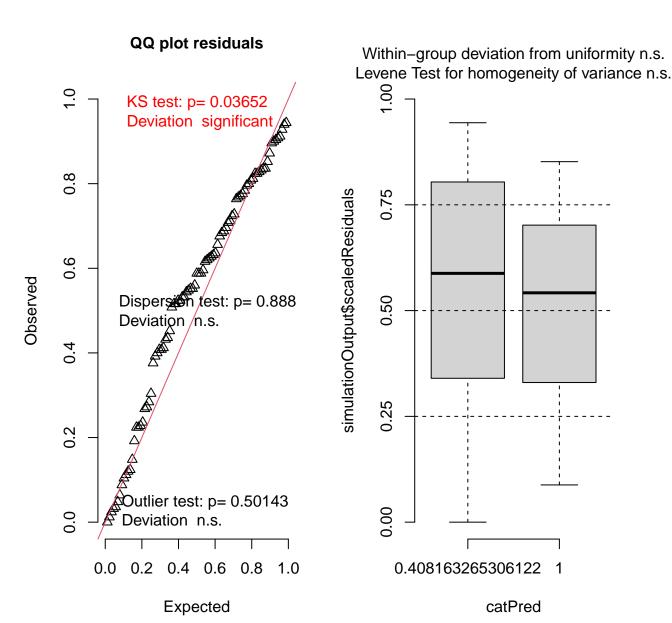




Nb obs infection: 59

Nb obs control: 28



```
-30.2 -17.8 20.1 -40.2 82

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.025921 0.16100
day (Intercept) 0.006215 0.07883
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Dispersion estimate for gaussian family (sigma^2): 0.0244
Conditional model:
Estimate Std. Error z value Pr(>|z|)

0.024401 0.15621

Number of obs: 87, groups: ID, 13; day, 7

1.7802

logLik deviance df.resid

Family: gaussian (identity)

BIC

Formula:

Data: d_cyno

Residual

(Intercept)

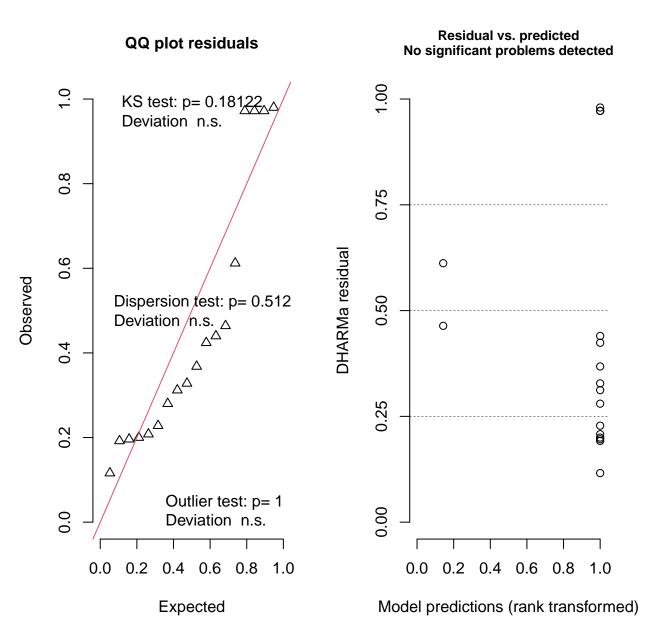
```
inf_statusControl 0.1746 0.1033 1.691 0.0909 .
---
Signif. codes: 0 ...***... 0.001 ...**... 0.05 ...... 0.1 ..... 1
```

<2e-16 ***

0.0648 27.474



Nb excluded (LOD): 31
Nb obs infection: 16
Nb obs control: 2



```
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.226460 0.47588
ID
         (Intercept) 0.003039 0.05512
day
Residual
                     0.009896 0.09948
```

7.567 3.83e-14 ***

0.0254 *

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0099

-7.5

Estimate Std. Error z value Pr(>|z|)0.2408

0.5379 -2.235

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

3.7

Number of obs: 18, groups: ID, 5; day, 4

1.8222

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

7.0

Formula:

Data: d_sq AIC

2.5

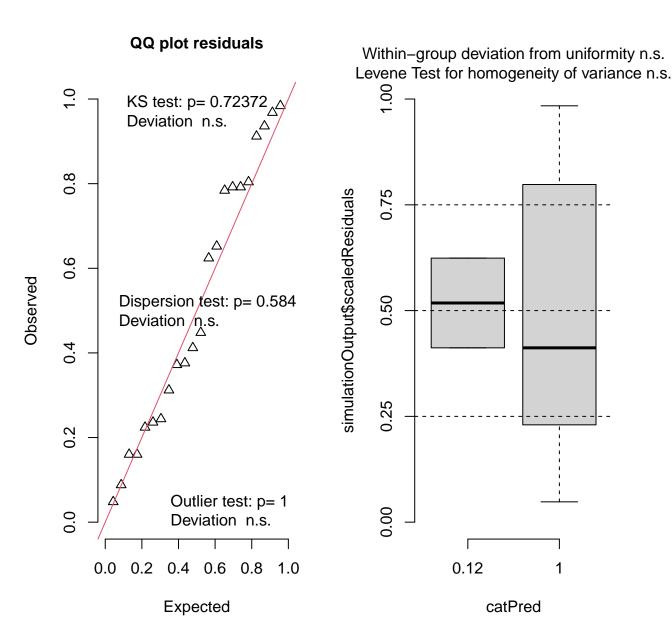
Conditional model:

inf_statusControl -1.2021

(Intercept)



Nb excluded (LOD): 27
Nb obs infection: 20
Nb obs control: 2



```
Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.173382 0.41639
day (Intercept) 0.004365 0.06607
Residual 0.035503 0.18842
```

7.950 1.86e-15 ***

0.111

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0355

10.0

Estimate Std. Error z value Pr(>|z|)

0.4727 - 1.592

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.1771

Family: gaussian (identity)

BIC

25.5

-5.0

Number of obs: 22, groups: ID, 7; day, 7

1.4081

Formula:

Data: z_sq

AIC 20.0

Conditional model:

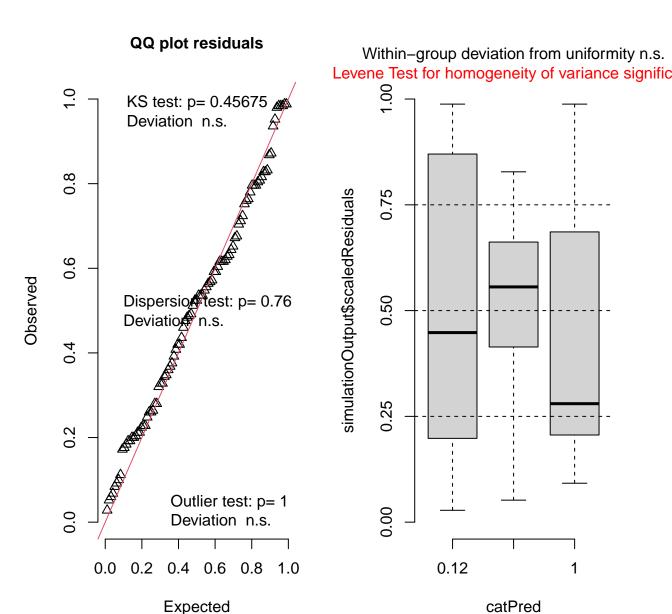
inf_statusControl -0.7523

(Intercept)



Nb obs ZIKV-squirrel (infected only): 20

Nb obs DENV-squirrel (infected only): 16 Nb obs DENV-cyno (infected only): 59



```
12.1 27.5 -0.1 0.1 89

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.138172 0.37171
day (Intercept) 0.002615 0.05113
Residual 0.029887 0.17288
Number of obs: 95, groups: ID, 19; day, 8
```

Estimate Std. Error z value Pr(>|z|)

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.19225 9.435

0.24715 -1.662

0.22904 -0.144

<2e-16 ***

0.8852

0.0965 .

log10(value) ~ group + (1 | ID) + (1 | day)

BIC logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0299

1.81392

Family: gaussian (identity)

groupCyno.Dengue virus -0.03307

groupSquirrel.Zika virus -0.41075

Formula:

Data: my_df
AIC

Conditional model:

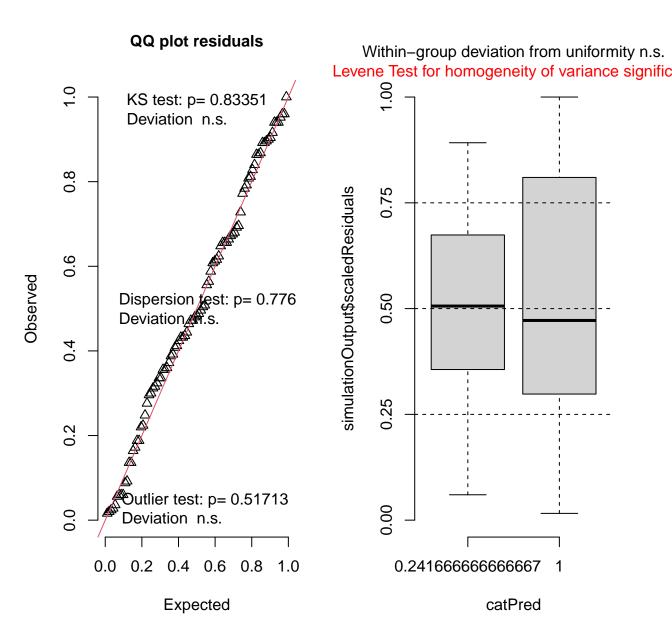
(Intercept)





Nb obs infection: 63

Nb obs control: 28



```
-73.7 -61.2 41.9 -83.7 86

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.012398 0.1113
day (Intercept) 0.002238 0.0473
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Residual 0.016794 0.1296 Number of obs: 91, groups: ID, 13; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0168

logLik deviance df.resid

Family: gaussian (identity)

BIC

Formula:

Data: d_cyno

AIC

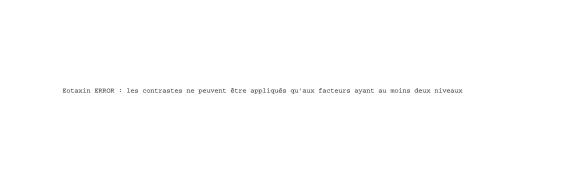
```
Conditional model: 
 Estimate Std. Error z value Pr(>|z|) 
 (Intercept) 2.18662 0.04431 49.34 <2e-16 ***
```

inf_statusControl -0.08375 0.07310 -1.15 0.252 ---

```
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 1
```

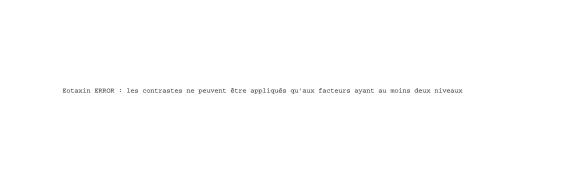


Nb excluded (LOD): 38
Nb obs infection: 11
Nb obs control: 0





Nb excluded (LOD): 46
Nb obs infection: 3
Nb obs control: 0

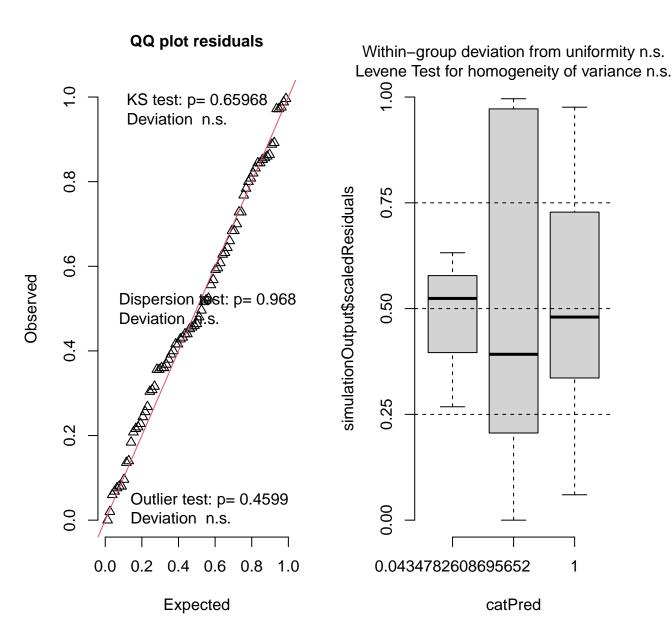




Nb obs DENV-cyno (infected only): 63

Nb obs ZIKV-squirrel (infected only): 3

Nb obs DENV-squirrel (infected only): 11



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
             BIC logLik deviance df.resid
    AIC
   -28.5
                   20.3
                          -40.5
           -14.4
Random effects:
Conditional model:
```

Groups Name Variance Std.Dev. ID (Intercept) 0.036188 0.19023

(Intercept) 0.001304 0.03611 day Residual 0.022525 0.15008 Number of obs: 77, groups: ID, 13; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0225

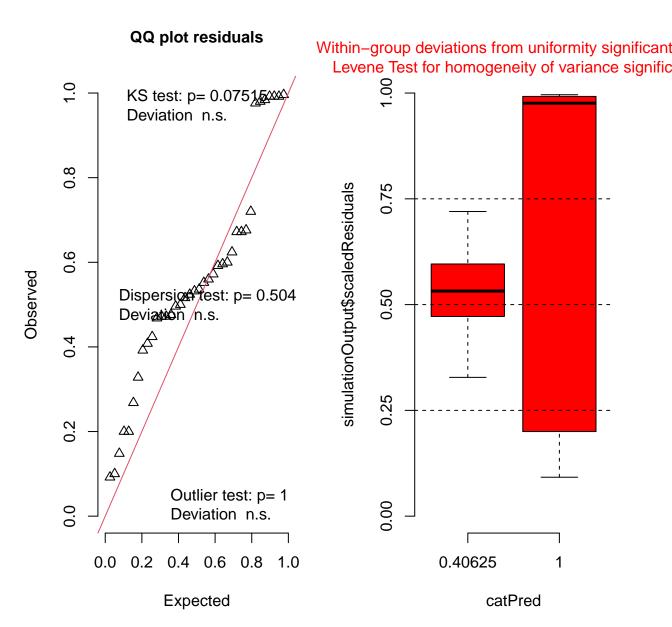
```
Conditional model:
                        Estimate Std. Error z value Pr(>|z|)
(Intercept)
                         1.1583
                                    0.1210 9.571 < 2e-16 ***
                         1.0290
                                    0.1374 7.492 6.81e-14 ***
groupCyno.Dengue virus
groupSquirrel.Zika virus -0.1545
                                    0.2440 -0.633
                                                     0.527
```

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1





Nb obs infection: 25
Nb obs control: 13



```
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.0750784 0.27400
ID
         (Intercept) 0.0005856 0.02420
 day
Residual
                     0.0029446 0.05426
Number of obs: 38, groups: ID, 9; day, 7
```

1.413 Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.158

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.00294

Estimate Std. Error z value Pr(>|z|)

0.1955

0.1133 19.079

-69.8

34.9

2.1621

0.2761

Family: gaussian (identity)

BIC

-51.6

Formula:

Data: d_cyno

AIC -59.8

Random effects:

Conditional model:

inf_statusControl

(Intercept)



Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0





Nb obs infection: 5

Nb obs control: 0

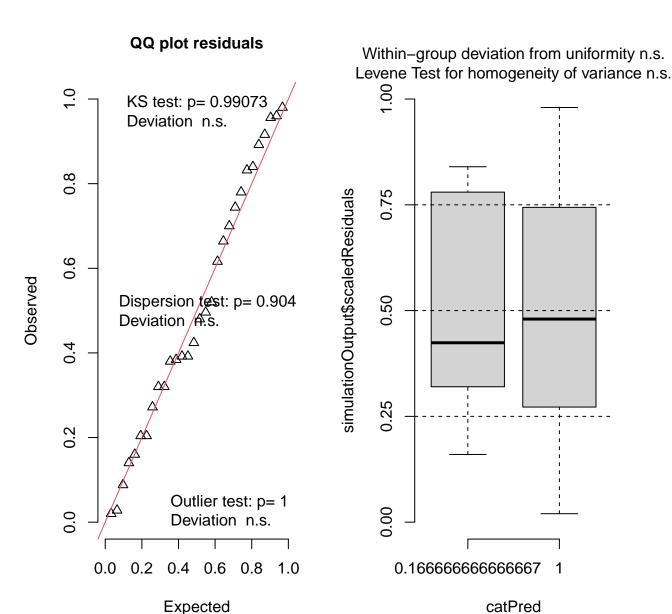




Nb excluded (LOD): 103 Nb obs DENV-squirrel (infected only): 0

Nb obs ZIKV-squirrel (infected only): 5

Nb obs DENV-cyno (infected only): 25



```
Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 1.852e-04 1.361e-02
day (Intercept) 2.401e-12 1.549e-06
Residual 3.882e-03 6.231e-02
Number of obs: 30, groups: ID, 9; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.00388
```

Estimate Std. Error z value Pr(>|z|)

0.03252

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.01667 131.77

-1.27

<2e-16 ***

0.205

log10(value) ~ group + (1 | ID) + (1 | day)

logLik deviance df.resid

2.19610

-80.1

40.1

Family: gaussian (identity)

BIC

groupSquirrel.Zika virus -0.04121

-63.1

Formula:

Data: my_df
AIC

-70.1

Random effects:

Conditional model:

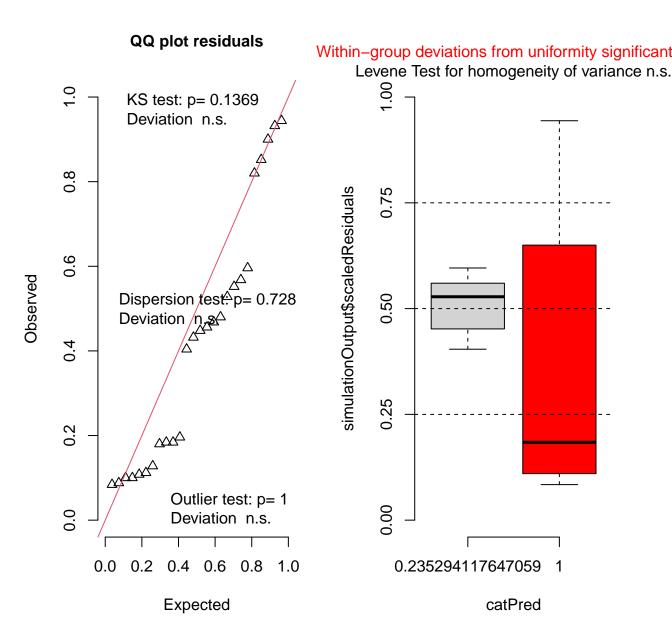
(Intercept)





Nb obs infection: 19

Nb obs control: 7



```
-35.3 -29.0 22.7 -45.3 21

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 2.809e-02 1.676e-01
day (Intercept) 1.976e-11 4.445e-06
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Residual 5.172e-03 7.191e-02 Number of obs: 26, groups: ID, 6; day, 7

logLik deviance df.resid

```
Conditional model: 
 Estimate Std. Error z value Pr(>|z|) 
 (Intercept) 1.38813 0.08668 16.015 <2e-16 ***
```

Dispersion estimate for gaussian family (sigma^2): 0.00517

Family: gaussian (identity)

BIC

inf_statusControl -0.10549

Formula:

Data: d_cyno

AIC

--Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 0.1 1

0.15164 -0.696

0.487



Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0





Nb excluded (LOD): 48
Nb obs infection: 1
Nb obs control: 0



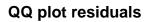


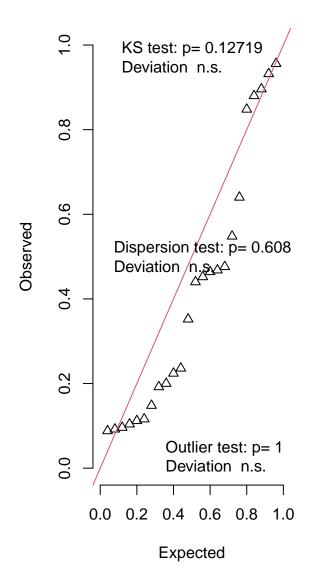
Nb obs DENV-squirrel (infected only): 4

Nb obs DENV-cyno (infected only): 19

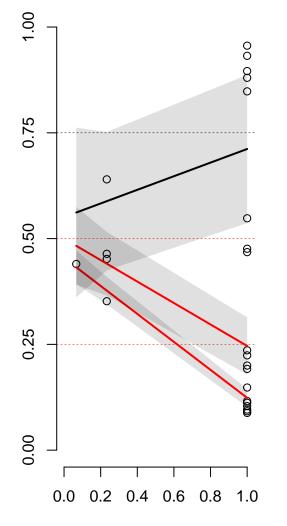
Nb obs ZIKV-squirrel (infected only): 1

DHARMa residual





Residual vs. predicted
Quantile deviations detected (red curves)
Combined adjusted quantile test significant



Model predictions (rank transformed)

```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
    AIC:
                   logLik deviance df.resid
             BIC
   -27.0
           -20.0
                   19.5
                          -39.0
                                        18
Random effects:
Conditional model:
```

Groups Name Variance Std.Dev.

ID (Intercept) 2.789e-02 0.166996 (Intercept) 5.068e-05 0.007119 day

Residual 5.668e-03 0.075289 Number of obs: 24, groups: ID, 6; day, 7

Conditional model:

Dispersion estimate for gaussian family (sigma^2): 0.00567

```
Estimate Std. Error z value Pr(>|z|)
(Intercept)
                        1.36245
                                   0.17159 7.940 2.02e-15 ***
```

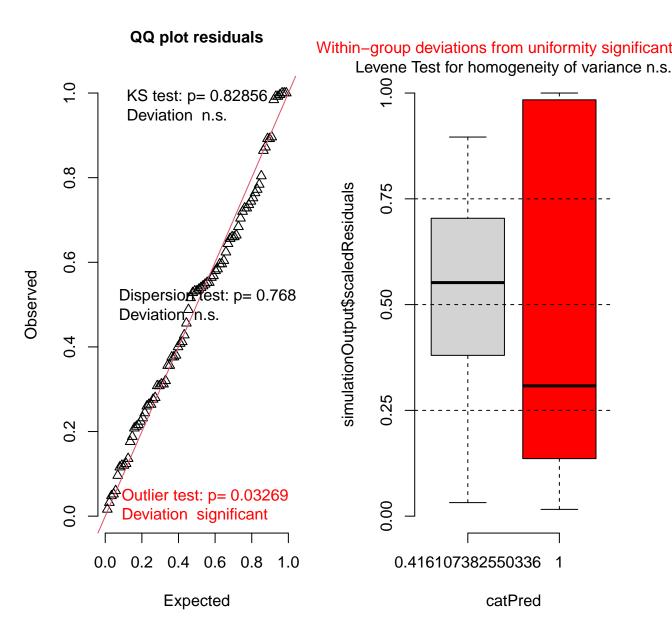
0.02463 0.19252 0.128 groupCyno.Dengue virus 0.898 groupSquirrel.Zika virus -0.08401 0.25307 -0.332 0.740





Nb obs infection: 61

Nb obs control: 26



```
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 1.041e-01 0.322649
ID
          (Intercept) 2.356e-05 0.004854
 day
Residual
                      2.597e-02 0.161160
```

Estimate Std. Error z value Pr(>|z|)

0.1976

0.1096 26.020

1.212 Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.226

logLik deviance df.resid

-27.5

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

-5.1

13.7

Number of obs: 87, groups: ID, 13; day, 7

2.8505

0.2394

Dispersion estimate for gaussian family (sigma^2): 0.026

Formula:

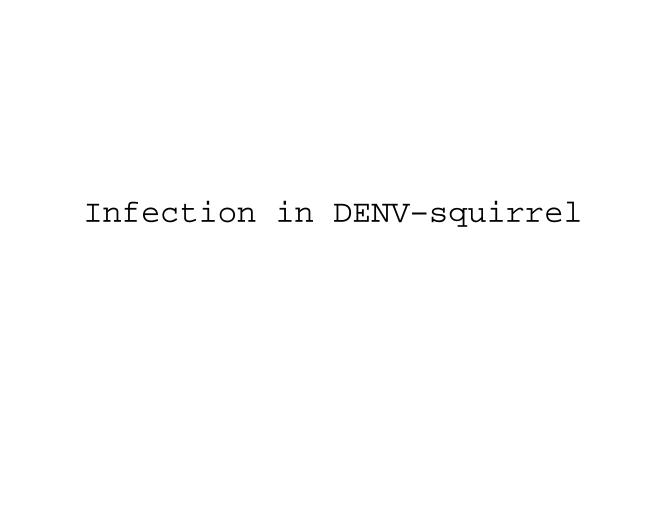
Data: d_cyno

AIC -17.5

Conditional model:

inf_statusControl

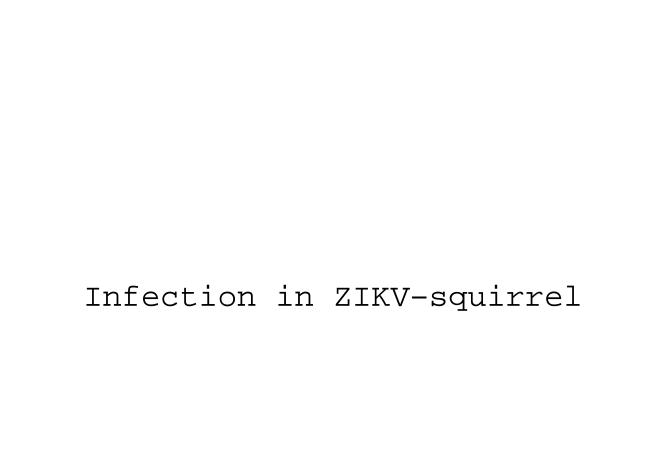
(Intercept)



Nb excluded (LOD): 33 Nb obs infection: 16 Nb obs control: 0



HGF ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 37
Nb obs infection: 12
Nb obs control: 0



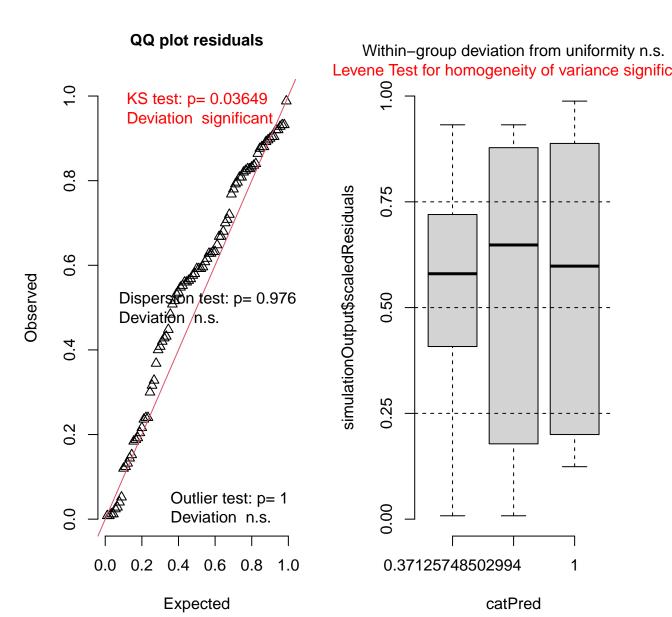
HGF ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb obs DENV-cyno (infected only): 61

Nb obs DENV-squirrel (infected only): 16

Nb obs ZIKV-squirrel (infected only): 12



```
AIC BIC logLik deviance df.resid -11.9 3.0 12.0 -23.9 83

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 6.821e-02 2.612e-01 day (Intercept) 1.924e-12 1.387e-06
Residual 2.741e-02 1.656e-01
```

log10(value) ~ group + (1 | ID) + (1 | day)

Family: gaussian (identity)

Number of obs: 89, groups: ID, 17; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0274

3.2871

Formula:

Data: my df

Conditional model:

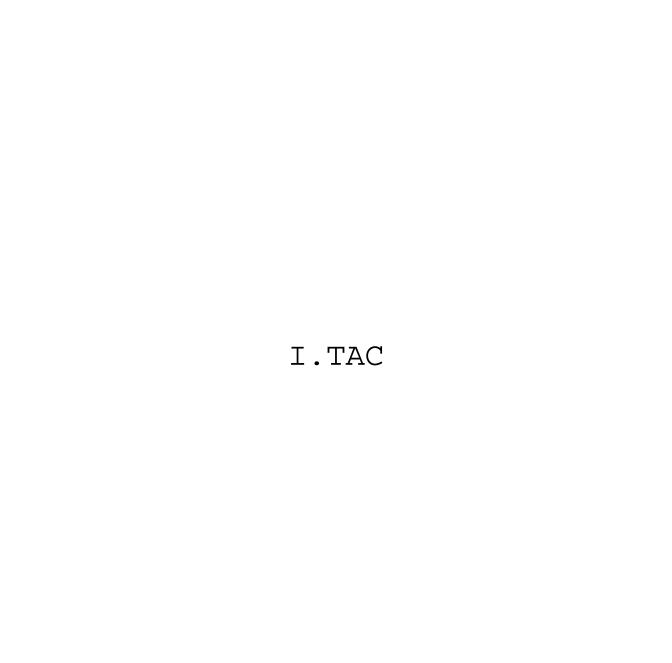
(Intercept)

groupCyno.Dengue virus -0.4362 0.1637 -2.665 0.00771 **
groupSquirrel.Zika virus 0.1822 0.1969 0.925 0.35492

Estimate Std. Error z value Pr(>|z|)

```
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 1
```

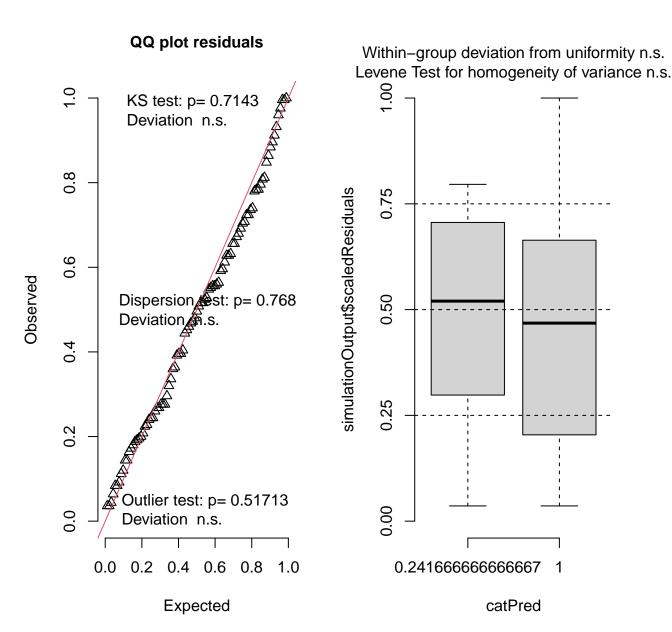
0.1370 23.995 < 2e-16 ***





Nb obs infection: 63

Nb obs control: 28



```
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 8.698e-03 9.326e-02
ID
 day
          (Intercept) 6.813e-12 2.610e-06
Residual
                     2.405e-02 1.551e-01
```

Dispersion estimate for gaussian family (sigma^2): 0.0241

Estimate Std. Error z value Pr(>|z|)0.03672

logLik deviance df.resid

-64.6

32.3

Number of obs: 91, groups: ID, 13; day, 7

2.22216

Family: gaussian (identity)

BIC

-42.0

Formula:

Data: d_cyno

AIC -54.6

Conditional model:

(Intercept)

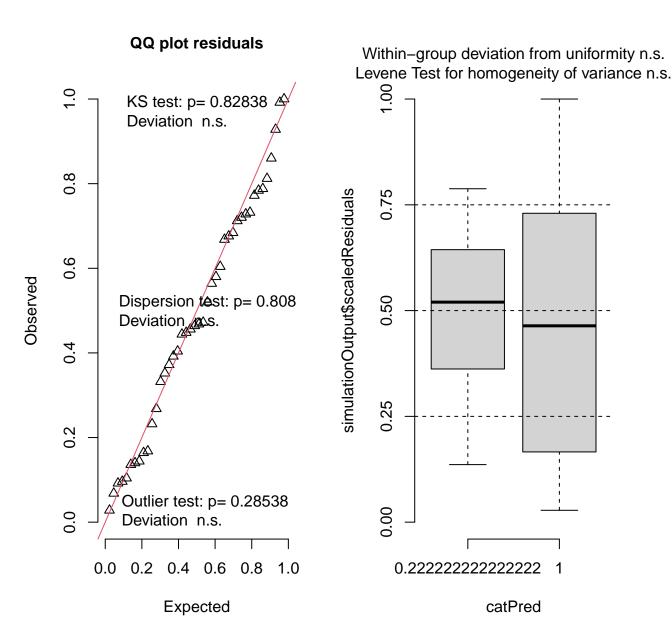
```
inf_statusControl -0.18251
                                  -2.76 0.00583 **
                          0.06619
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 1
```

60.52 < 2e-16 ***



Nb obs infection: 31

Nb obs control: 11



```
-60.3 -51.7 35.2 -70.3 37

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 2.083e-03 4.564e-02
day (Intercept) 5.117e-12 2.262e-06
```

Dispersion estimate for gaussian family (sigma^2): 0.00931
Conditional model:
Estimate Std. Error z value Pr(>|z|)

0.02324

9.307e-03 9.647e-02

logLik deviance df.resid

Family: gaussian (identity)

BIC

Number of obs: 42, groups: ID, 12; day, 7

1.69662

Formula:

Data: d_sq
AIC

Residual

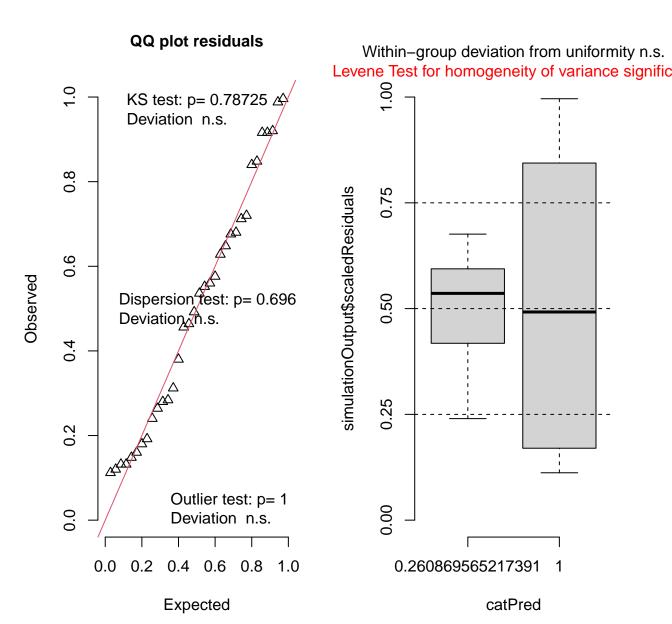
(Intercept)

<2e-16 ***

72.99



Nb obs infection: 23
Nb obs control: 11



```
AIC
             BIC
                   logLik deviance df.resid
   -30.4
            -22.8
                      20.2
                             -40.4
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.008135 0.09019
 ID
```

0.010591 0.10291 Number of obs: 34, groups: ID, 11; day, 7 Dispersion estimate for gaussian family (sigma^2): 0.0106

(Intercept) 0.003341 0.05780

Family: gaussian (identity)

inf_statusControl -0.03800

Formula:

day Residual

Data: z_sq

```
Conditional model:
                  Estimate Std. Error z value Pr(>|z|)
                                        36.35
                                                 <2e-16 ***
(Intercept)
                   1.70342
                              0.04687
                                       -0.52
                                                  0.604
```

0.07331

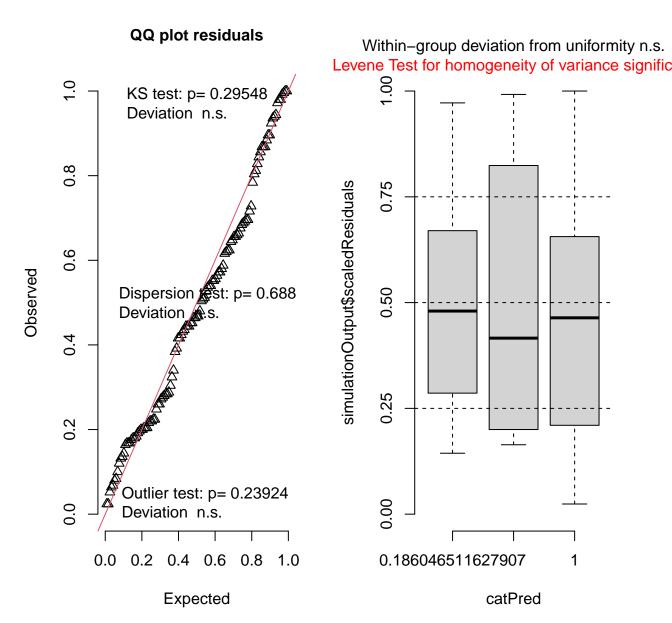
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1



Nb obs DENV-cyno (infected only): 63

Nb obs ZIKV-squirrel (infected only): 23

Nb obs DENV-squirrel (infected only): 31



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
             BIC logLik deviance df.resid
    AIC
           -55.3
                   41.9
   -71.9
                          -83.9
                                      111
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

ID (Intercept) 0.007862 0.08867 (Intercept) 0.001073 0.03275 day

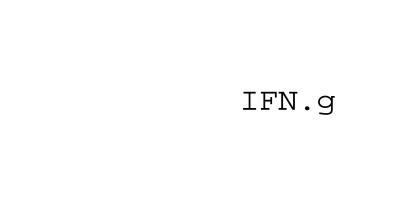
Residual 0.022703 0.15067 Number of obs: 117, groups: ID, 26; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0227

```
Conditional model:
```

Estimate Std. Error z value Pr(>|z|) (Intercept) 1.69607 0.04211 40.28 <2e-16 *** 0.52586 0.05381 9.77 <2e-16 *** groupCyno.Dengue virus groupSquirrel.Zika virus 0.01451 0.06162 0.24 0.814

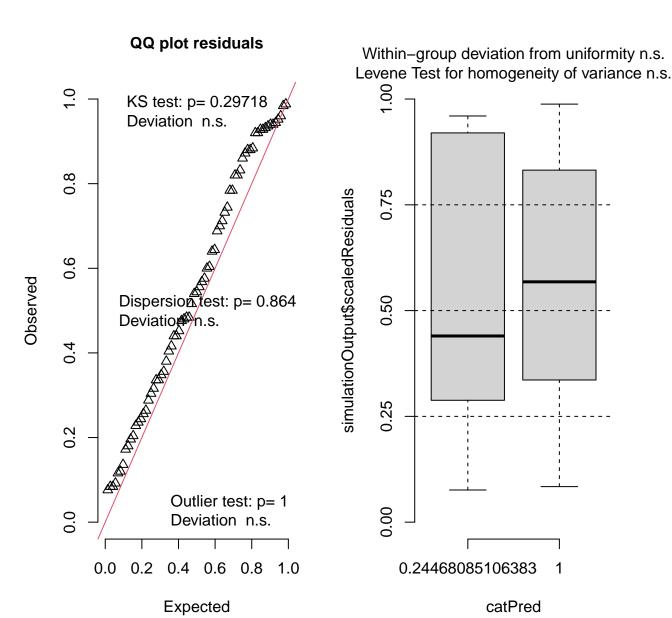
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1





Nb obs infection: 49

Nb obs control: 22



```
-2.6 8.7 6.3 -12.6 66

Random effects:

Conditional model:

Groups Name Variance Std.Dev.
ID (Intercept) 0.09779 0.31272
day (Intercept) 0.00545 0.07382
```

Dispersion estimate for gaussian family (sigma^2): 0.0258

0.02577 0.16052

logLik deviance df.resid

Family: gaussian (identity)

BIC

Number of obs: 71, groups: ID, 13; day, 7

Formula:

Data: d_cyno

Residual

Conditional model:

```
Estimate Std. Error z value Pr(>|z|)
(Intercept) 1.8030 0.1116 16.16 <2e-16 ***
inf_statusControl -0.1314 0.1932 -0.68 0.497
```

---Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1



Nb excluded (LOD): 29
Nb obs infection: 20
Nb obs control: 0



IFN.g ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 37
Nb obs infection: 12
Nb obs control: 0



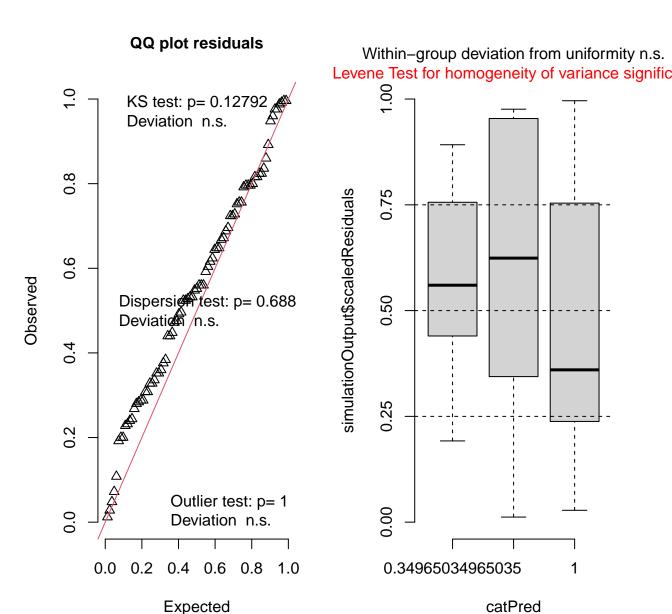
IFN.g ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb obs DENV-squirrel (infected only): 20

Nb obs ZIKV-squirrel (infected only): 12

Nb obs DENV-cyno (infected only): 49



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
    AIC
                   logLik deviance df.resid
             BIC
            25.5
                   0.5
                           -0.9
   11.1
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

ID (Intercept) 0.276095 0.52545 (Intercept) 0.001352 0.03678 day Residual 0.023730 0.15405

Number of obs: 81, groups: ID, 18; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0237

Conditional model: Estimate Std. Error z value Pr(>|z|)

0.2382 11.309 < 2e-16 *** (Intercept) 2.6934 -0.8906 0.2965 -3.004 0.00267 ** groupCyno.Dengue virus groupSquirrel.Zika virus -0.1038 0.3581 -0.290 0.77191

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 0.1 ... 1

IL.10



Nb excluded (LOD): 91
Nb obs infection: 0
Nb obs control: 0





Nb excluded (LOD): 46
Nb obs infection: 3
Nb obs control: 0





Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0



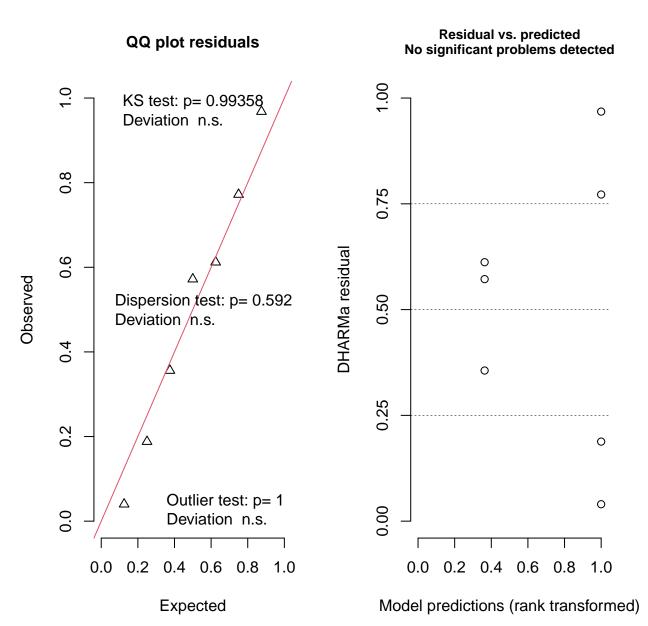


Nb excluded (LOD): 126

Nb obs DENV-squirrel (infected only): 3

Nb obs ZIKV-squirrel (infected only): 4

Nb obs DENV-cyno (infected only): 0



```
Family: gaussian ( identity )
                  log10(value) ~ group + (1 | ID) + (1 | day)
Formula:
Data: my_df
                    logLik deviance df.resid
     AIC
              BIC
                        NΑ
      NA
              NA
                                 NA
Random effects:
```

Conditional model:

Groups Name Variance Std.Dev. (Intercept) 3.028e-25 5.503e-13 ID (Intercept) 1.212e-11 3.481e-06 day

Residual 5.467e-02 2.338e-01

Number of obs: 7, groups: ID, 3; day, 6

Dispersion estimate for gaussian family (sigma^2): 0.0547 Conditional model: (Intercept) 1.2401 NaN NaN

Estimate Std. Error z value Pr(>|z|)NaN groupSquirrel.Zika virus 0.8112 NaN NaN NaN

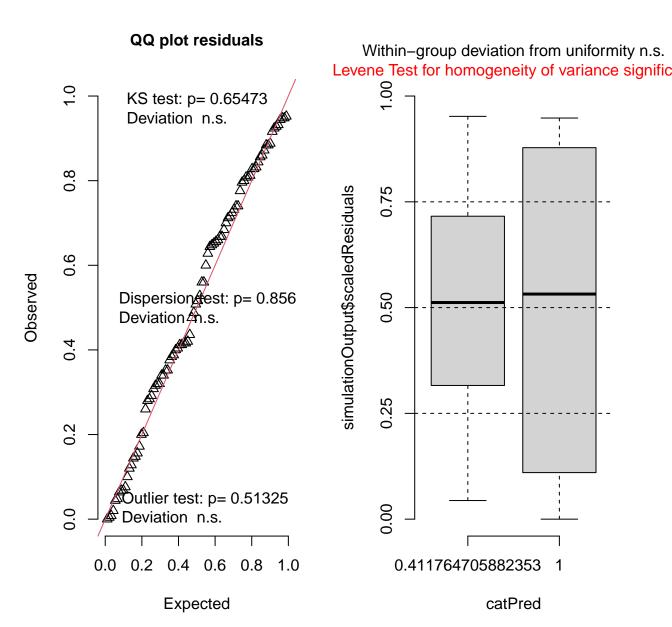
IL.12



Nb excluded (LOD): 1

Nb obs infection: 62

Nb obs control: 28



```
-118.8
          -106.3
                     64.4 -128.8
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.073955 0.27195
ID
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

Formula:

Data: d_cyno

AIC

(Intercept) 0.004311 0.06566 day Residual 0.006363 0.07977 Number of obs: 90, groups: ID, 13; day, 7

Conditional model: Estimate Std. Error z value Pr(>|z|)0.09453 31.75 3.00159

Dispersion estimate for gaussian family (sigma^2): 0.00636

logLik deviance df.resid

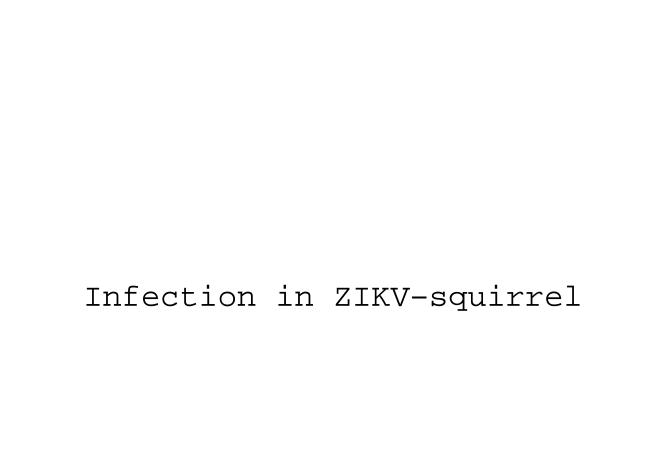
<2e-16 *** (Intercept) 0.83 0.408 inf_statusControl 0.13615 0.16443

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1



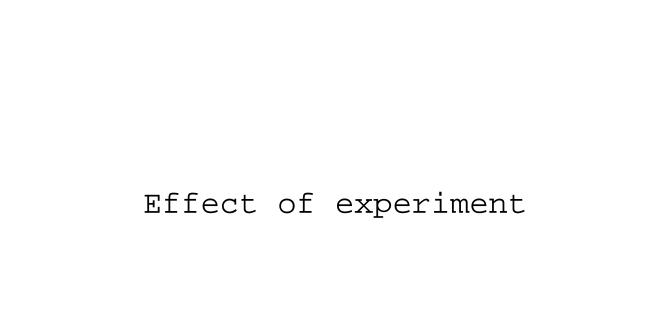
Nb excluded (LOD): 36 Nb obs infection: 13 Nb obs control: 0





Nb excluded (LOD): 37
Nb obs infection: 12
Nb obs control: 0



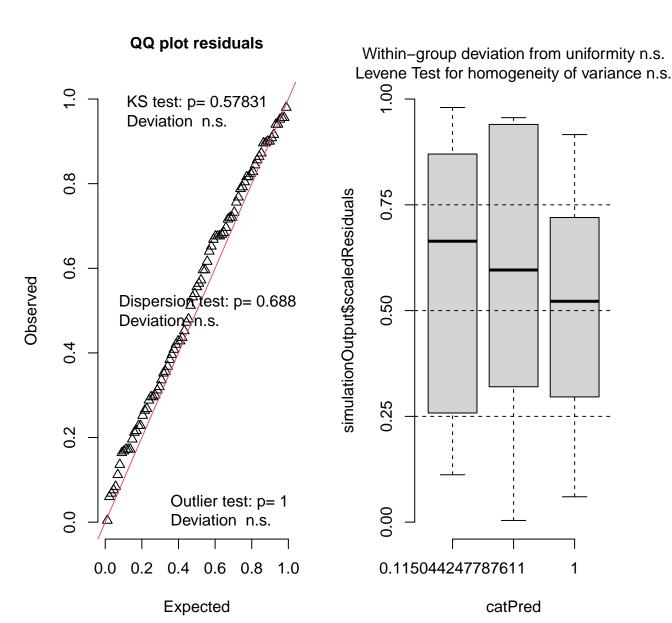


Nb excluded (LOD): 46

Nb obs DENV-cyno (infected only): 62

Nb obs DENV-squirrel (infected only): 13

Nb obs ZIKV-squirrel (infected only): 12



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
    AIC:
                  logLik deviance df.resid
             BIC
           -26.9
                   26.8
   -41.7
                          -53.7
                                        81
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

ID (Intercept) 0.07591 0.2755 (Intercept) 0.00126 0.0355 day

Residual 0.01657 0.1287 Number of obs: 87, groups: ID, 17; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0166

Conditional model:

```
Estimate Std. Error z value Pr(>|z|)
(Intercept)
                         2.92419
                                   0.14530 20.125
                                                     <2e-16 ***
```

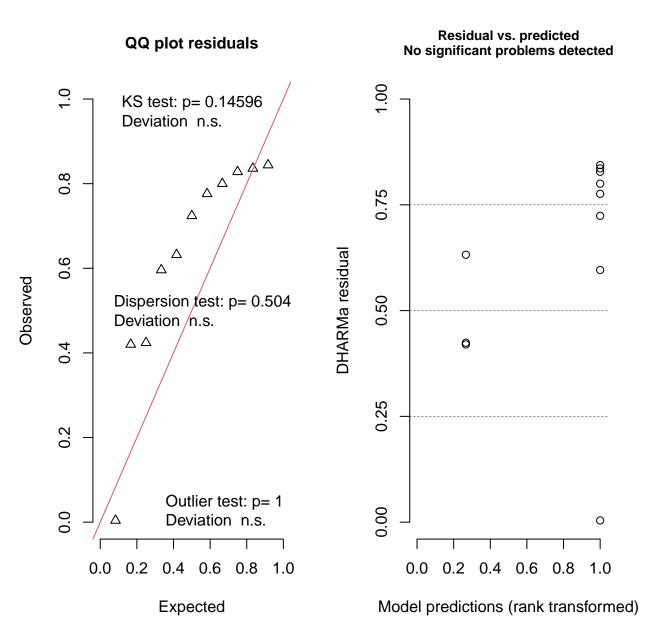
0.07794 0.17206 groupCyno.Dengue virus 0.453 0.651 groupSquirrel.Zika virus -0.02098 0.20387 -0.103 0.918

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

IL.15



Nb excluded (LOD): 80
Nb obs infection: 3
Nb obs control: 8



```
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.047583 0.21813
ID
          (Intercept) 0.004035 0.06353
 day
Residual
                      0.038759 0.19687
```

8.133 4.19e-16 ***

0.0166 *

2.397

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0388

1.2

Estimate Std. Error z value Pr(>|z|)0.2501

0.3075

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

13.2

-0.6

Number of obs: 11, groups: ID, 3; day, 7

2.0342

0.7369

Formula:

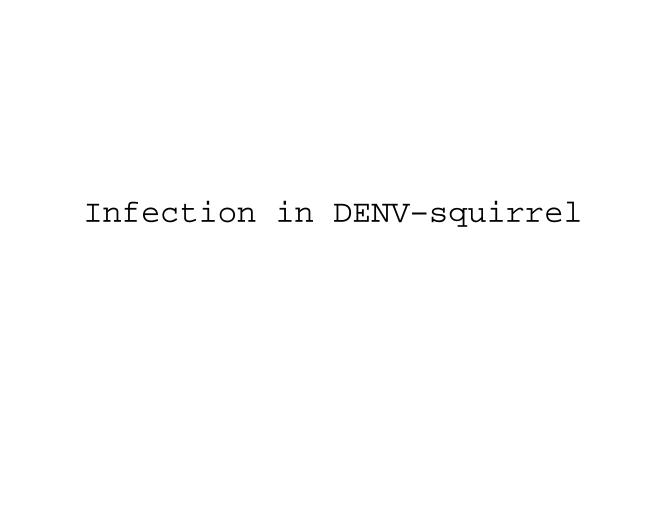
Data: d_cyno AIC

11.2

Conditional model:

inf_statusControl

(Intercept)



Nb excluded (LOD): 38
Nb obs infection: 11
Nb obs control: 0





Nb excluded (LOD): 38
Nb obs infection: 11
Nb obs control: 0



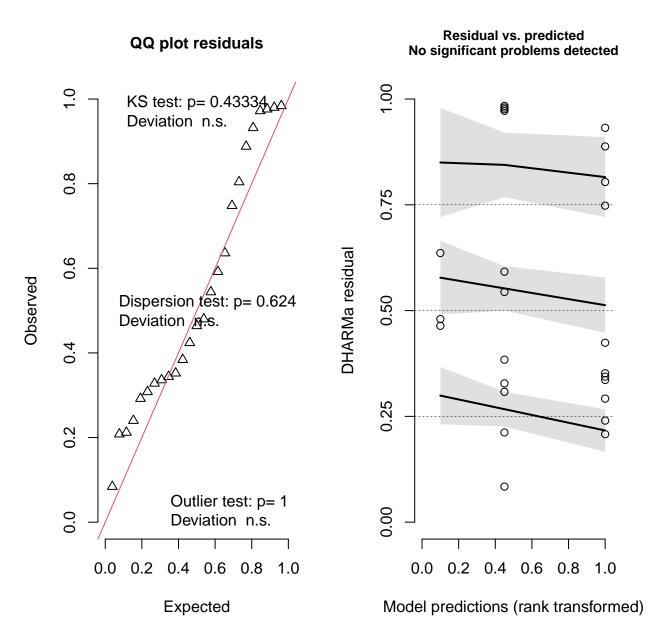


Nb excluded (LOD): 108

Nb obs DENV-squirrel (infected only): 11

Nb obs ZIKV-squirrel (infected only): 11

Nb obs DENV-cyno (infected only): 3



```
Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 2.395e-01 4.894e-01
day (Intercept) 6.885e-14 2.624e-07
Residual 1.815e-02 1.347e-01
Number of obs: 25, groups: ID, 8; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0182
```

19

Estimate Std. Error z value Pr(>|z|)

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.5547 -1.164

0.3789 0.658

0.2491 10.779 <2e-16 ***

0.244

0.511

log10(value) ~ group + (1 | ID) + (1 | day)

BIC logLik deviance df.resid

2.6852

-0.6459

0.1

-0.1

Family: gaussian (identity)

19.5

Formula:

Data: my_df
AIC

12.1

Conditional model:

groupCyno.Dengue virus

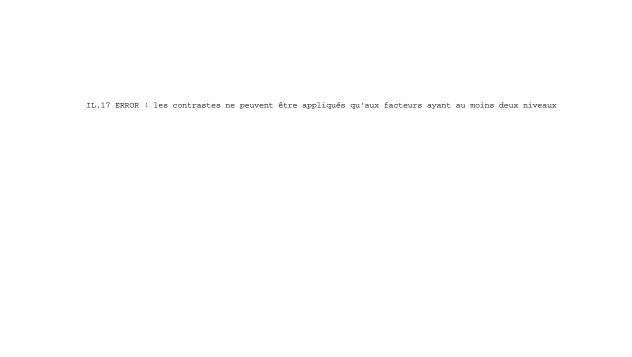
groupSquirrel.Zika virus 0.2492

(Intercept)

IL.17

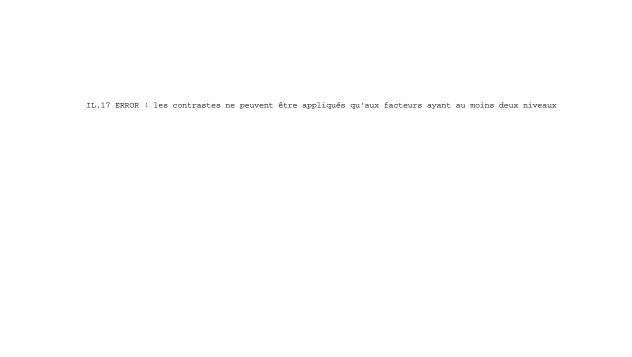


Nb excluded (LOD): 91
Nb obs infection: 0
Nb obs control: 0



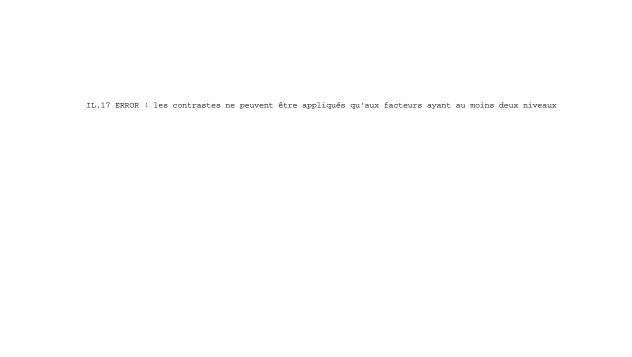


Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0





Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0



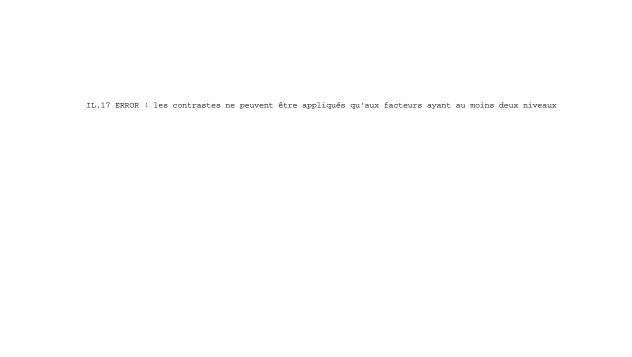


Nb excluded (LOD): 129

Nb obs DENV-cyno (infected only): 0

Nb obs DENV-squirrel (infected only): 4

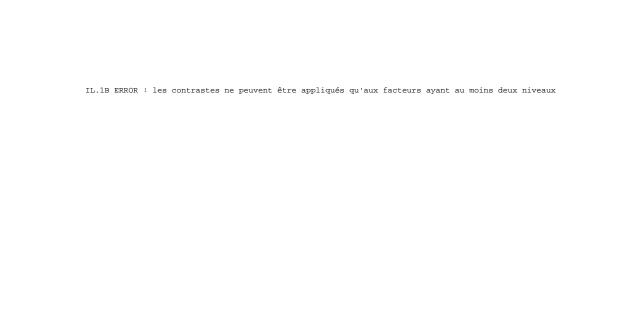
Nb obs ZIKV-squirrel (infected only): 0



IL.1B

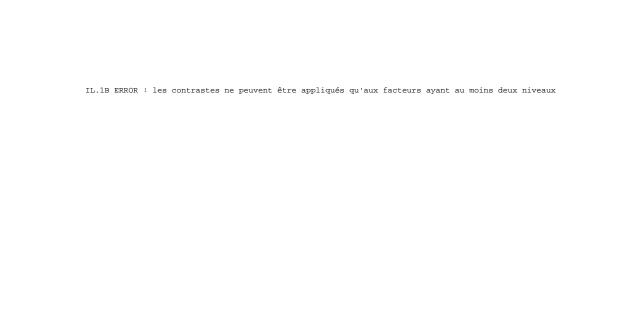


Nb excluded (LOD): 91
Nb obs infection: 0
Nb obs control: 0



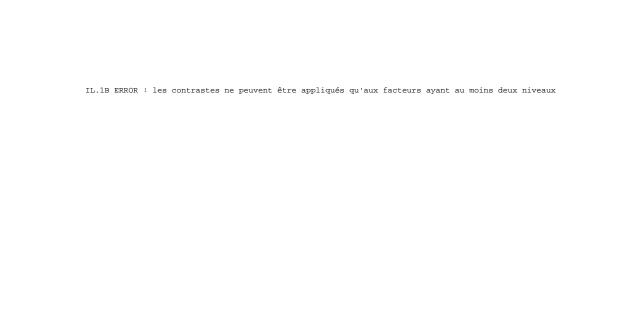


Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0





Nb excluded (LOD): 47
Nb obs infection: 2
Nb obs control: 0



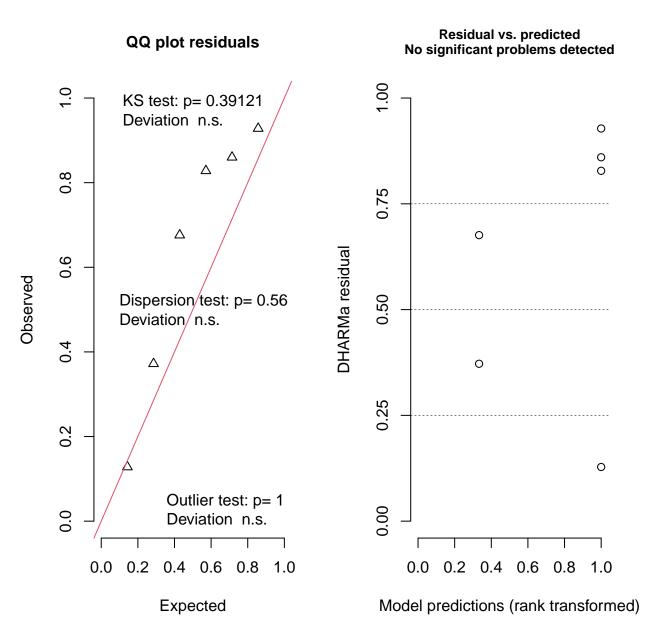


Nb excluded (LOD): 127

Nb obs DENV-squirrel (infected only): 4

Nb obs ZIKV-squirrel (infected only): 2

Nb obs DENV-cyno (infected only): 0



```
16.1
            15.0
                   -3.0
                               6.1
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
         (Intercept) 3.096e-01 5.564e-01
 ID
         (Intercept) 4.593e-11 6.777e-06
 day
```

Estimate Std. Error z value Pr(>|z|)0.4122

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.7076 -0.695

4.448 8.67e-06 ***

0.487

log10(value) ~ group + (1 | ID) + (1 | day)

logLik deviance df.resid

4.244e-02 2.060e-01

Dispersion estimate for gaussian family (sigma^2): 0.0424

1.8333

Family: gaussian (identity)

BIC

Number of obs: 6, groups: ID, 3; day, 5

groupSquirrel.Zika virus -0.4915

Formula:

Data: my_df AIC

Residual

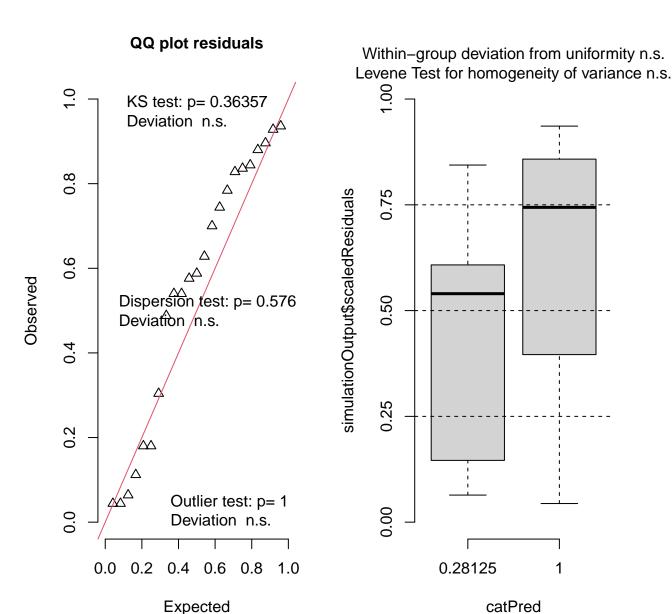
(Intercept)

Conditional model:

IL.2



Nb excluded (LOD): 68
Nb obs infection: 15
Nb obs control: 8



```
Random effects:

Conditional model:

Groups Name Variance Std.Dev.

ID (Intercept) 0.08303 0.2882
day (Intercept) 0.01527 0.1236
Residual 0.07974 0.2824
```

Estimate Std. Error z value Pr(>|z|)

0.186608 12.814

0.291105 -0.006

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.995

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0797

18.8

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

34.5

-9.4

Number of obs: 23, groups: ID, 7; day, 7

2.391142

Formula:

Data: d_cyno

AIC 28.8

Conditional model:

inf_statusControl -0.001741

(Intercept)



Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0



IL.2 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 47
Nb obs infection: 2
Nb obs control: 0



IL.2 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux

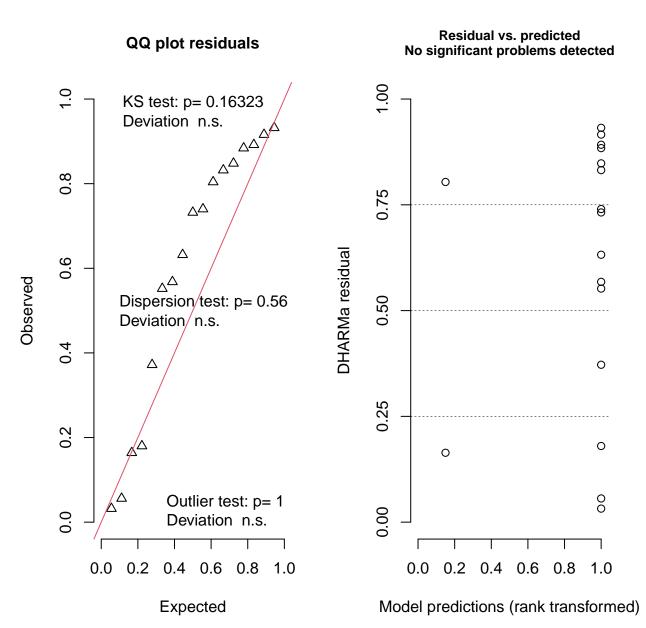


Nb excluded (LOD): 116

Nb obs DENV-squirrel (infected only): 0

Nb obs ZIKV-squirrel (infected only): 2

Nb obs DENV-cyno (infected only): 15



```
25.7
             29.8
                     -7.8
                              15.7
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 7.930e-02 2.816e-01
 ID
 day
         (Intercept) 1.004e-10 1.002e-05
Residual
                     1.060e-01 3.256e-01
```

Estimate Std. Error z value Pr(>|z|)0.1871 12.802

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.4090 -0.874

<2e-16 ***

0.382

log10(value) ~ group + (1 | ID) + (1 | day)

logLik deviance df.resid

Family: gaussian (identity)

BIC

Number of obs: 17, groups: ID, 5; day, 7

groupSquirrel.Zika virus -0.3576

Dispersion estimate for gaussian family (sigma^2): 0.106

2.3952

Formula:

Data: my_df AIC

Conditional model:

(Intercept)

IL.4



Nb excluded (LOD): 91
Nb obs infection: 0
Nb obs control: 0



IL.4 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0



IL.4 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 46
Nb obs infection: 3
Nb obs control: 0



IL.4 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 130

Nb obs DENV-cyno (infected only): 0

Nb obs ZIKV-squirrel (infected only): 3

Nb obs DENV-squirrel (infected only): 0



IL.4 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux

IL.5



Nb excluded (LOD): 91
Nb obs infection: 0
Nb obs control: 0



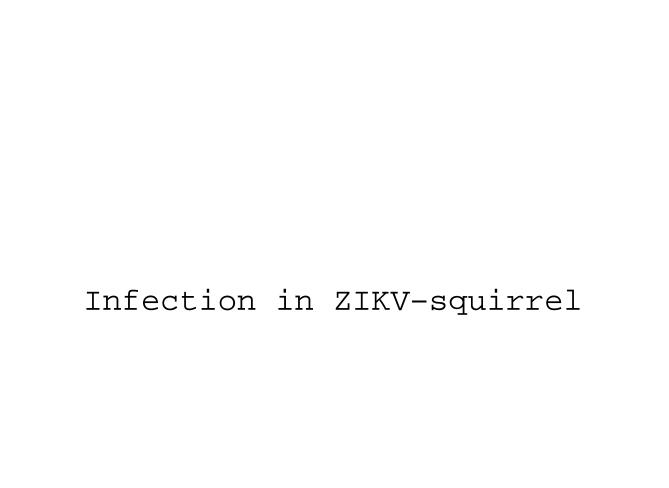
IL.5 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 45
Nb obs infection: 4

Nb obs control: 0

IL.5 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 46
Nb obs infection: 3
Nb obs control: 0



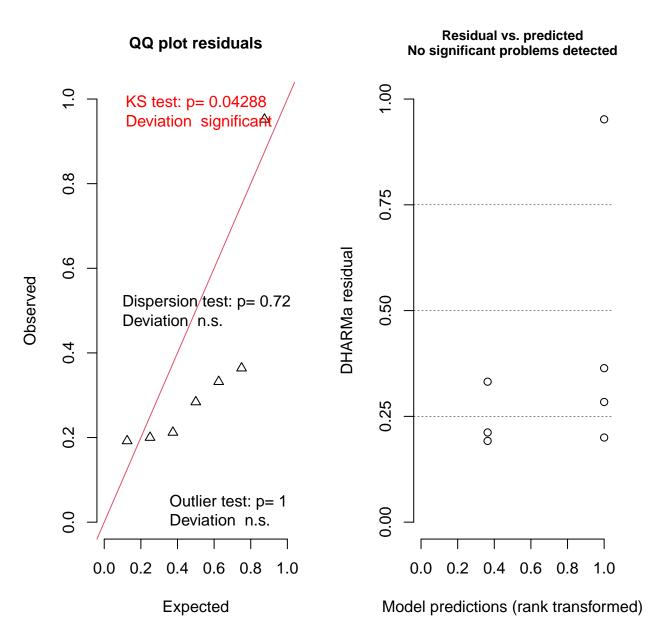
IL.5 ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb obs DENV-cyno (infected only): 0

Nb obs ZIKV-squirrel (infected only): 3

Nb obs DENV-squirrel (infected only): 4



```
Family: gaussian ( identity )
                 log10(value) ~ group + (1 | ID) + (1 | day)
Formula:
Data: my df
                  logLik deviance df.resid
    AIC
             BIC
                    15.9
                          -31.7
  -21.7
           -22.0
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

(Intercept) 2.731e-24 1.653e-12 ID (Intercept) 2.510e-03 5.010e-02 day Residual 1.130e-05 3.361e-03

Number of obs: 7, groups: ID, 4; day, 5

groupSquirrel.Zika virus -0.04613

(Intercept)

Dispersion estimate for gaussian family (sigma^2): 1.13e-05 Conditional model:

Estimate Std. Error z value Pr(>|z|)0.89817 NaN NaN NaN

NaN

NaN

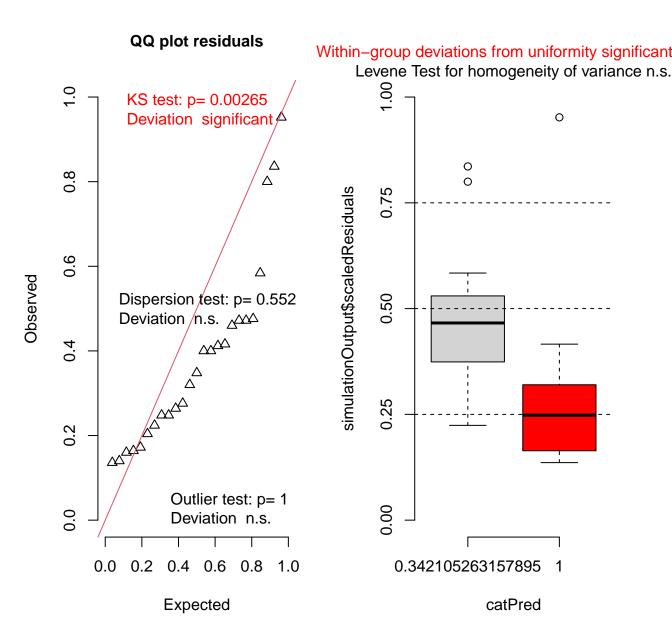
NaN

IL.6



Nb obs infection: 13

Nb obs control: 12



```
-73.2 -67.2 41.6 -83.2 20

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.0045940 0.06778
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Residual 0.0009070 0.03012 Number of obs: 25, groups: ID, 5; day, 6

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.000907

(Intercept) 0.0004226 0.02056

Family: gaussian (identity)

BIC

Formula:

day

Data: d_cyno

AIC



Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0





Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0

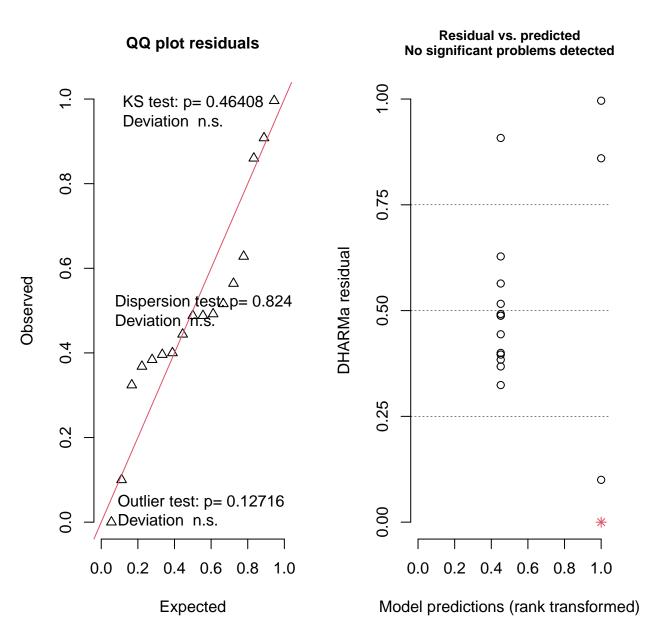




Nb obs DENV-squirrel (infected only): 0

Nb obs ZIKV-squirrel (infected only): 4

Nb obs DENV-cyno (infected only): 13



```
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 2.804e-15 5.295e-08
 ID
 day
         (Intercept) 2.021e-11 4.495e-06
Residual
                     1.953e-02 1.397e-01
Number of obs: 17, groups: ID, 4; day, 7
Dispersion estimate for gaussian family (sigma^2): 0.0195
```

Estimate Std. Error z value Pr(>|z|)0.03876 24.994

8.439

0.07990

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

<2e-16 ***

log10(value) ~ group + (1 | ID) + (1 | day)

logLik deviance df.resid

0.96872

-18.7

9.3

Family: gaussian (identity)

BIC

-4.5

groupSquirrel.Zika virus 0.67429

Formula:

Data: my_df AIC

-8.7

Random effects:

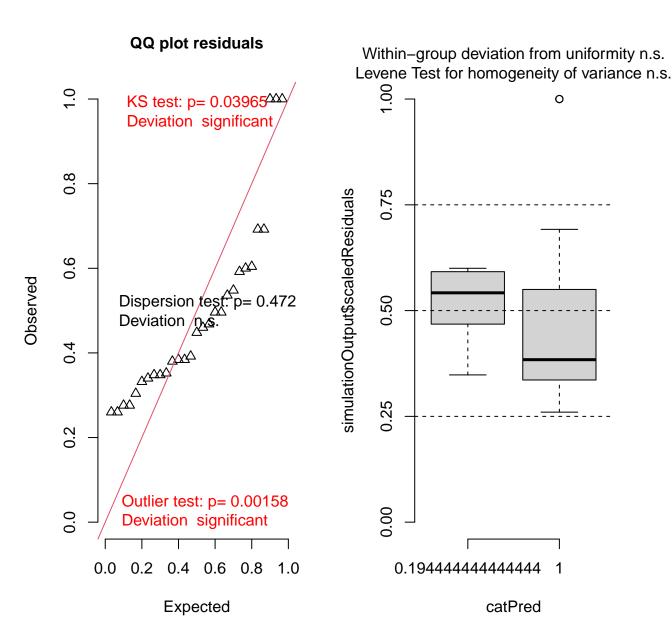
Conditional model:

(Intercept)

IL.8



Nb obs infection: 23
Nb obs control: 6



```
BIC
                   logLik deviance df.resid
    AIC
    -0.9
             5.9
                      5.5
                             -10.9
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

(Intercept) 0.0251498 0.15859 ID

Family: gaussian (identity)

Formula:

Data: d_cyno

(Intercept) 0.0009346 0.03057 day Residual 0.0272711 0.16514 Number of obs: 29, groups: ID, 7; day, 7

Conditional model: Estimate Std. Error z value Pr(>|z|)

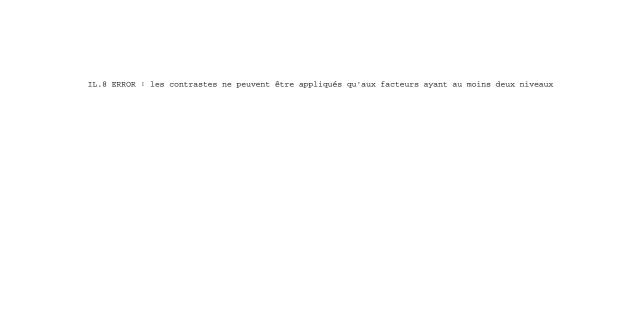
Dispersion estimate for gaussian family (sigma^2): 0.0273

0.07793 16.386 <2e-16 *** (Intercept) 1.27697 inf_statusControl -0.10929 0.18914 - 0.5780.563

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

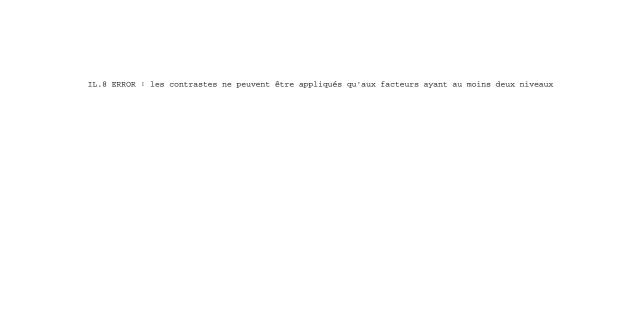


Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0





Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0

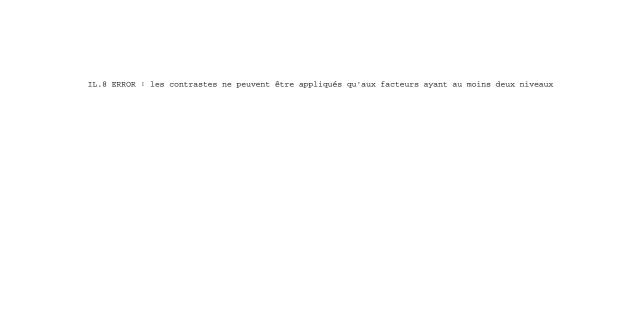


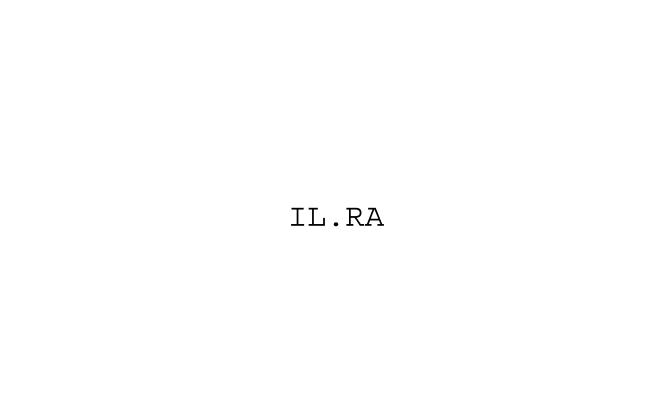


Nb obs DENV-cyno (infected only): 23

Nb obs DENV-squirrel (infected only): 0

Nb obs ZIKV-squirrel (infected only): 0



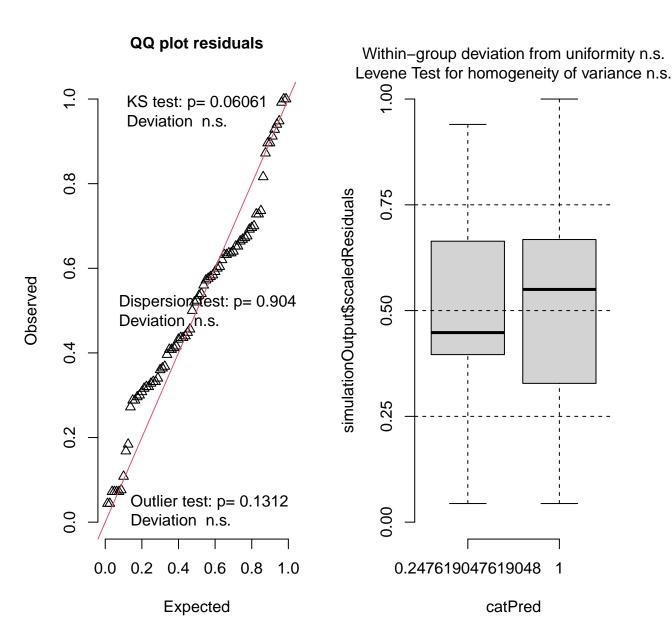




Nb excluded (LOD): 12

Nb obs infection: 54

Nb obs control: 25



```
29.0 40.8 -9.5 19.0 74

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.036552 0.19119
day (Intercept) 0.001996 0.04468
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Number of obs: 79, groups: ID, 13; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0559

0.055886 0.23640

logLik deviance df.resid

Family: gaussian (identity)

BIC

Formula:

Data: d_cyno

AIC

Residual

```
Conditional model:

Estimate Std. Error z value Pr(>|z|)

(Intercept) 2.3185117 0.0740515 31.309 <2e-16 ***
inf_statusControl -0.0004848 0.1291759 -0.004 0.997
```

--- Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1



Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0





Nb excluded (LOD): 43
Nb obs infection: 6
Nb obs control: 0



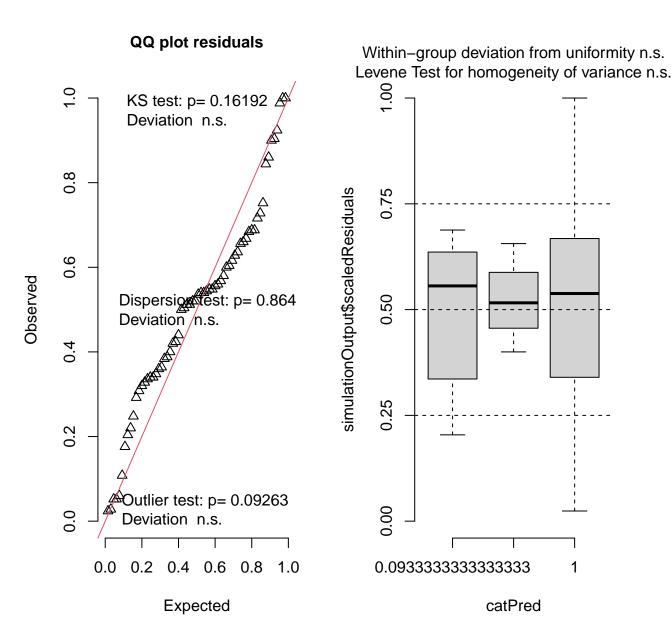


Nb excluded (LOD): 69

Nb obs DENV-cyno (infected only): 54

Nb obs DENV-squirrel (infected only): 4

Nb obs ZIKV-squirrel (infected only): 6



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
    AIC:
             BIC logLik deviance df.resid
    32.6
            45.6
                  -10.3
                              20.6
                                         58
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

ID (Intercept) 3.472e-02 1.863e-01 (Intercept) 8.227e-12 2.868e-06 day

Residual 6.288e-02 2.508e-01 Number of obs: 64, groups: ID, 12; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0629

Conditional model: Estimate Std. Error z value Pr(>|z|)

(Intercept) 2.1609 0.2246 9.621 <2e-16 *** 0.1594 0.2357 0.676 0.499 groupCyno.Dengue virus groupSquirrel.Zika virus -0.1336 0.2798 -0.477 0.633

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

IP.10

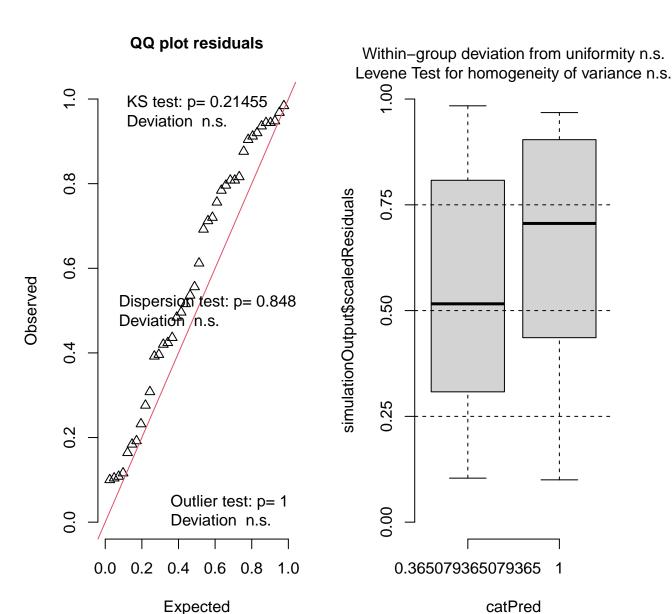


NT1- - -- 1 - 1 - 1 (TOD) • - -- 1

Nb excluded (LOD): 51

Nb obs infection: 22

Nb obs control: 18



```
-37.4 -28.9 23.7 -47.4 35

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 1.584e-02 1.259e-01
day (Intercept) 3.426e-12 1.851e-06
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Conditional model:

Estimate Std. Error z value Pr(>|z|)

Dispersion estimate for gaussian family (sigma^2): 0.0114

1.139e-02 1.067e-01

logLik deviance df.resid

Family: gaussian (identity)

BIC

Number of obs: 40, groups: ID, 12; day, 7

Formula:

Data: d_cyno

AIC

Residual

```
(Intercept) 0.84447 0.05378 15.703 <2e-16 ***
inf_statusControl 0.04309 0.08843 0.487 0.626
---
Signif. codes: 0 ...***... 0.001 ...**... 0.05 ...... 0.1 ..... 1
```



Nb excluded (LOD): 33 Nb obs infection: 16 Nb obs control: 0





Nb excluded (LOD): 37
Nb obs infection: 12
Nb obs control: 0



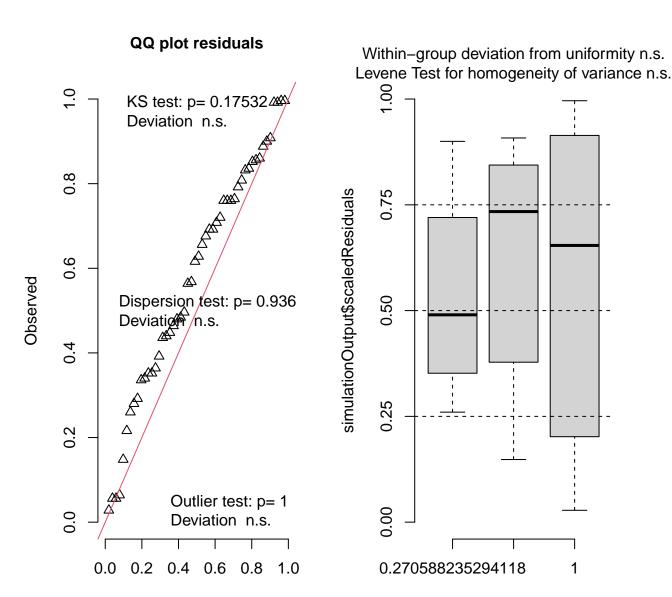


Nb obs DENV-squirrel (infected only): 16

Nb obs ZIKV-squirrel (infected only): 12

Nb obs DENV-cyno (infected only): 22

Nb excluded (LOD): 83



catPred

Expected

```
Conditional model:

Groups Name Variance Std.Dev.

ID (Intercept) 5.989e-02 2.447e-01
day (Intercept) 1.915e-11 4.376e-06
Residual 1.361e-02 1.167e-01

Number of obs: 50, groups: ID, 19; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0136
```

Estimate Std. Error z value Pr(>|z|)

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.1145 10.418

0.1473 -2.411

0.1567 -1.495

<2e-16 ***

0.0159 *

0.1348

log10(value) ~ group + (1 | ID) + (1 | day)

BIC logLik deviance df.resid

1.1925

-0.3551

14.4 -28.8

Family: gaussian (identity)

-5.3

Formula:

Data: my_df
AIC

-16.8

Random effects:

Conditional model:

groupCyno.Dengue virus

groupSquirrel.Zika virus -0.2343

(Intercept)

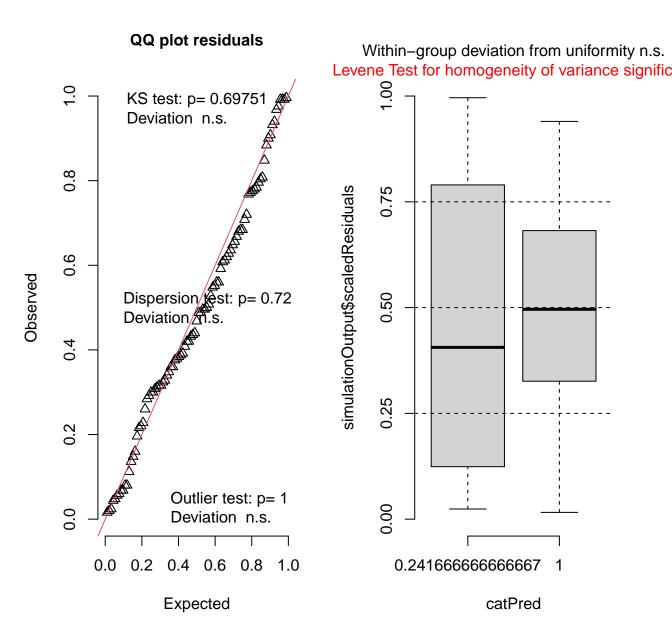
MCP.1



Nb obs infection: 63

Nb obs control: 28

Nb excluded (LOD): 0



```
-77.1
           -64.6
                     43.6
                             -87.1
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 2.056e-02 1.434e-01
 ID
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

day (Intercept) 2.664e-11 5.161e-06 Residual 1.621e-02 1.273e-01 Number of obs: 91, groups: ID, 13; day, 7

2.683242

logLik deviance df.resid

Family: gaussian (identity)

BIC

Formula:

Data: d_cyno

AIC

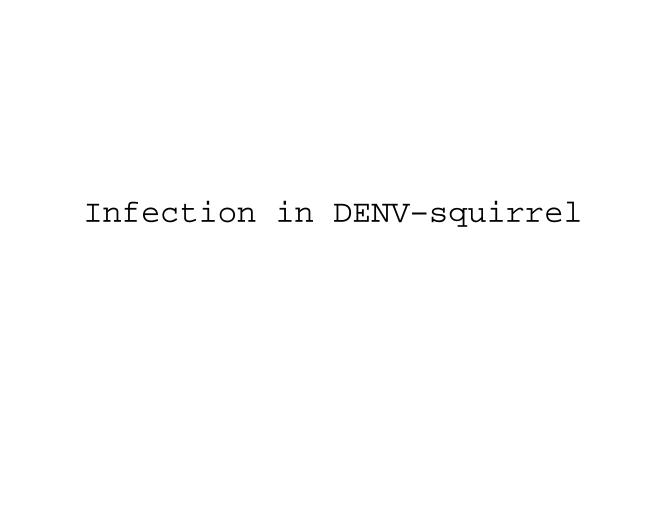
(Intercept)

Dispersion estimate for gaussian family (sigma^2): 0.0162 Conditional model:

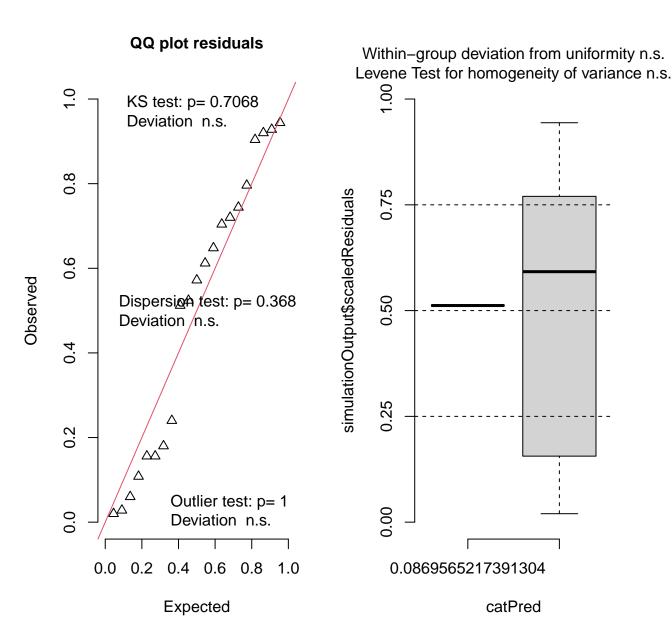
> Estimate Std. Error z value Pr(>|z|)0.050410

```
53.23
                                     -0.01
                                             0.988
inf_statusControl -0.001313
                           0.090878
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 1
```

<2e-16 ***



Nb excluded (LOD): 28
Nb obs infection: 20
Nb obs control: 1



```
27.7 33.0 -8.9 17.7 16

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 5.343e-01 7.310e-01
```

8.432

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.226

logLik deviance df.resid

4.903e-02 2.214e-01

Estimate Std. Error z value Pr(>|z|)

0.8323 -1.210

0.3306

(Intercept) 9.397e-12 3.066e-06

Dispersion estimate for gaussian family (sigma^2): 0.049

Number of obs: 21, groups: ID, 6; day, 5

2.7878

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

Formula:

day

Residual

(Intercept)

Conditional model:

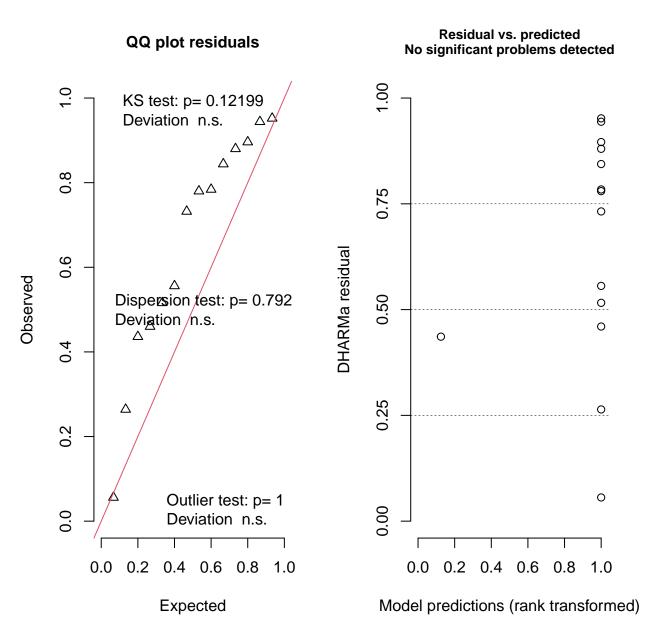
inf_statusControl -1.0068

Data: d_sq

AIC



Nb excluded (LOD): 35 Nb obs infection: 13 Nb obs control: 1



```
AIC
             BIC
                   logLik deviance df.resid
    8.0
             11.2
                      1.0
                              -2.0
Random effects:
Conditional model:
```

Groups Name Variance Std.Dev. (Intercept) 0.316561 0.56264 ID

Family: gaussian (identity)

Formula:

Data: z_sq

(Intercept) 0.004227 0.06502 day Residual 0.004437 0.06661 Number of obs: 14, groups: ID, 6; day, 7

Conditional model: Estimate Std. Error z value Pr(>|z|)

Dispersion estimate for gaussian family (sigma^2): 0.00444

(Intercept) 0.2542 11.073 <2e-16 *** 2.8148 0.6237 -1.603 0.109 inf_statusControl -0.9999

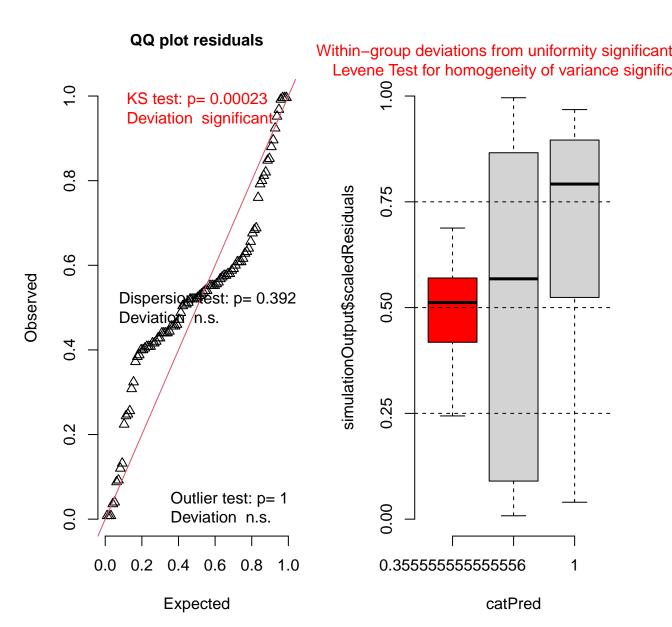
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1



Nb obs DENV-squirrel (infected only): 20

Nb obs ZIKV-squirrel (infected only): 13

Nb obs DENV-cyno (infected only): 63



```
Family: gaussian ( identity )
Formula: log10(value) ~ group + (1 | ID) + (1 | day)
Data: my_df

AIC BIC logLik deviance df.resid
-2.5 12.8 7.3 -14.5 90

Random effects:
```

Conditional model:
Groups Name Variance Std.Dev.

Groups Name Variance Std.Dev.

ID (Intercept) 2.607e-01 5.106e-01

day (Intercept) 7.176e-13 9.471e-07

day (Intercept) 7.176e-13 8.471e-07 Residual 2.307e-02 1.519e-01

Number of obs: 96, groups: ID, 19; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0231

(Intercept) 2.78781 0.23087 12.075 <2e-16 *** groupCyno.Dengue virus -0.10456 0.28747 -0.364 0.716 groupSquirrel.Zika virus 0.05389 0.32870 0.164 0.870

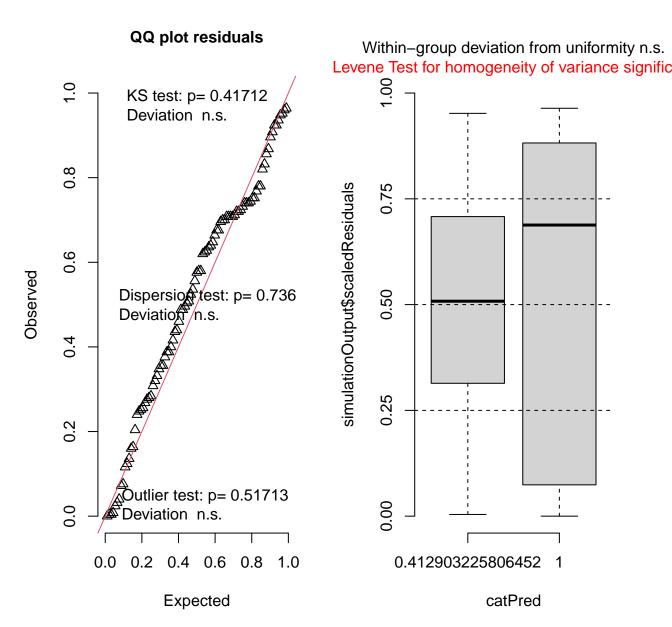
--- Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 1





Nb obs infection: 63

Nb obs control: 28



```
Random effects:

Conditional model:

Groups Name Variance Std.Dev.

ID (Intercept) 1.058e-02 0.102858
day (Intercept) 2.666e-05 0.005163
Residual 6.942e-03 0.083318

Number of obs: 91, groups: ID, 13; day, 7
```

84.93

1.29

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.196

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

-161.8

Dispersion estimate for gaussian family (sigma^2): 0.00694

Estimate Std. Error z value Pr(>|z|)

0.03591

0.06464

80.9

3.04976

Family: gaussian (identity)

BIC

-139.2

Formula:

Data: d_cyno

AIC -151.8

Conditional model:

inf_statusControl 0.08367

(Intercept)



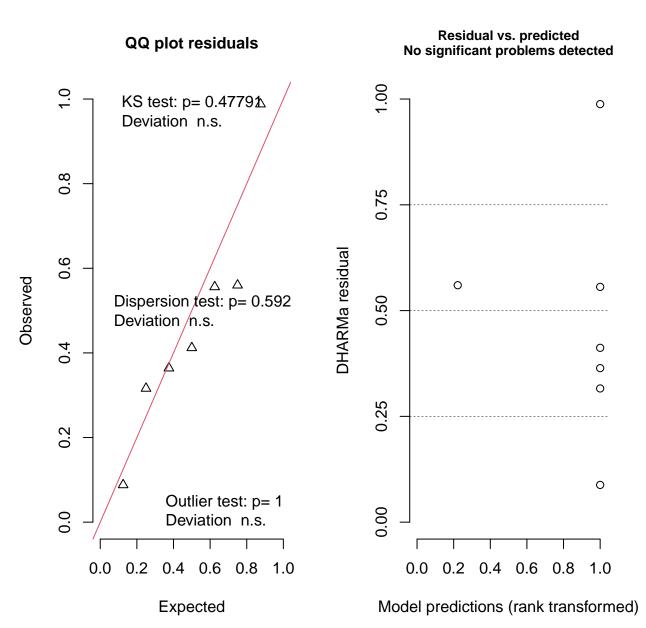
Nb excluded (LOD): 48
Nb obs infection: 0
Nb obs control: 1



MDC ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 42
Nb obs infection: 6
Nb obs control: 1



```
Data: z_sq

AIC BIC logLik deviance df.resid
4.9 4.7 2.5 -5.1 2

Random effects:
```

Conditional model:

Formula:

Family: gaussian (identity)

```
Groups Name Variance Std.Dev.

ID (Intercept) 1.561e-13 3.951e-07
day (Intercept) 3.238e-12 1.799e-06
Residual 2.844e-02 1.686e-01

Number of obs: 7, groups: ID, 4; day, 5
```

Dispersion estimate for gaussian family (sigma^2): 0.0284

```
Conditional model:

Estimate Std. Error z value Pr(>|z|)

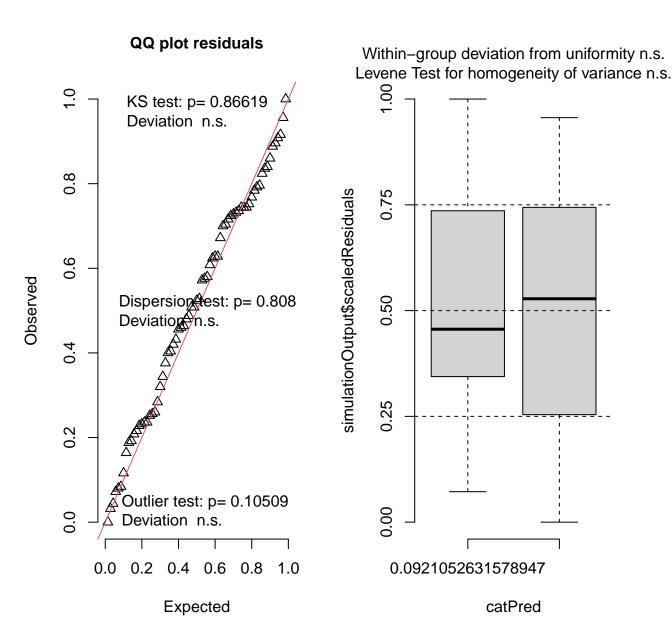
(Intercept) 2.75024 0.06885 39.95 <2e-16 ***
```



Nb obs DENV-squirrel (infected only): 0

Nb obs ZIKV-squirrel (infected only): 6

Nb obs DENV-cyno (infected only): 63



Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.05820 -5.85 5.01e-09 ***

log10(value) ~ group + (1 | ID) + (1 | day)

logLik deviance df.resid

61.1 -122.3

Variance Std.Dev.

(Intercept) 0.0028981 0.05383

Family: gaussian (identity)

BIC

groupSquirrel.Zika virus -0.34030

-101.1

Name

Formula:

Groups

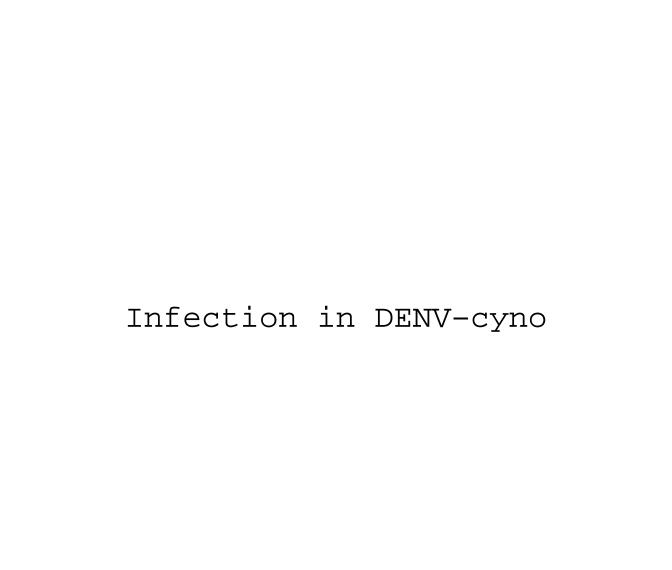
ID

Data: my_df

AIC -112.3

Random effects:
Conditional model:

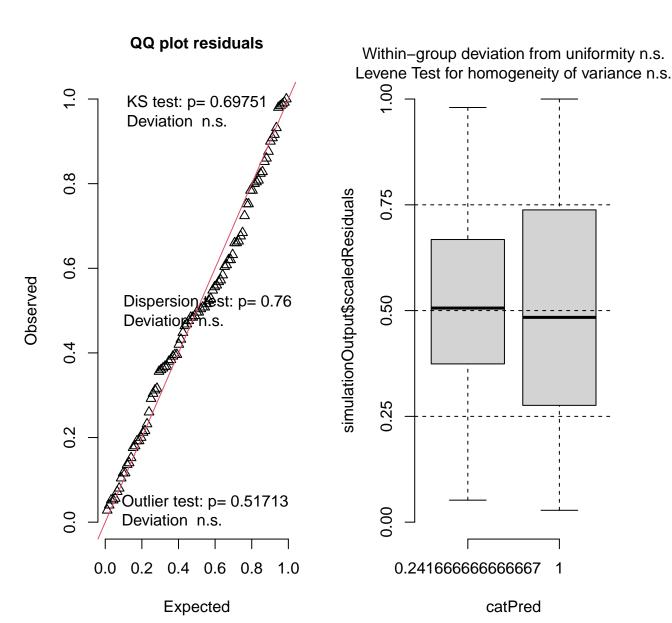




Nb obs infection: 63

Nb obs control: 28

Nb excluded (LOD): 0



```
24.5
            37.1
                   -7.3
                              14.5
Random effects:
Conditional model:
Groups
         Name
                    Variance Std.Dev.
         (Intercept) 0.03126 0.1768
ID
         (Intercept) 0.03599 0.1897
 day
```

Dispersion estimate for gaussian family (sigma^2): 0.0449 Conditional model: Estimate Std. Error z value Pr(>|z|)<2e-16 ***

0.04491 0.2119

Number of obs: 91, groups: ID, 13; day, 7

2.30898

logLik deviance df.resid

Family: gaussian (identity)

BIC

Formula:

Data: d_cyno

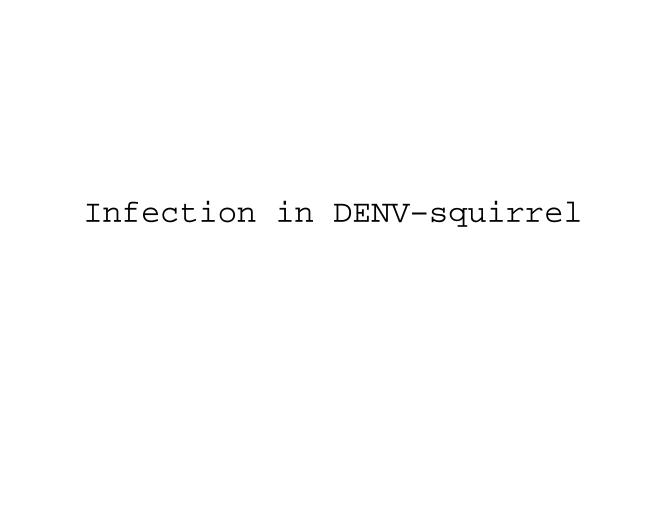
AIC

Residual

(Intercept)

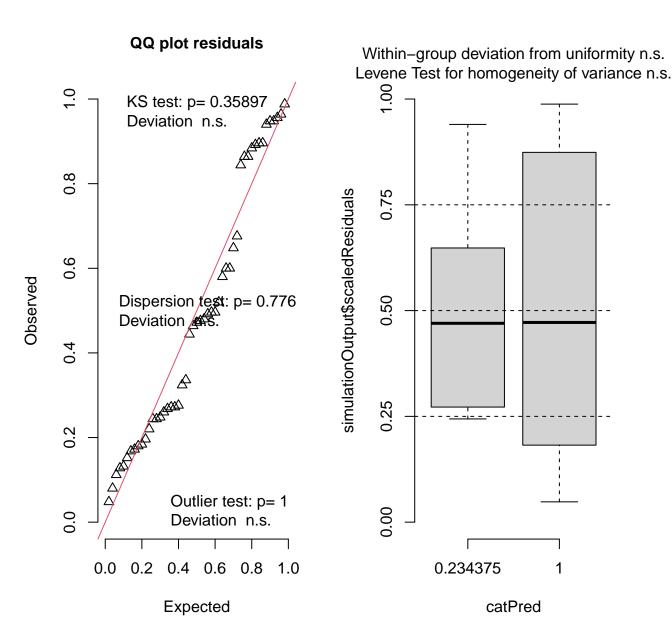
```
0.11664 -0.121
                                            0.903
inf_statusControl -0.01415
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 1
```

0.09658 23.908



Nb obs infection: 35

Nb obs control: 14



```
AIC BIC logLik deviance df.resid
40.9 50.4 -15.5 30.9 44

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
```

Groups Name Variance Std.Dev.

ID (Intercept) 0.03433 0.1853

Family: gaussian (identity)

Formula:

Data: d_sq

day (Intercept) 0.03433 0.1853 day (Intercept) 0.03675 0.1917 Residual 0.06769 0.2602 Number of obs: 49, groups: ID, 14; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0677

Conditional model:

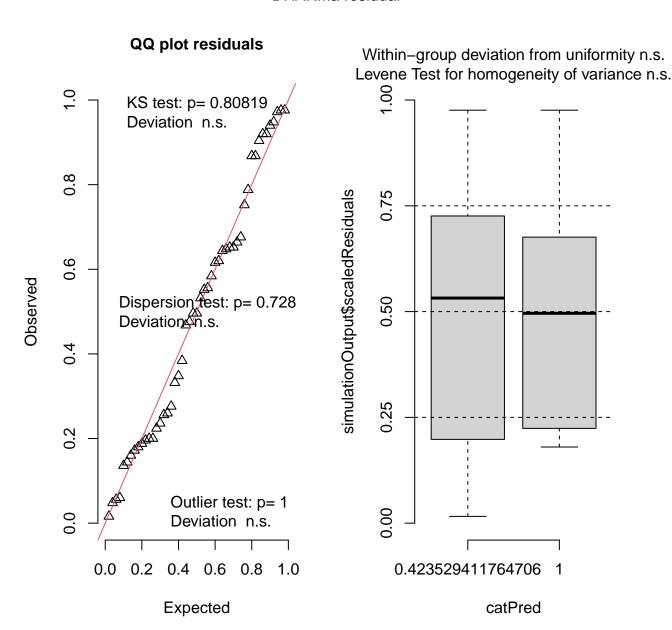
```
Estimate Std. Error z value Pr(>|z|)
(Intercept) 2.35201 0.10326 22.777 <2e-16 ***
inf_statusControl -0.01089 0.13739 -0.079 0.937
```

--Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 0.1 1



Nb obs infection: 35

Nb obs control: 14



```
AIC BIC logLik deviance df.resid
15.0 24.5 -2.5 5.0 44

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.01268 0.1126
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Number of obs: 49, groups: ID, 14; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0429

Conditional model: Estimate Std. Error z value Pr(>|z|) (Intercept) 2.32508 0.07818 29.740 <2e-16 ***

0.04288 0.2071

(Intercept) 0.02515 0.1586

Family: gaussian (identity)

Formula:

day Residual

Data: z_sq

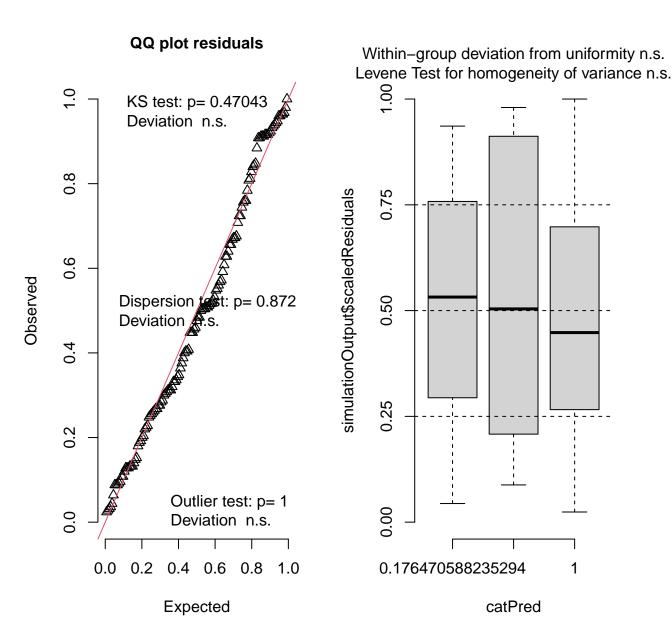
inf_statusControl 0.01463 0.09373 0.156 0.876
--Signif. codes: 0 ...***... 0.001 ...**... 0.05 0.1 1



Nb obs DENV-cyno (infected only): 63

Nb obs DENV-squirrel (infected only): 35

Nb obs ZIKV-squirrel (infected only): 35



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
             BIC logLik deviance df.resid
    AIC
                            79.6
   91.6
           108.9
                  -39.8
                                     127
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

ID (Intercept) 0.02776 0.1666 (Intercept) 0.02394 0.1547 day Residual 0.07868 0.2805

Number of obs: 133, groups: ID, 29; day, 8

Conditional model:

Dispersion estimate for gaussian family (sigma^2): 0.0787

Estimate Std. Error z value Pr(>|z|) (Intercept) 2.32518 0.09061 25.662 <2e-16 ***

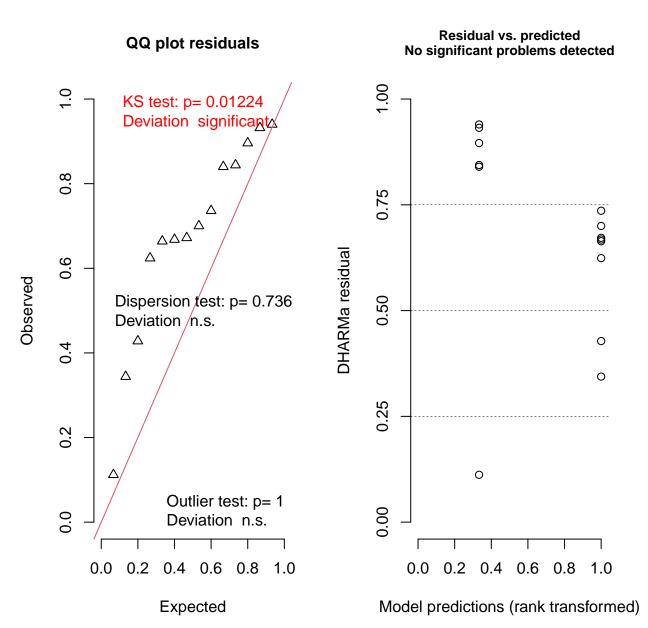
```
0.01777
                                   0.09964 0.178
                                                      0.858
groupCyno.Dengue virus
groupSquirrel.Zika virus -0.02386
                                   0.10050 -0.237
                                                      0.812
```





Nb obs infection: 6

Nb obs control: 8



```
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.068139 0.26104
ID
          (Intercept) 0.006636 0.08146
 day
Residual
                     0.001940 0.04405
Number of obs: 14, groups: ID, 4; day, 7
```

9.089

2.456

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.0141 *

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.00194

1.7241

0.6466

Estimate Std. Error z value Pr(>|z|)0.1897

0.2633

-18.6

9.3

Family: gaussian (identity)

BIC

-5.4

Formula:

Data: d_cyno AIC

-8.6

Random effects:

Conditional model:

inf_statusControl

(Intercept)



Nb excluded (LOD): 40
Nb obs infection: 9
Nb obs control: 0



MIG ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 46
Nb obs infection: 3
Nb obs control: 0



MIG ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



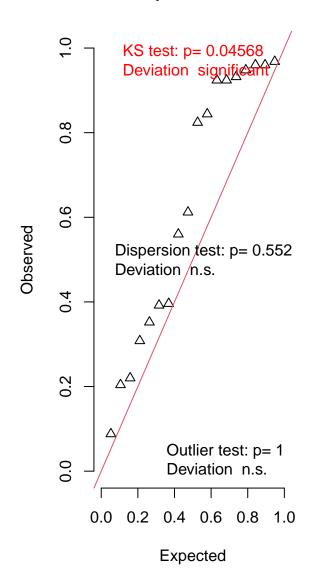
Nb obs DENV-squirrel (infected only): 9

Nb obs ZIKV-squirrel (infected only): 3

Nb obs DENV-cyno (infected only): 6

DHARMa residual

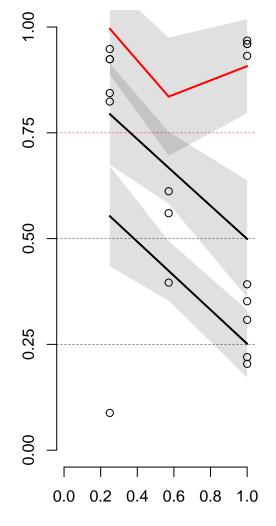




Residual vs. predicted

Quantile deviations detected (red curves)

Combined adjusted quantile test n.s.



Model predictions (rank transformed)

```
Family: gaussian ( identity )
Formula:
               log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
    AIC
                  logLik deviance df.resid
            BIC
           -1.3
                         -18.6
   -6.6
                  9.3
                                      12
Random effects:
```

Conditional model:

Groups Name Variance Std.Dev. (Intercept) 0.0812457 0.28504

ID (Intercept) 0.0009677 0.03111 day Residual 0.0043221 0.06574

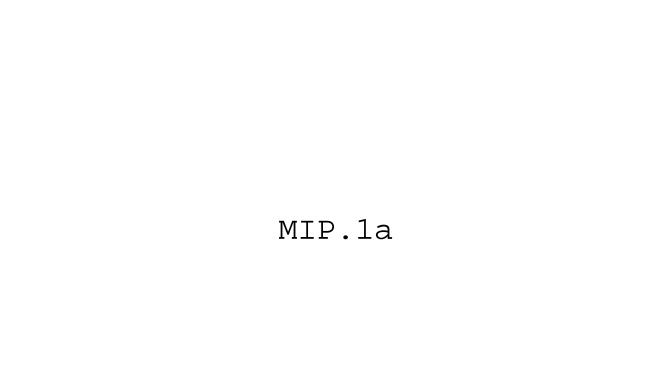
Number of obs: 18, groups: ID, 7; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.00432

Conditional model: Estimate Std. Error z value Pr(>|z|)

(Intercept) 2.1855 0.1454 15.035 <2e-16 *** -0.4207 0.2511 -1.675 0.0939 . groupCyno.Dengue virus

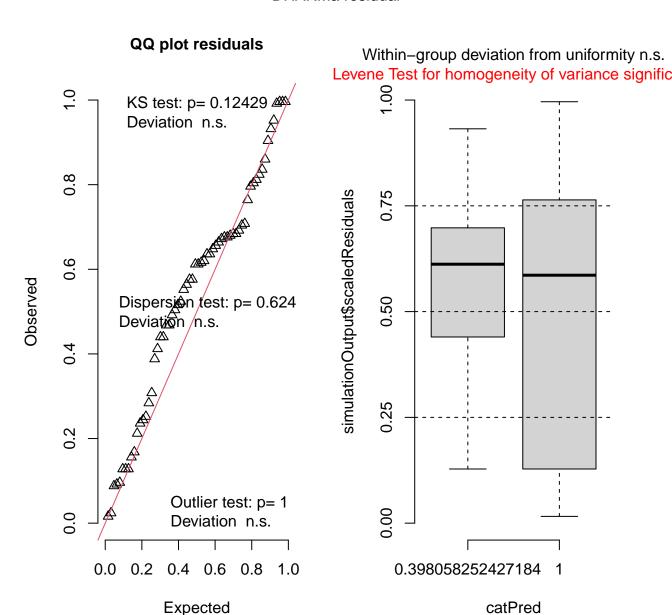
groupSquirrel.Zika virus -0.3082 0.3223 -0.956 0.3390 Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1





Nb excluded (LOD): 29 Nb obs infection: 40

Nb obs control: 22



```
ID (Intercept) 1.392e-02 1.180e-01
day (Intercept) 9.677e-12 3.111e-06
Residual 1.328e-02 1.152e-01
Number of obs: 62, groups: ID, 13; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0133

Conditional model:
```

37.42

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

1.57

<2e-16 ***

0.116

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

Variance Std.Dev.

Estimate Std. Error z value Pr(>|z|)

0.04537

0.08040

-70.6

35.3

1.69770

Family: gaussian (identity)

BIC

-50.0

Name

inf_statusControl 0.12620

Formula:

Groups

(Intercept)

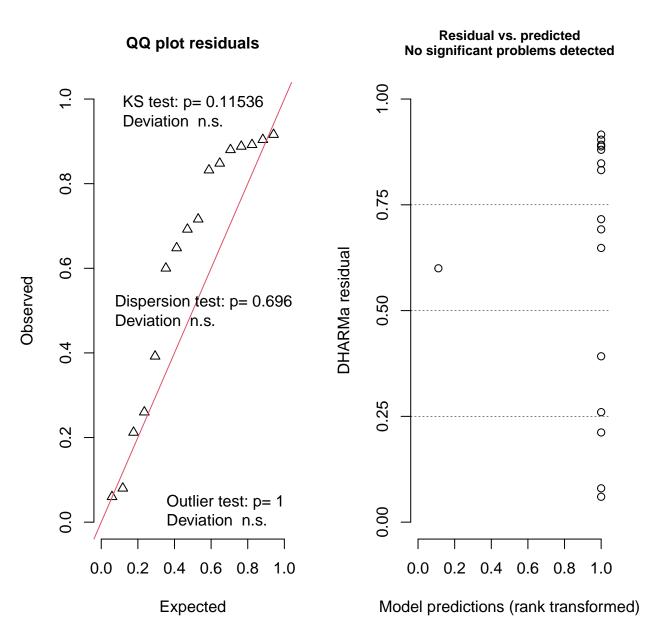
Data: d_cyno

AIC -60.6

Random effects:
Conditional model:



Nb excluded (LOD): 33 Nb obs infection: 15 Nb obs control: 1



```
Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.122330 0.34976
day (Intercept) 0.004869 0.06978
Residual 0.005965 0.07724
```

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.00597

Estimate Std. Error z value Pr(>|z|)

0.1615 12.720

0.3962 -1.558

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.119

-8.6

4.3

Number of obs: 16, groups: ID, 6; day, 7

2.0542

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

5.3

Formula:

Data: d_sq
AIC

1.4

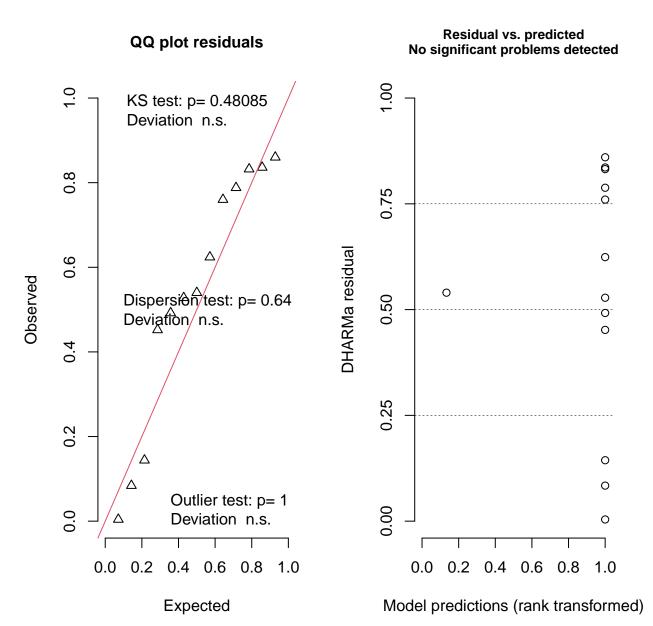
Conditional model:

inf_statusControl -0.6172

(Intercept)



Nb excluded (LOD): 36
Nb obs infection: 12
Nb obs control: 1



```
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 2.900e-13 5.385e-07
ID
 day
         (Intercept) 8.676e-12 2.945e-06
Residual
                     2.428e-02 1.558e-01
Number of obs: 13, groups: ID, 5; day, 7
```

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

46.06 < 2e-16 ***

-3.79 0.00015 ***

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0243

2.07208

Estimate Std. Error z value Pr(>|z|)0.04498

0.16219

-11.4

5.7

Family: gaussian (identity)

BIC

1.4

Formula:

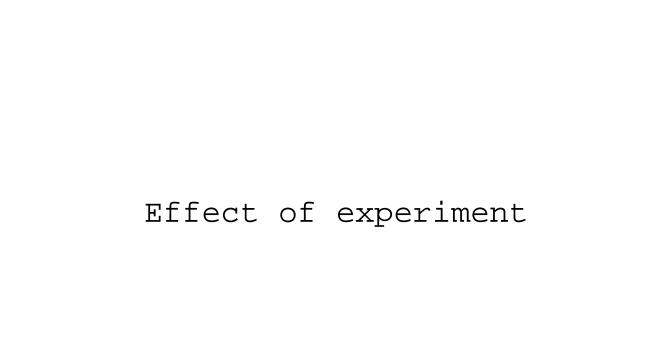
Data: z_sq AIC

-1.4

Conditional model:

inf_statusControl -0.61481

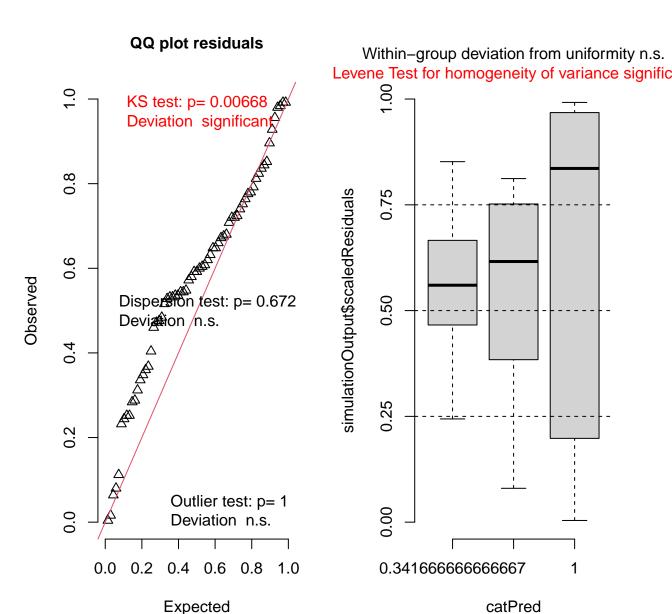
(Intercept)



Nb obs DENV-cyno (infected only): 40

Nb obs DENV-squirrel (infected only): 15

Nb obs ZIKV-squirrel (infected only): 12



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
             BIC logLik deviance df.resid
    AIC
   -55.9
           -42.7
                   34.0
                          -67.9
Random effects:
```

Conditional model: Groups Name

Variance Std.Dev. TD (Intercept) 3.998e-02 1.999e-01 (Intercept) 2.634e-12 1.623e-06 day Residual 1.077e-02 1.038e-01

Number of obs: 67, groups: ID, 18; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0108

Conditional model: Estimate Std. Error z value Pr(>|z|) 0.09449 22.033 < 2e-16 *** (Intercept) 2.08183

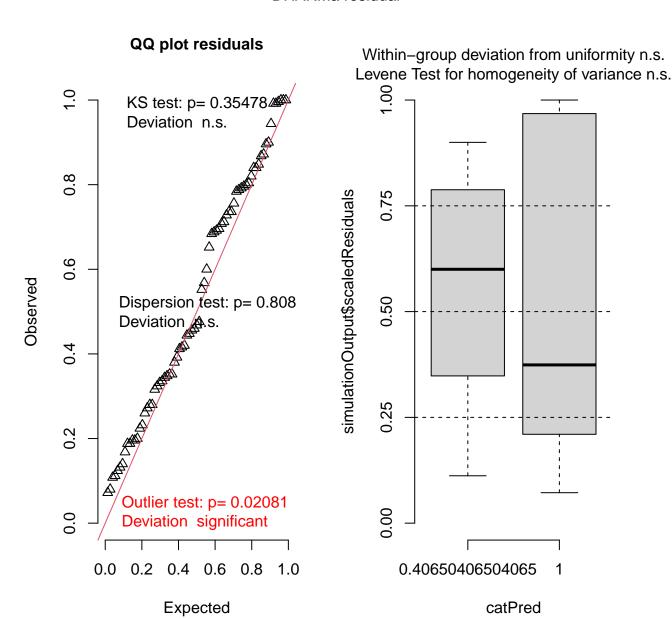
groupCyno.Dengue virus -0.39141 0.11747 -3.332 0.000863 *** groupSquirrel.Zika virus -0.03852 0.14168 -0.272 0.785718

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 0.1 ... 1

MIP.1B



Nb excluded (LOD): 18
Nb obs infection: 49
Nb obs control: 24



```
AIC BIC logLik deviance df.resid
-62.7 -51.2 36.3 -72.7 68

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.0584237 0.2417
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Dispersion estimate for gaussian family (sigma^2): 0.0121

Conditional model:

0.0121085 0.1100

(Intercept) 0.0002044 0.0143

Number of obs: 73, groups: ID, 13; day, 7

Family: gaussian (identity)

Formula:

day Residual

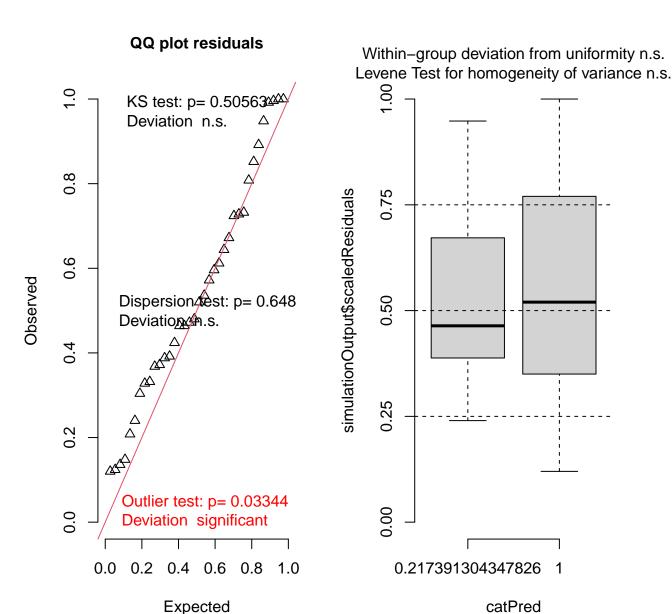
Data: d_cyno

```
Estimate Std. Error z value Pr(>|z|)
(Intercept) 1.85033 0.08354 22.148 <2e-16 ***
inf_statusControl 0.10770 0.14874 0.724 0.469
```

---Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 0.1 1



Nb excluded (LOD): 13
Nb obs infection: 27
Nb obs control: 9



```
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.25285 0.5028
ID
         (Intercept) 0.02639 0.1625
 day
Residual
                     0.04093 0.2023
```

12.35

-0.82

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.412

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0409

32.4

Estimate Std. Error z value Pr(>|z|)0.1783

0.3093

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

50.3

-16.2

Number of obs: 36, groups: ID, 14; day, 7

2.2027

Formula:

Data: d_sq AIC

42.4

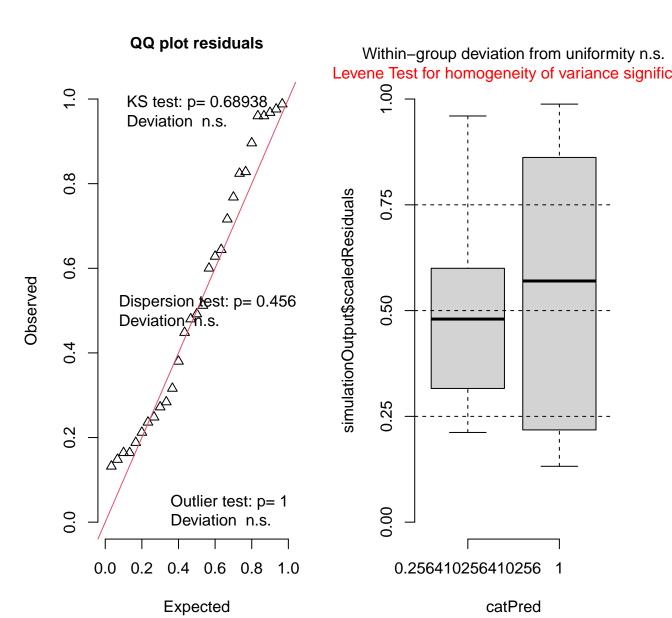
Conditional model:

inf_statusControl -0.2538

(Intercept)



Nb excluded (LOD): 20 Nb obs infection: 20 Nb obs control: 9



```
AIC BIC logLik deviance df.resid
36.8 43.7 -13.4 26.8 24

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.20967 0.4579
```

Estimate Std. Error z value Pr(>|z|)

0.1876 11.348

0.3042 - 0.409

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.683

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

(Intercept) 0.01188 0.1090

2.1285

Number of obs: 29, groups: ID, 11; day, 7

0.05449 0.2334

Dispersion estimate for gaussian family (sigma^2): 0.0545

Formula:

day Residual

Conditional model:

inf_statusControl -0.1244

(Intercept)

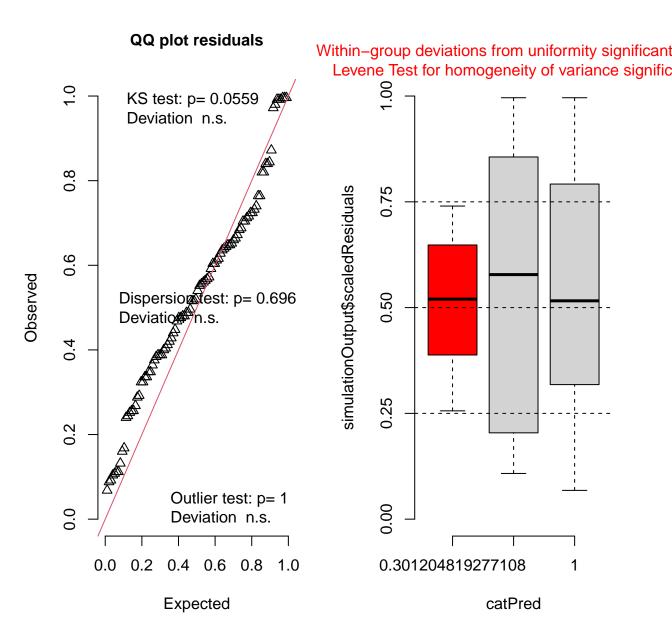
Data: z_sq



Nb obs DENV-squirrel (infected only): 27

Nb obs ZIKV-squirrel (infected only): 20

Nb obs DENV-cyno (infected only): 49



```
AIC BIC logLik deviance df.resid
-7.4 8.0 9.7 -19.4 90

Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.228878 0.47841
day (Intercept) 0.003964 0.06296
```

log10(value) ~ group + (1 | ID) + (1 | day)

Number of obs: 96, groups: ID, 26; day, 8

```
Dispersion estimate for gaussian family (sigma^2): 0.0156
```

0.015605 0.12492

Family: gaussian (identity)

Formula:

Data: my df

Residual

Conditional model:

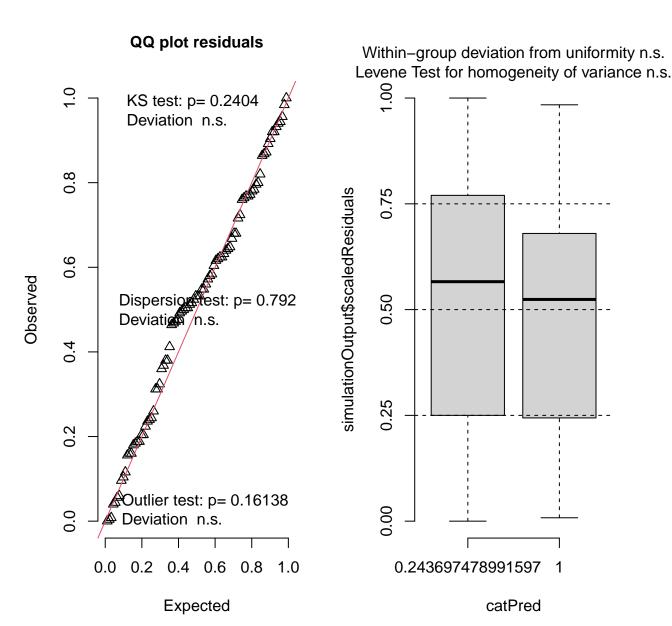
```
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ...... 1
```





Nb obs infection: 62

Nb obs control: 28



```
-53.7
           -41.2
                     31.8
                             -63.7
Random effects:
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.0085609 0.09253
 ID
          (Intercept) 0.0004121 0.02030
 day
```

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Dispersion estimate for gaussian family (sigma^2): 0.0238 Conditional model: Estimate Std. Error z value Pr(>|z|)

0.03734

0.0237558 0.15413

logLik deviance df.resid

Family: gaussian (identity)

BIC

Number of obs: 90, groups: ID, 13; day, 7

3.55685

Formula:

Data: d_cyno

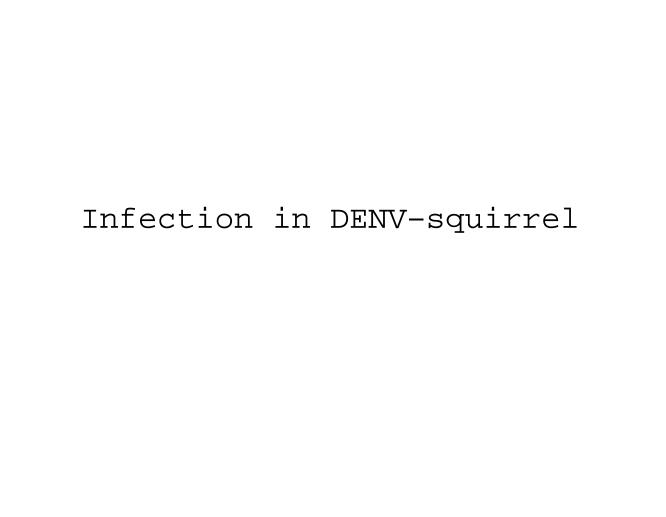
AIC

Residual

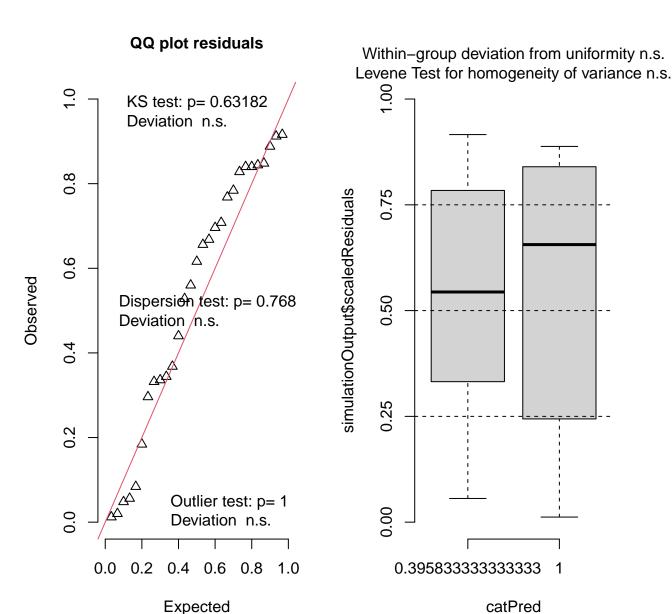
(Intercept)

```
95.27
                                   -0.91
                                            0.364
inf_statusControl -0.05973
                           0.06576
Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 ....... 1
```

<2e-16 ***



Nb excluded (LOD): 20 Nb obs infection: 18 Nb obs control: 11



```
Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 4.466e-03 6.683e-02
day (Intercept) 3.398e-12 1.843e-06
Residual 1.127e-02 1.062e-01
```

35.09

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

0.89

<2e-16 ***

0.376

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.0113

Estimate Std. Error z value Pr(>|z|)

0.03849

0.06074

-40.4

20.2

Number of obs: 29, groups: ID, 10; day, 7

1.35050

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

-23.5

Formula:

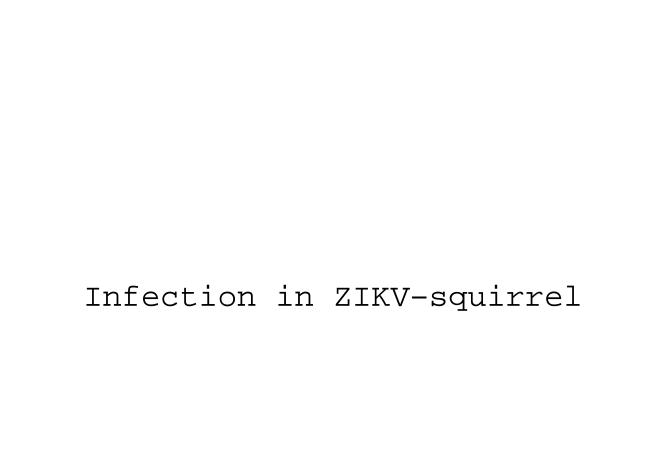
Data: d_sq

AIC -30.4

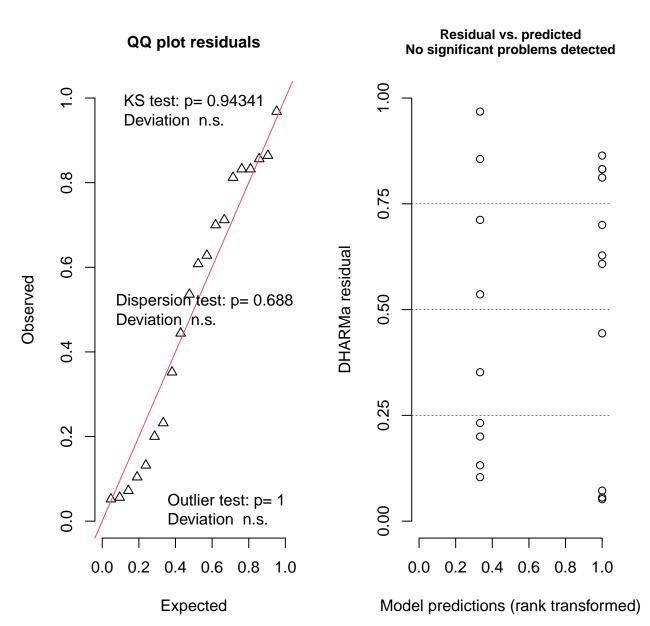
Conditional model:

inf_statusControl 0.05381

(Intercept)



Nb excluded (LOD): 29
Nb obs infection: 9
Nb obs control: 11



```
Random effects:

Conditional model:
Groups Name Variance Std.Dev.
ID (Intercept) 0.002350 0.04847
day (Intercept) 0.004808 0.06934
Residual 0.014015 0.11838
```

0.05954 19.140 < 2e-16 ***

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

3.921 8.82e-05 ***

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.014

-21.7

Estimate Std. Error z value Pr(>|z|)

0.06912

log10(value) ~ inf_status + (1 | ID) + (1 | day)

Family: gaussian (identity)

BIC

-6.8

10.9

Number of obs: 20, groups: ID, 7; day, 7

1.13966

Formula:

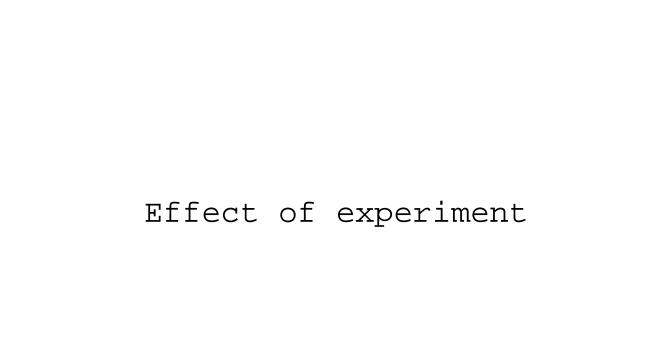
Data: z_sq
AIC

-11.7

Conditional model:

inf_statusControl 0.27104

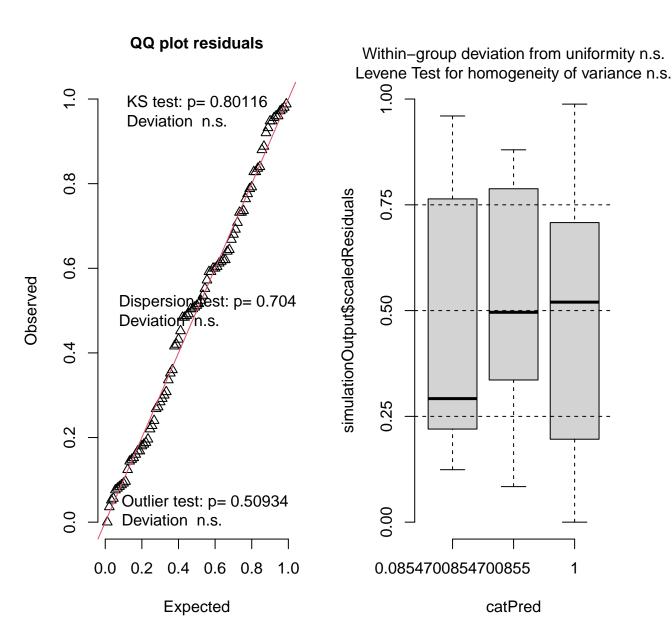
(Intercept)



Nb obs DENV-squirrel (infected only): 18

Nb obs ZIKV-squirrel (infected only): 9

Nb obs DENV-cyno (infected only): 62



```
Family: gaussian ( identity )
Formula:
                log10(value) ~ group + (1 | ID) + (1 | day)
Data: my df
    AIC
             BIC logLik deviance df.resid
   -79.7
           -64.8
                  45.9
                          -91.7
Random effects:
```

Conditional model: Groups Name Variance Std.Dev.

TD (Intercept) 0.004532 0.06732 (Intercept) 0.000104 0.01020 day

Residual 0.017729 0.13315 Number of obs: 89, groups: ID, 18; day, 7

Dispersion estimate for gaussian family (sigma^2): 0.0177

Conditional model: Estimate Std. Error z value Pr(>|z|)

(Intercept) 1.35240 0.04300 31.45 < 2e-16 *** 2.20438 0.05122 43.03 < 2e-16 *** groupCyno.Dengue virus groupSquirrel.Zika virus -0.22283 0.07343 -3.03 0.00241 **

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 0.1 ... 1

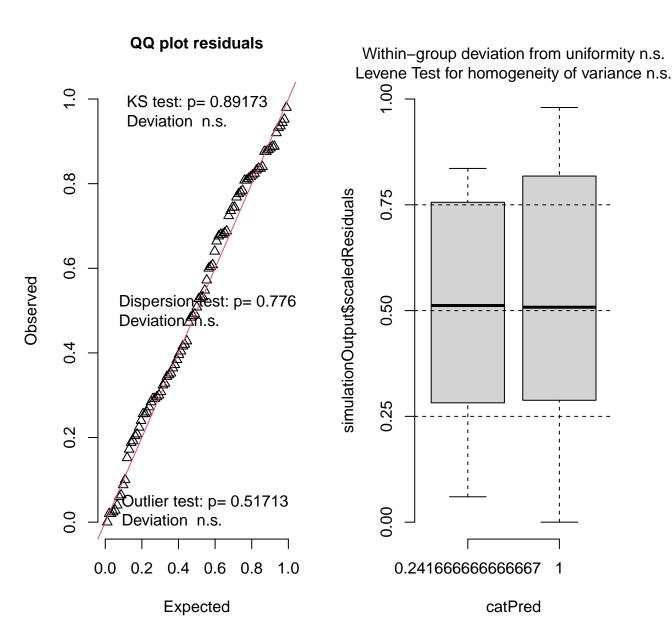




Nb excluded (LOD): 0

Nb obs infection: 63

Nb obs control: 28



```
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 0.0223555 0.14952
ID
         (Intercept) 0.0005247 0.02291
 day
Residual
                     0.0102115 0.10105
Number of obs: 91, groups: ID, 13; day, 7
```

36.98

-0.58

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.564

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

59.8 -119.5

Dispersion estimate for gaussian family (sigma^2): 0.0102

1.92891

Estimate Std. Error z value Pr(>|z|)0.05216

0.09273

Family: gaussian (identity)

BIC

-97.0

Formula:

Data: d_cyno

AIC -109.5

Random effects:

Conditional model:

inf_statusControl -0.05351

(Intercept)



Nb excluded (LOD): 29
Nb obs infection: 20
Nb obs control: 0





Nb excluded (LOD): 31 Nb obs infection: 18 Nb obs control: 0



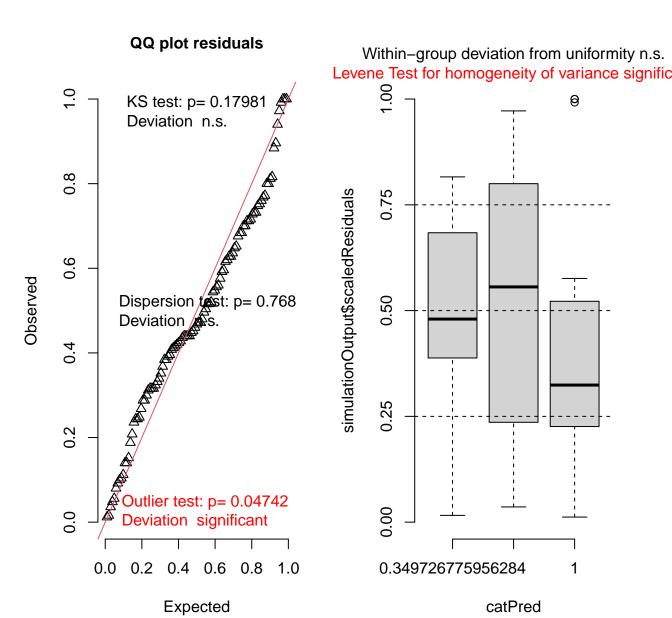


Nb excluded (LOD): 32

Nb obs DENV-squirrel (infected only): 20

Nb obs ZIKV-squirrel (infected only): 18

Nb obs DENV-cyno (infected only): 63



```
Family: gaussian ( identity )
Formula: log10(value) ~ group + (1 | ID) + (1 | day)
Data: my_df

AIC BIC logLik deviance df.resid
-76.4 -60.7 44.2 -88.4 95

Random effects:
```

Conditional model:
Groups Name Variance Std.Dev.

ID (Intercept) 1.066e-01 3.264e-01 day (Intercept) 2.460e-12 1.568e-06

day (Intercept) 2.460e-12 1.568e-06
Residual 1.184e-02 1.088e-01
Number of obs: 101, groups: ID, 19; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.0118

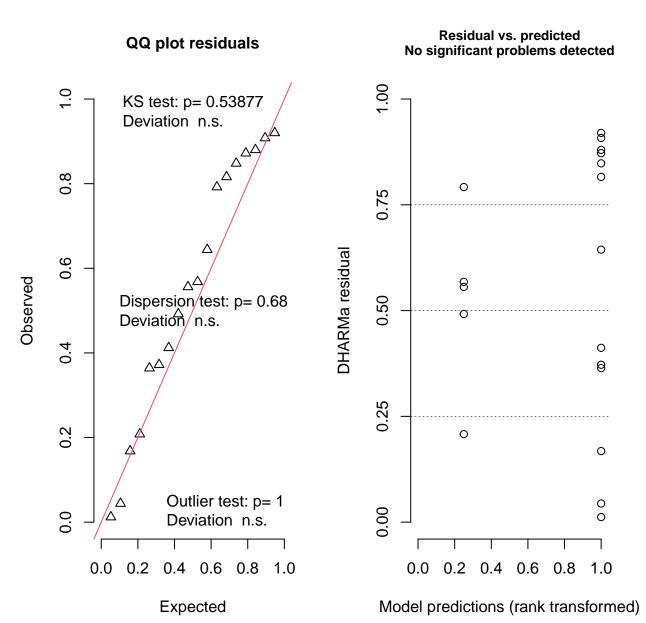
```
Conditional model:
```

| Estimate Std. Error z value Pr(>|z|) | (Intercept) | 2.2233 | 0.1480 | 15.022 | <2e-16 *** | groupCyno.Dengue virus | -0.2943 | 0.1842 | -1.598 | 0.11





Nb excluded (LOD): 73
Nb obs infection: 13
Nb obs control: 5



```
Conditional model:
Groups
         Name
                     Variance Std.Dev.
          (Intercept) 1.295e-04 1.138e-02
ID
         (Intercept) 3.293e-13 5.738e-07
 day
Residual
                     6.521e-04 2.554e-02
Number of obs: 18, groups: ID, 5; day, 6
```

-2.23

Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1

<2e-16 ***

0.0259 *

log10(value) ~ inf_status + (1 | ID) + (1 | day)

logLik deviance df.resid

Dispersion estimate for gaussian family (sigma^2): 0.000652

Estimate Std. Error z value Pr(>|z|)0.01042 119.86

0.01763

-78.4

39.2

1.24910

Family: gaussian (identity)

BIC

-63.9

Formula:

Data: d_cyno

AIC -68.4

Random effects:

Conditional model:

inf_statusControl -0.03925

(Intercept)



Nb excluded (LOD): 47
Nb obs infection: 2
Nb obs control: 0





Nb excluded (LOD): 45
Nb obs infection: 4
Nb obs control: 0





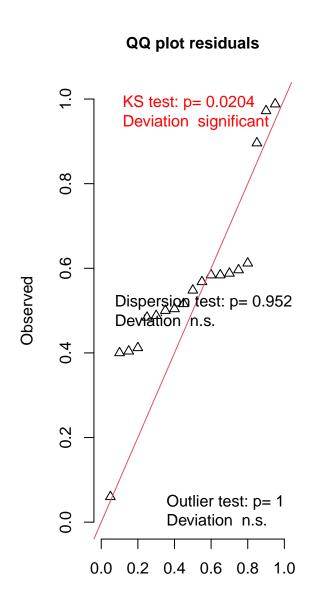
Nb excluded (LOD): 114

Nb obs DENV-squirrel (infected only): 2

Nb obs DENV-squirrer (infected only): 2
Nb obs DENV-cyno (infected only): 13

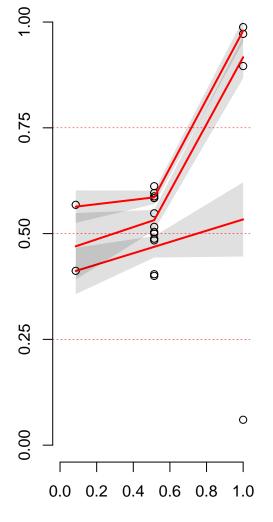
Nb obs ZIKV-squirrel (infected only): 4

DHARMa residual



Expected

Residual vs. predicted
Quantile deviations detected (red curves)
Combined adjusted quantile test significant



Model predictions (rank transformed)

```
Family: gaussian ( identity )
Formula: log10(value) ~ group + (1 | ID) + (1 | day)
Data: my_df

AIC BIC logLik deviance df.resid
-31.8 -26.1 21.9 -43.8 13

Random effects:

Conditional model:
```

Conditional model:

Groups Name Variance Std.Dev.

ID (Intercept) 2.518e-02 1.587e-01 day (Intercept) 5.941e-12 2.437e-06 Residual 1.863e-03 4.317e-02 Number of obs: 19, groups: ID, 6; day, 8

Dispersion estimate for gaussian family (sigma^2): 0.00186

```
Conditional model:
```

--- Signif. codes: 0 ...***... 0.001 ...**... 0.01 ...*... 0.05 1





Nb excluded (LOD): 90
Nb obs infection: 1
Nb obs control: 0



VEGF ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0



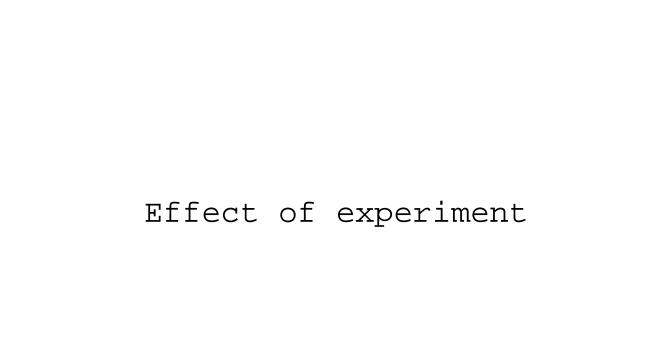
VEGF ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 49
Nb obs infection: 0
Nb obs control: 0



VEGF ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux



Nb excluded (LOD): 132

Nb obs DENV-squirrel (infected only): 0

Nb obs ZIKV-squirrel (infected only): 0

Nb obs DENV-cyno (infected only): 1



VEGF ERROR : les contrastes ne peuvent être appliqués qu'aux facteurs ayant au moins deux niveaux