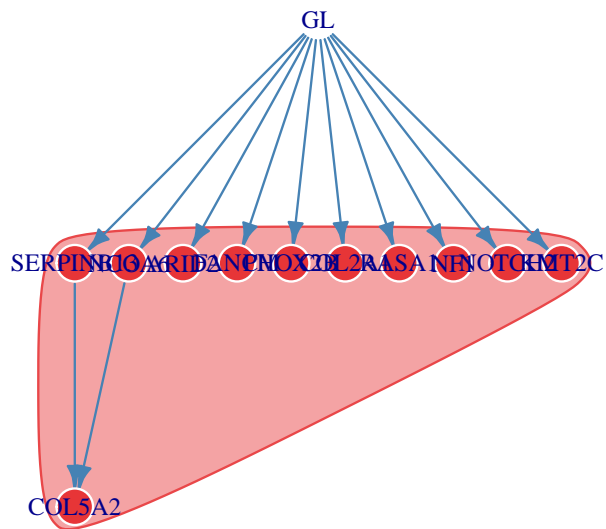
● None

GL

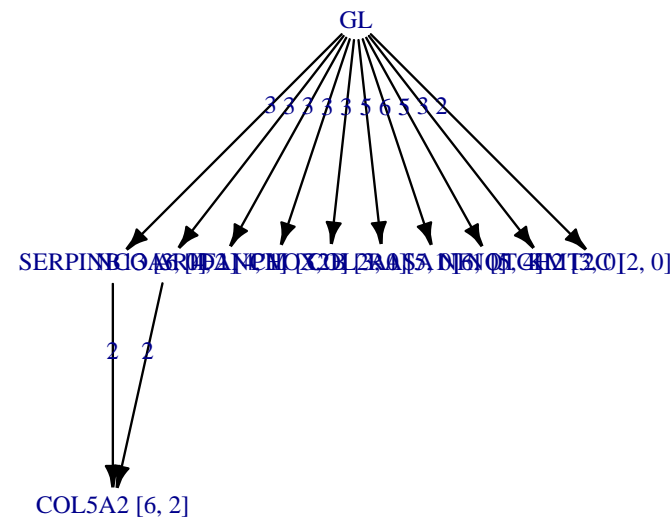


1

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0061

CRUK0061 : evolutionary trajectories

CRUK0061 : information transfer

Score

- $f = 1e+00$
- $g = 1$

Violations

- None

GL



1

Ranked 1/1

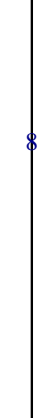
GL



STK11

Exploded trajectories

GL



STK11 [8, 0]

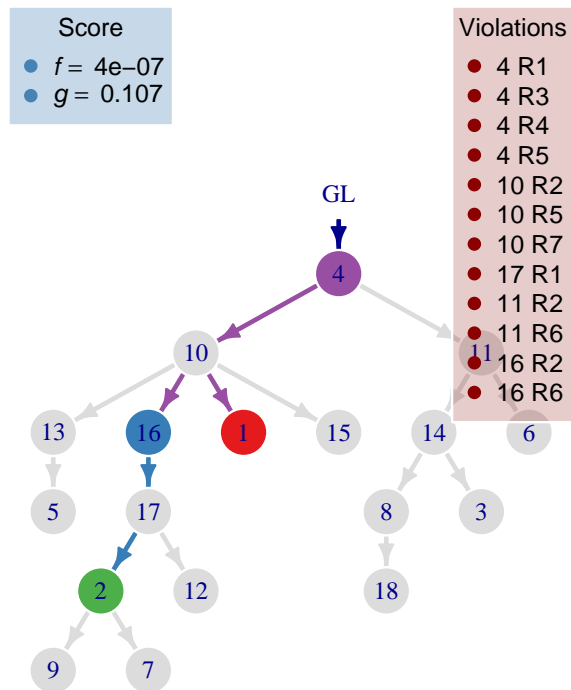
[n m]: n clonal, m subclonal (driver)

... : k patients

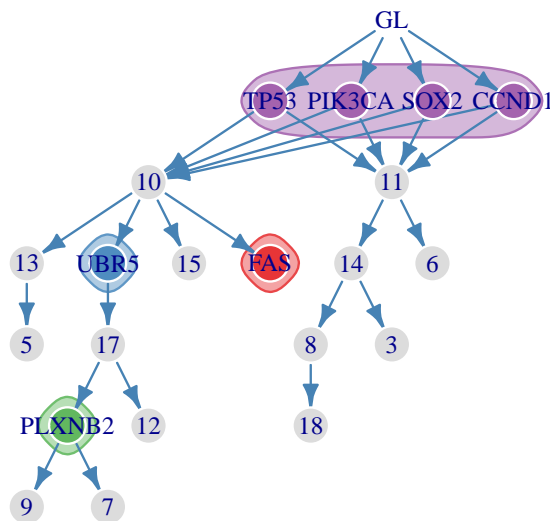
Patient: CRUK0062

CRUK0062 : evolutionary trajectories

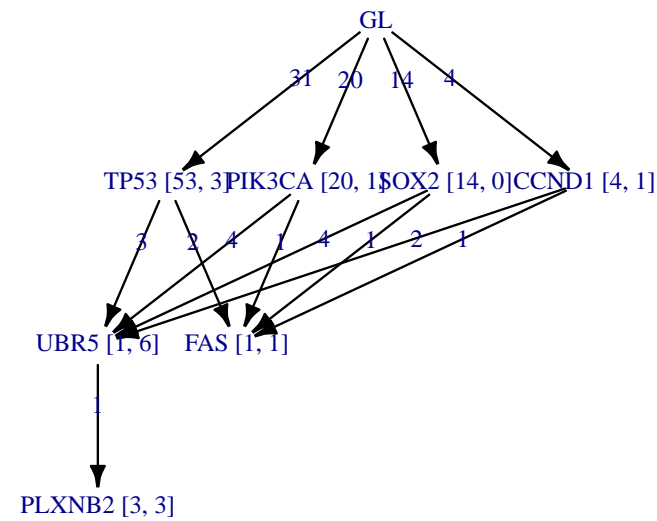
CRUK0062 : information transfer



Ranked 1/200



Exploded trajectories



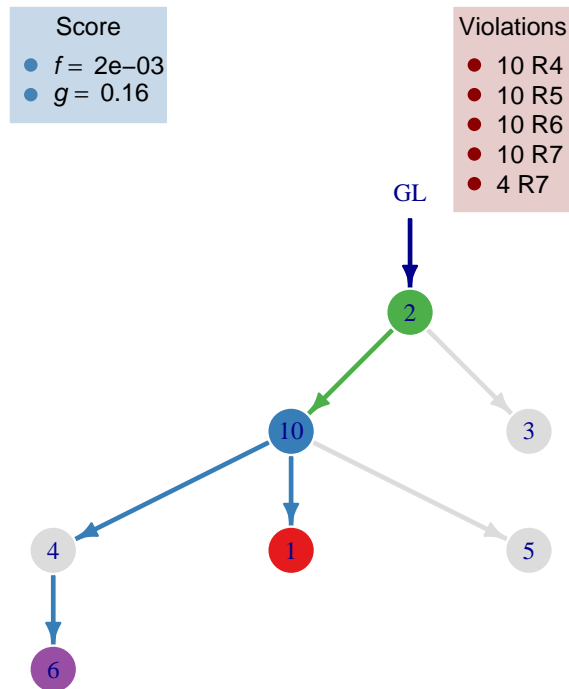
[n m]: n clonal, m subclonal (driver)

... : k patients

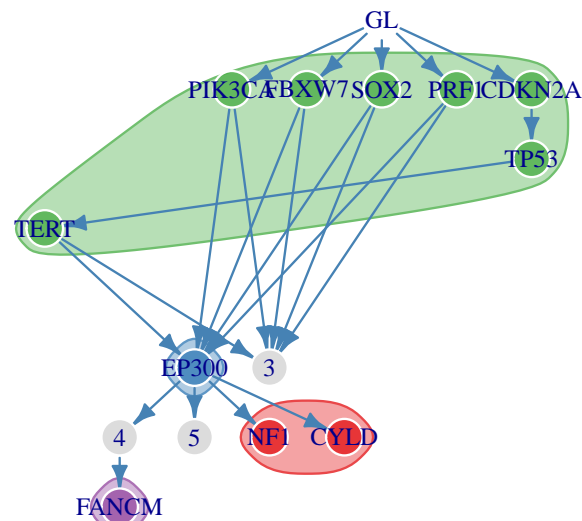
Patient: CRUK0063

CRUK0063 : evolutionary trajectories

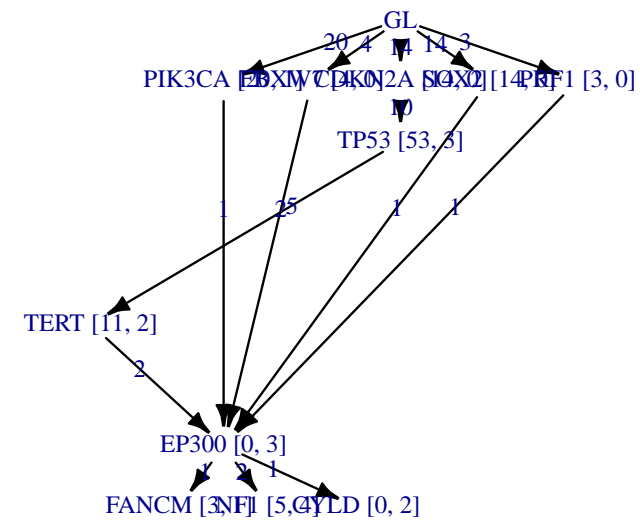
CRUK0063 : information transfer



Ranked 11/150



Exploded trajectories



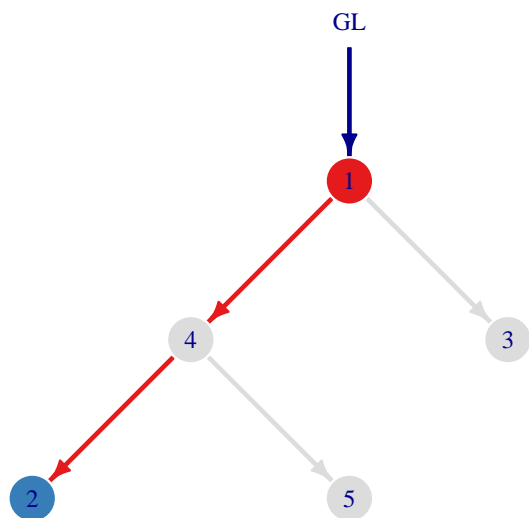
[n m]: n clonal, m subclonal (driver)

... : k patients

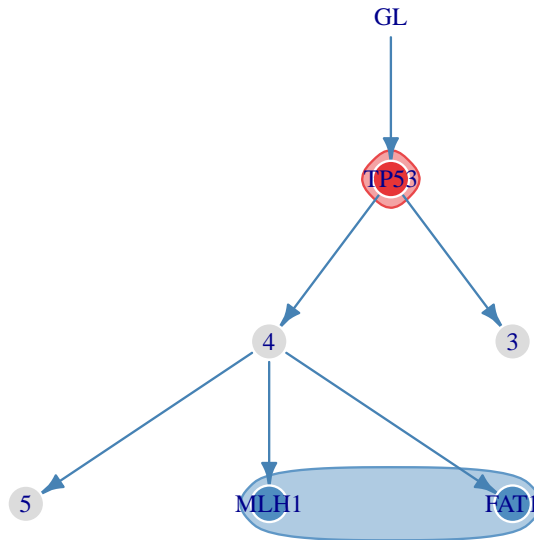
Patient: CRUK0064

CRUK0064 : evolutionary trajectories

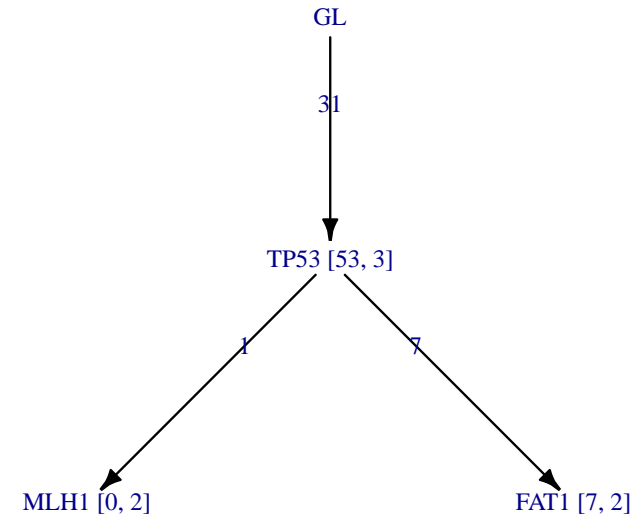
CRUK0064 : information transfer



Ranked 1/4



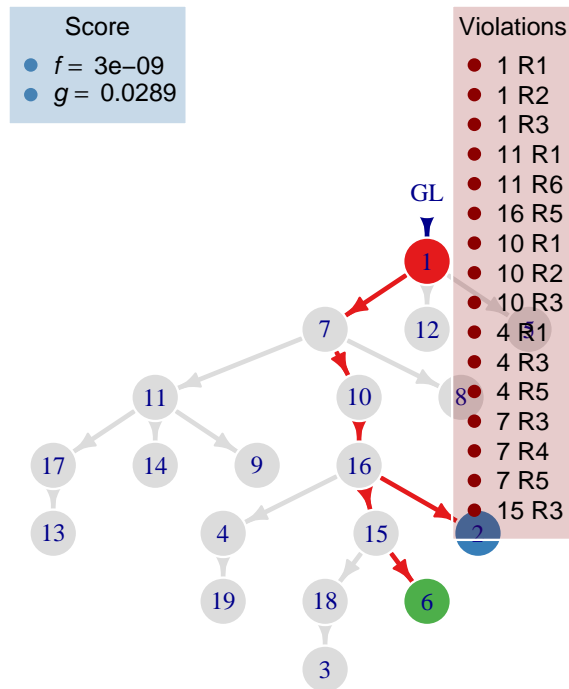
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

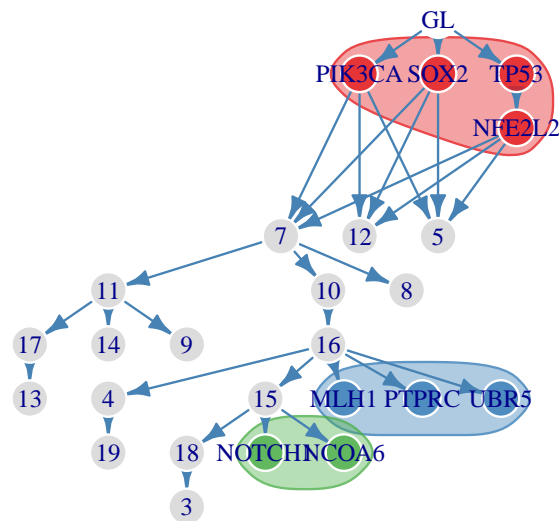
... : k patients

Patient: CRUK0065



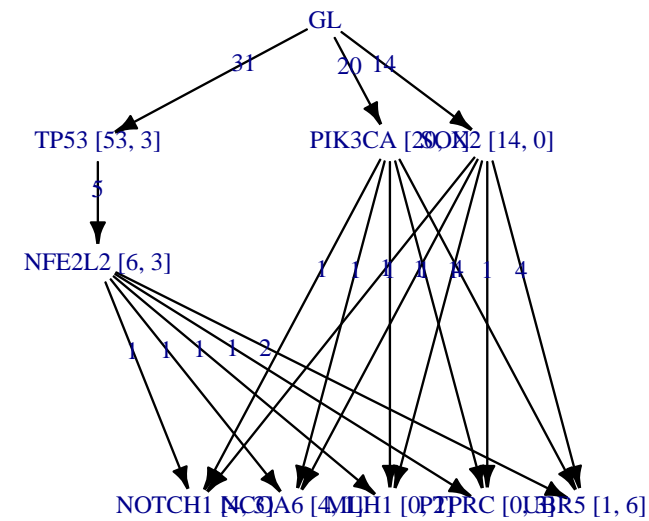
Ranked 1/200

CRUK0065 : evolutionary trajectories



Exploded trajectories

CRUK0065 : information transfer



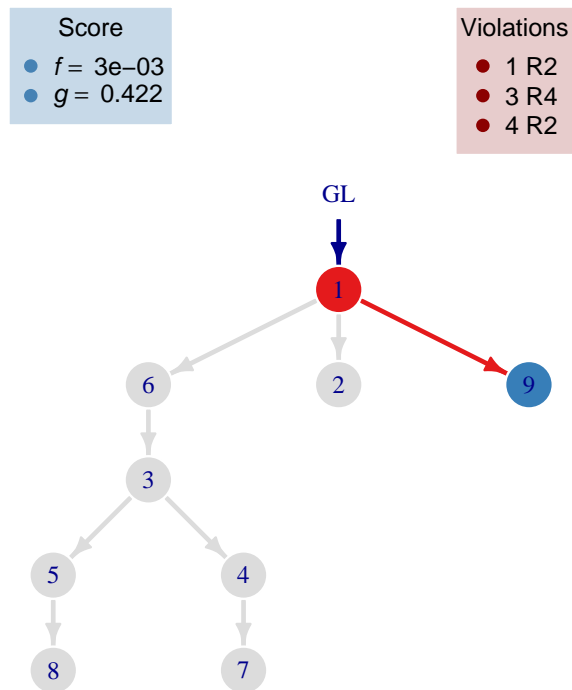
[n m]: n clonal, m subclonal (driver)

... : k patients

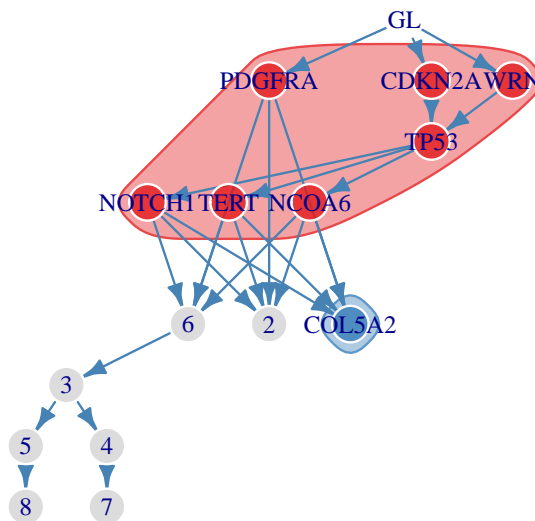
Patient: CRUK0066

CRUK0066 : evolutionary trajectories

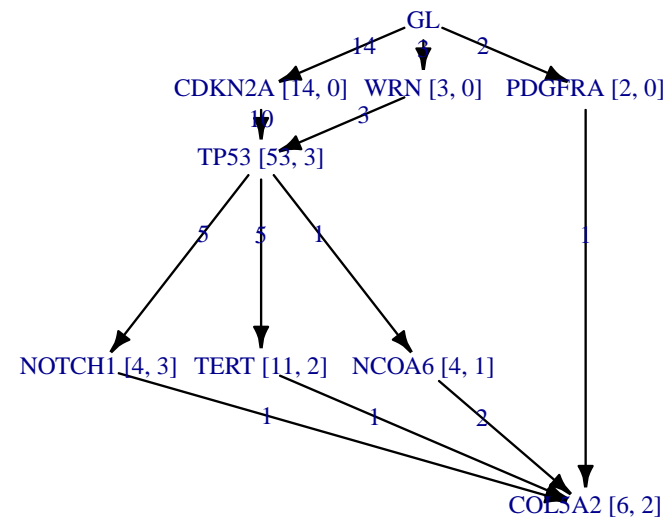
CRUK0066 : information transfer



Ranked 1/200



Exploded trajectories



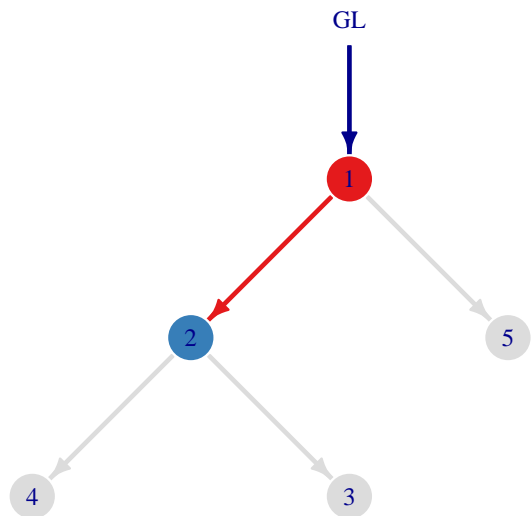
[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0067

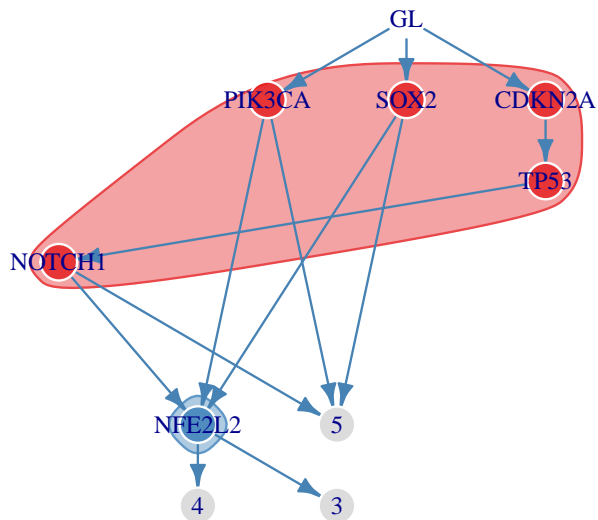
$$\begin{aligned} f &= 2e-01 \\ g &= 0.5 \end{aligned}$$

- 1 R1



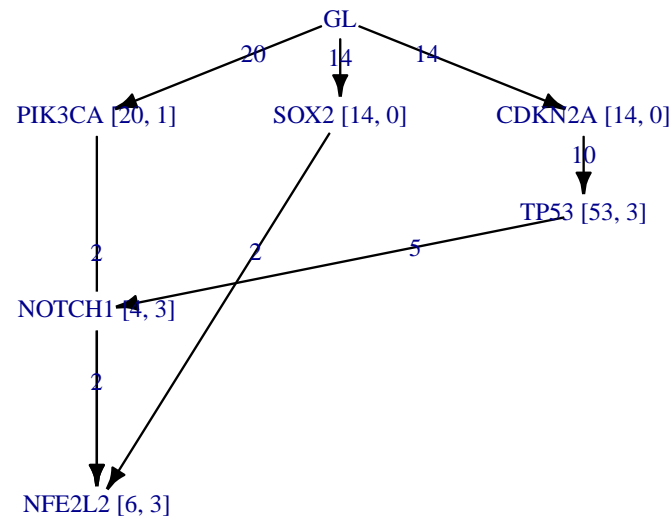
Ranked 1/2

CRUK0067 : evolutionary trajectories



Exploded trajectories

CRUK0067 : information transfer



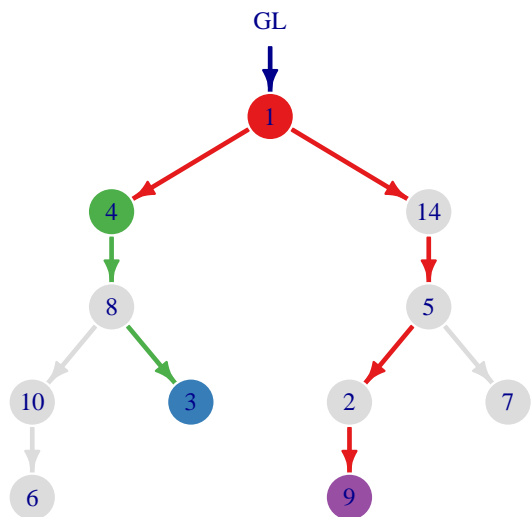
[n m]: n clonal, m subclonal (driver)

... : k patients

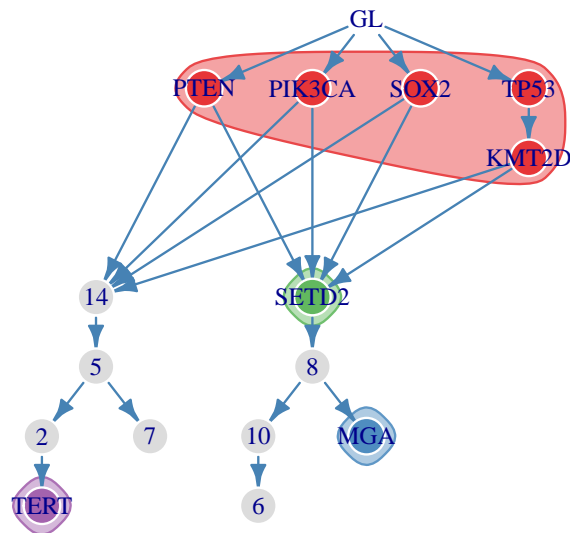
Patient: CRUK0068

CRUK0068 : evolutionary trajectories

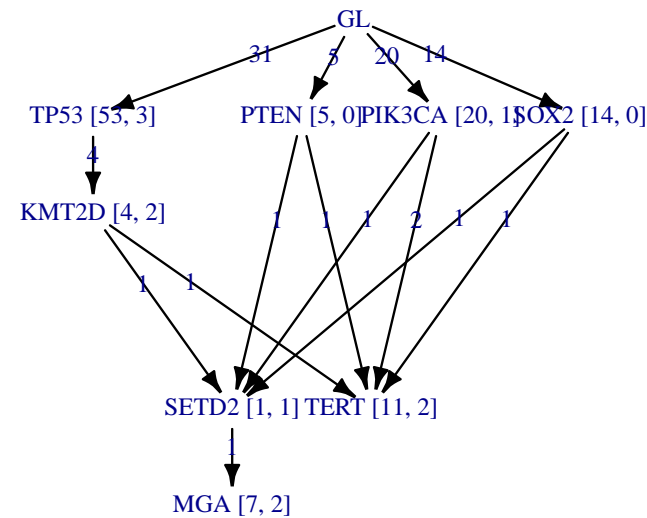
CRUK0068 : information transfer



Ranked 1/32



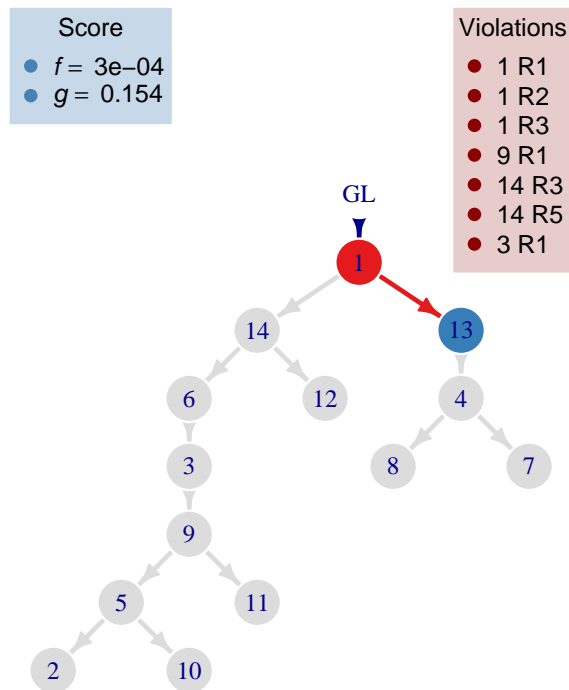
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

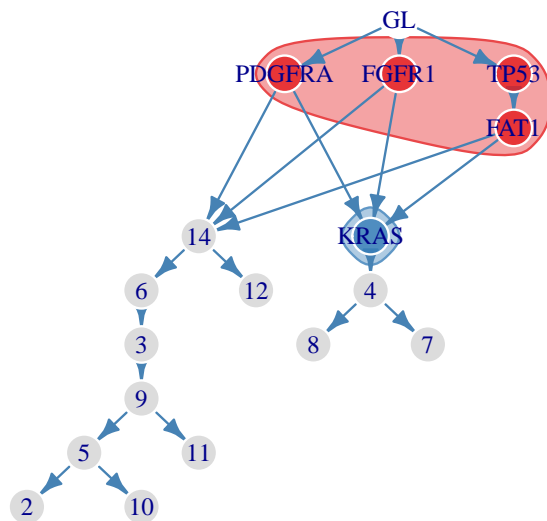
... : k patients

Patient: CRUK0069



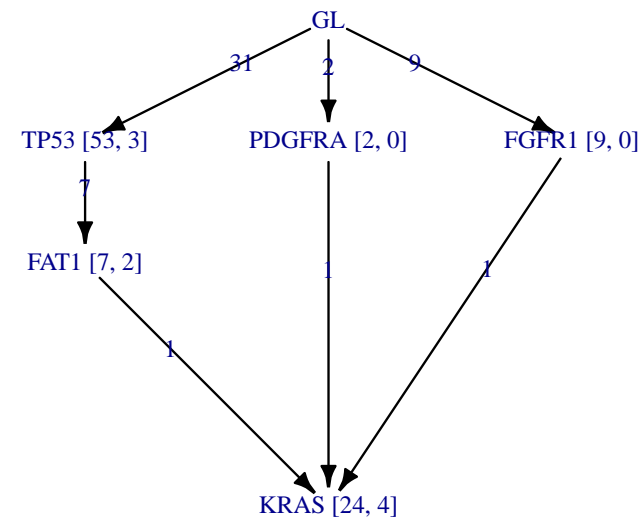
Ranked 1/200

CRUK0069 : evolutionary trajectories



Exploded trajectories

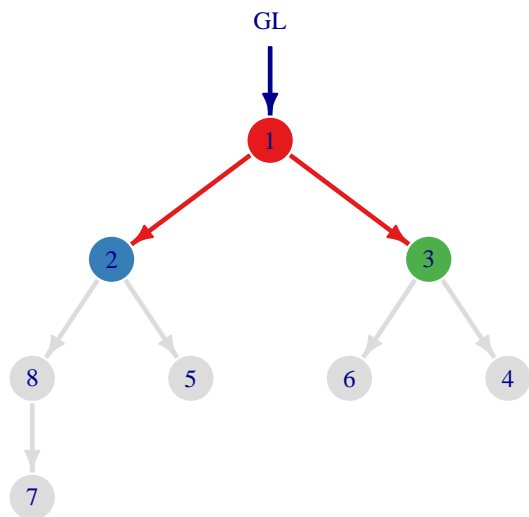
CRUK0069 : information transfer



[n m]: n clonal, m subclonal (driver)

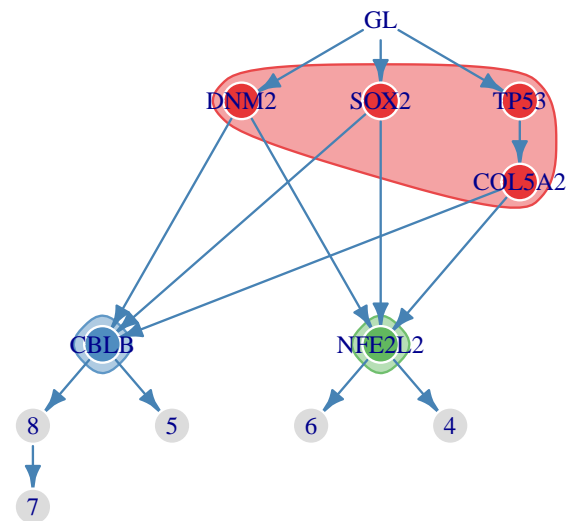
... : k patients

Patient: CRUK0070



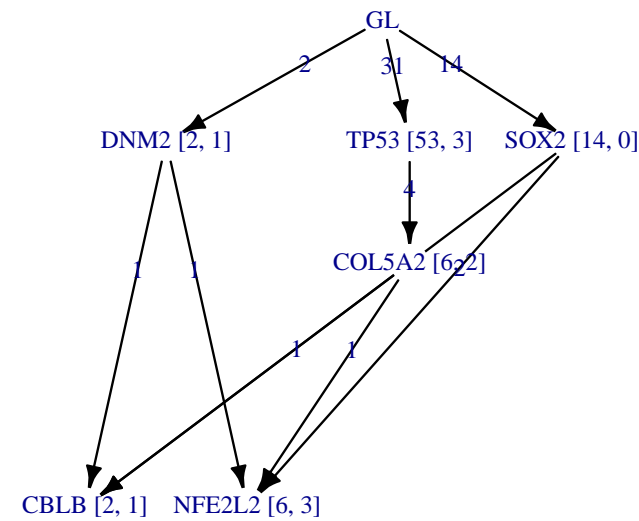
Ranked 1/1

CRUK0070 : evolutionary trajectories



Exploded trajectories

CRUK0070 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0071

CRUK0071 : evolutionary trajectories

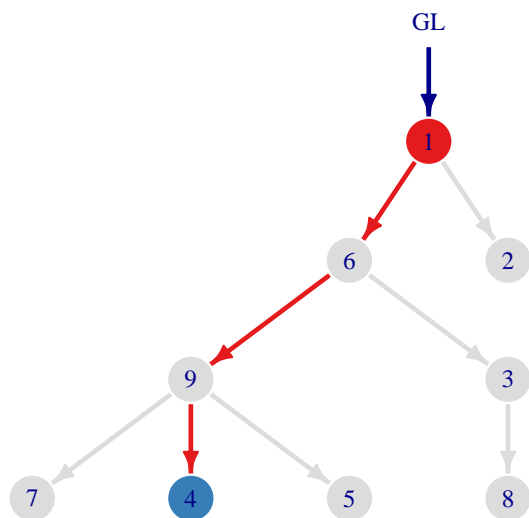
CRUK0071 : information transfer

Score

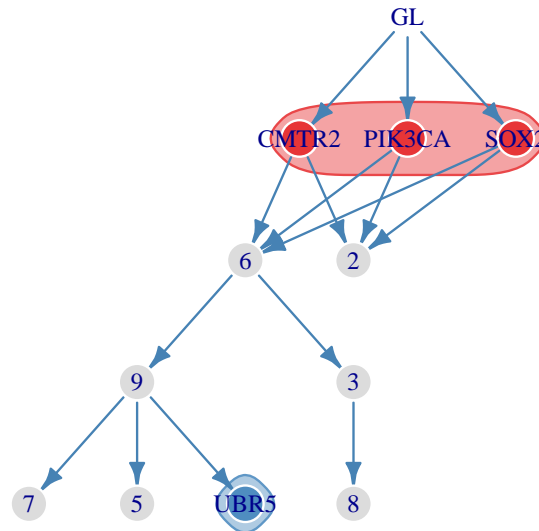
Violations

• $f = 3e-01$
• $g = 0.833$

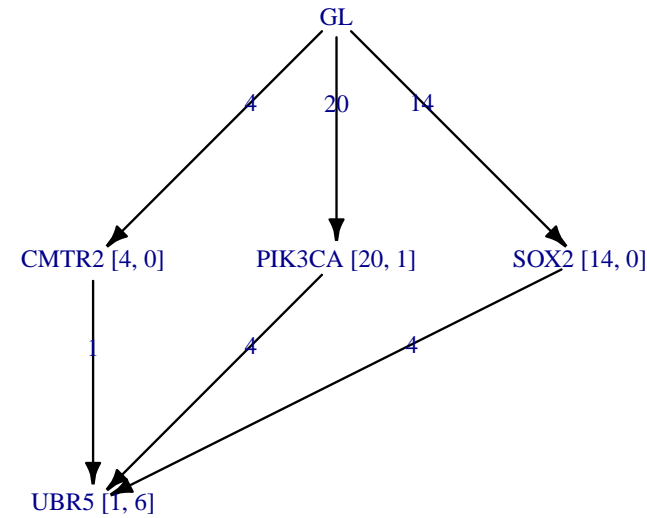
• 6 R5



Ranked 1/6



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0072

CRUK0072 : evolutionary trajectories

CRUK0072 : information transfer

Score

Violations

• $f = 4e-01$
• $g = 0.667$

• 1 R1

GL

1

4

2

3

Ranked 1/2

GL

PIK3CA

SOX2

MYC

EGFR

TP53

NFE2L2

4

2

3

Exploded trajectories

GL

20

20

14

8

EGFR [21, 1] PIK3CA [20, 1] SOX2 [14, 0] MYC [8, 0]

13

TP53 [53, 3]

5

NFE2L2 [6, 3]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0073

CRUK0073 : evolutionary trajectories

CRUK0073 : information transfer

Score

● $f = 1e+00$ ● $g = 1$

Violations

● None

GL

1

3

2

Ranked 1/1

GL

DICERKMT2NOTCH2MYCCDKN2AFAT1FGFR1

NFE2L2

3 PLXNB2

Exploded trajectories

GL

CDKN2ADICER[EAT]KMT2NOTCH2FGFR1MYC [8, 0]

NFE2L2 [6, 3]

PLXNB2 [3, 3]

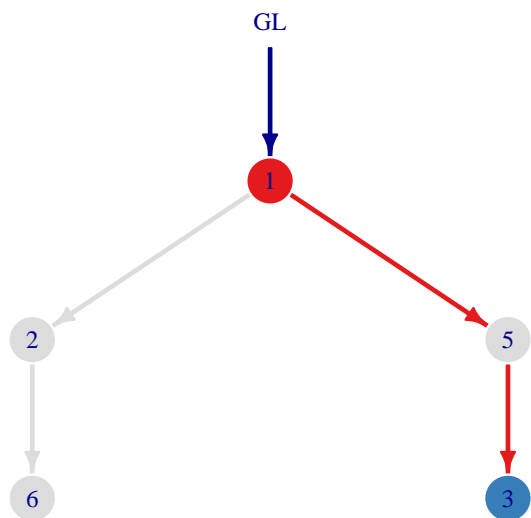
[n m]: n clonal, m subclonal (driver)

... : k patients

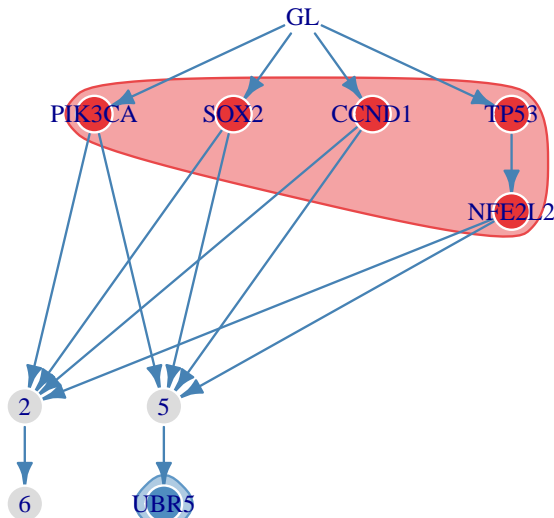
Patient: CRUK0074

CRUK0074 : evolutionary trajectories

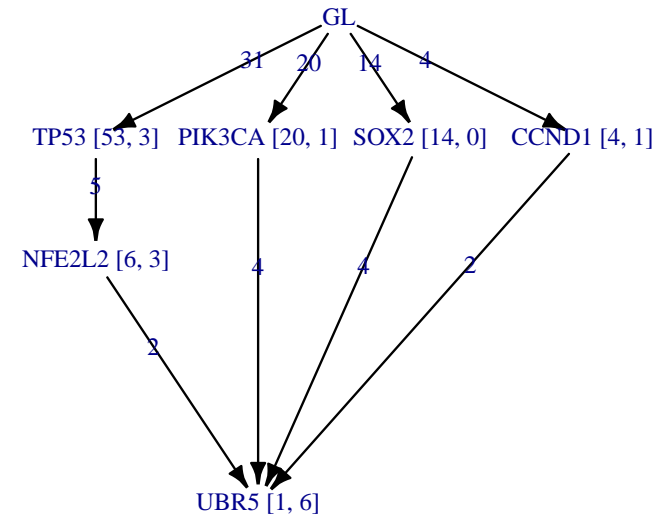
CRUK0074 : information transfer



Ranked 1/8



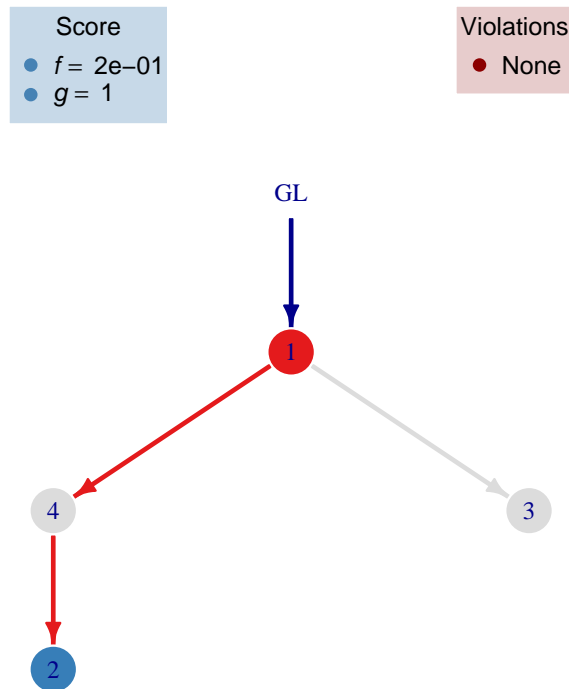
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

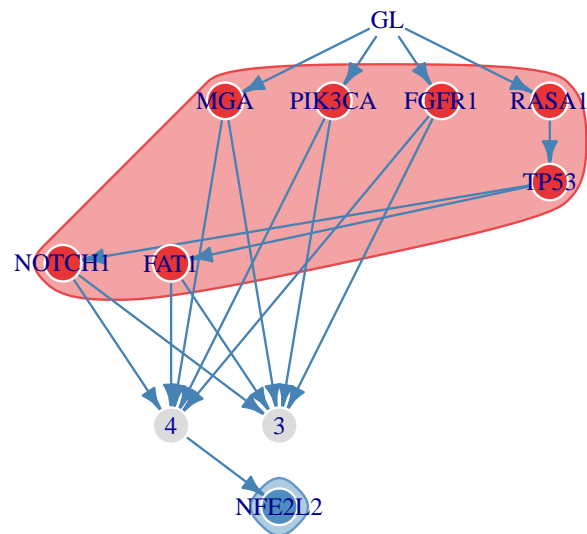
... : k patients

Patient: CRUK0075



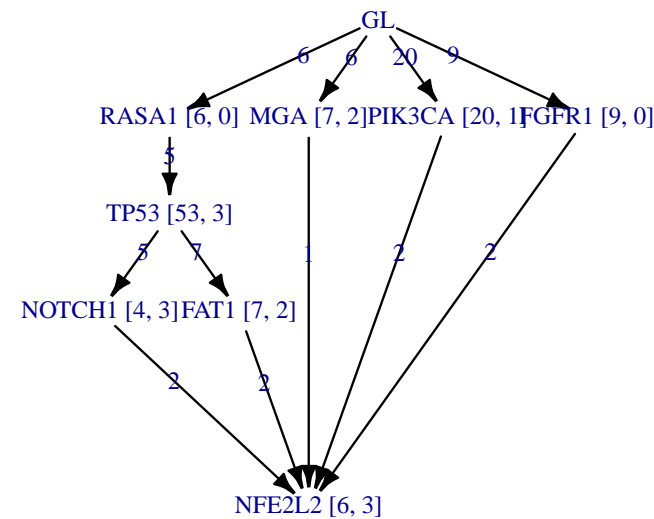
Ranked 1/3

CRUK0075 : evolutionary trajectories



Exploded trajectories

CRUK0075 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

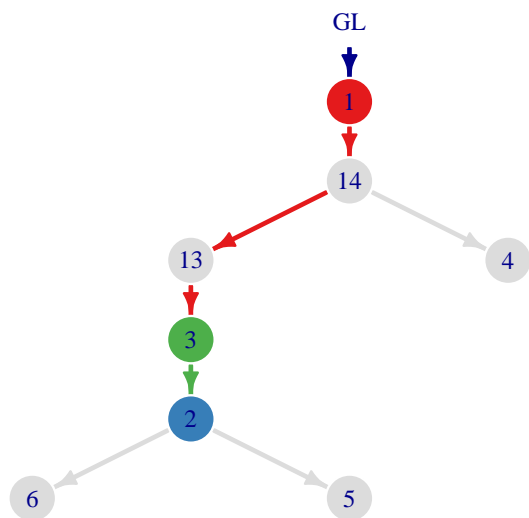
Patient: CRUK0076

Score

- $f = 6e-02$
- $g = 0.562$

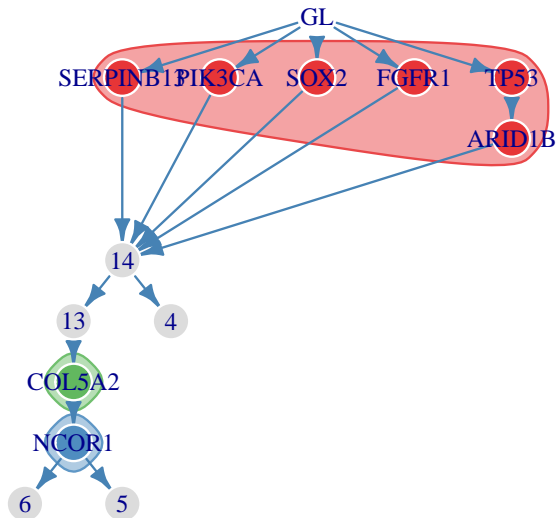
Violations

- 14 R4
- 2 R3



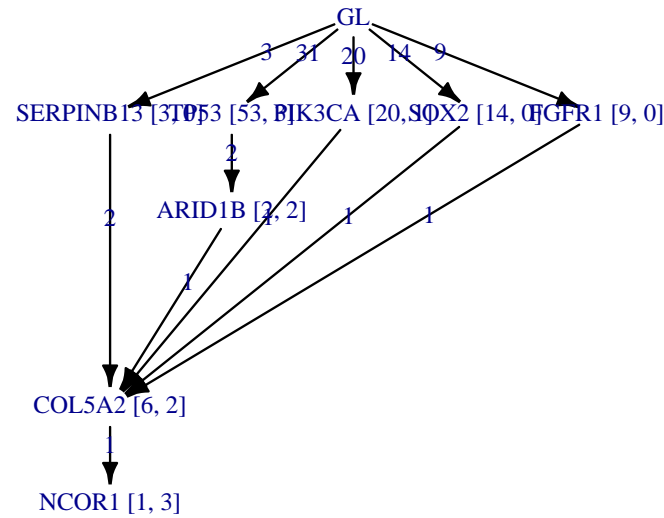
Ranked 1/8

CRUK0076 : evolutionary trajectories



Exploded trajectories

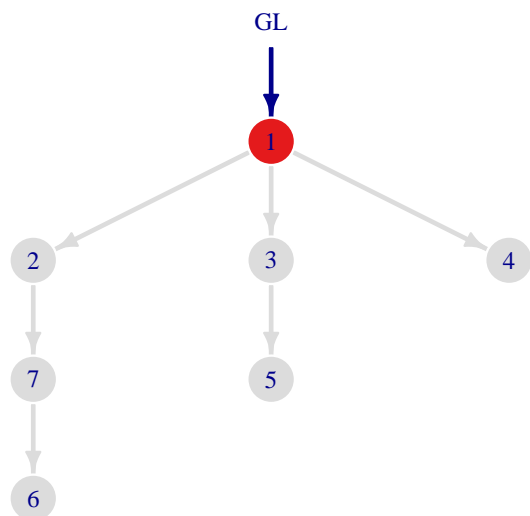
CRUK0076 : information transfer



[n m]: n clonal, m subclonal (driver)

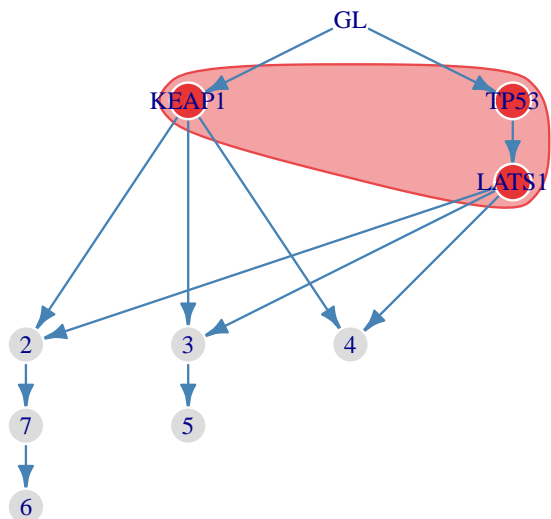
... : k patients

Patient: CRUK0077



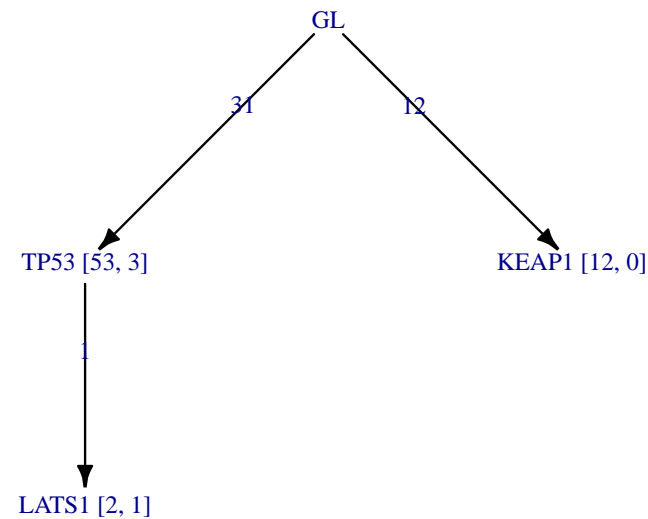
Ranked 1/4

CRUK0077 : evolutionary trajectories



Exploded trajectories

CRUK0077 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0078

Score

• $f = 4e-02$
• $g = 0.667$

Violations

• 1 R4

GL

1

5

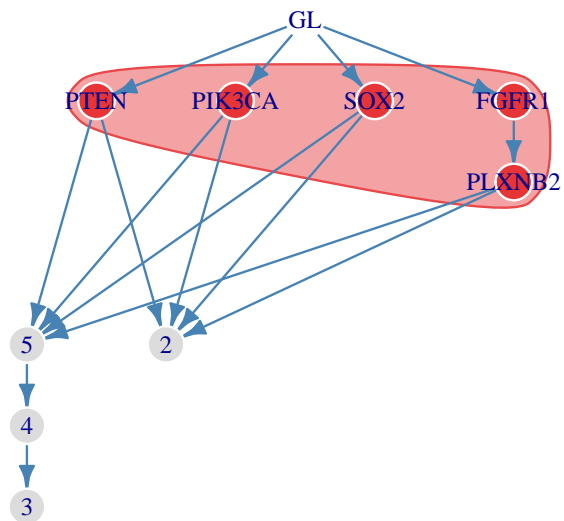
2

4

3

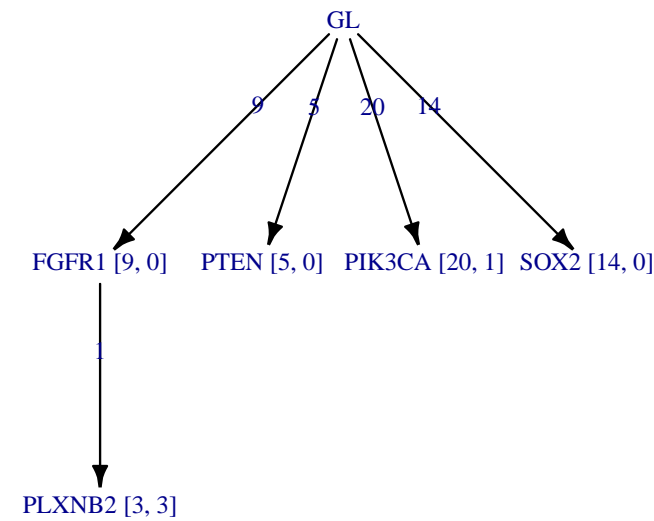
Ranked 1/17

CRUK0078 : evolutionary trajectories



Exploded trajectories

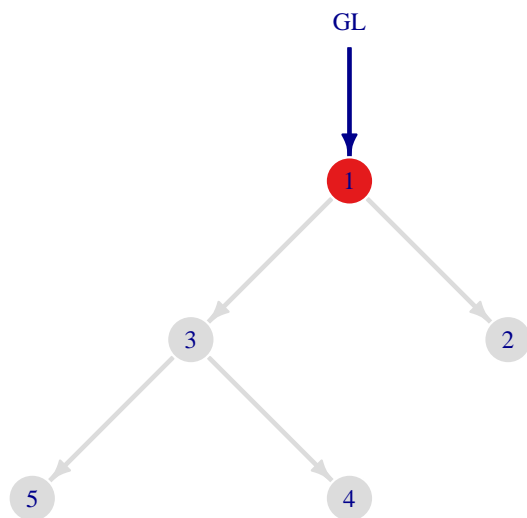
CRUK0078 : information transfer



[n m]: n clonal, m subclonal (driver)

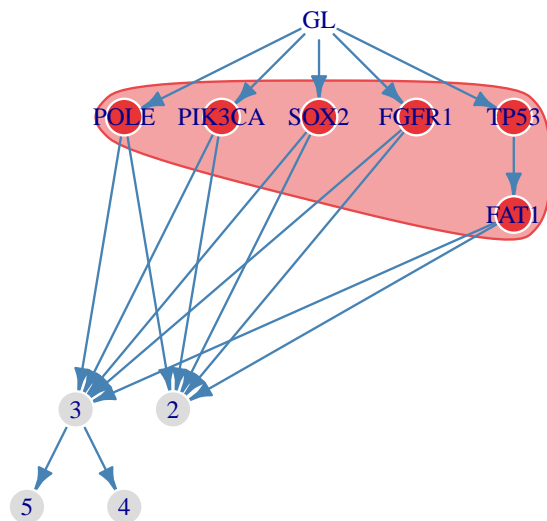
... : k patients

Patient: CRUK0079



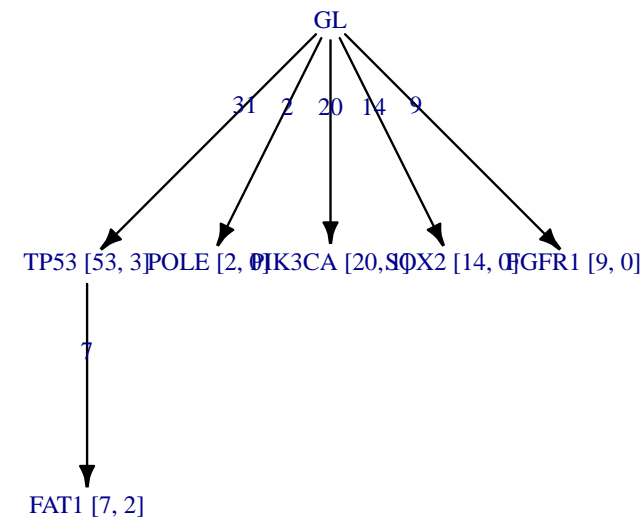
Ranked 1/2

CRUK0079 : evolutionary trajectories



Exploded trajectories

CRUK0079 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0080

CRUK0080 : evolutionary trajectories

CRUK0080 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

GL

1

2

3

Ranked 1/1

GL

WT1

CCND1

EGFR

TP53

2

IKZF1

Exploded trajectories

GL

WT1 [2, 0]

EGFR [21, 1]

CCND1 [4, 1]

TP53 [53, 3]

IKZF1 [0, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0081

CRUK0081 : evolutionary trajectories

CRUK0081 : information transfer

Score

Violations

● $f = 1e+00$

● $g = 1$

● None

GL

1

3

2

Ranked 1/1

GL

CDKN2A

TP53

NOTCH1

FAT1

FANCC

2

CYLD

Exploded trajectories

GL

CDKN2A [14, 0]

TP53 [53, 3]

NOTCH1 [4, 3]

FAT1 [7, 2]

FANCC [1, 1]

CYLD [6, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0082

CRUK0082 : evolutionary trajectories

CRUK0082 : information transfer

Score

● $f = 1e-01$
● $g = 0.6$

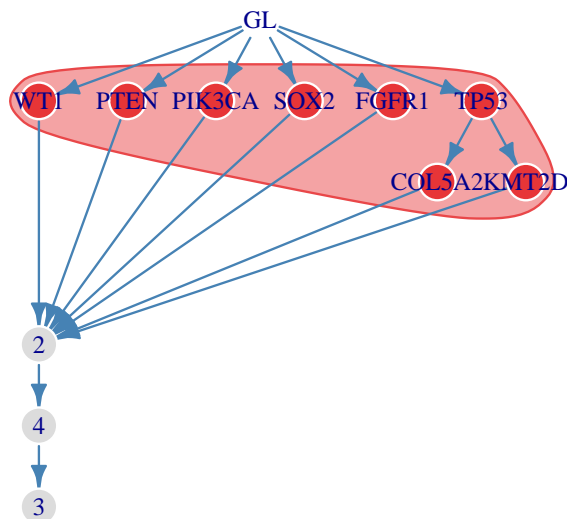
Violations

● 4 R4
● 4 R5

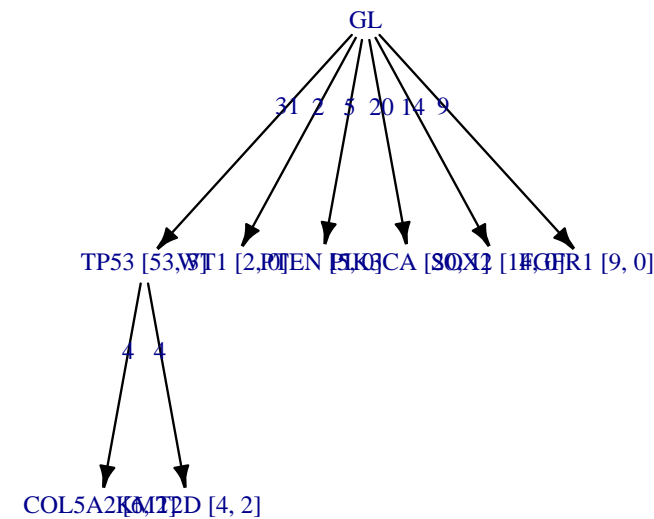
GL



Ranked 1/7



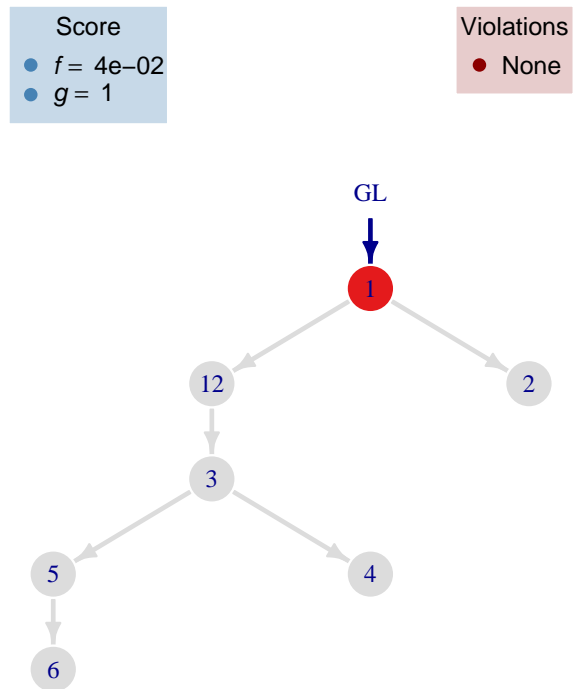
Exploded trajectories



[n m]: n clonal, m subclonal (driver)

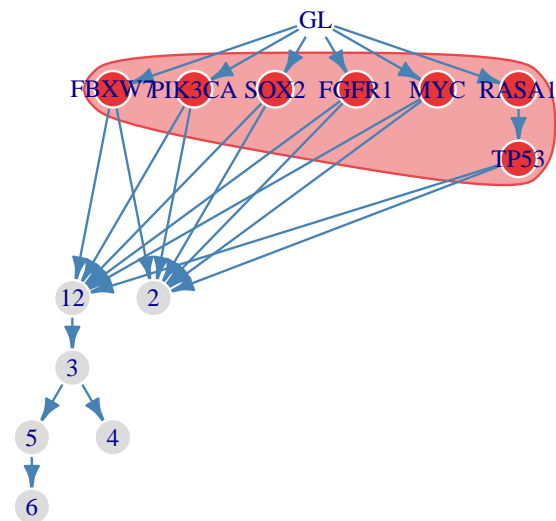
... : k patients

Patient: CRUK0083



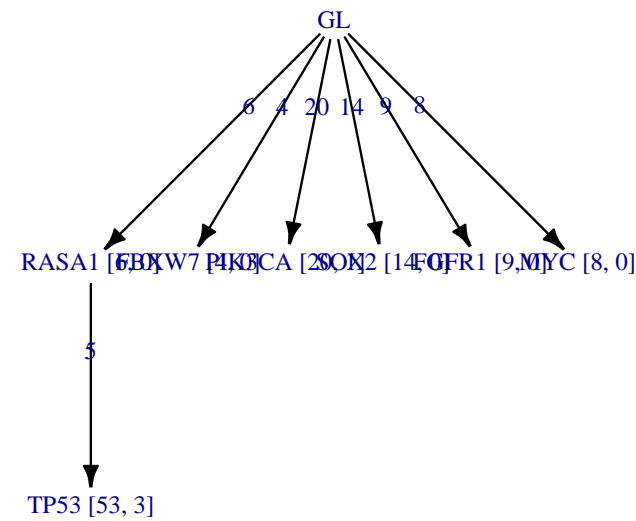
Ranked 1/32

CRUK0083 : evolutionary trajectories



Exploded trajectories

CRUK0083 : information transfer



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0084

CRUK0084 : evolutionary trajectories

CRUK0084 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1

Ranked 1/1

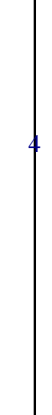
GL



CREBBP

Exploded trajectories

GL



CREBBP [4, 0]

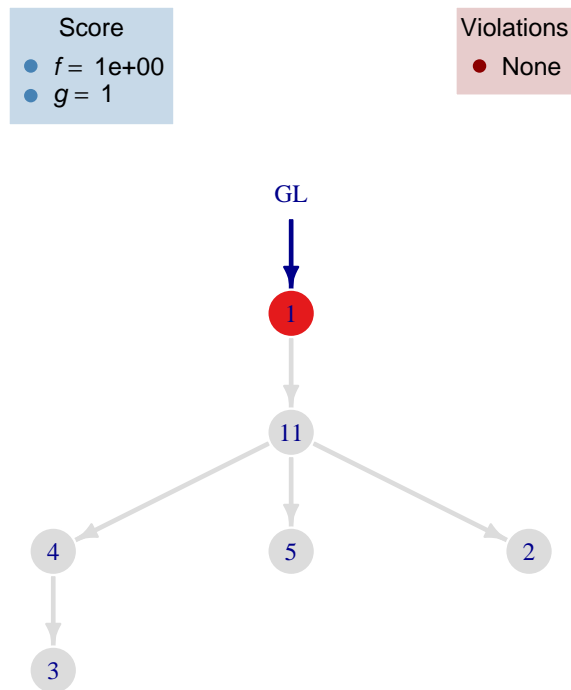
[n m]: n clonal, m subclonal (driver)

... : k patients

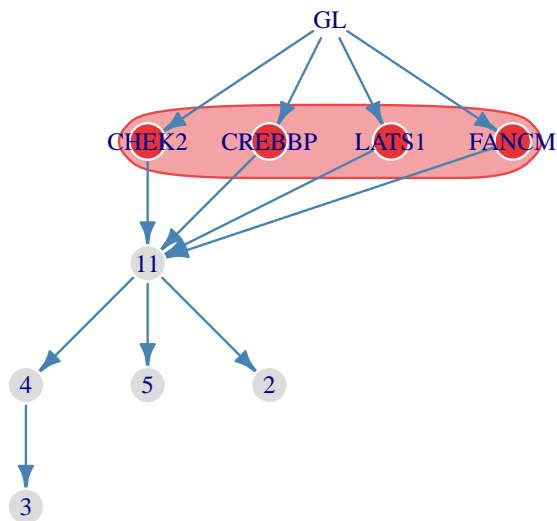
Patient: CRUK0085

CRUK0085 : evolutionary trajectories

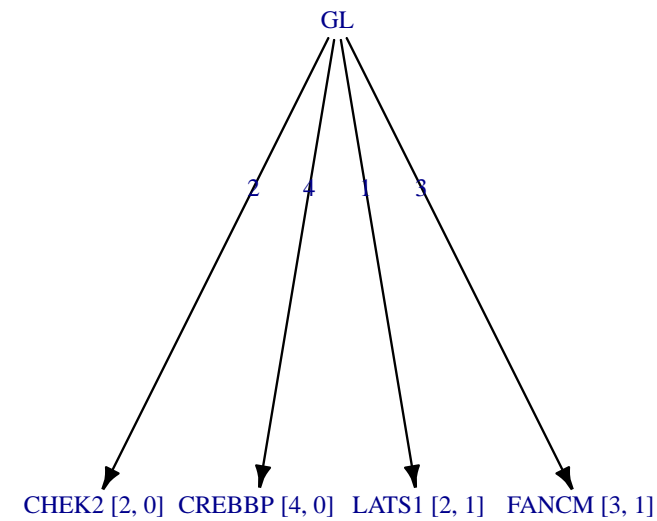
CRUK0085 : information transfer



Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0086

CRUK0086 : evolutionary trajectories

CRUK0086 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

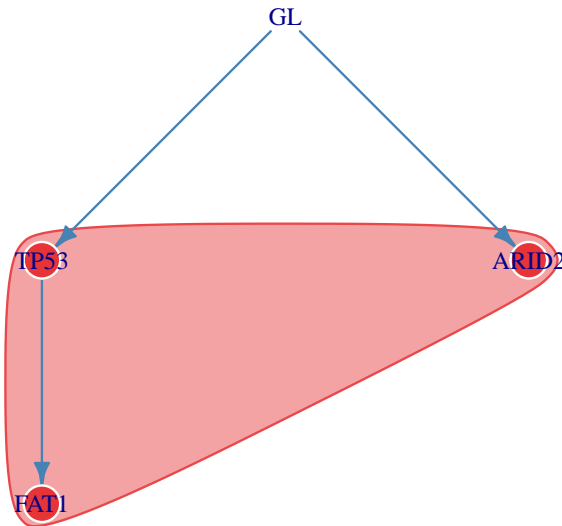
GL



1

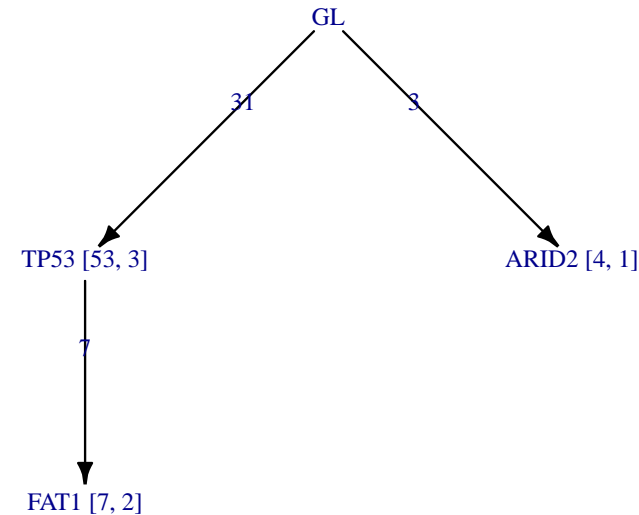
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0087

CRUK0087 : evolutionary trajectories

CRUK0087 : information transfer

Score

● $f = 1e+00$
● $g = 1$

Violations

● None

GL

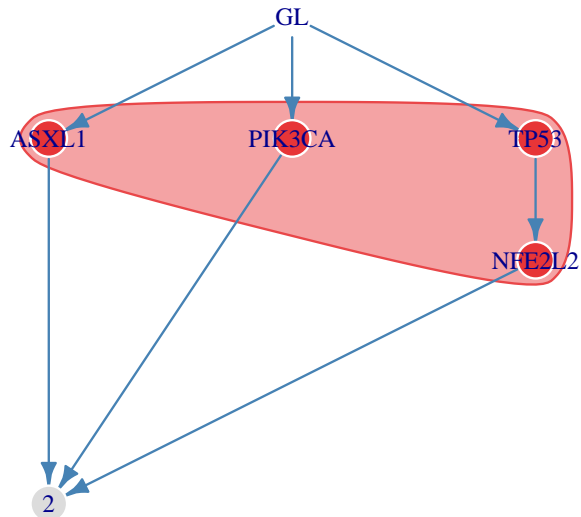


1

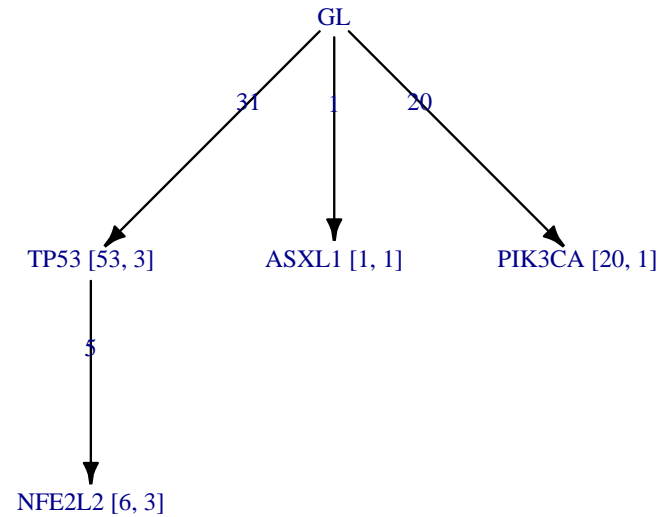


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0088

CRUK0088 : evolutionary trajectories

CRUK0088 : information transfer

Score

• $f = 1e+00$
• $g = 1$

Violations

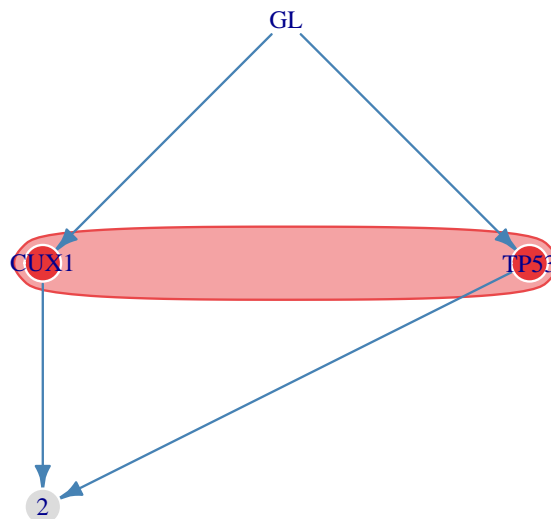
• None

GL

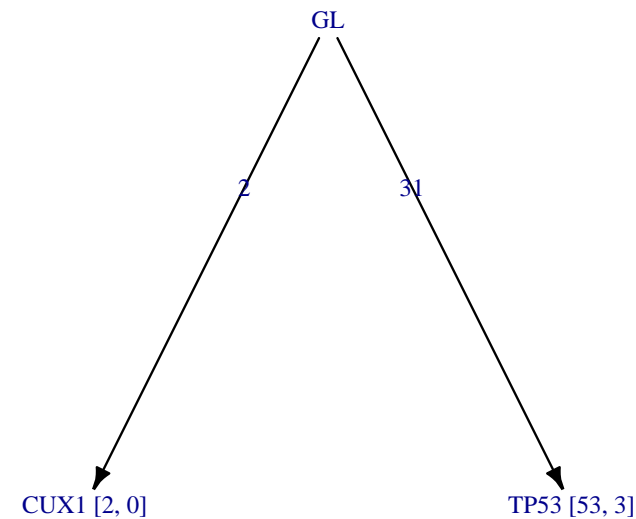


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0089

CRUK0089 : evolutionary trajectories

CRUK0089 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

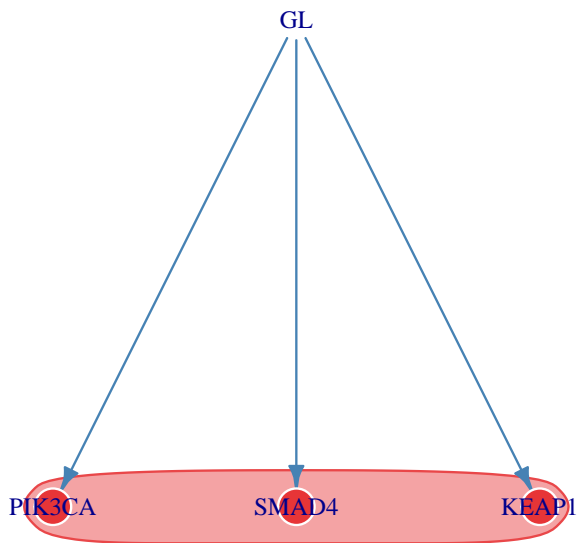
GL



1

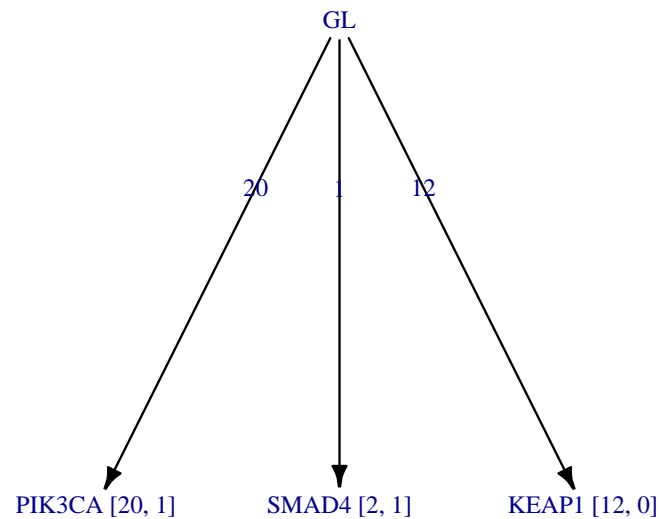
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0090

CRUK0090 : evolutionary trajectories

CRUK0090 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

• None

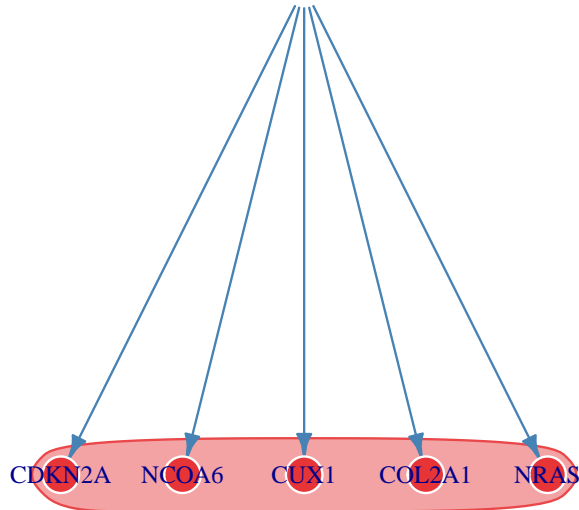
GL



1

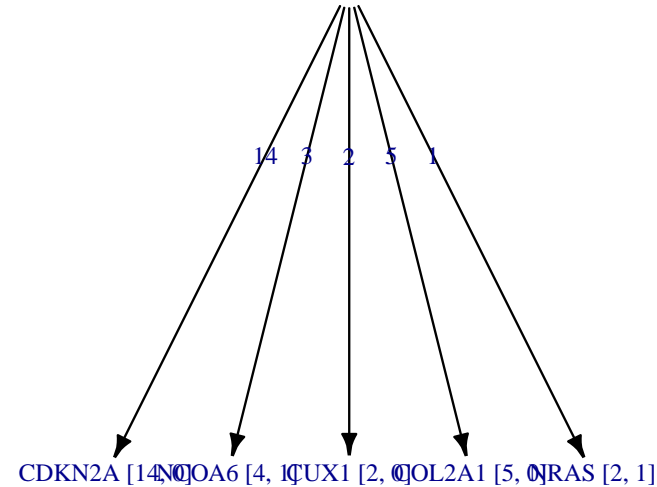
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0091

CRUK0091 : evolutionary trajectories

CRUK0091 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1

Ranked 1/1

GL

CDKN2A

SMARCA4

TP53

Exploded trajectories

GL

CDKN2A [14, 0]

SMARCA4 [3, 0]

TP53 [53, 3]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0092

CRUK0092 : evolutionary trajectories

CRUK0092 : information transfer

Score

Violations

● $f = 1e+00$

● $g = 1$

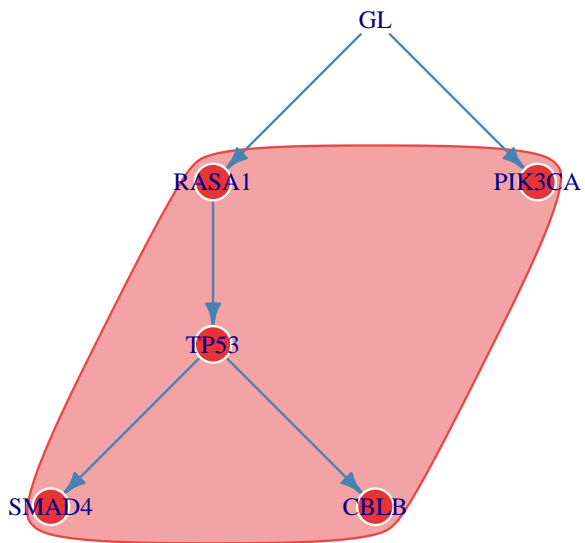
● None

GL

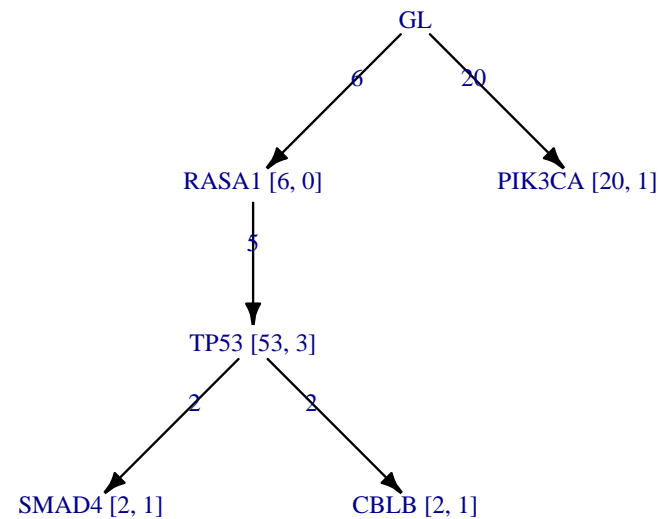


1

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0093

CRUK0093 : evolutionary trajectories

CRUK0093 : information transfer

Score

Violations

• $f = 1e+00$
• $g = 1$

• None

GL

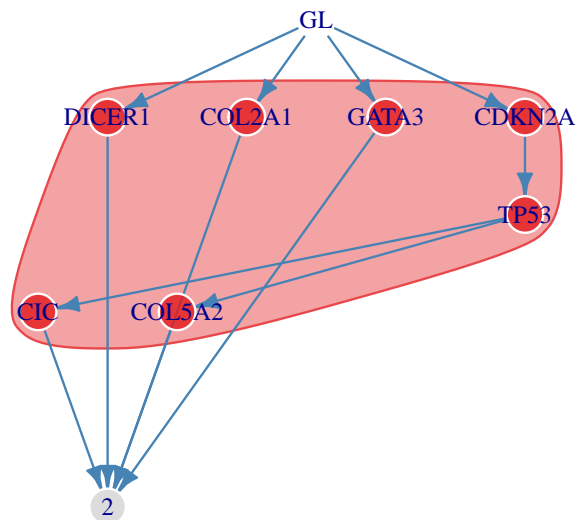


1

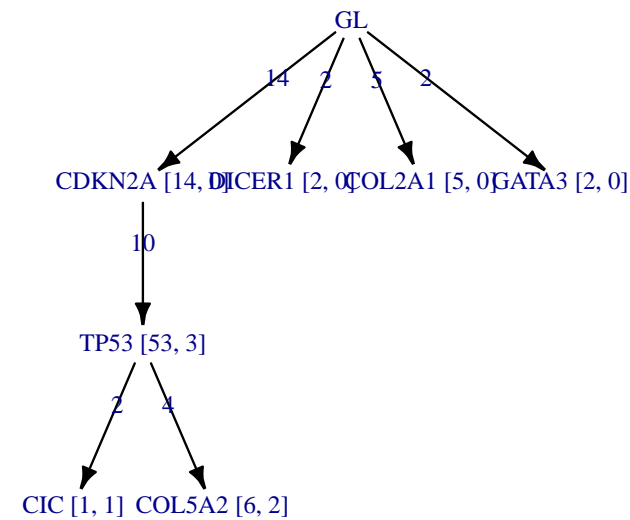


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0094

CRUK0094 : evolutionary trajectories

CRUK0094 : information transfer

Score

Violations

• $f = 1e+00$

• $g = 1$

• None

GL

1

3

2

Ranked 1/1

GL

SMARCA4

TERT

3

2

Exploded trajectories

GL

SMARCA4 [3, 0]

TERT [11, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0095

CRUK0095 : evolutionary trajectories

CRUK0095 : information transfer

Score

• $f = 1e+00$
• $g = 1$

Violations

• None

GL

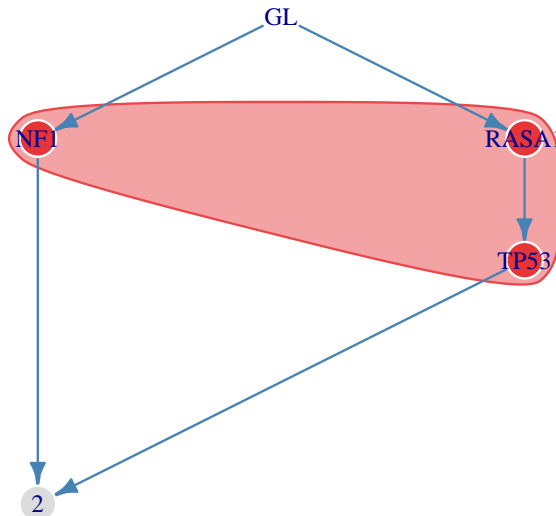


1

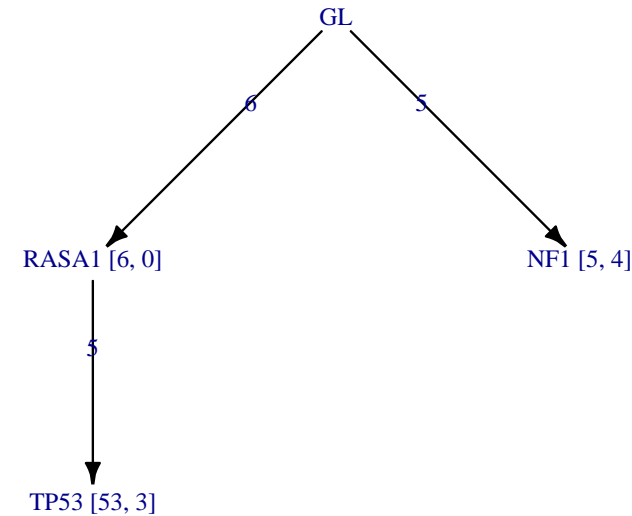


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0096

CRUK0096 : evolutionary trajectories

CRUK0096 : information transfer

Score

Violations

● $f = 1e+00$
● $g = 1$

● None

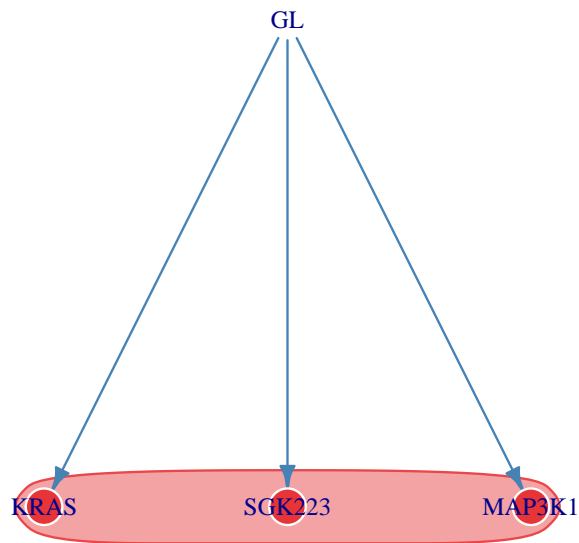
GL



1

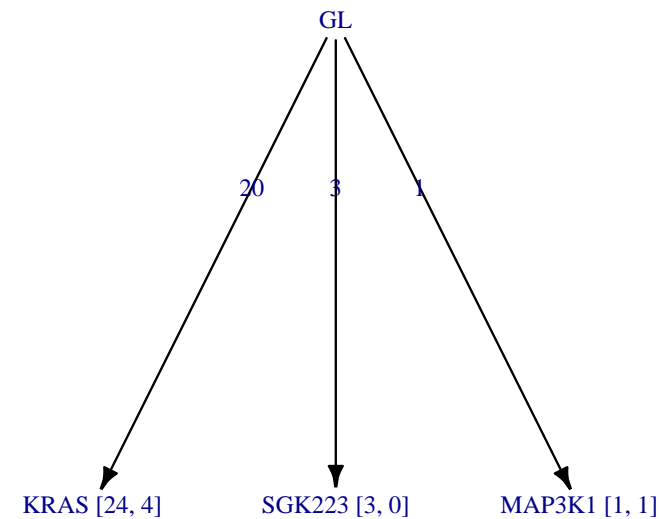
Ranked 1/1

GL



Exploded trajectories

GL



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0097

CRUK0097 : evolutionary trajectories

CRUK0097 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL



1

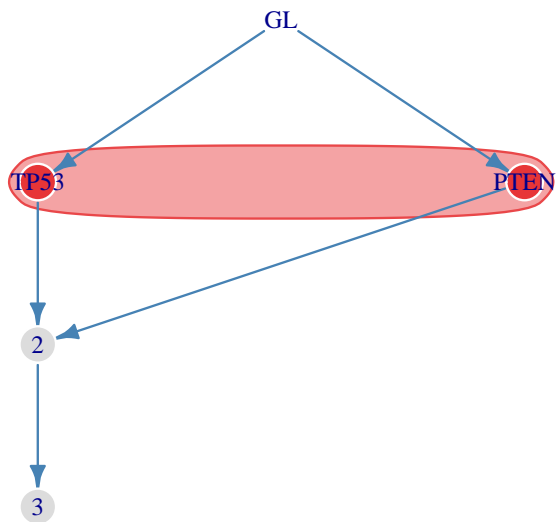


2

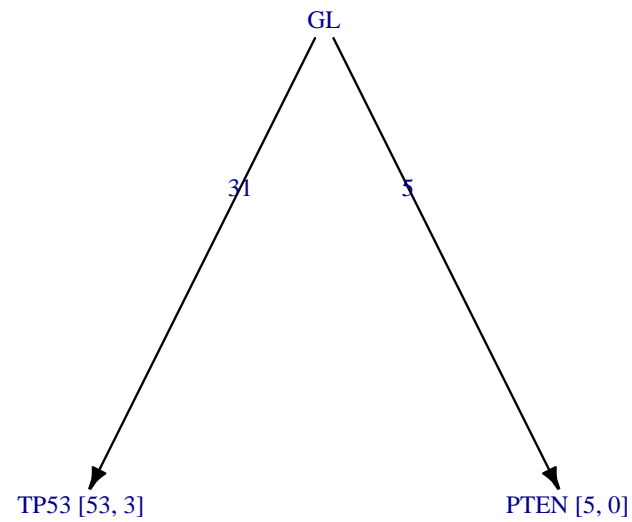


3

Ranked 1/1



Exploded trajectories



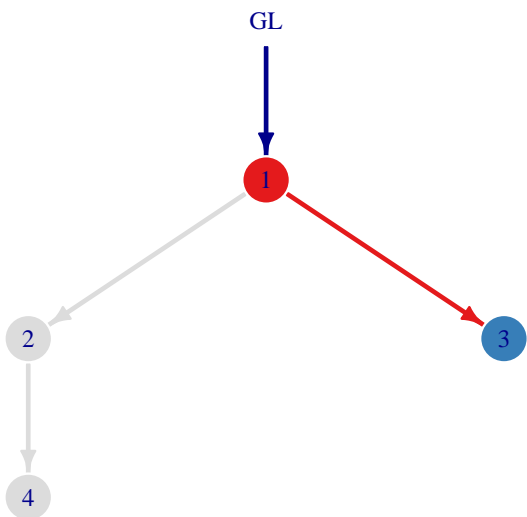
[n m]: n clonal, m subclonal (driver)

... : k patients

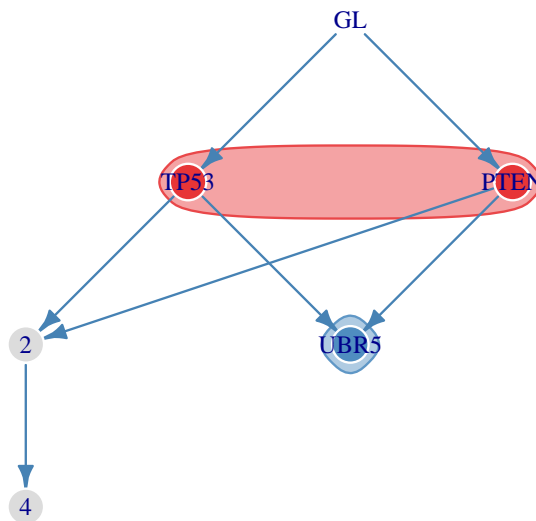
Patient: CRUK0098

CRUK0098 : evolutionary trajectories

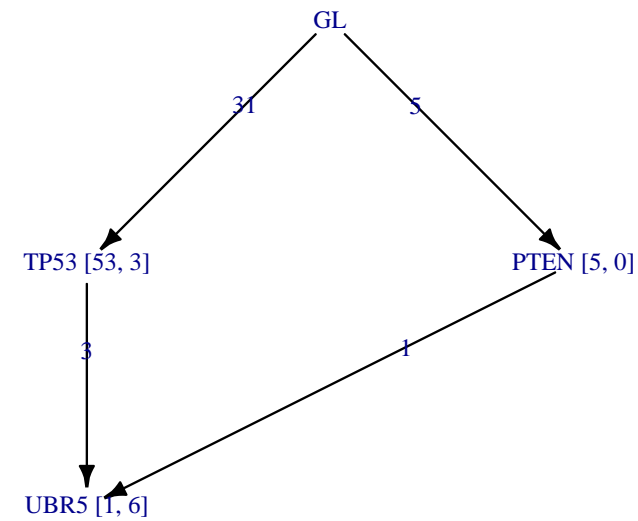
CRUK0098 : information transfer



Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0099

CRUK0099 : evolutionary trajectories

CRUK0099 : information transfer

Score

• $f = 1e+00$

• $g = 1$

Violations

• None

GL

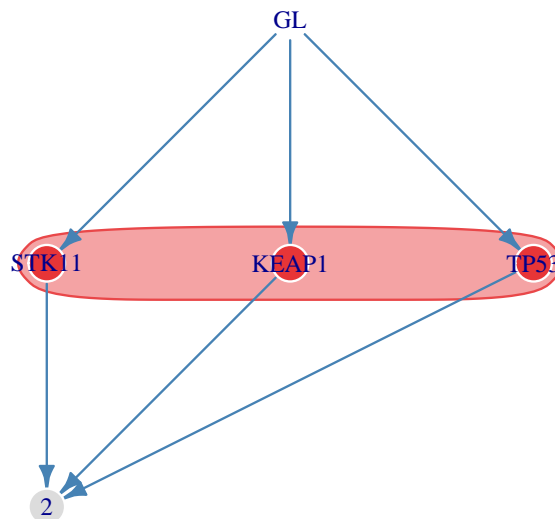


1

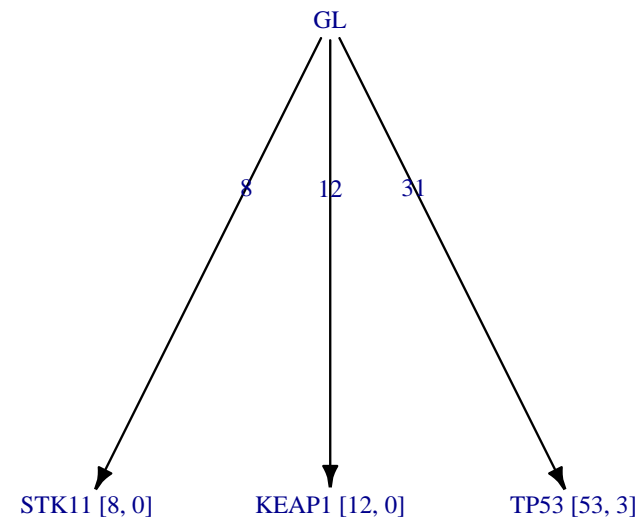


2

Ranked 1/1



Exploded trajectories



[n m]: n clonal, m subclonal (driver)

... : k patients

Patient: CRUK0100

CRUK0100 : evolutionary trajectories

CRUK0100 : information transfer

Score

$f = 4e-01$

$g = 1$

Violations

None

GL

1

4

2

Ranked 1/3

GL

PHOX2B

STK11

SPEN

CDKN2A

TP53

COL5A2

3

4

6

2

Exploded trajectories

GL

14

3

8

2

CDKN2A [14, 0]

PHOX2B [3, 0]

STK11 [8, 0]

SPEN [2, 0]

10

TP53 [53, 3]

4

COL5A2 [6, 2]

[n m]: n clonal, m subclonal (driver)

... : k patients