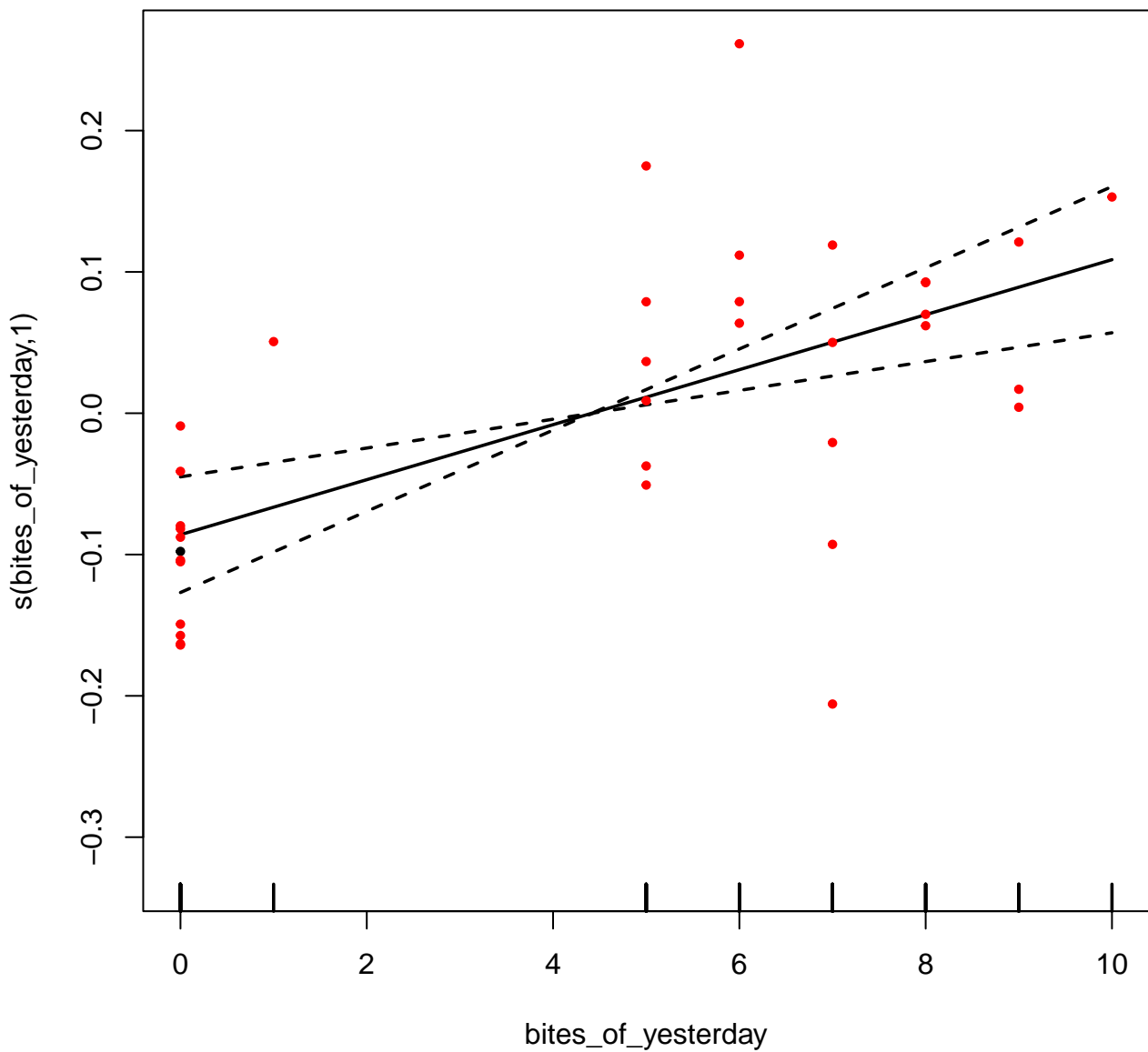
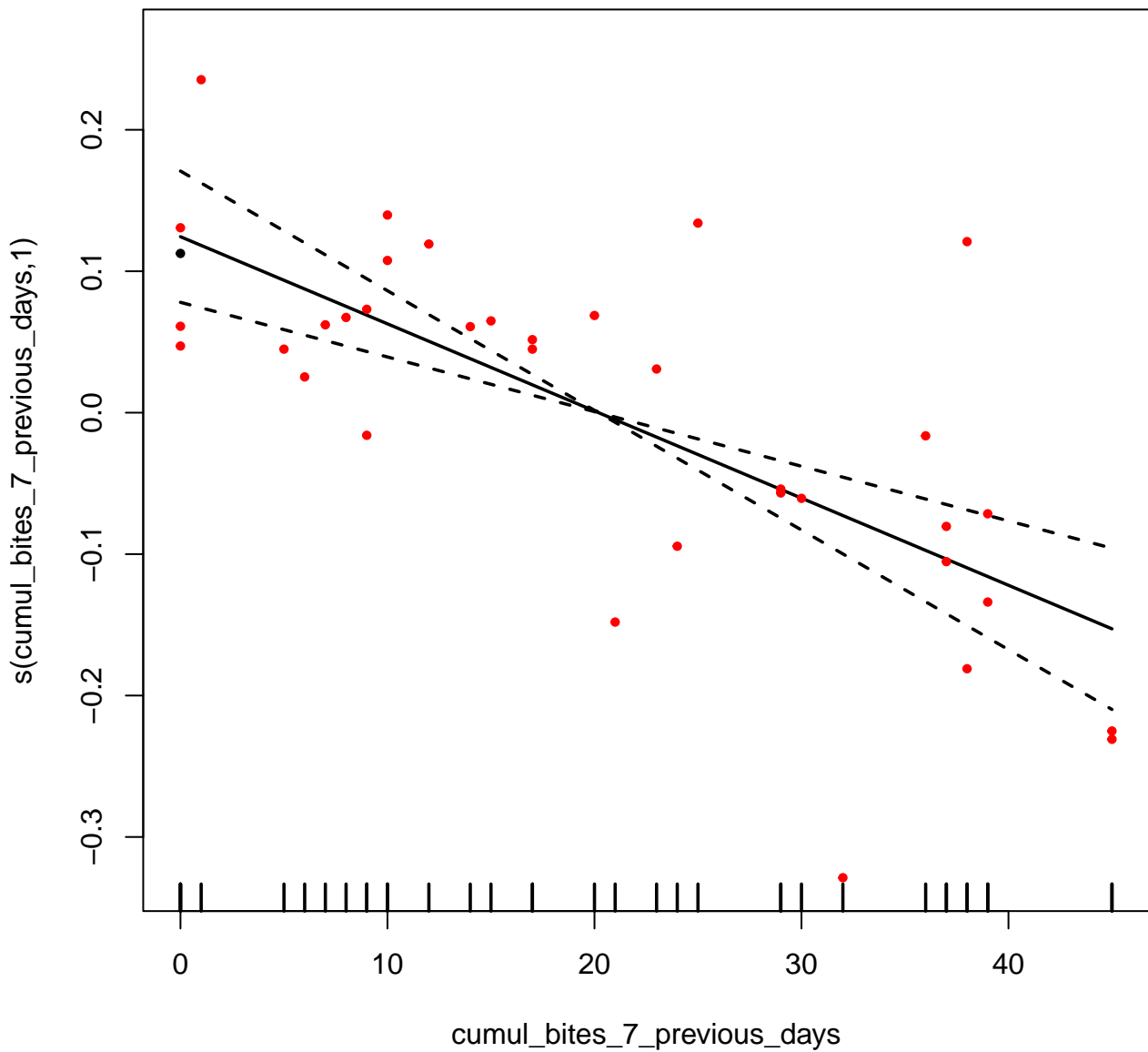


EGF

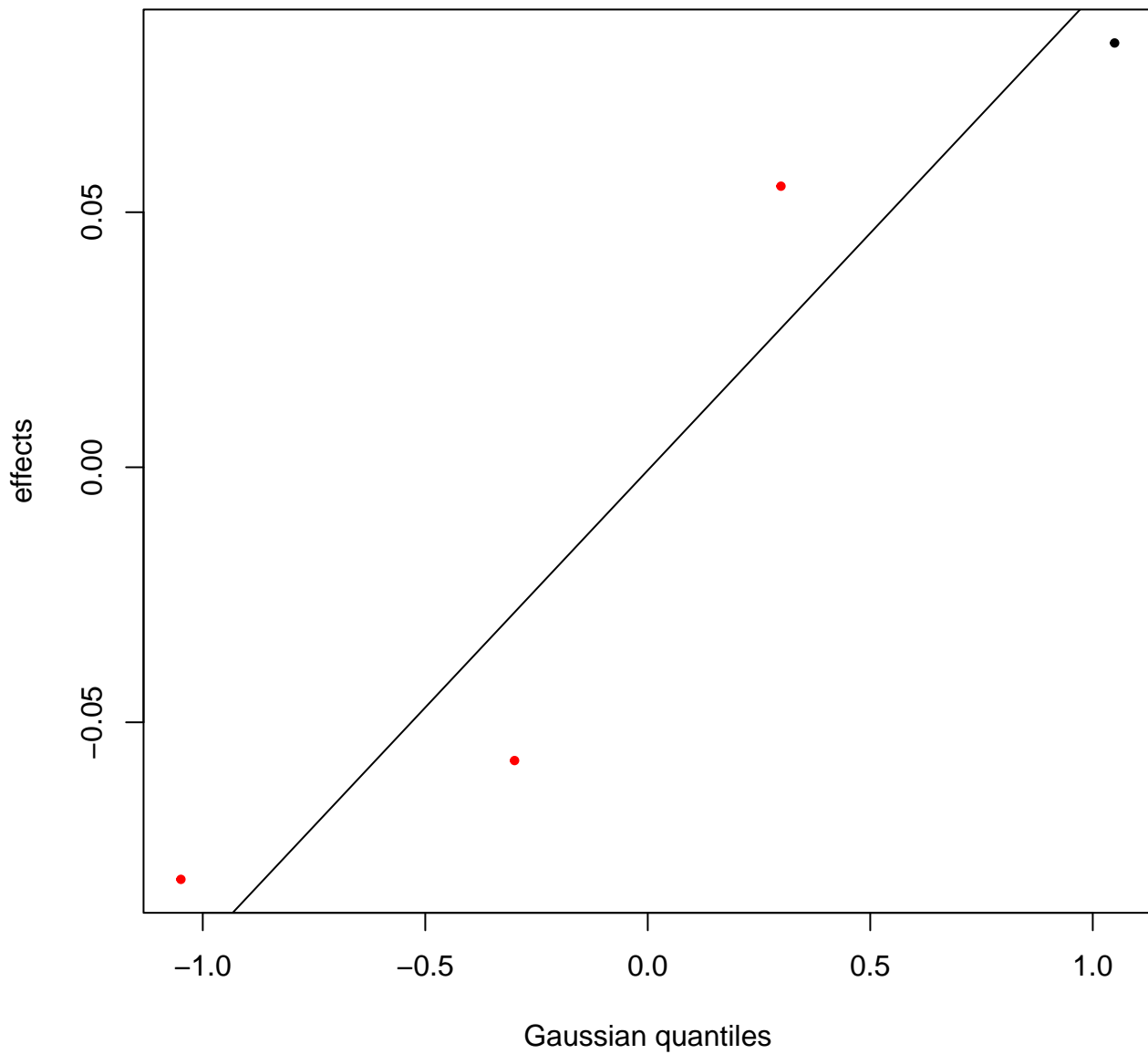
Bites in cyno

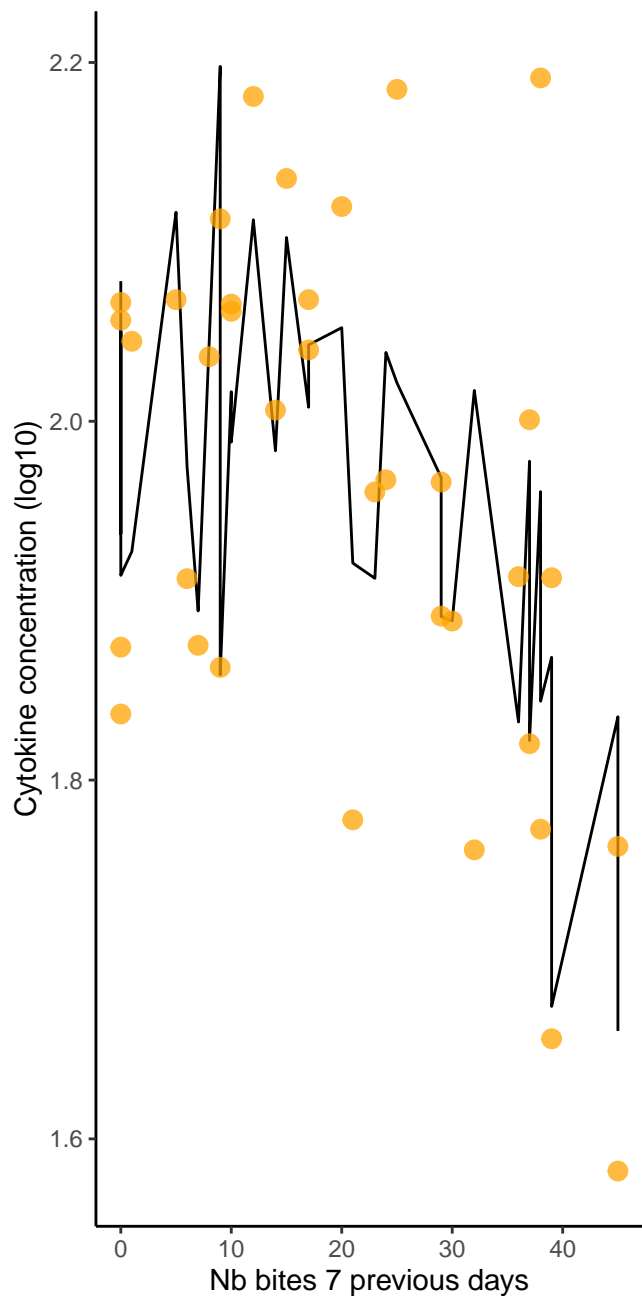
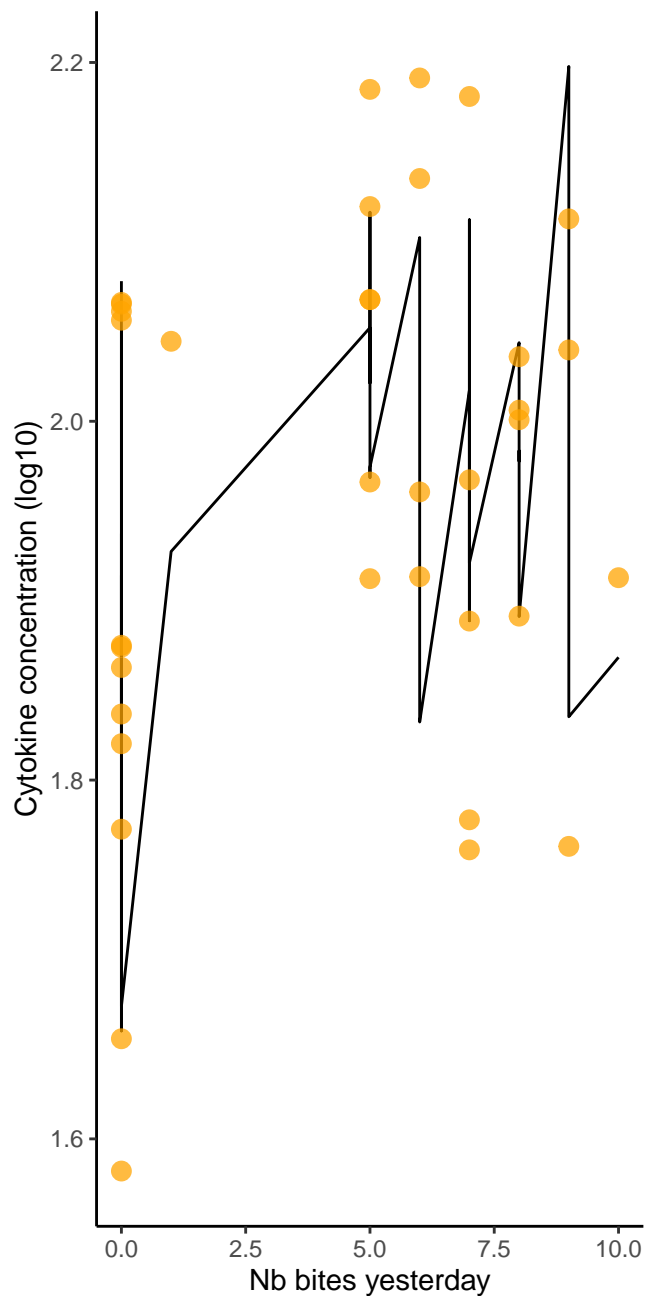
Nb obs : 36

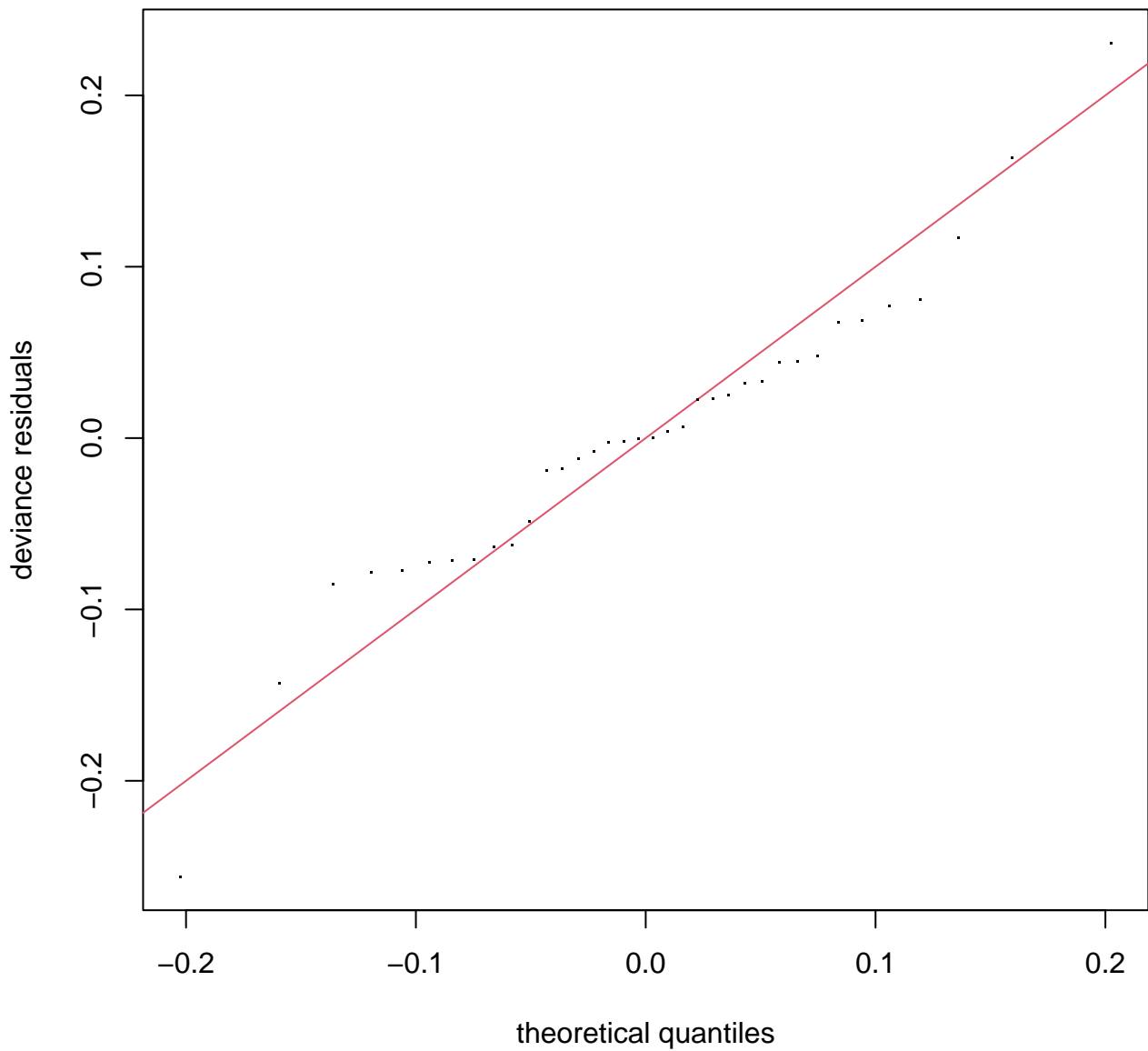




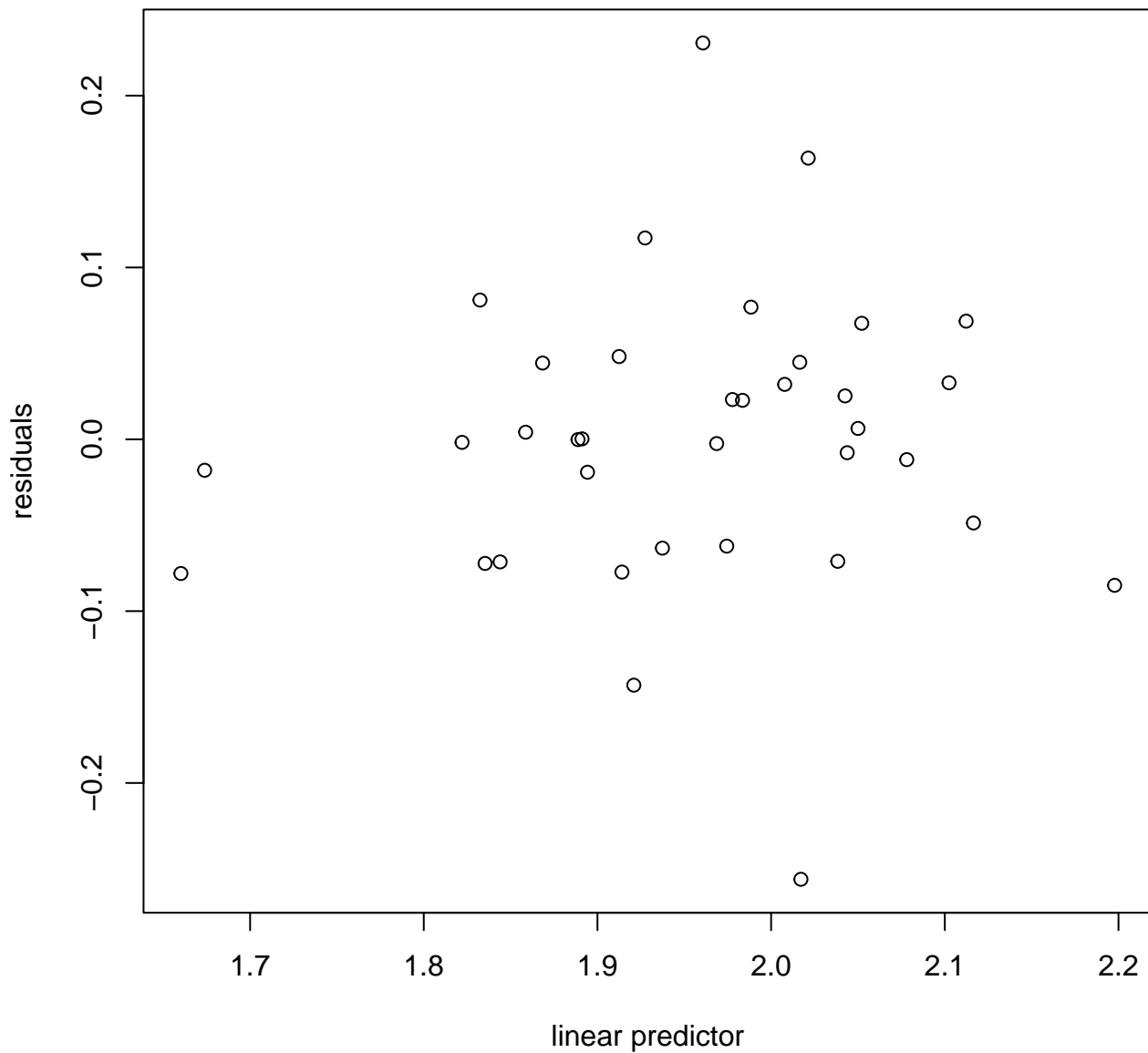
s(ID,2.6)



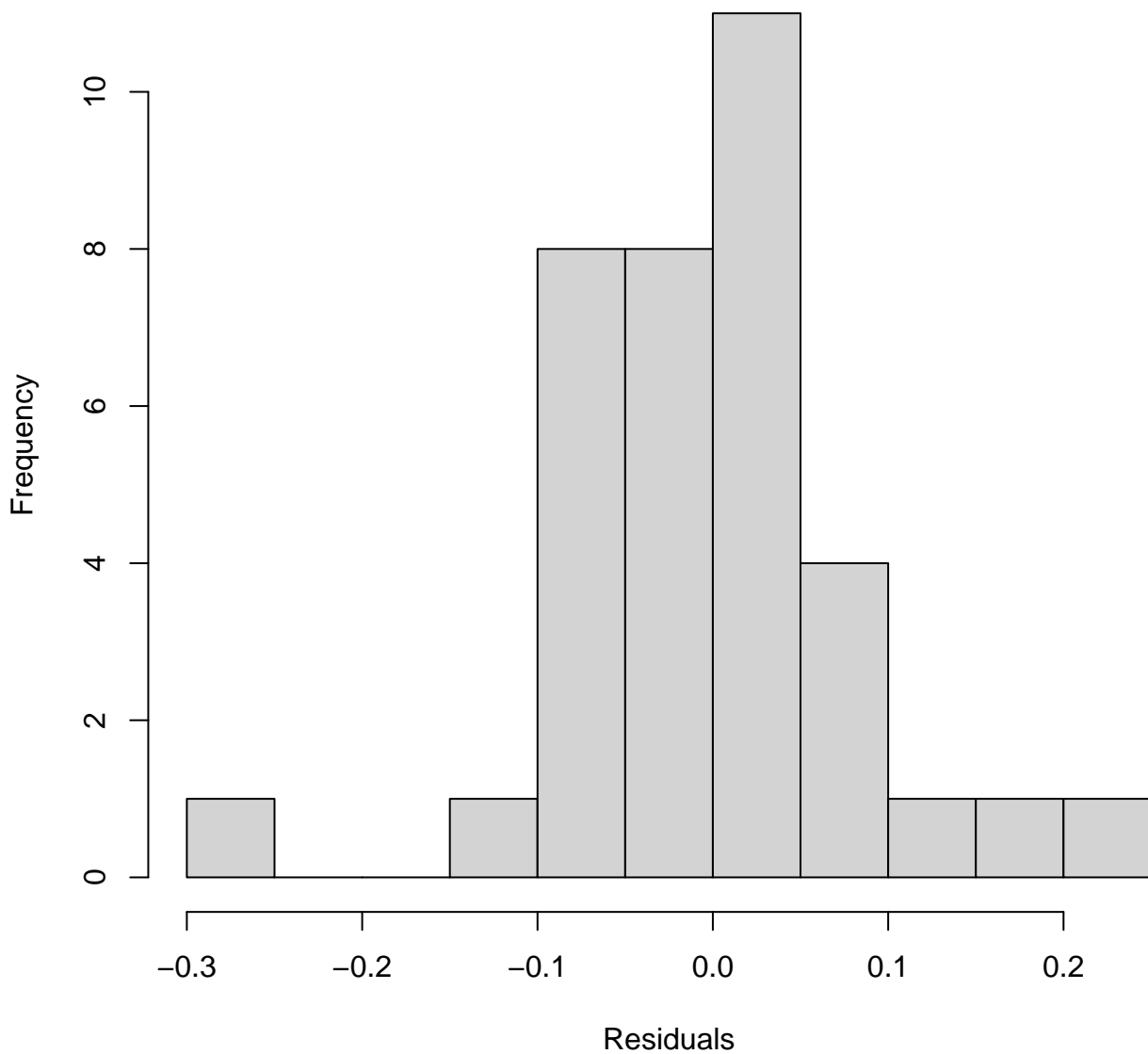




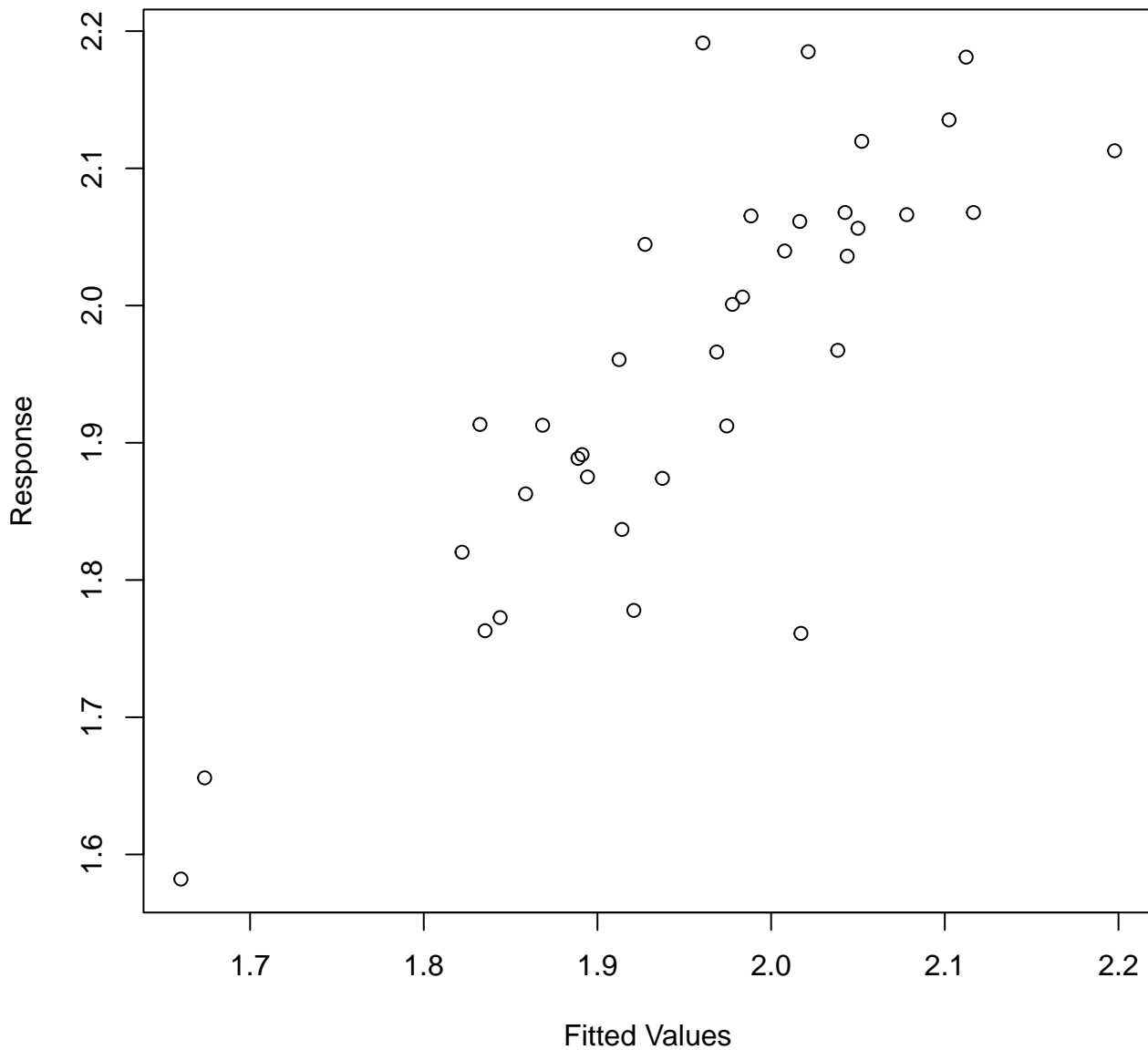
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 12 iterations.
 Gradient range [-1.512783e-05,4.621316e-06]
 (score -31.99646 & scale 0.008467418).
 Hessian positive definite, eigenvalue range [4.134531e-06,18.18007].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.0	1.0	0.99	0.41
s(cumul_bites_7_previous_days)	3.0	1.0	1.26	0.93
s(ID)	4.0	2.6	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.95643	0.04198	46.6	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	17.650	0.000219 ***
s(cumul_bites_7_previous_days)	1.000	1	28.761	8.6e-06 ***
s(ID)	2.596	3	8.062	0.000166 ***

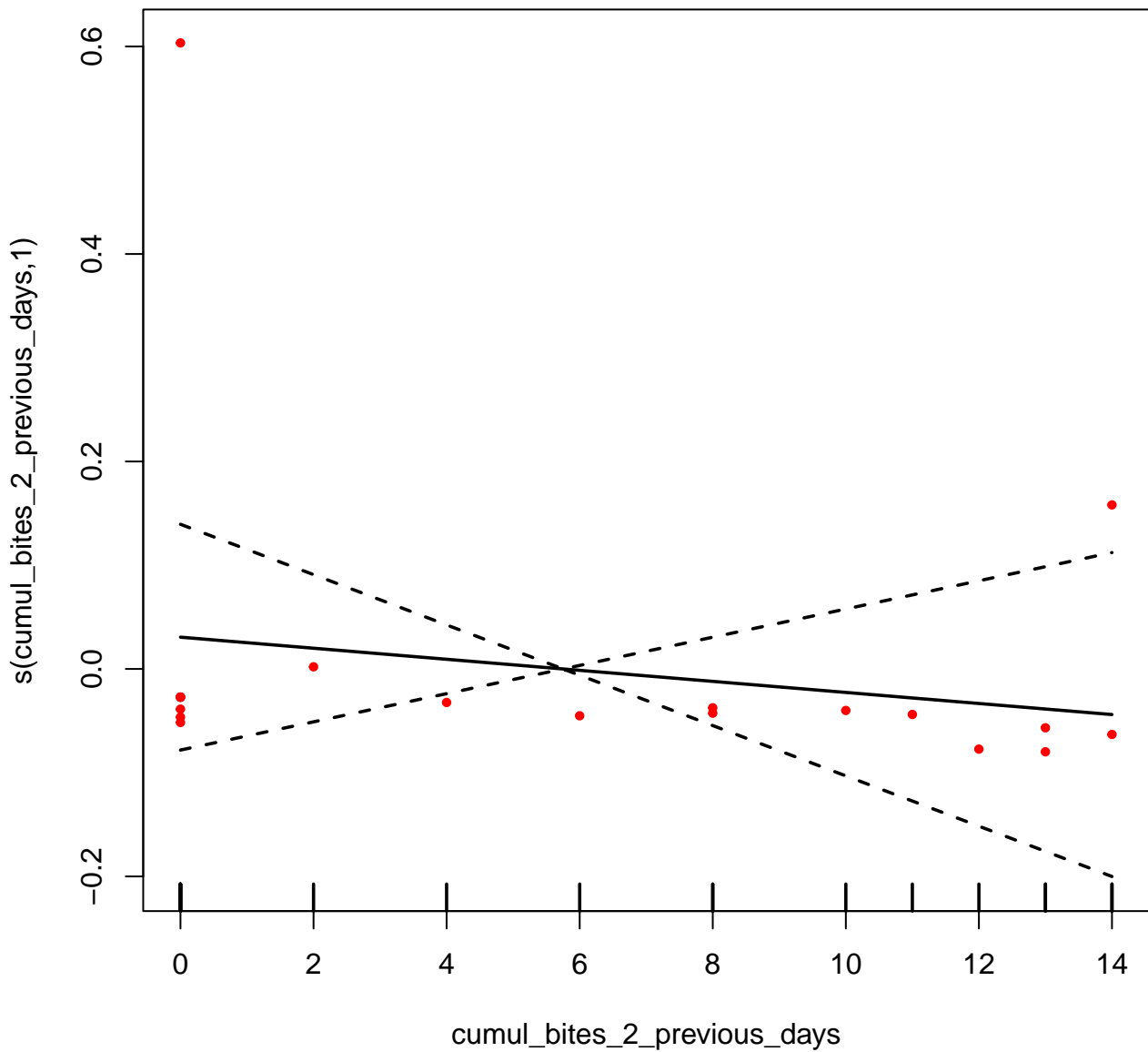
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

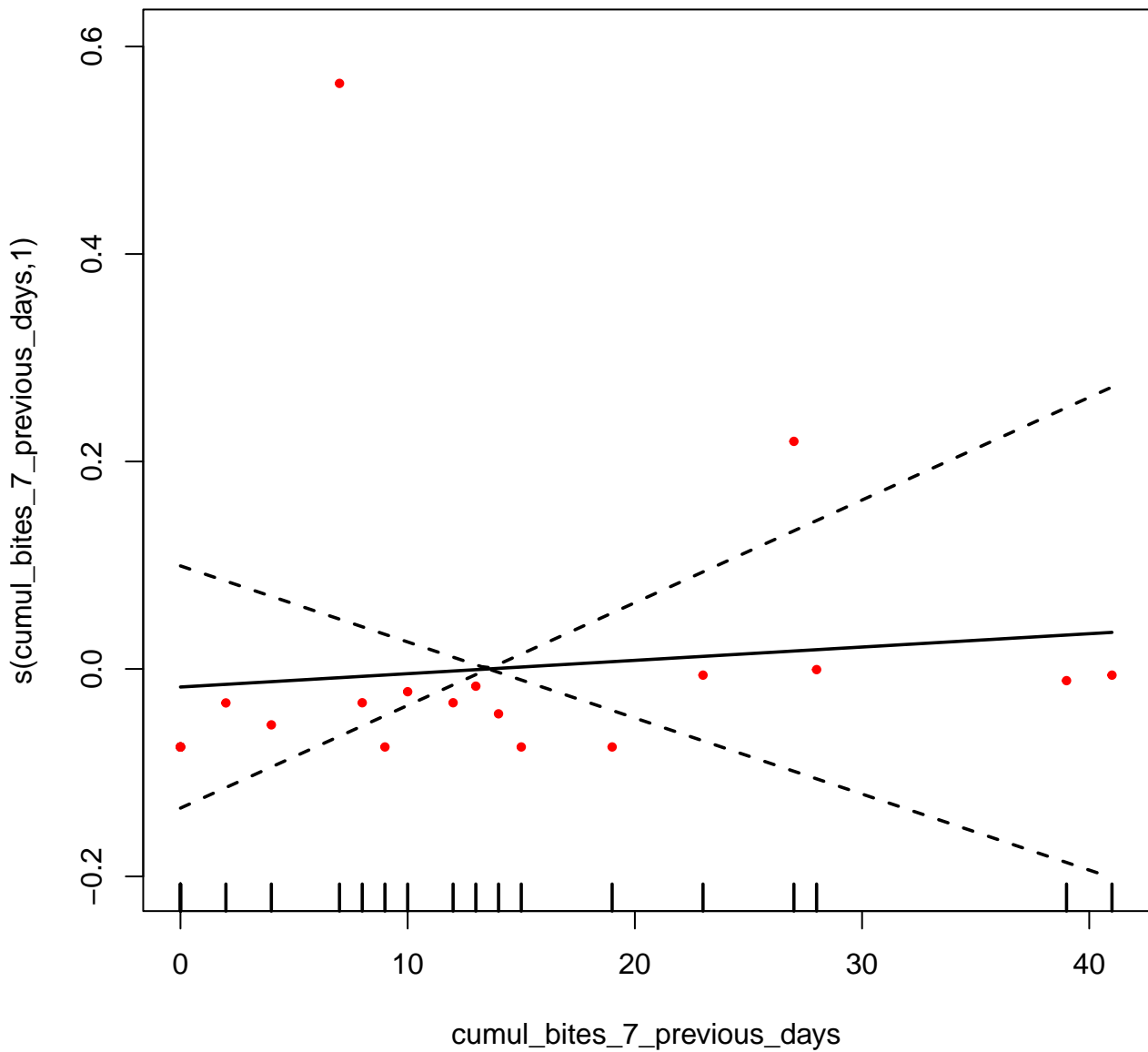
R-sq.(adj) = 0.619 Deviance explained = 66.9%
-ML = -31.996 Scale est. = 0.0084674 n = 36

AICc [1] -57.969

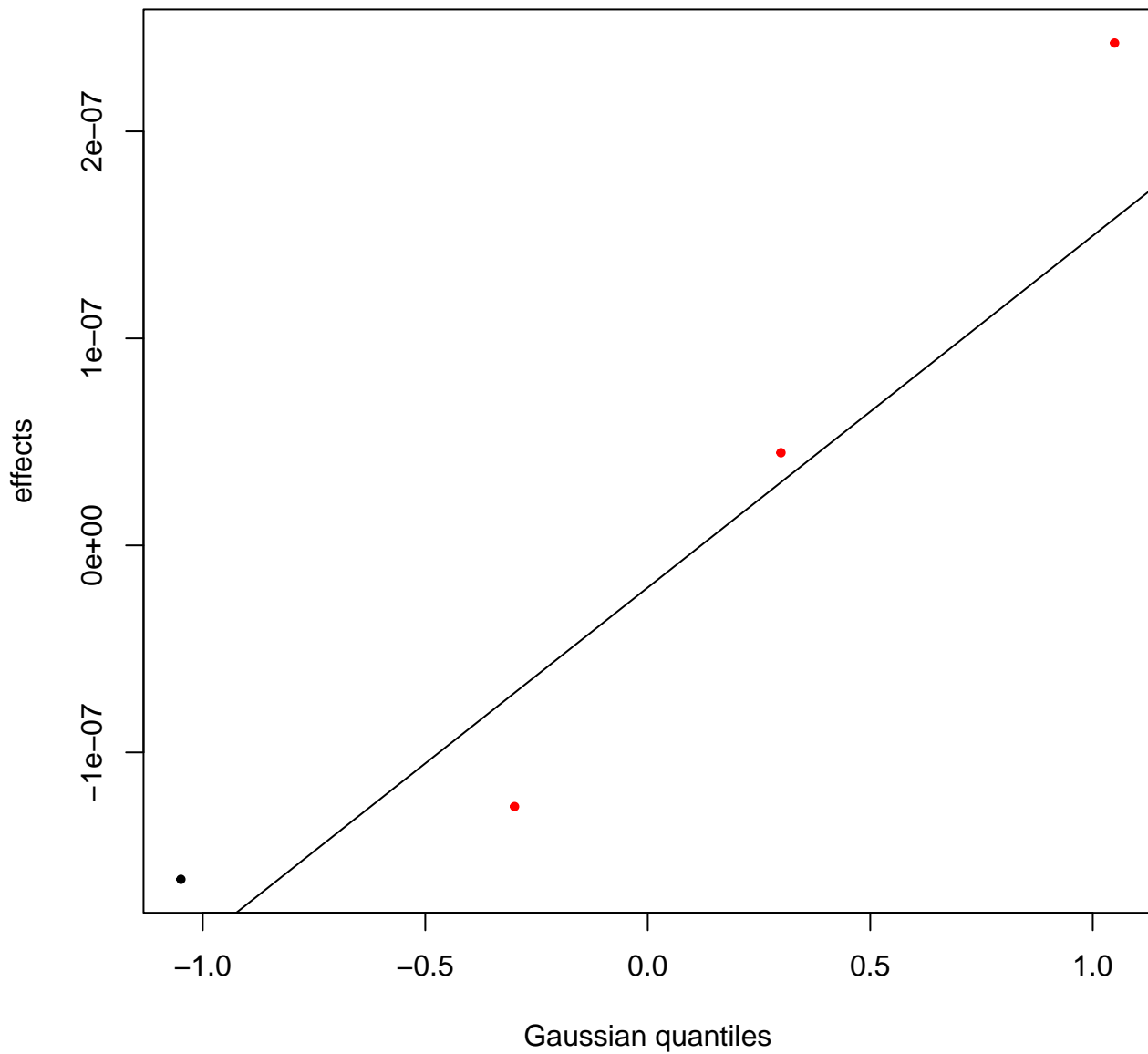
Bites in squirrel

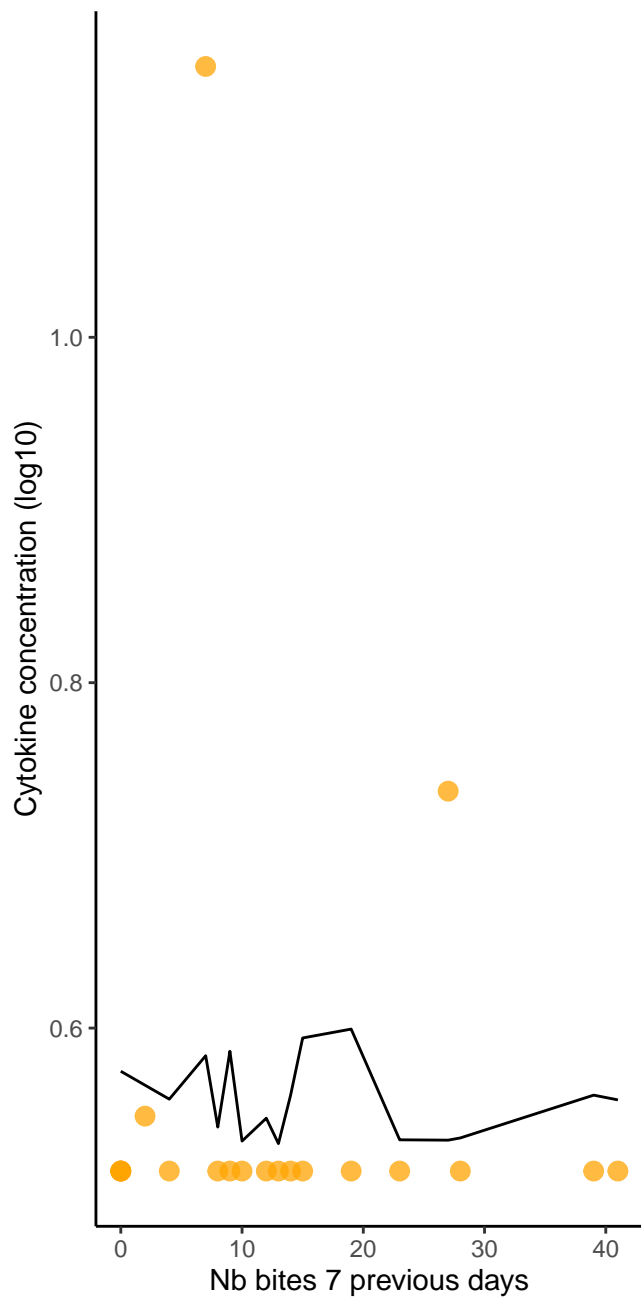
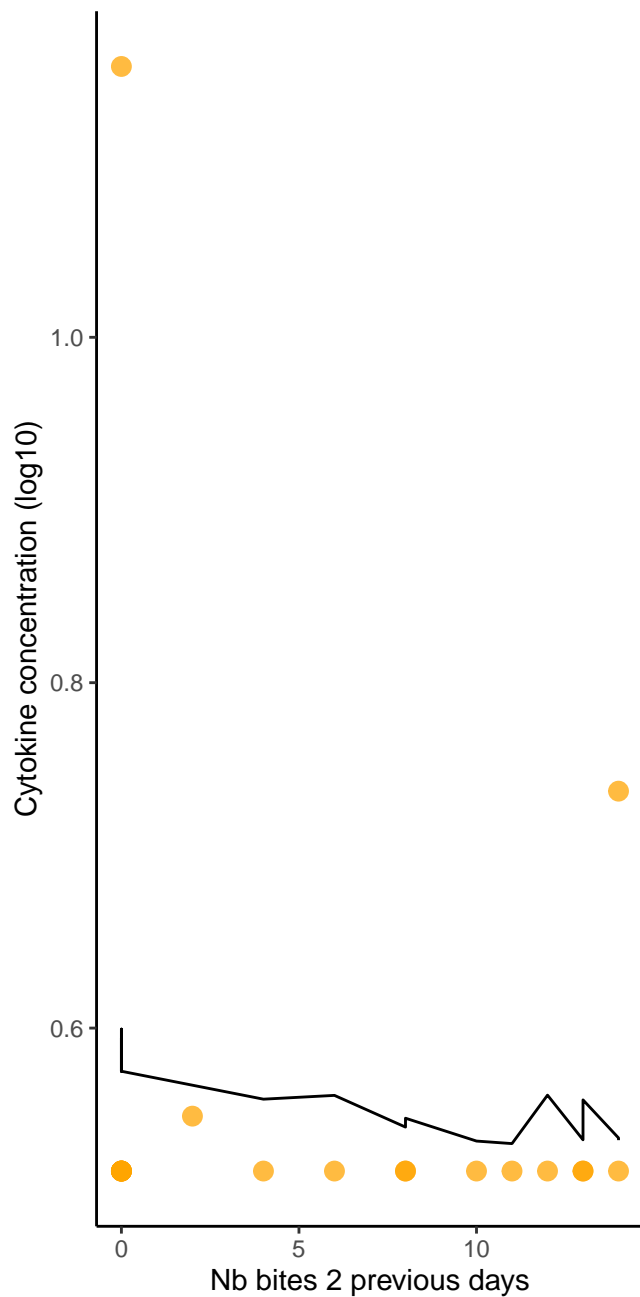
Nb obs : 20

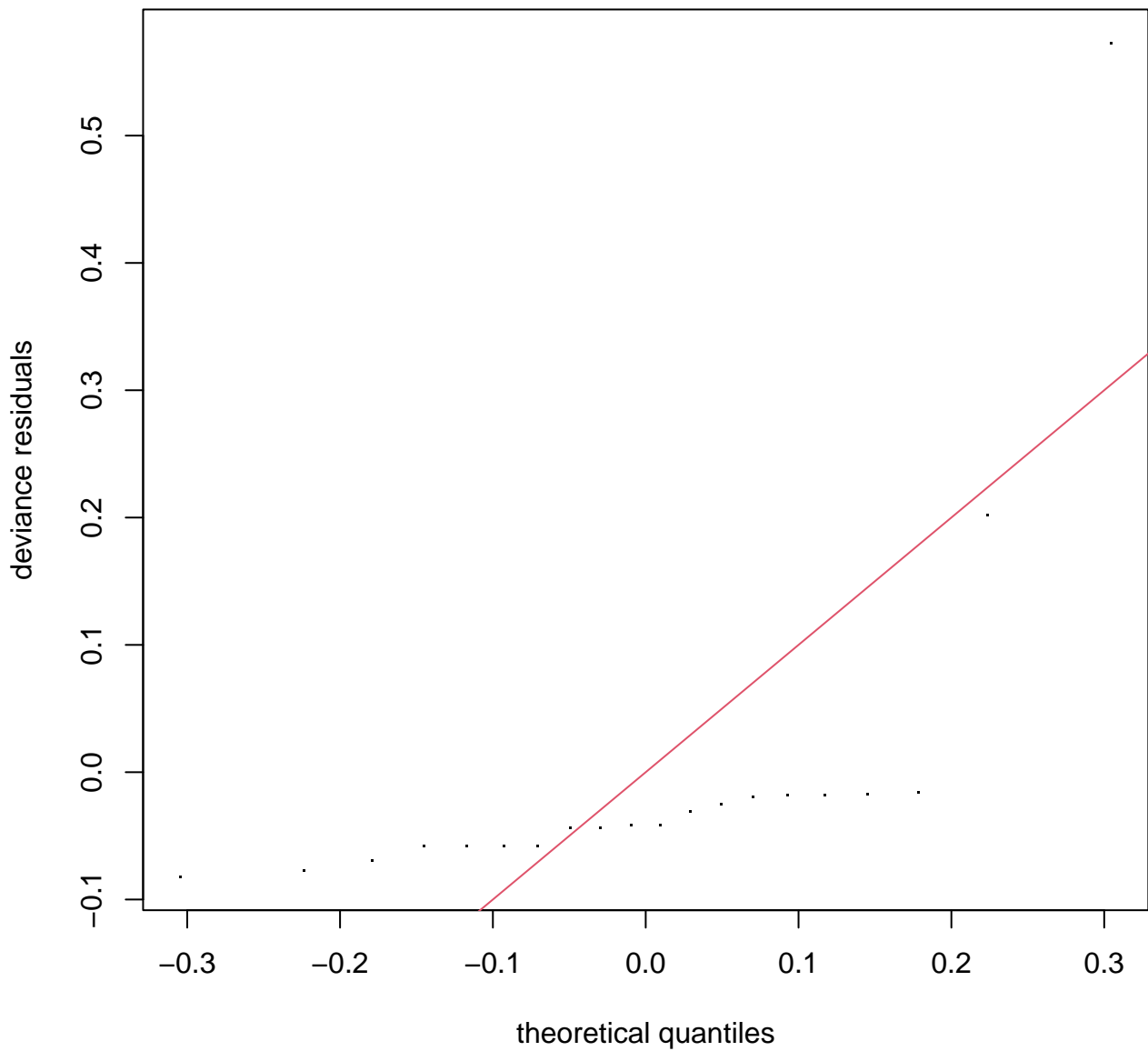




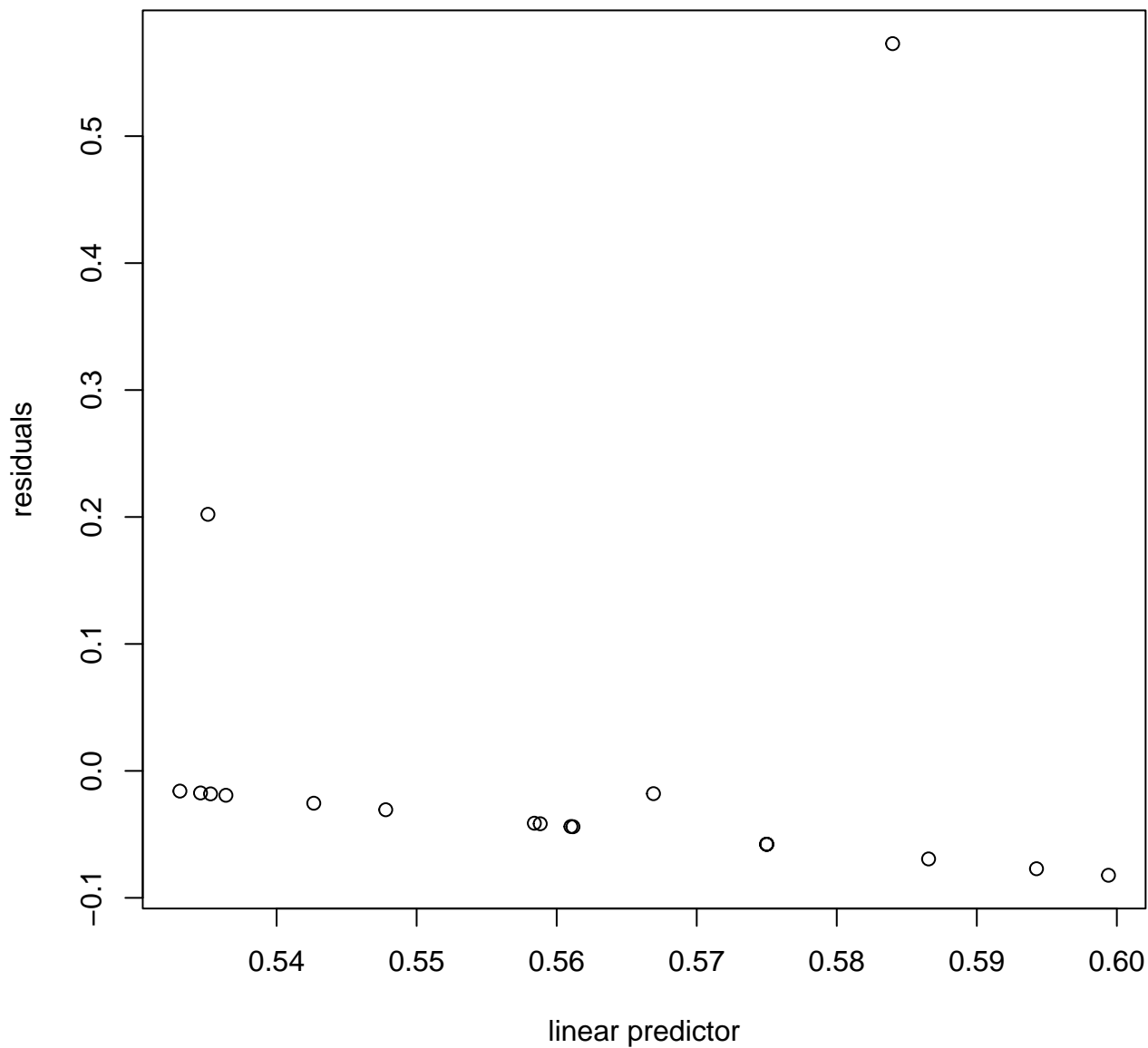
s(ID,0)



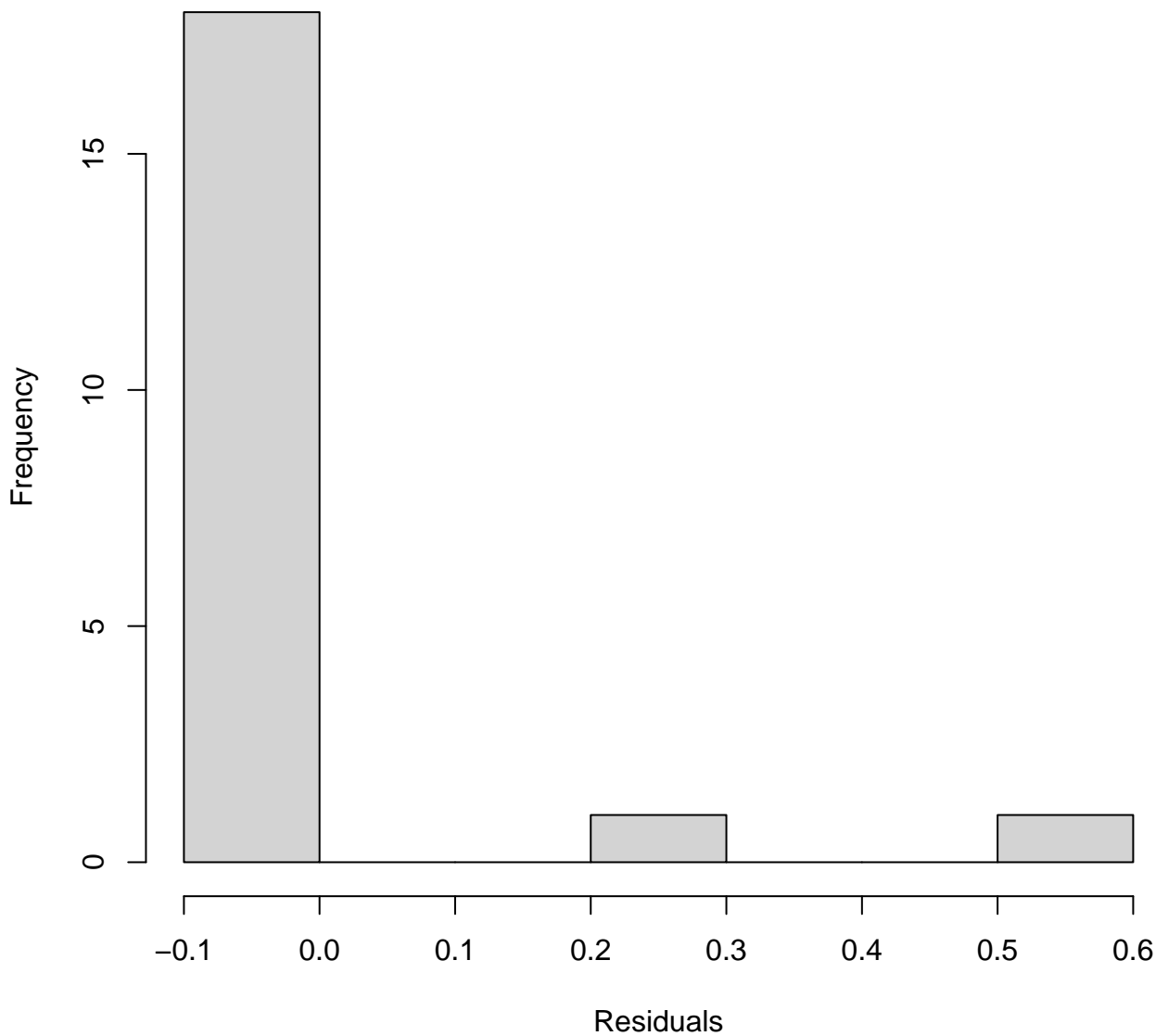




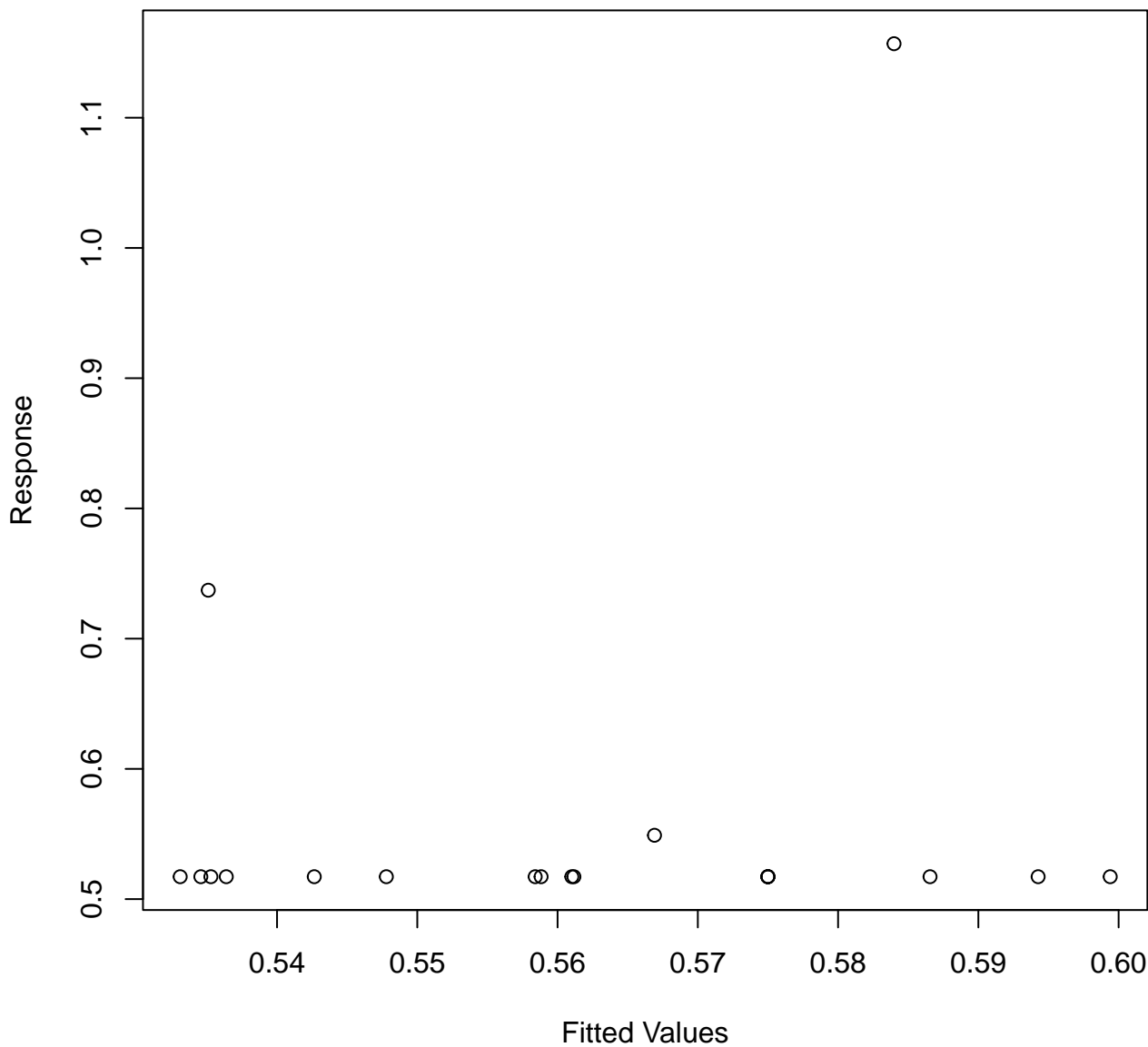
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 14 iterations.
 Gradient range [-3.005317e-06,3.912863e-06]
 (score -10.48654 & scale 0.02413691).
 Hessian positive definite, eigenvalue range [4.335191e-07,9.999996].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.00e+00	1.00e+00	1.13	0.56
s(cumul_bites_7_previous_days)	3.00e+00	1.00e+00	1.09	0.30
s(ID)	4.00e+00	9.46e-06	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.56177	0.03474	16.17	9.34e-12 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.00e+00	1	0.317	0.581
s(cumul_bites_7_previous_days)	1.00e+00	1	0.089	0.769
s(ID)	9.46e-06	3	0.000	0.582

R-sq.(adj) = -0.0949 Deviance explained = 2.03%

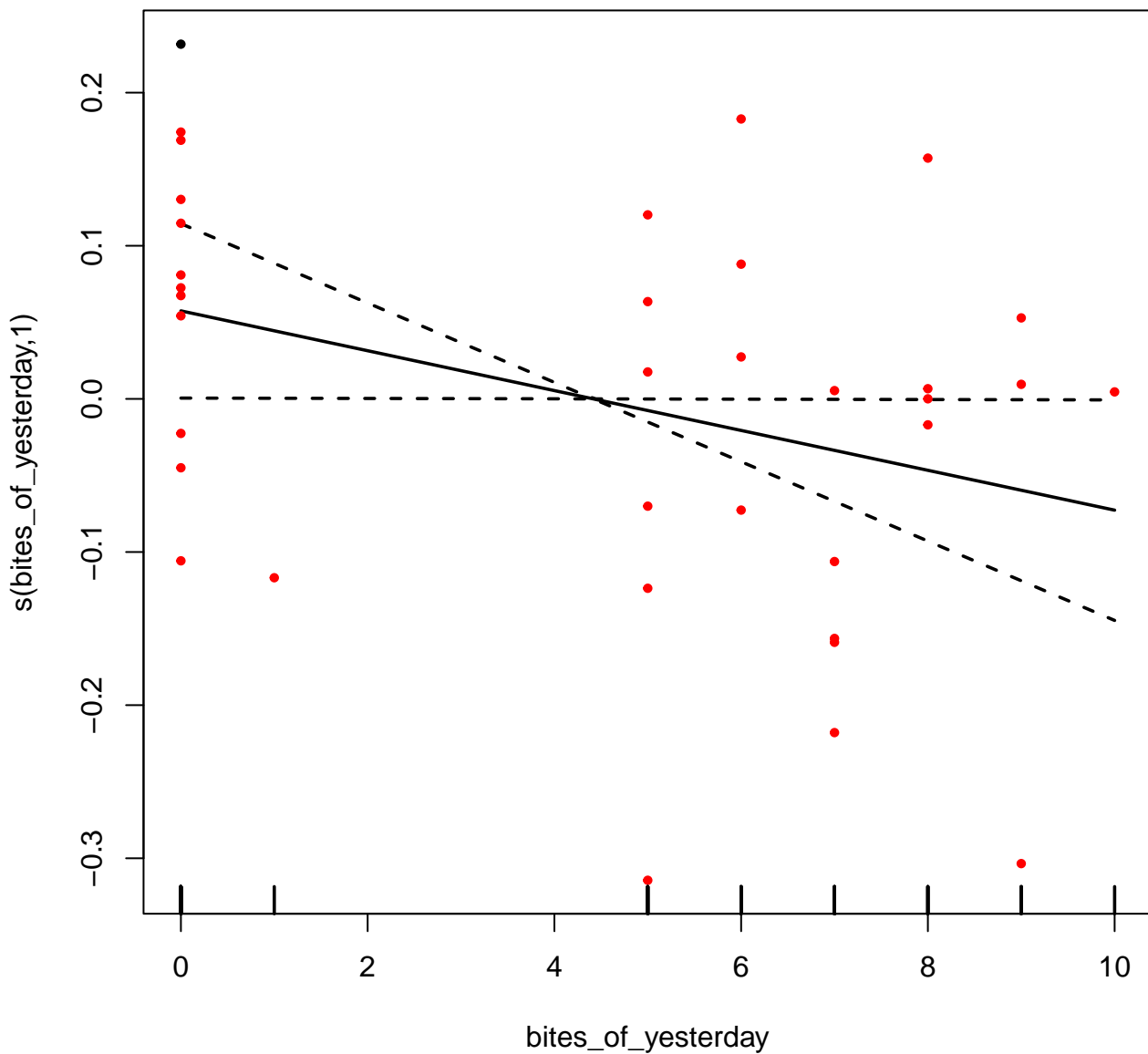
-ML = -10.487 Scale est. = 0.024137 n = 20

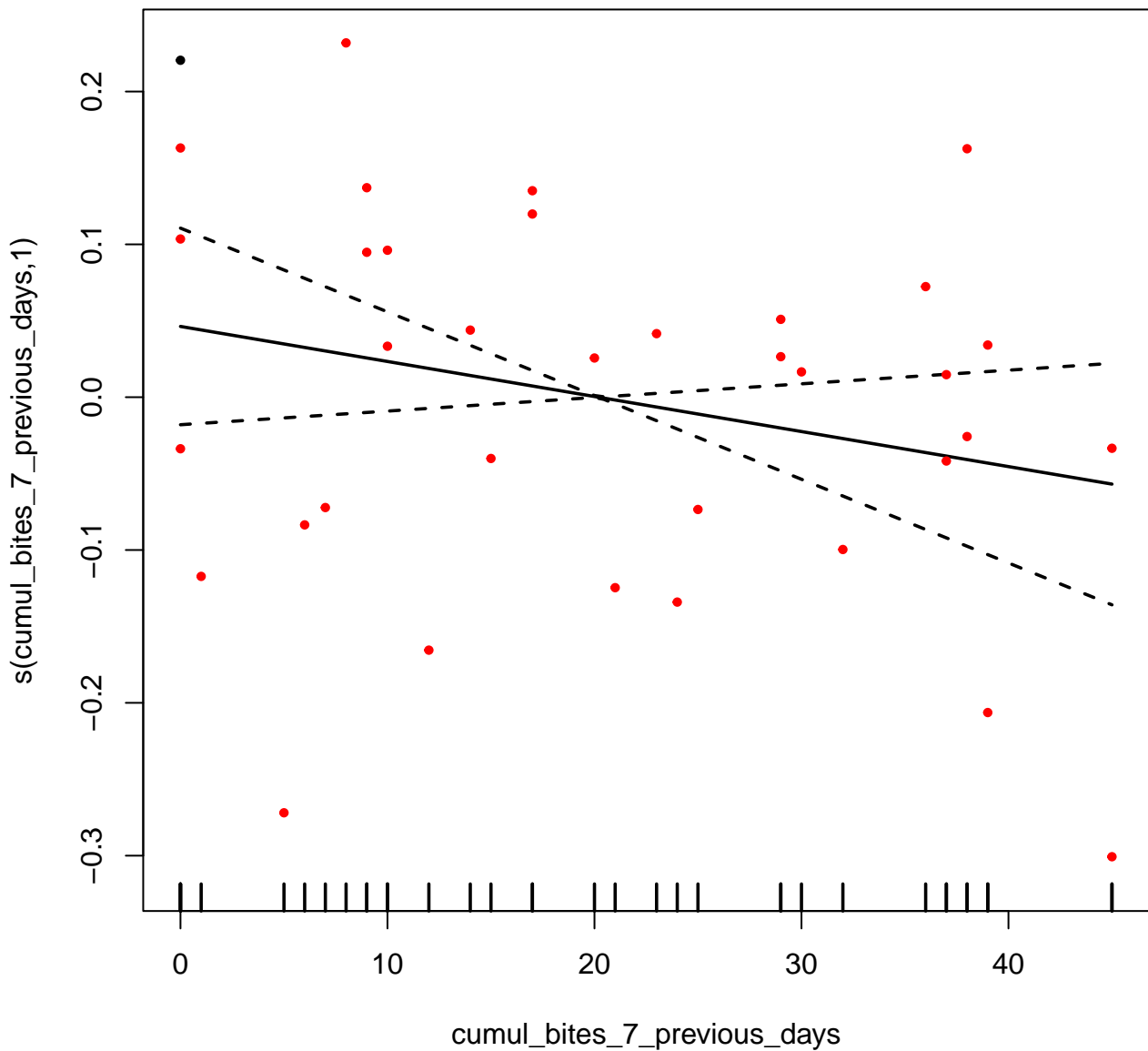
AICc [1] -10.30637

Eotaxin

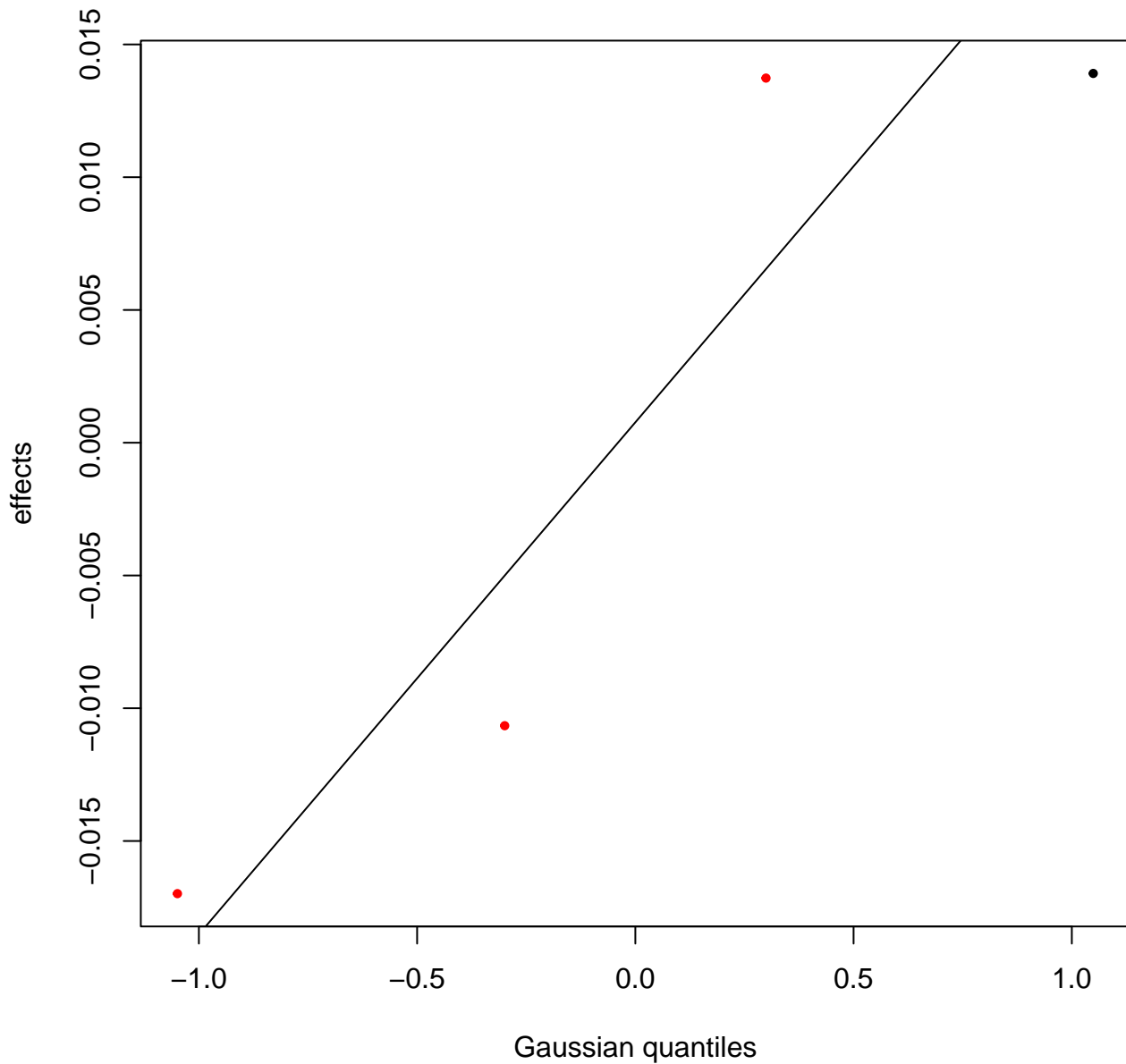
Bites in cyno

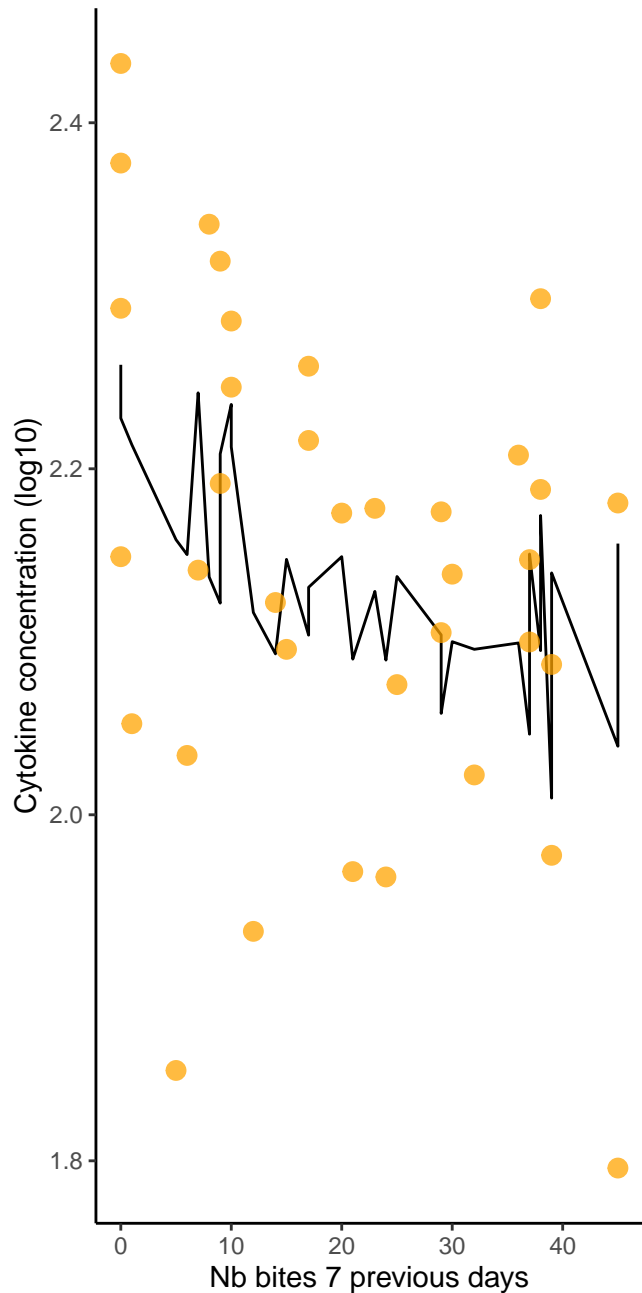
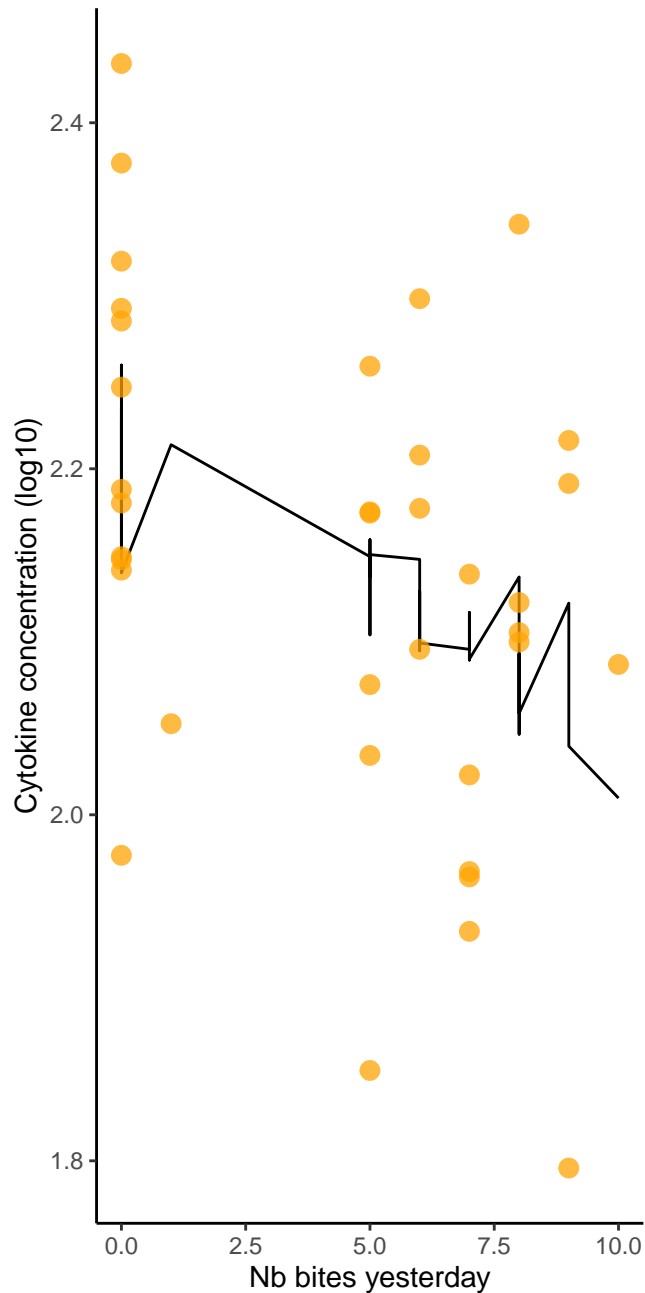
Nb obs : 36

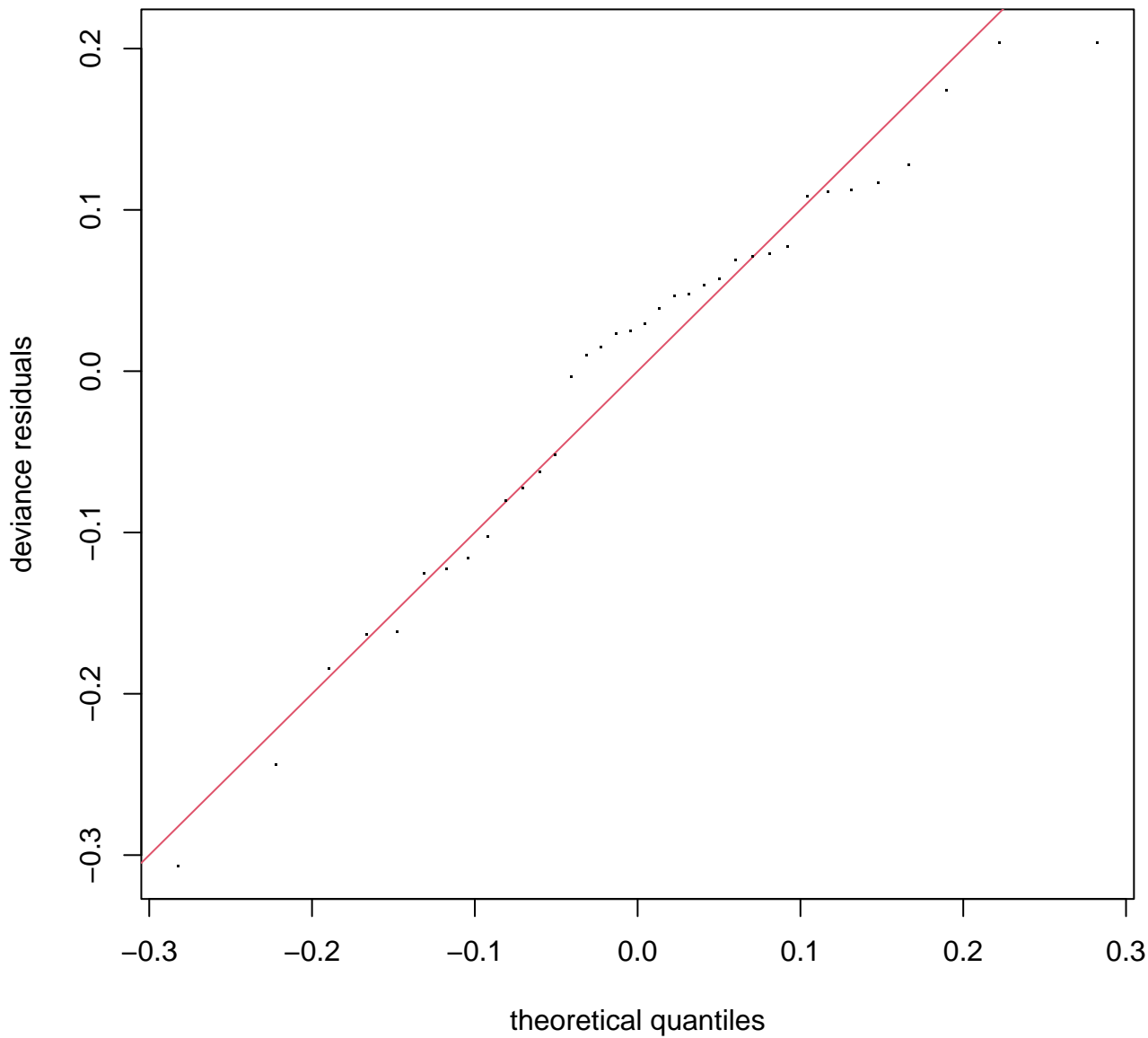




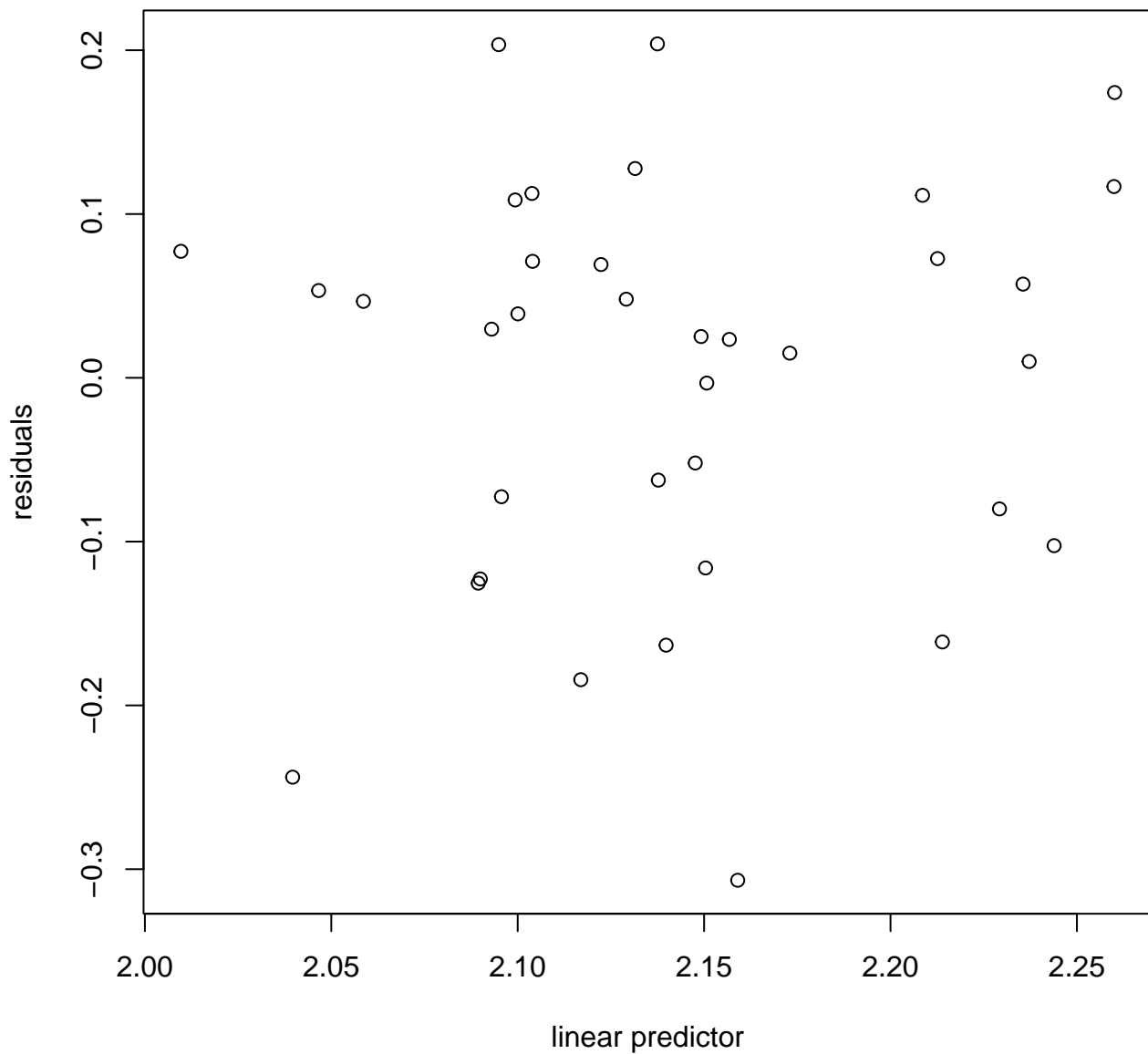
s(ID,0.86)



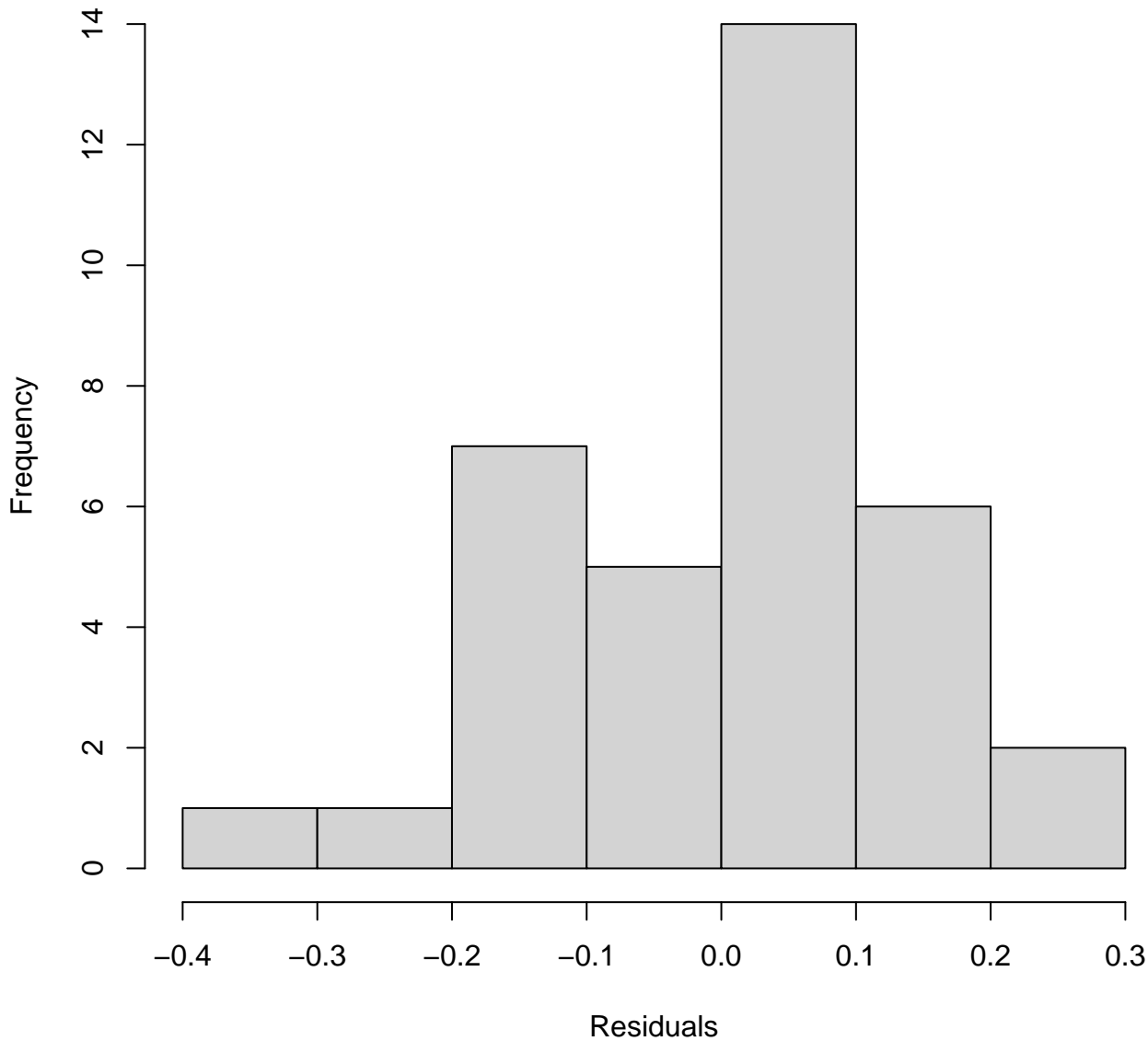




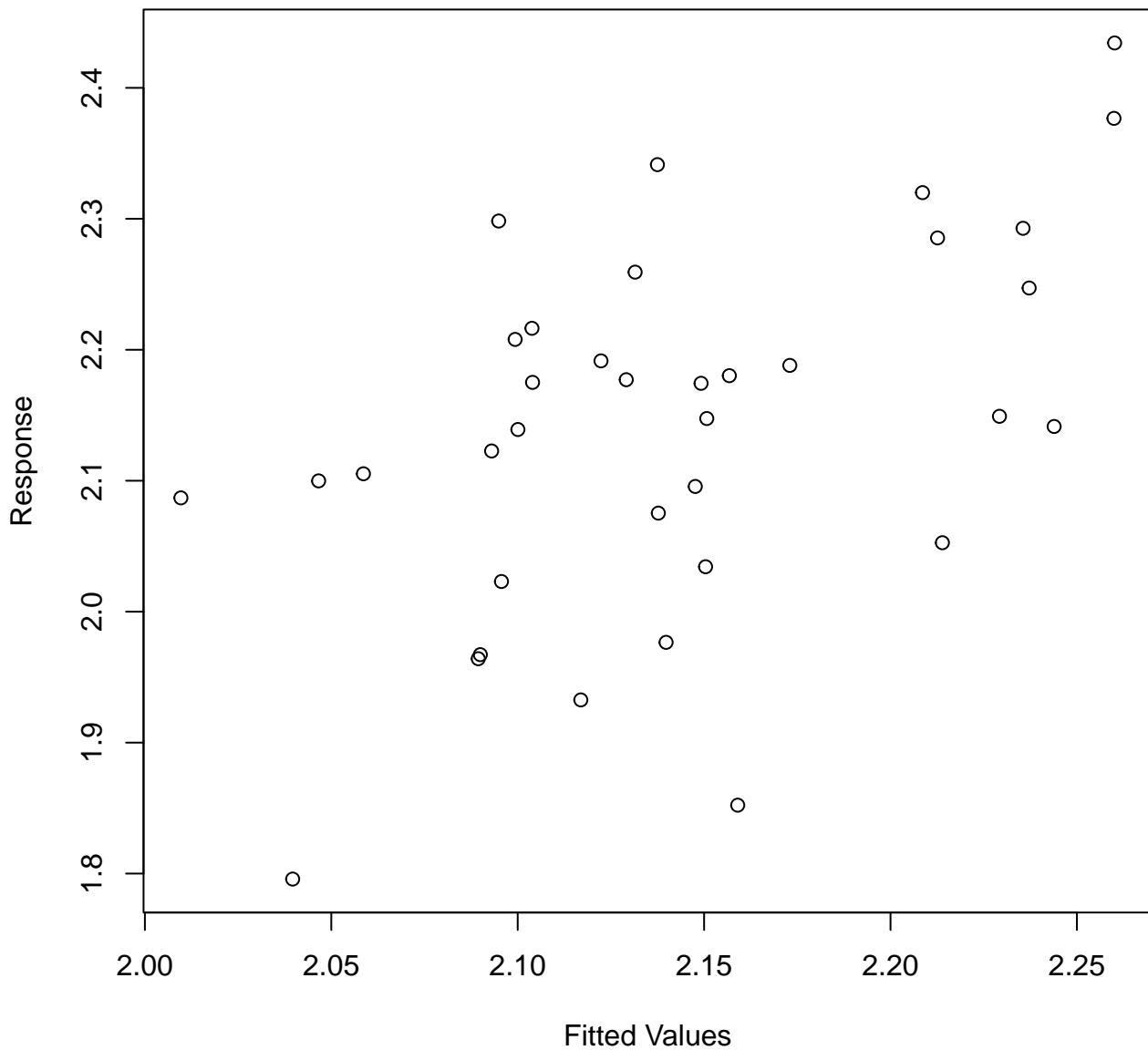
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values




```

Method: ML   Optimizer: outer newton
full convergence after 10 iterations.
Gradient range [-5.488936e-06,6.609834e-07]
(score -23.6211 & scale 0.01645672).
Hessian positive definite, eigenvalue range [1.135394e-06,18.01854].
Model rank = 11 / 11

```

Basis dimension (k) checking results. Low p-value (k-index<1) may indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.000	1.000	1.08	0.65
s(cumul_bites_7_previous_days)	3.000	1.000	0.73	0.04 *
s(ID)	4.000	0.857	NA	NA

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

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.14243	0.02533	84.57	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.0000	1	4.075	0.052 .
s(cumul_bites_7_previous_days)	1.0000	1	2.073	0.160
s(ID)	0.8571	3	0.494	0.181

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

R-sq.(adj) = 0.186 Deviance explained = 25.3%
-ML = -23.621 Scale est. = 0.016457 n = 36

AICc [1] -36.43411

Bites in squirrel

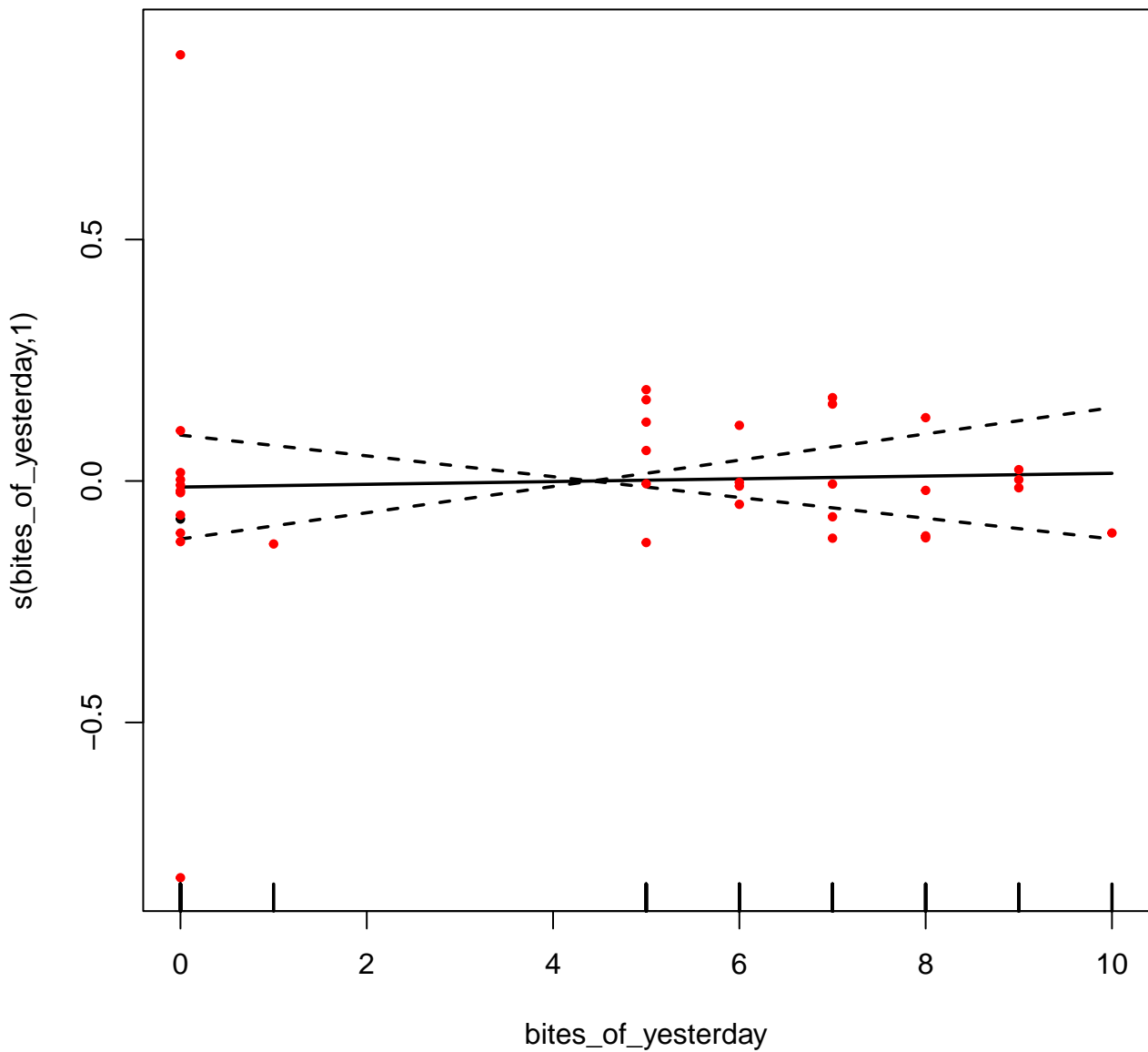
Nb obs : 20

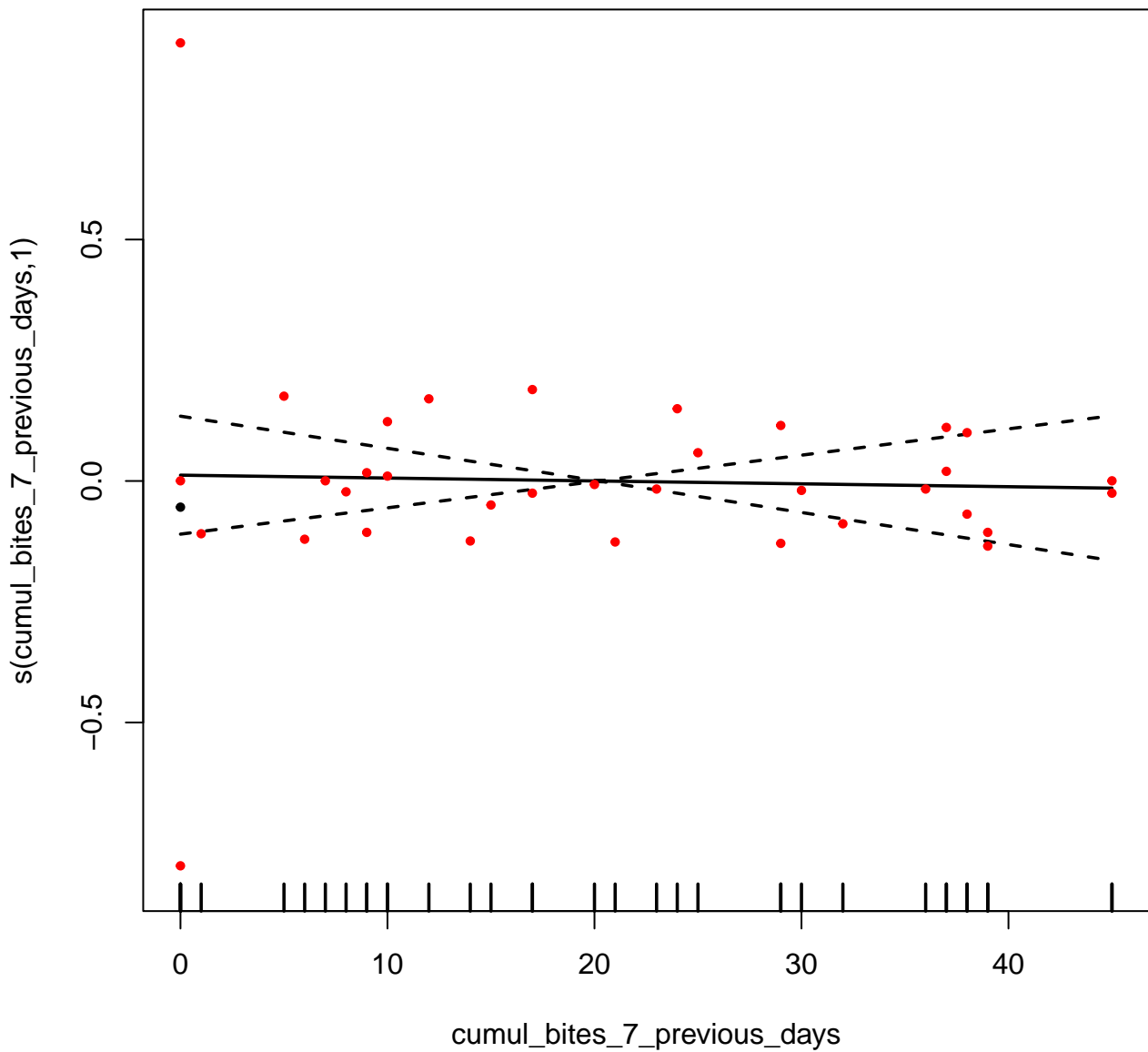
Eotaxin ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

G . C S F

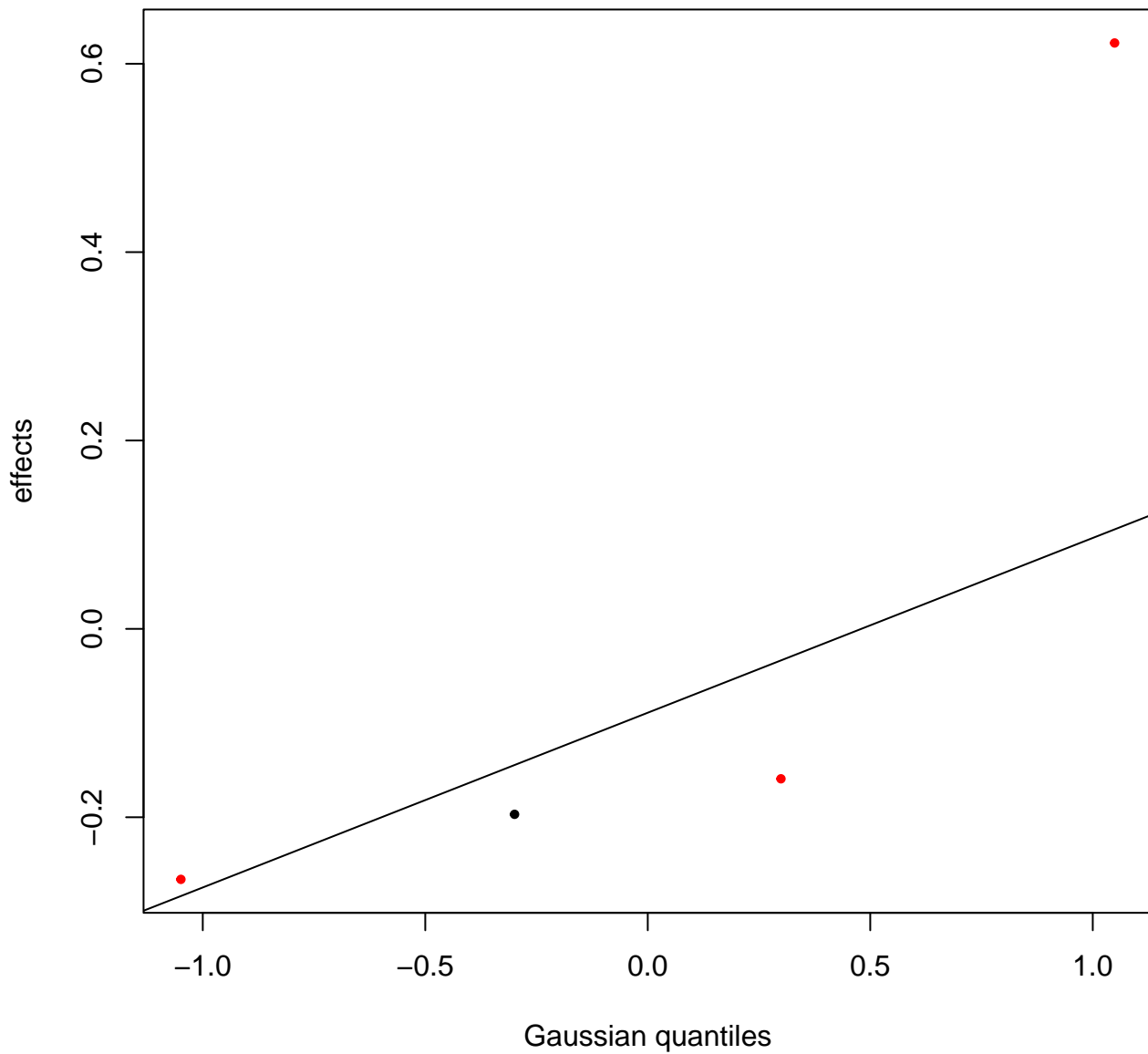
Bites in cyno

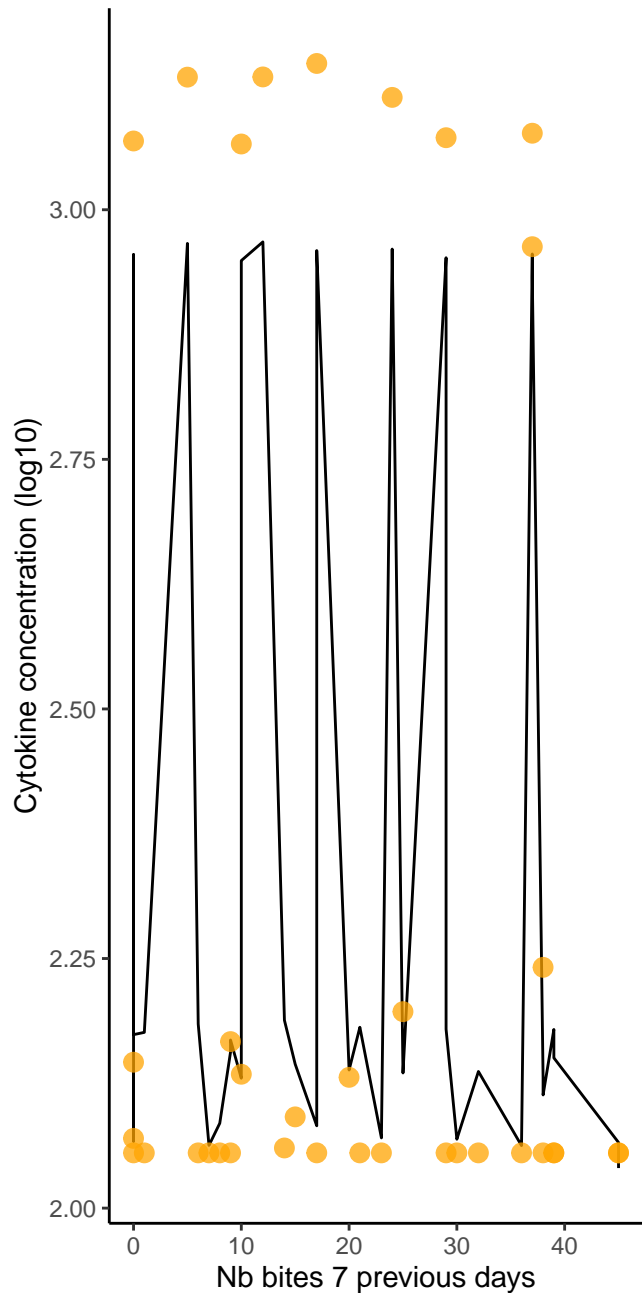
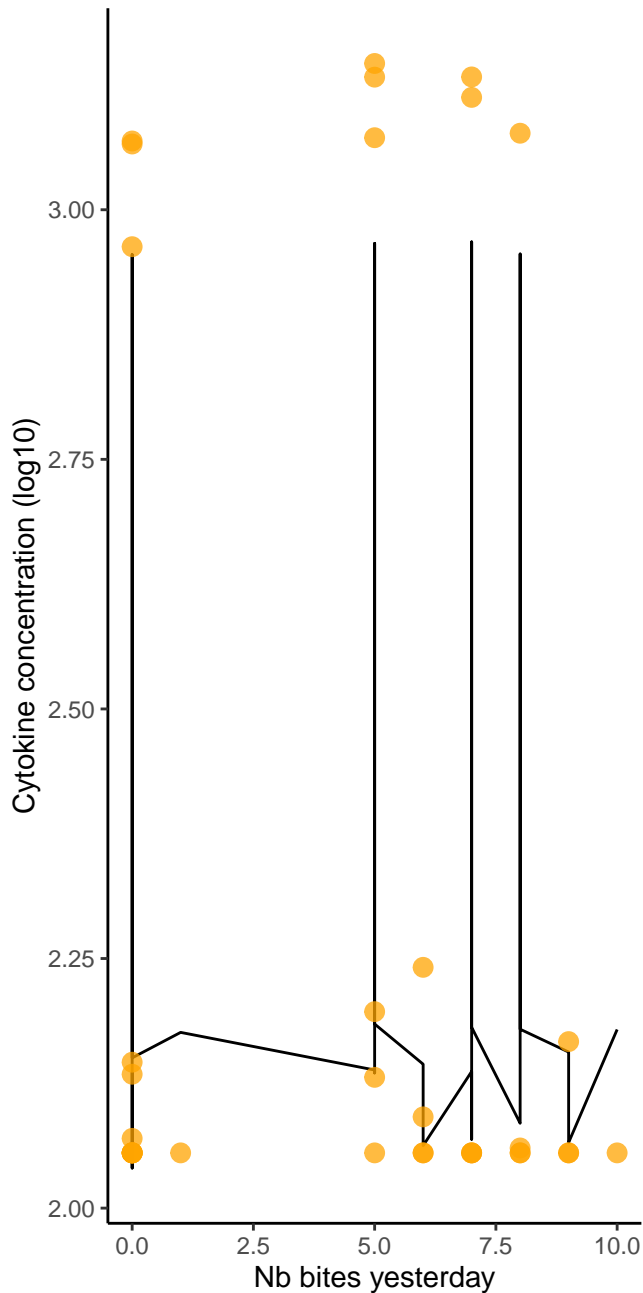
Nb obs : 36

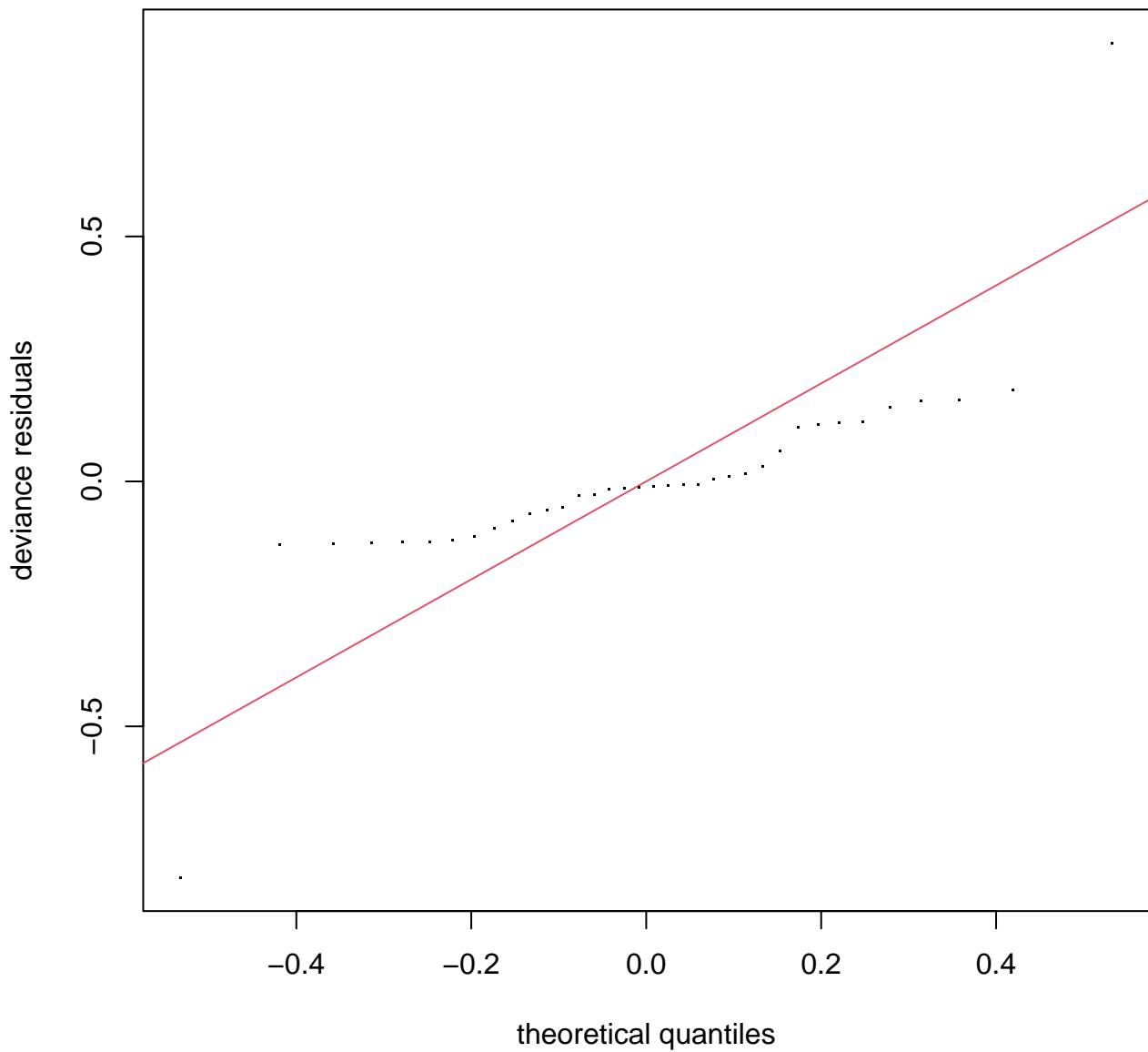




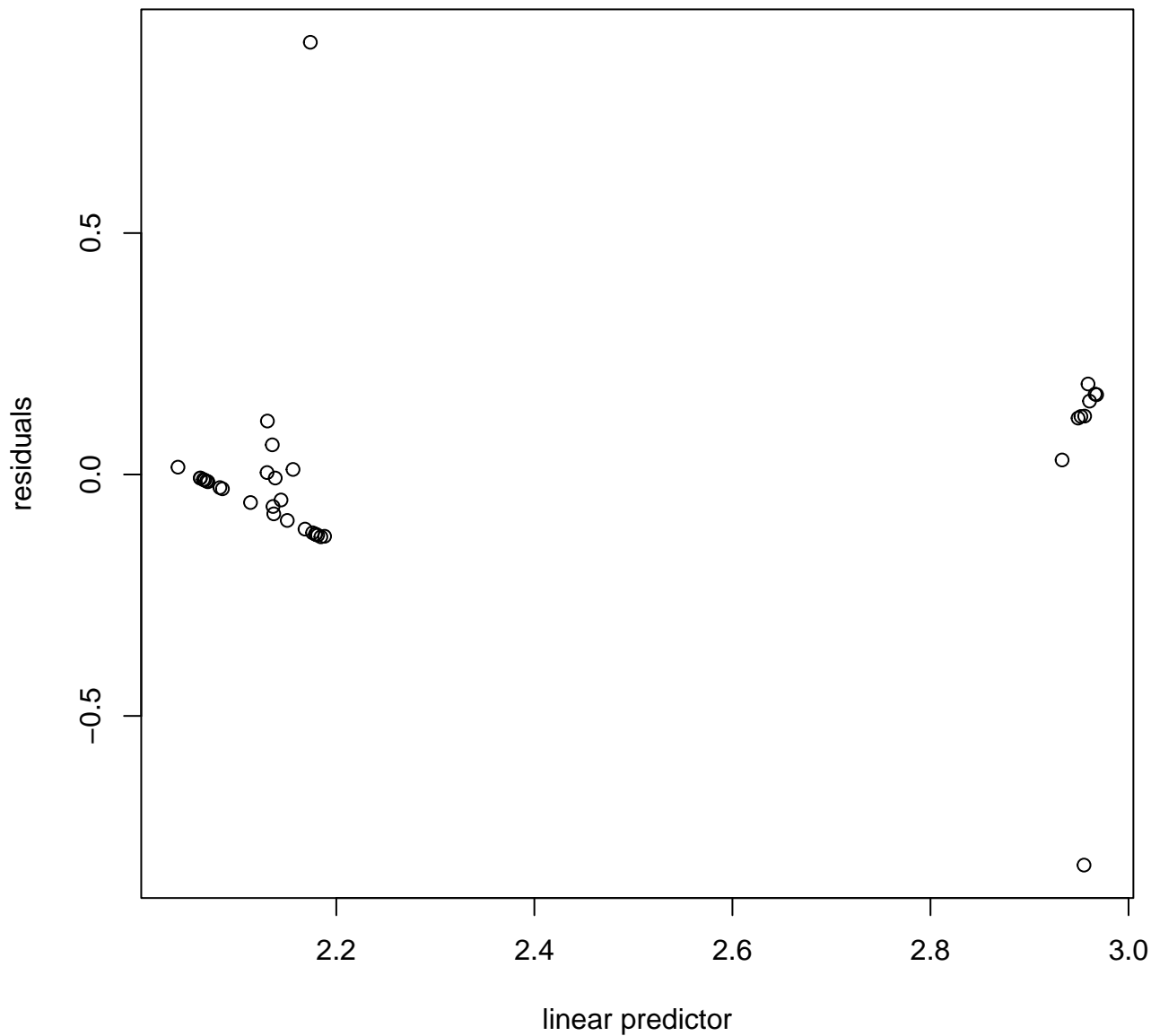
s(ID,2.87)



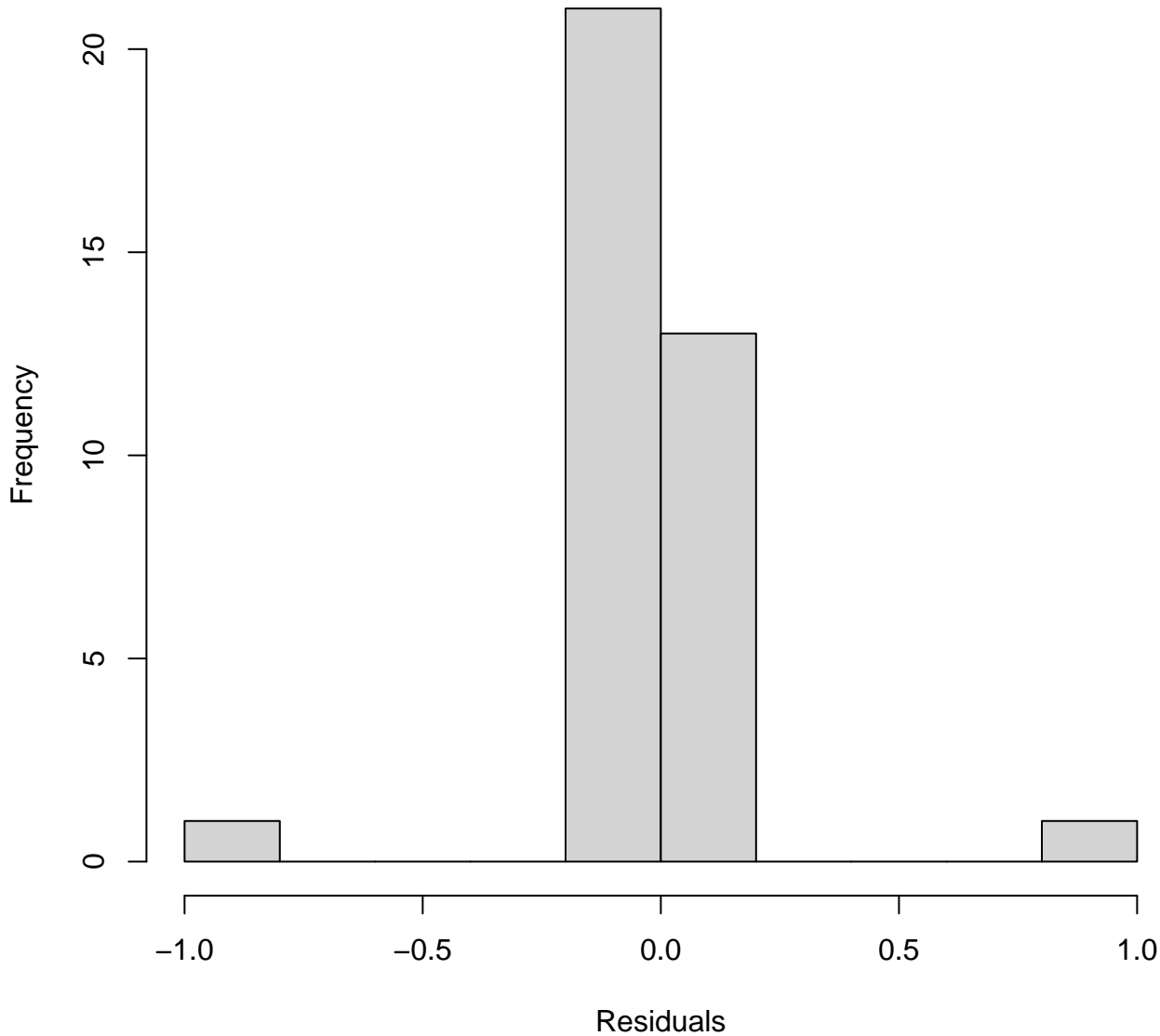




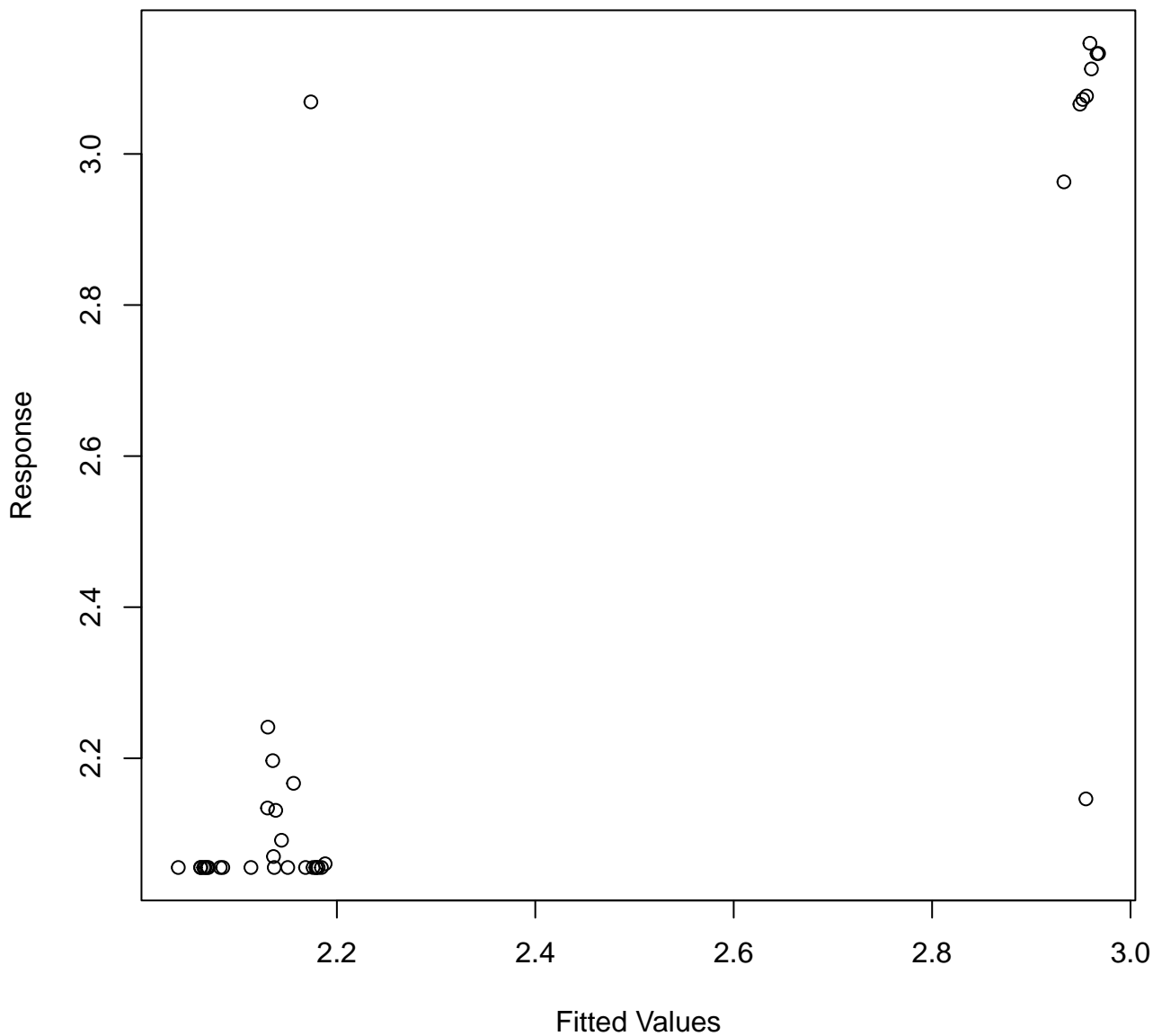
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 13 iterations.
 Gradient range [-1.798824e-06,2.675128e-07]
 (score 5.124387 & scale 0.05855605).
 Hessian positive definite, eigenvalue range [1.645851e-06,18.22358].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.08	0.78
s(cumul_bites_7_previous_days)	3.00	1.00	1.52	0.98
s(ID)	4.00	2.87	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.333	0.195	11.97	5.59e-13 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.00	1	0.055	0.817
s(cumul_bites_7_previous_days)	1.00	1	0.039	0.845
s(ID)	2.87	3	27.776	<2e-16 ***

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

R-sq.(adj) = 0.702 Deviance explained = 74.4%
-ML = 5.1244 Scale est. = 0.058556 n = 36

AICc [1] 11.5171

Bites in squirrel

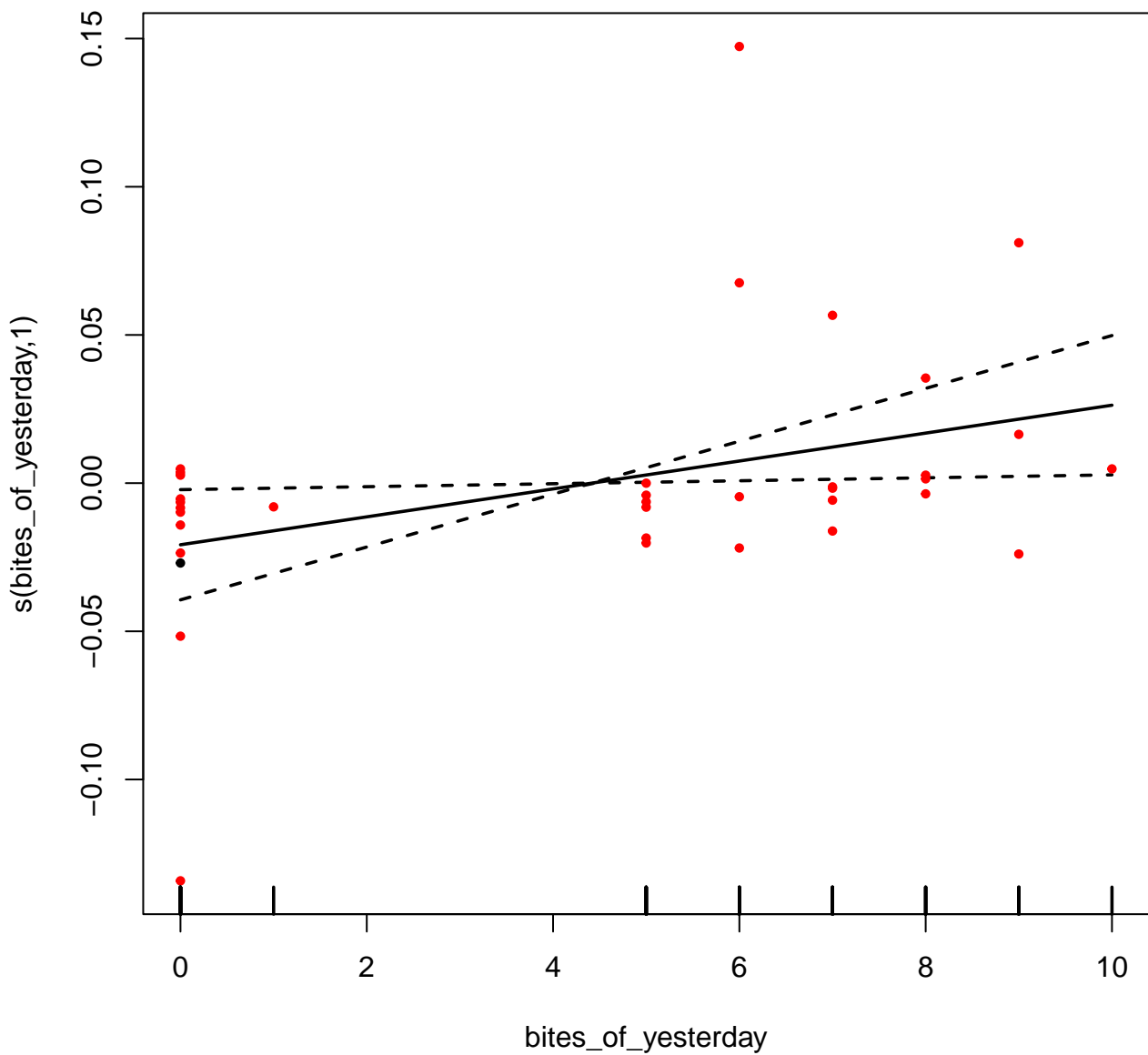
Nb obs : 20

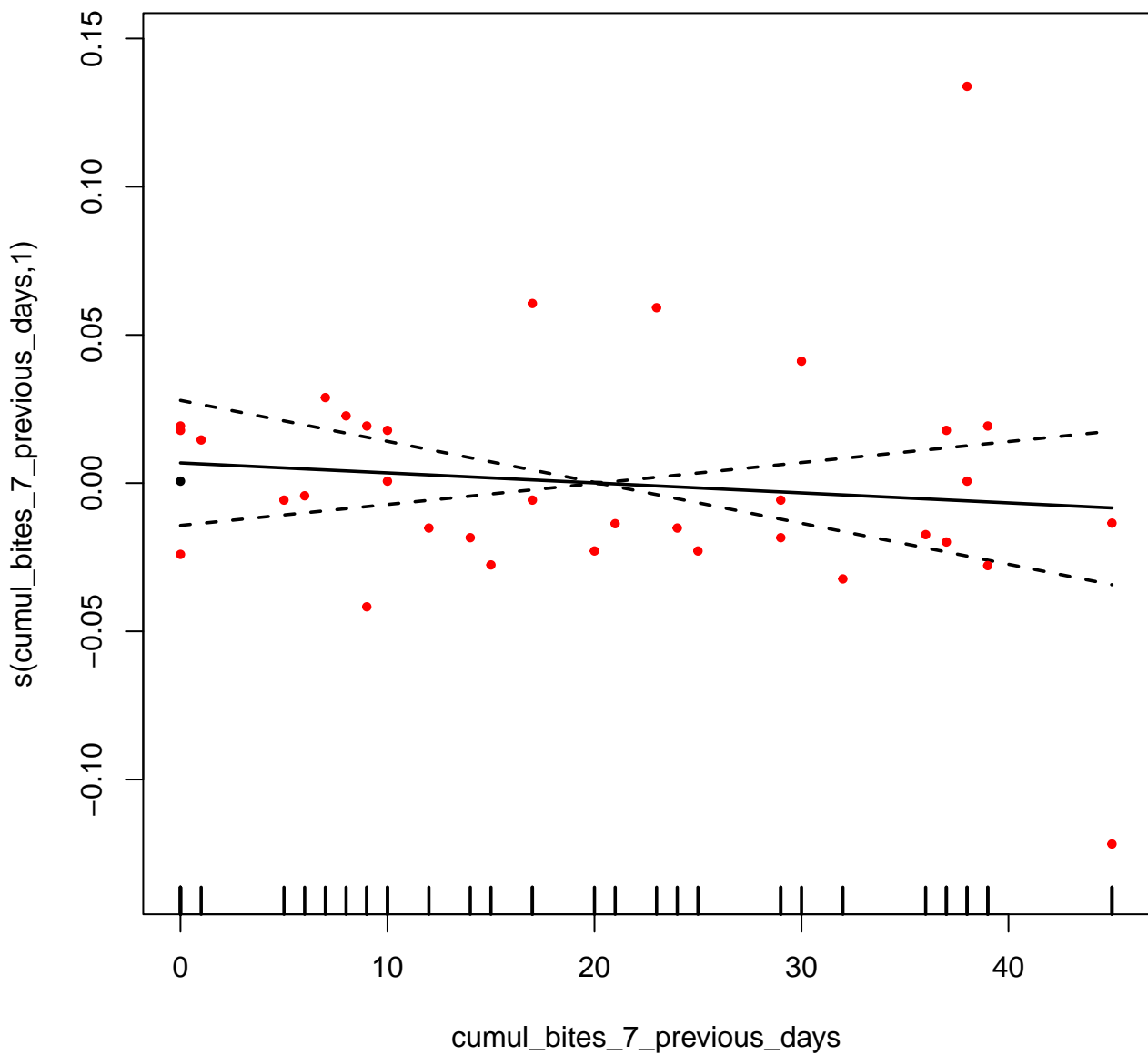
G.CSF ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

GM . CSF

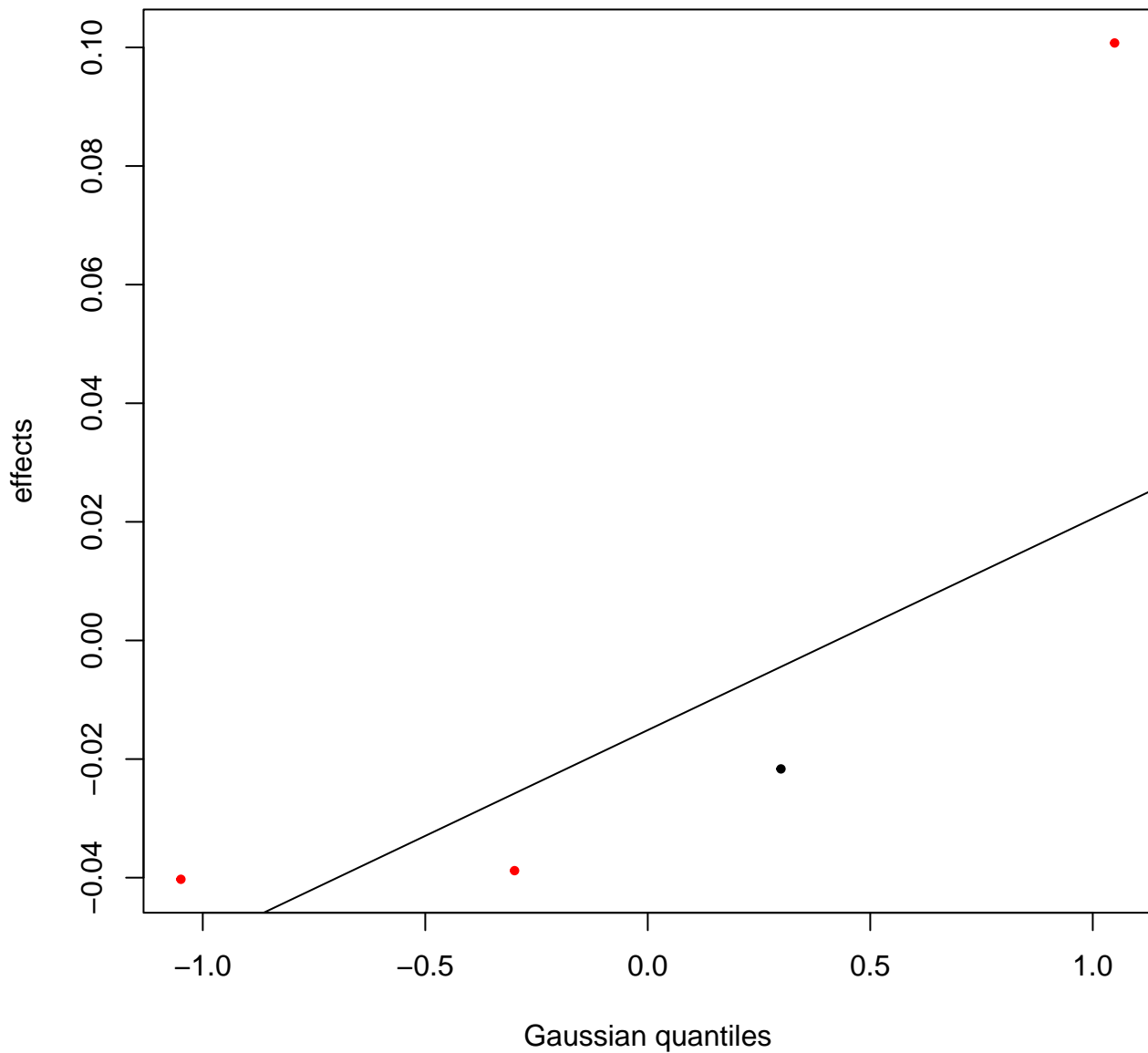
Bites in cyno

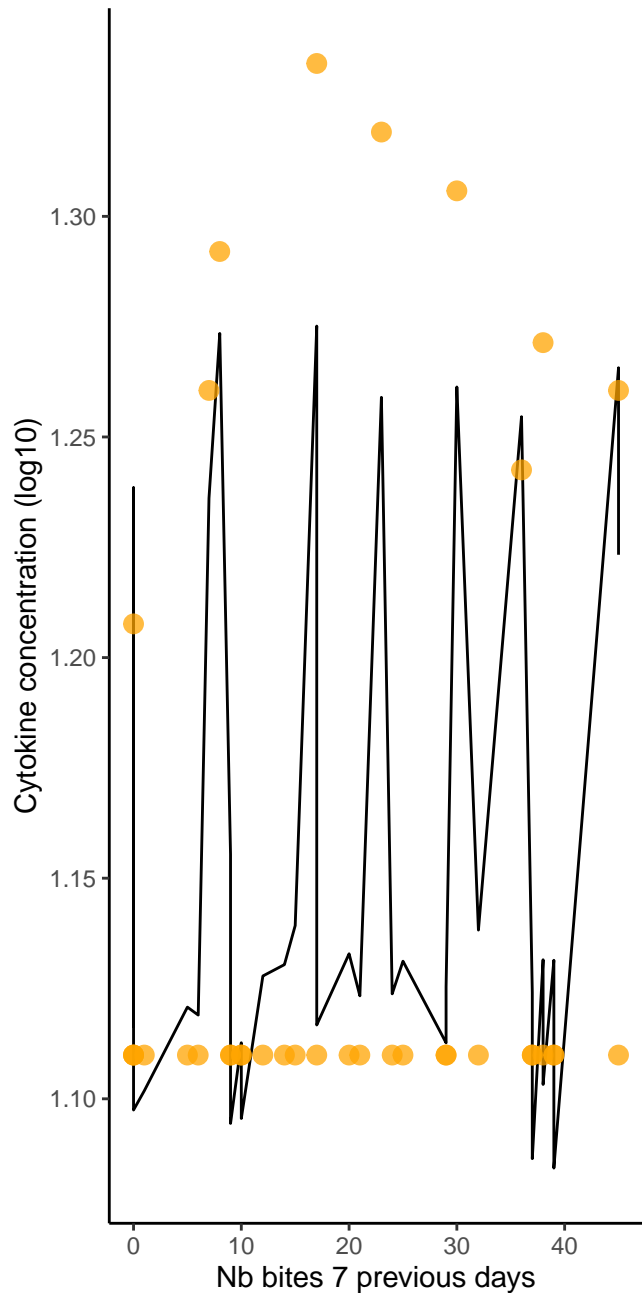
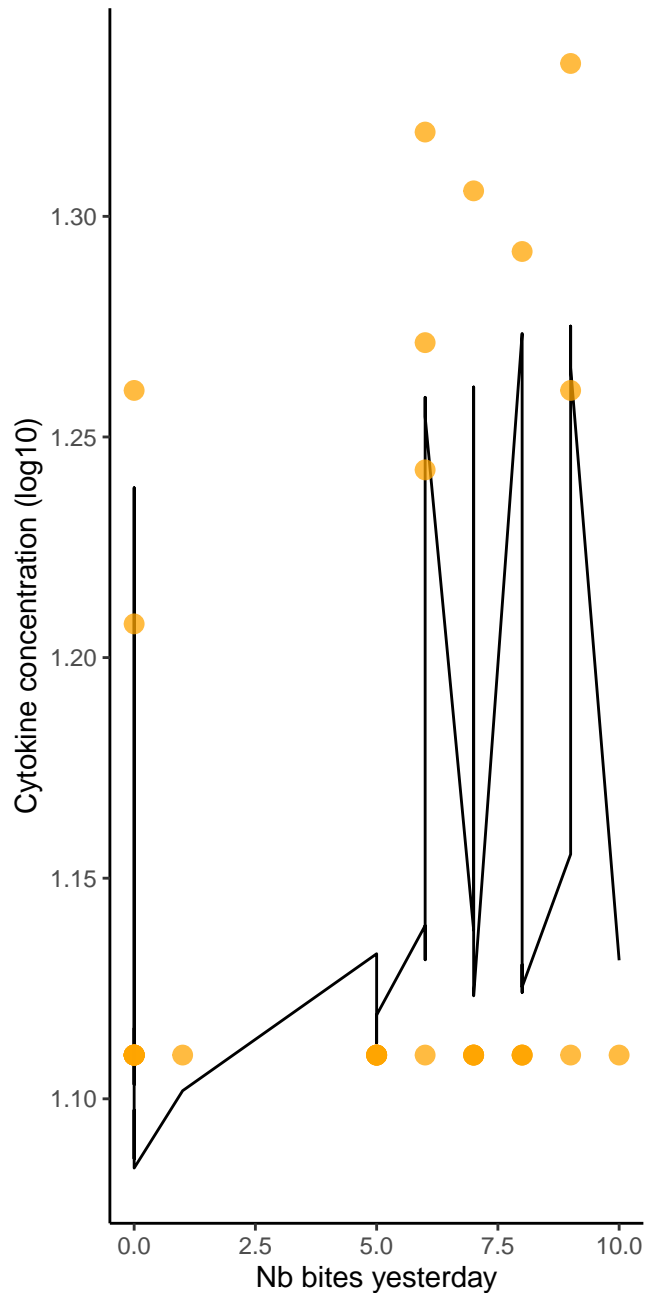
Nb obs : 36

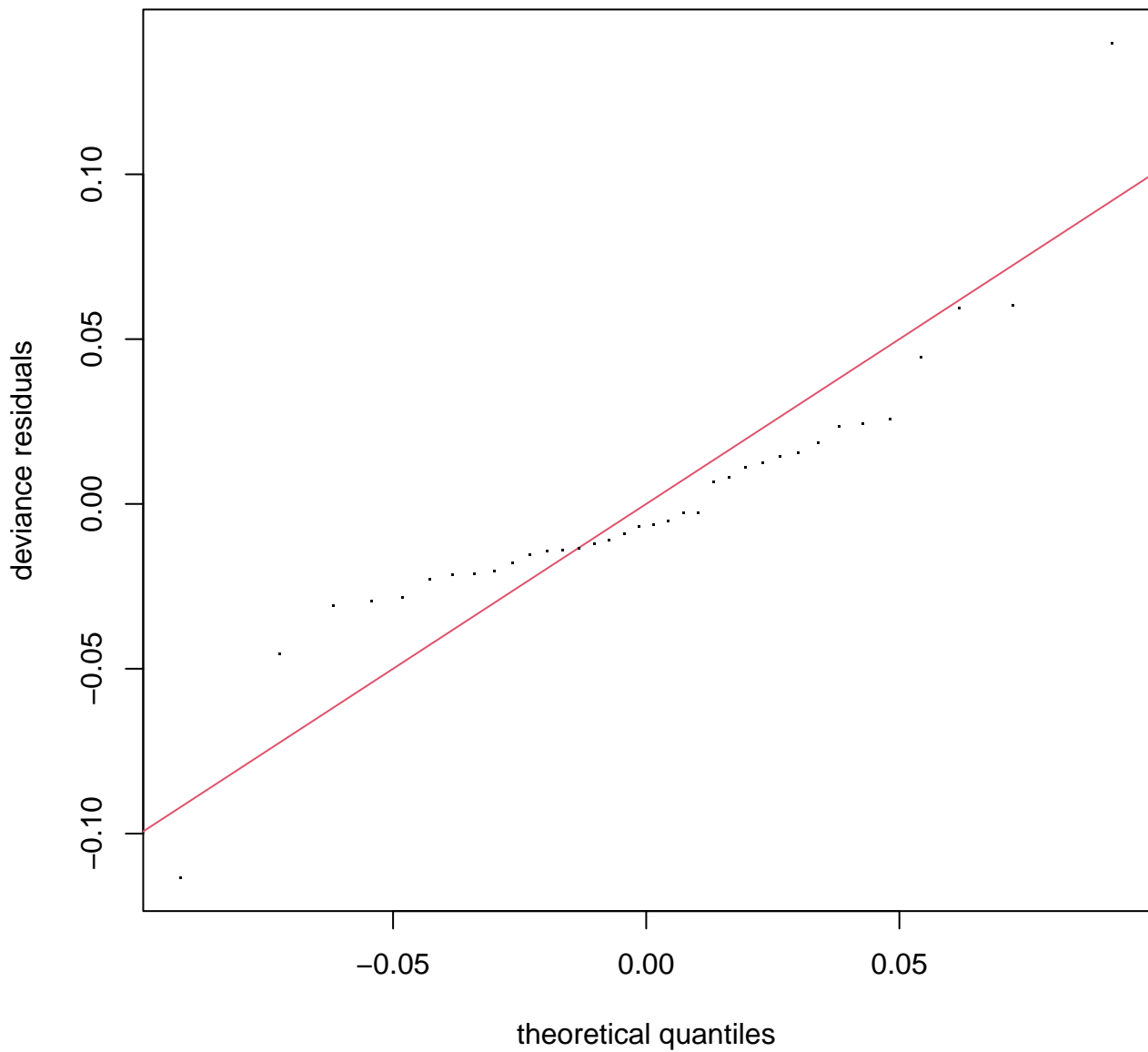




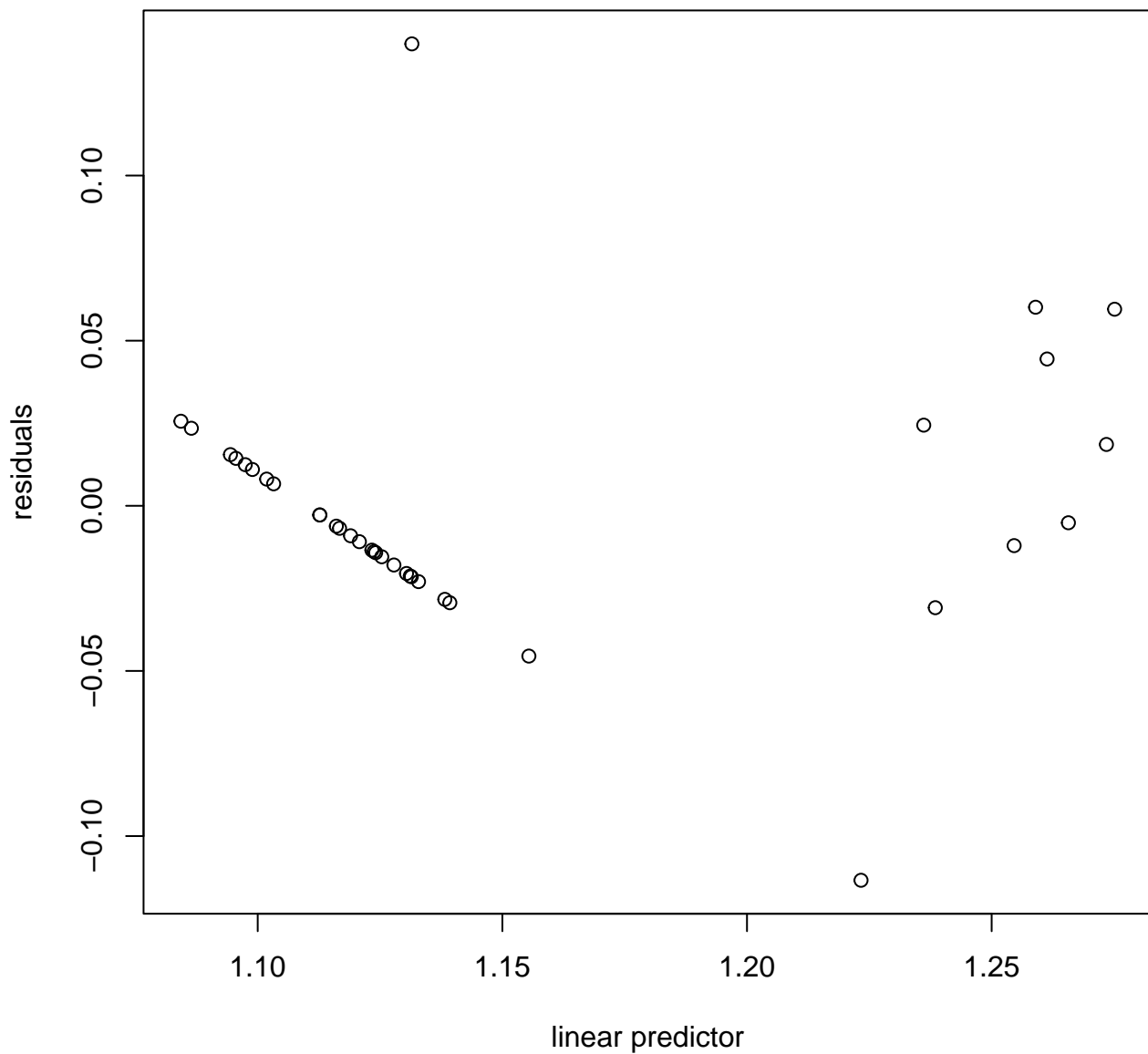
s(ID,2.85)



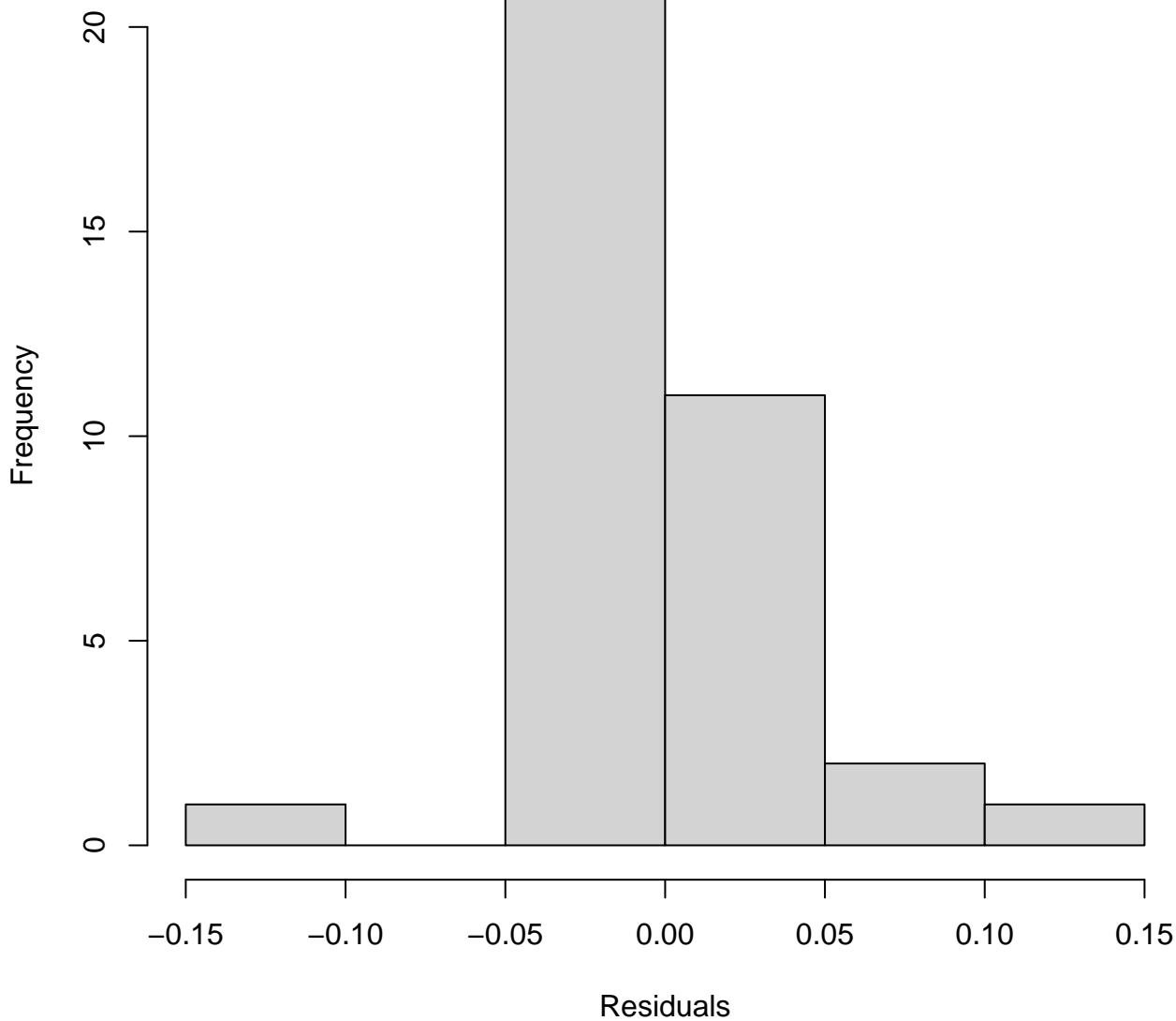




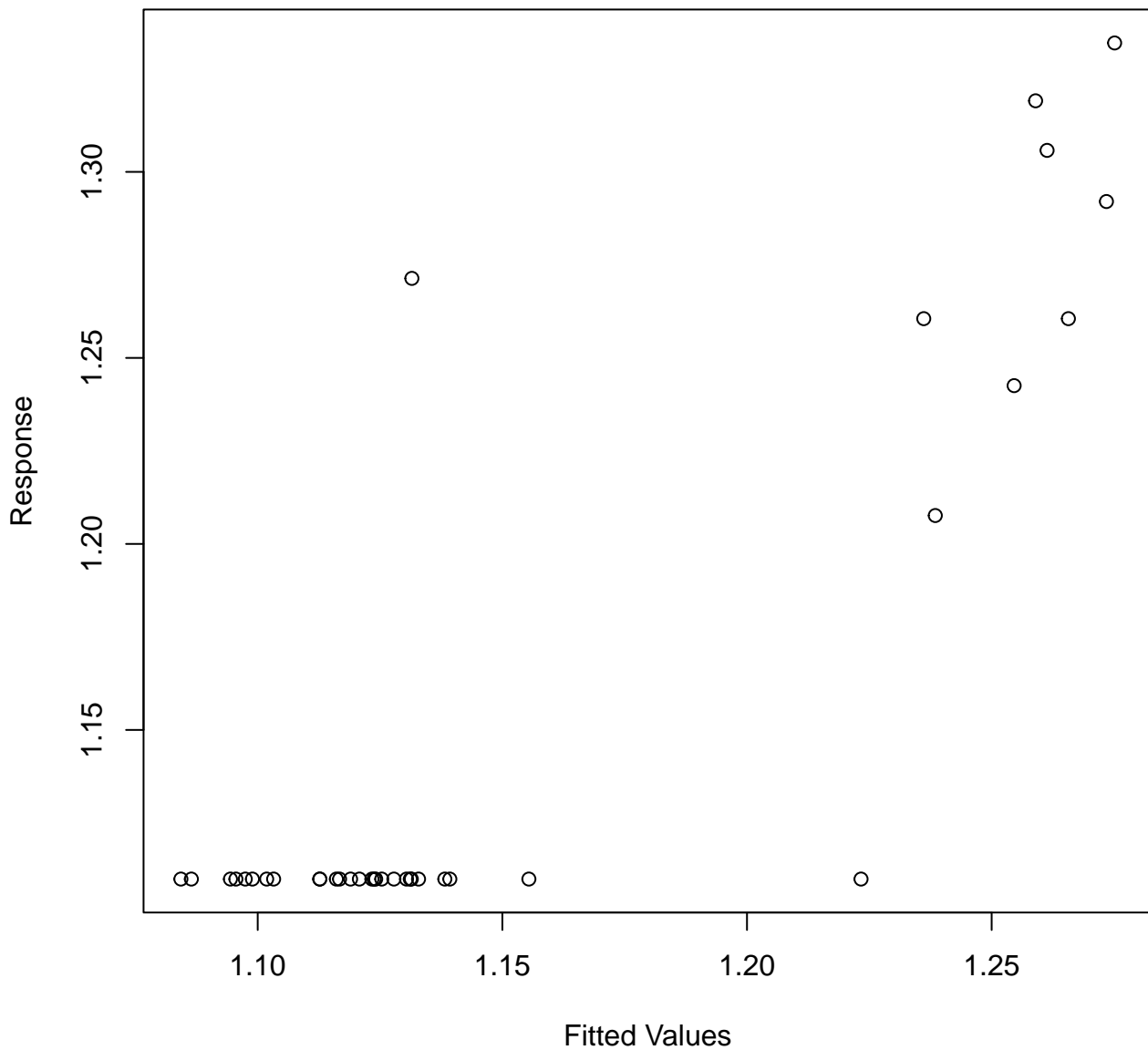
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 10 iterations.
 Gradient range [-2.336543e-05,3.563104e-06]
 (score -58.31492 & scale 0.001747782).
 Hessian positive definite, eigenvalue range [1.338984e-05,18.2209].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.07	0.60
s(cumul_bites_7_previous_days)	3.00	1.00	0.93	0.27
s(ID)	4.00	2.85	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.15172	0.03182	36.2	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	5.005	0.0329 *
s(cumul_bites_7_previous_days)	1.000	1	0.417	0.5233
s(ID)	2.855	3	24.245	<2e-16 ***

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

R-sq.(adj) = 0.696 Deviance explained = 73.8%
-ML = -58.315 Scale est. = 0.0017478 n = 36

AICc [1] -114.8871

Bites in squirrel

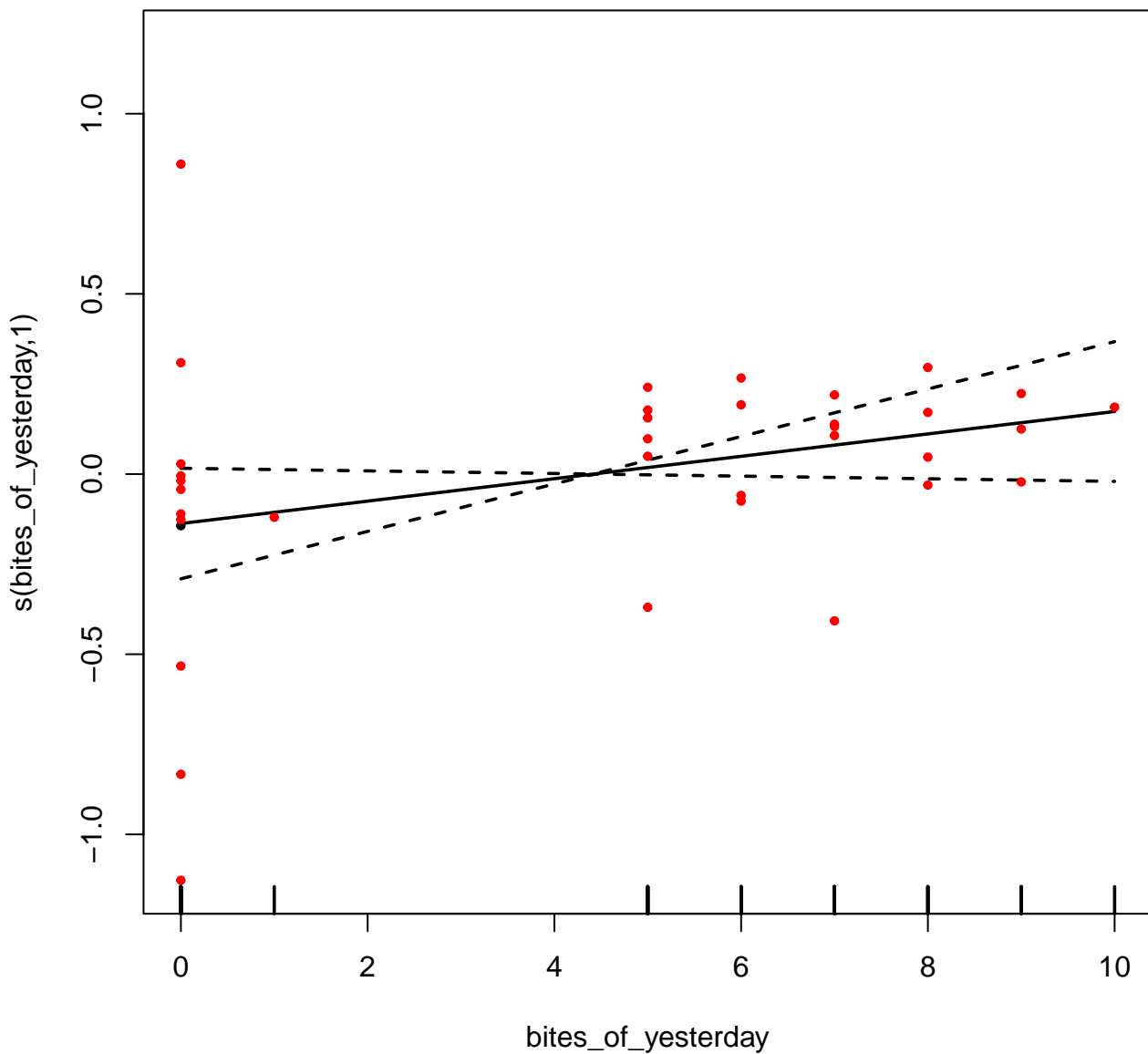
Nb obs : 20

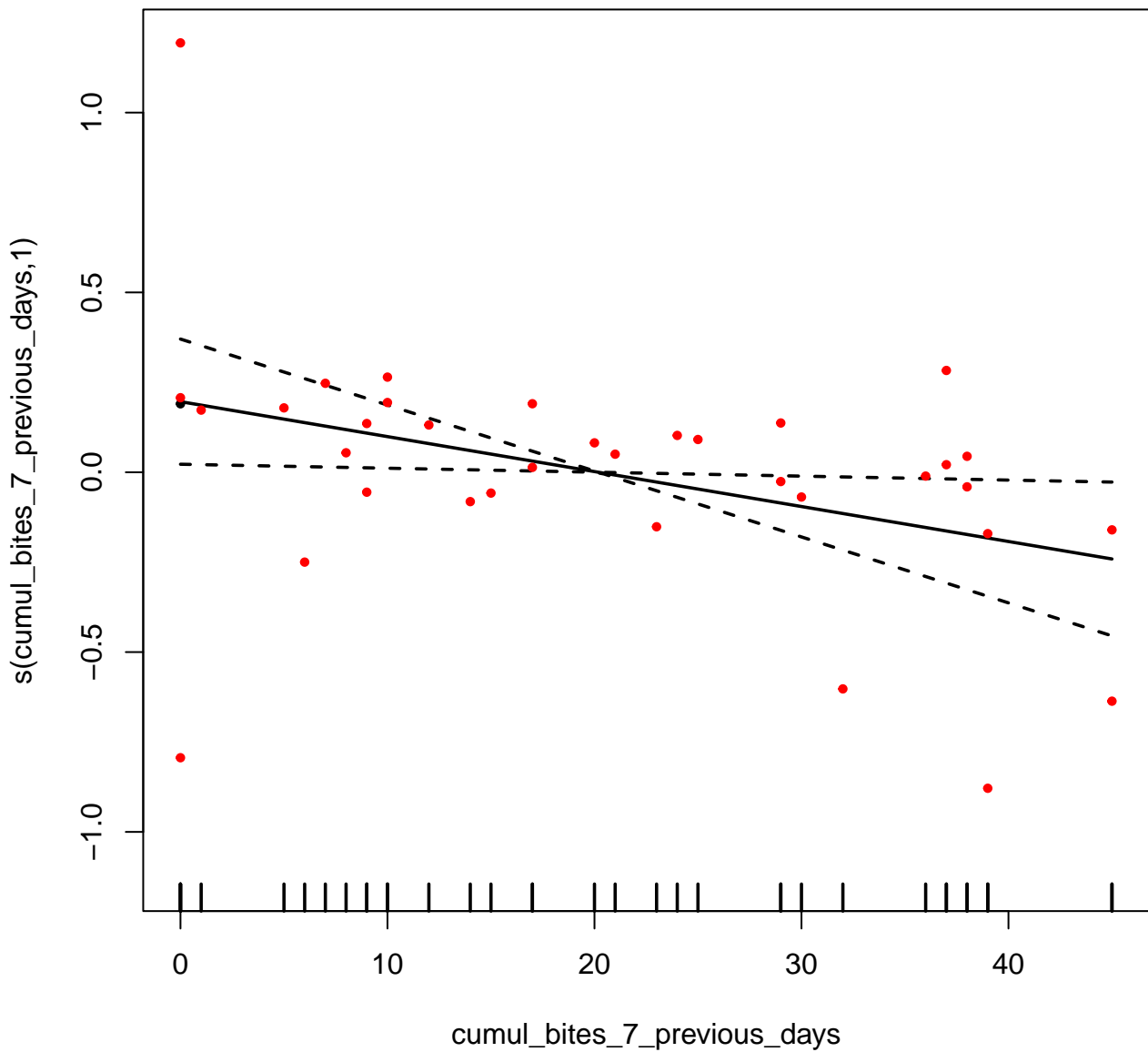
GM.CSF ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

HGF

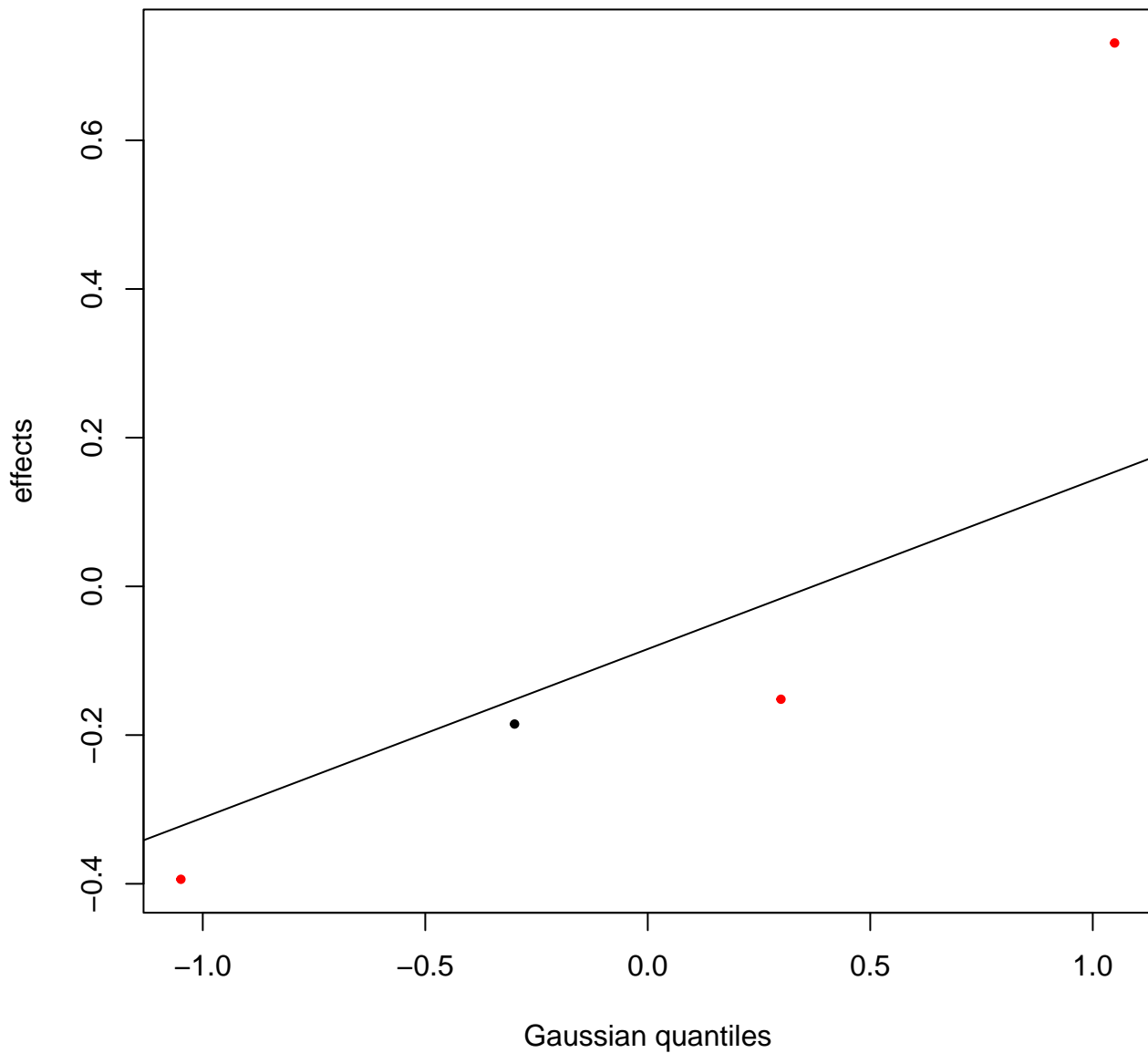
Bites in cyno

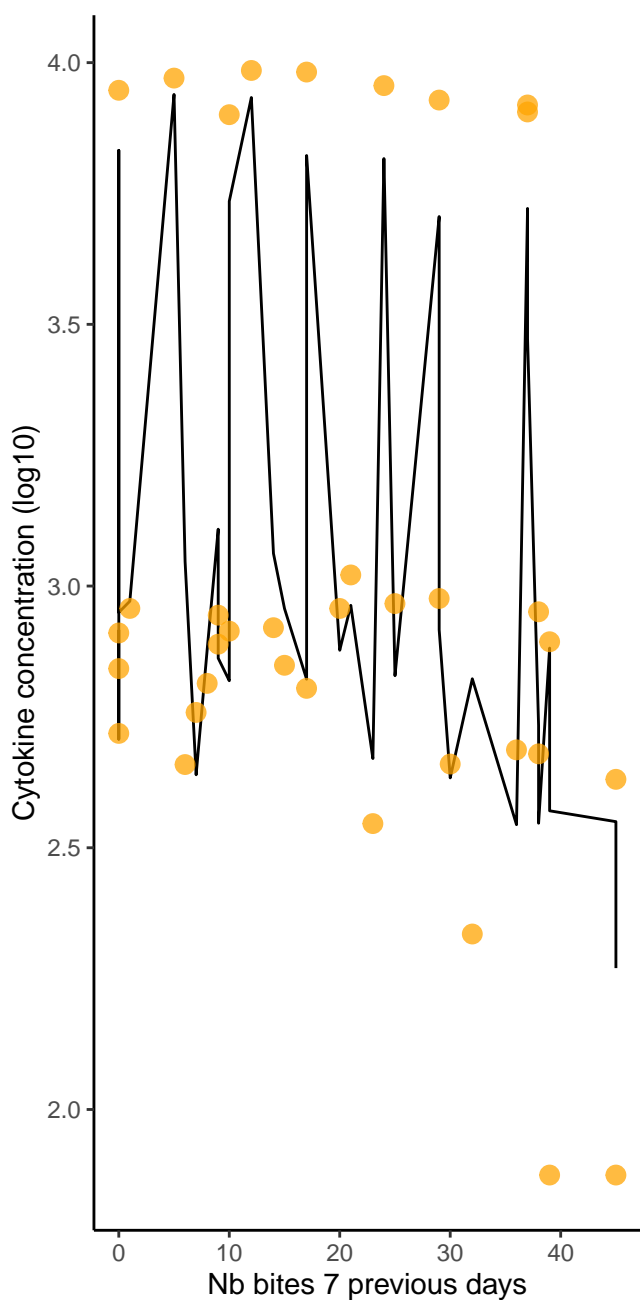
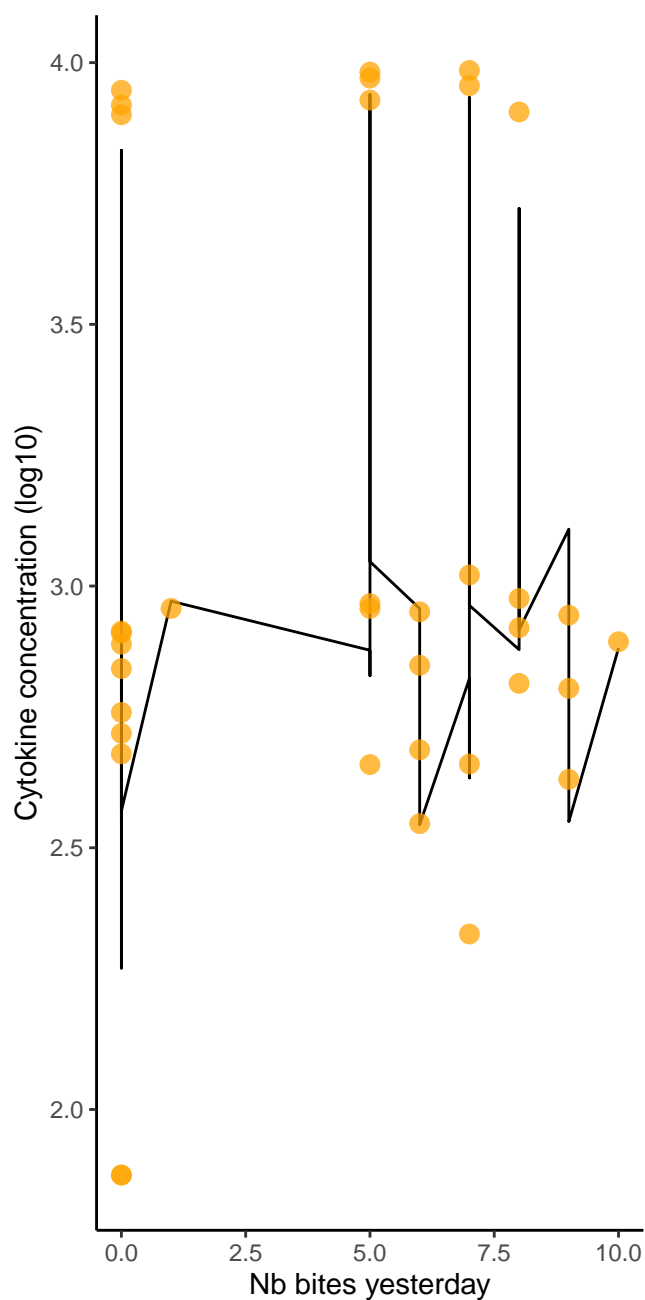
Nb obs : 36

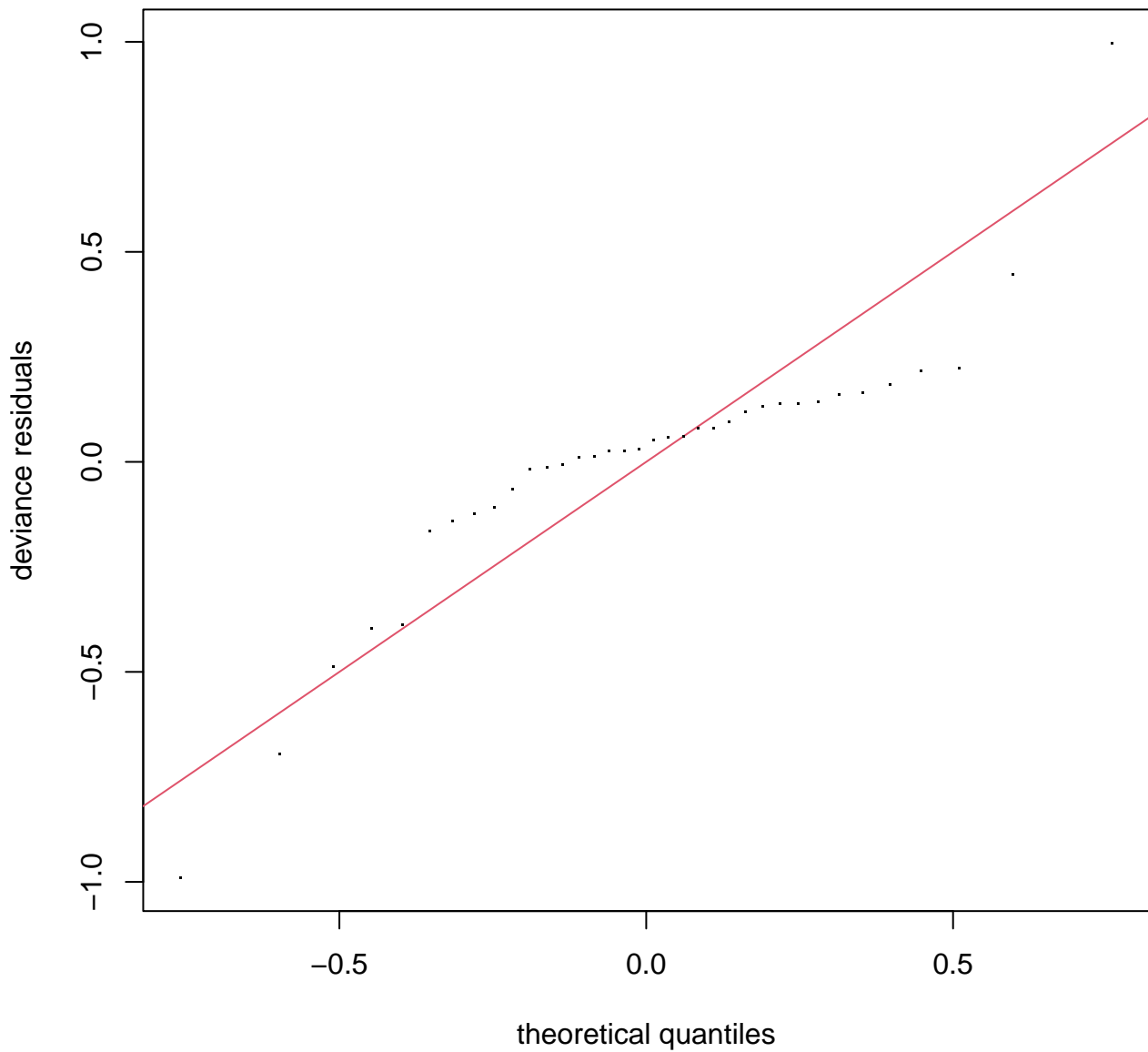




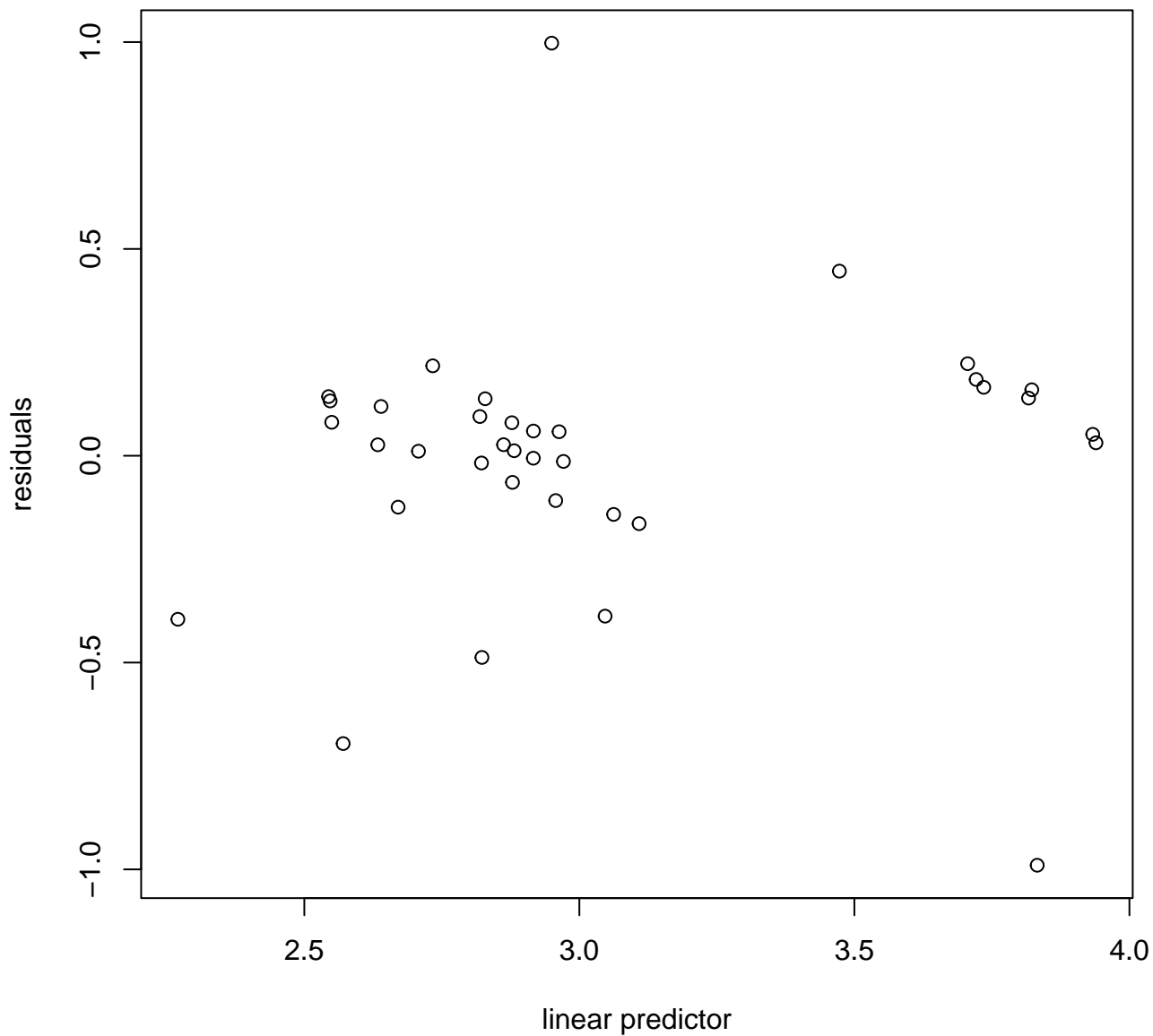
s(ID,2.82)



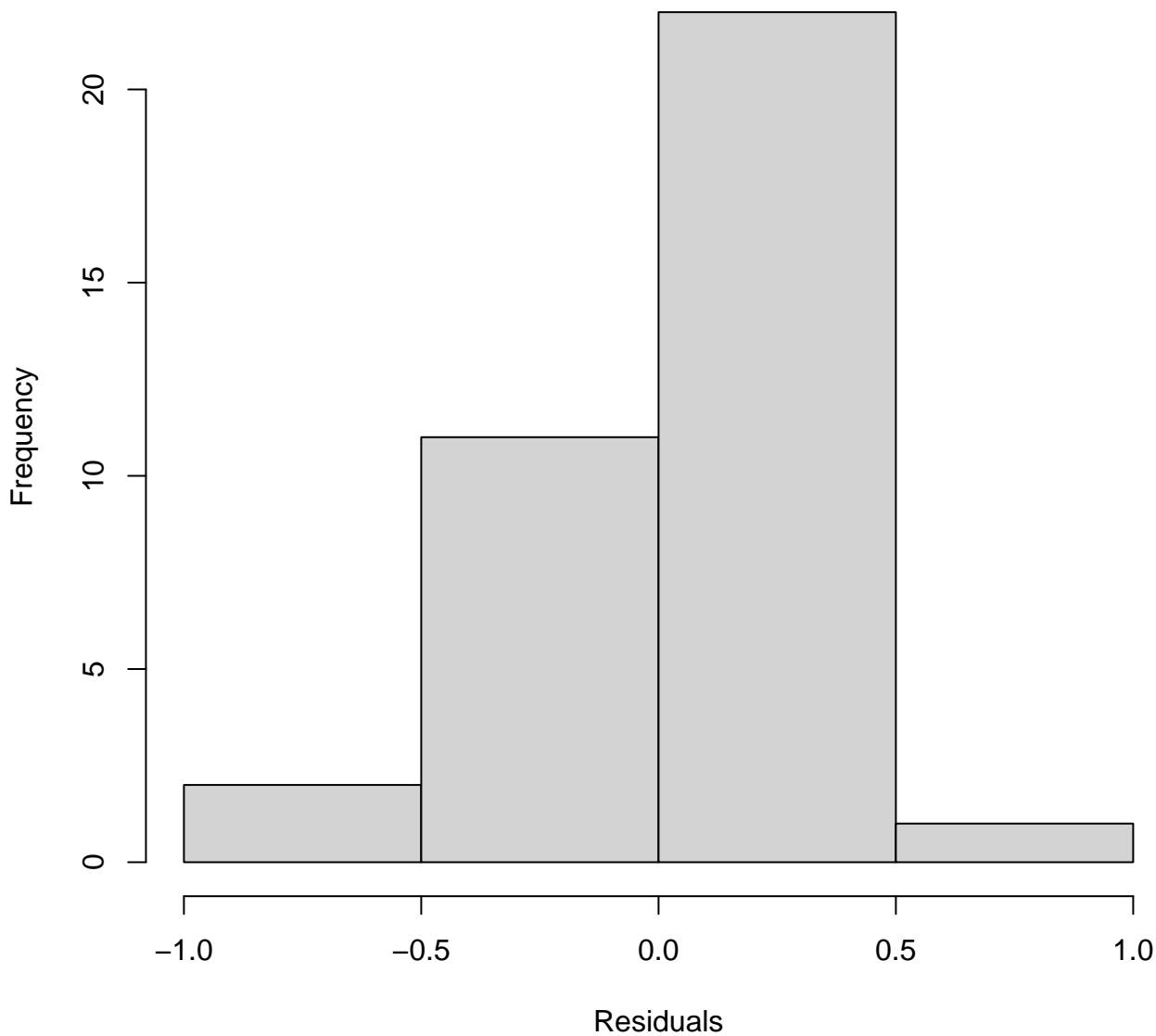




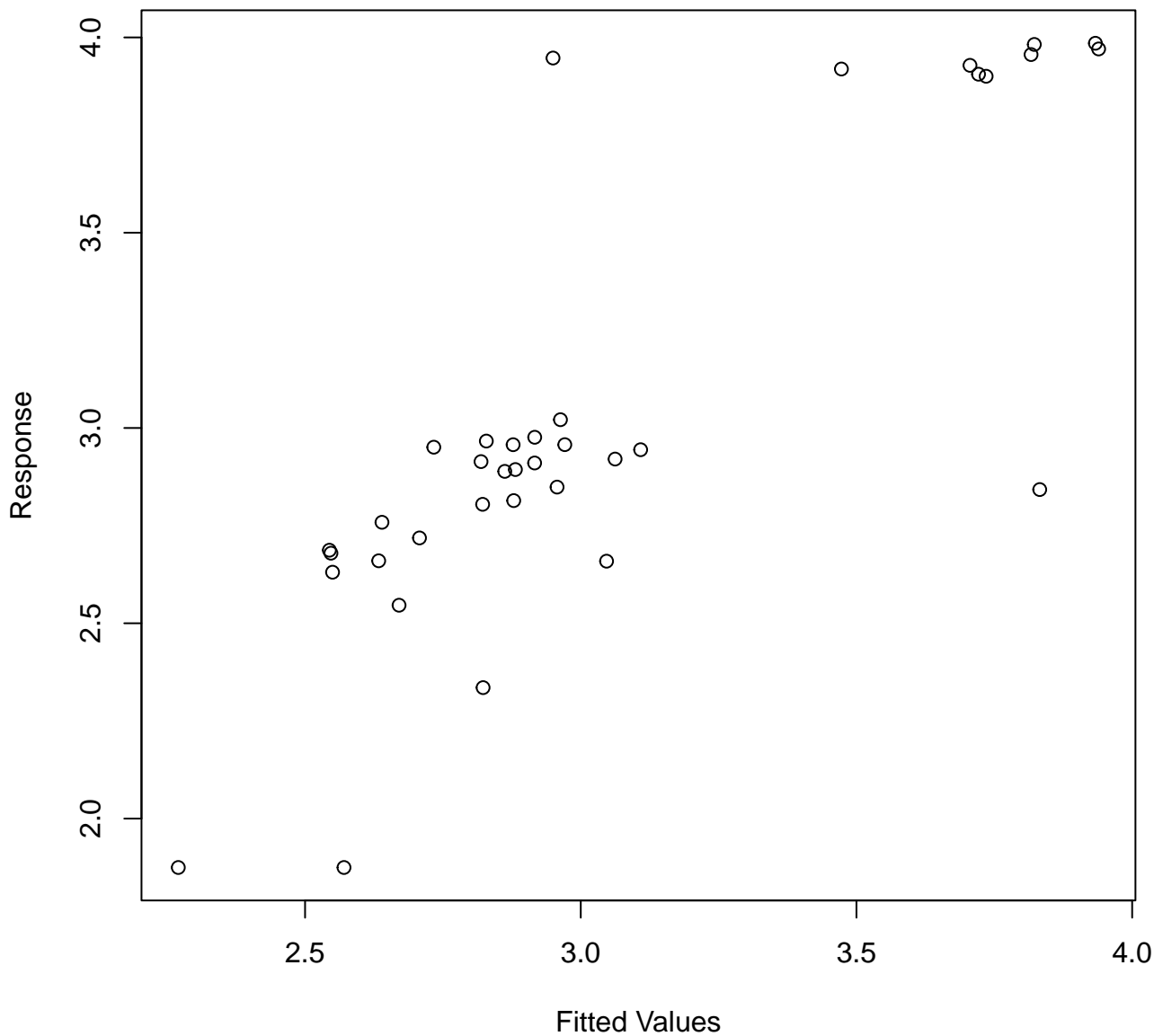
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
full convergence after 13 iterations.
Gradient range [-3.127138e-06,2.829025e-07]
(score 17.24499 & scale 0.1189739).
Hessian positive definite, eigenvalue range [2.205709e-06,18.2155].
Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	0.87	0.15
s(cumul_bites_7_previous_days)	3.00	1.00	1.27	0.94
s(ID)	4.00	2.82	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.0425	0.2372	12.83	9.46e-14 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	3.204	0.0836 .
s(cumul_bites_7_previous_days)	1.000	1	5.087	0.0316 *
s(ID)	2.822	3	19.855	4.04e-07 ***

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

R-sq.(adj) = 0.654 Deviance explained = 70.1%
-ML = 17.245 Scale est. = 0.11897 n = 36

```
AICc [1] 37.06418
```

Bites in squirrel

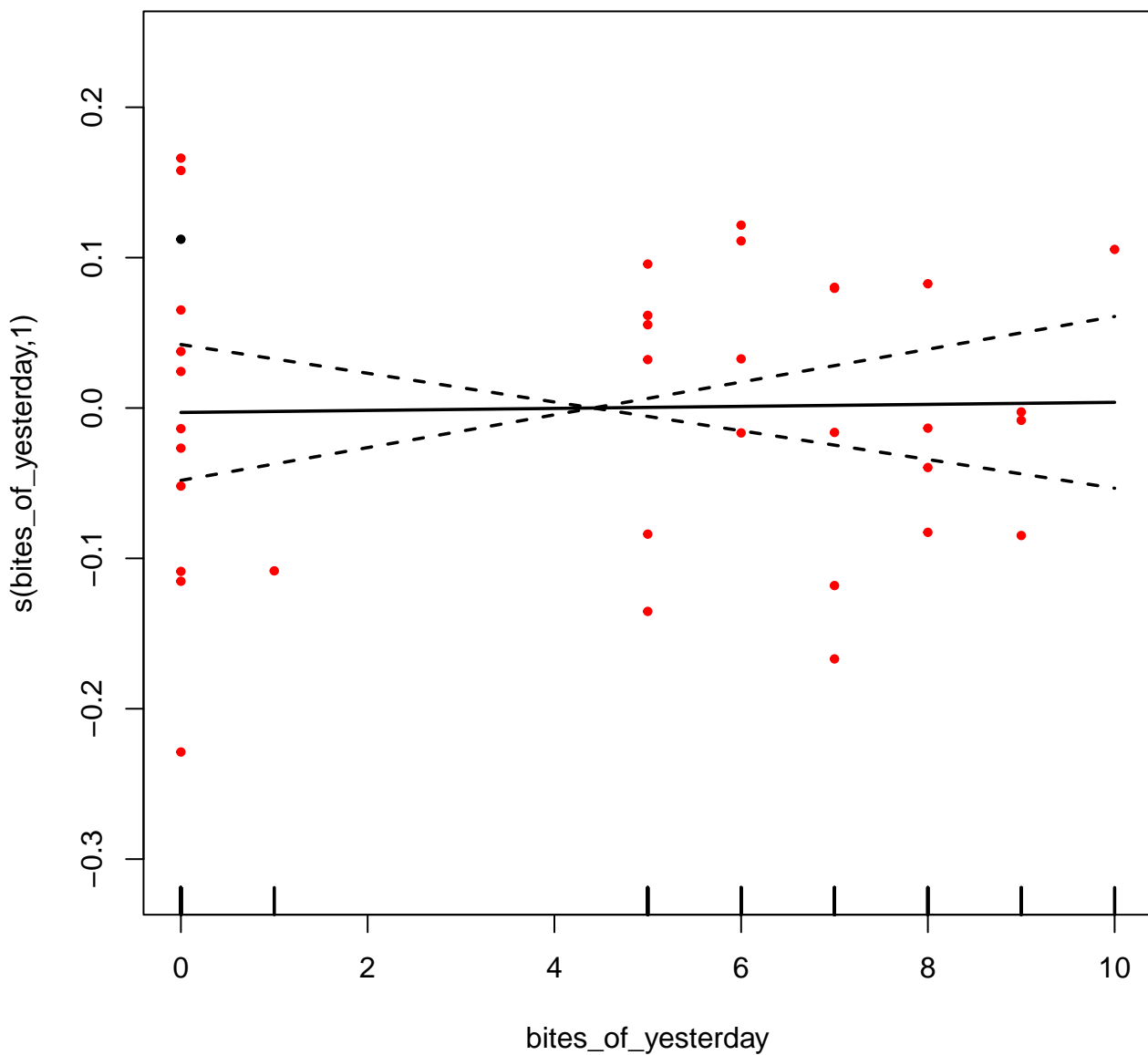
Nb obs : 20

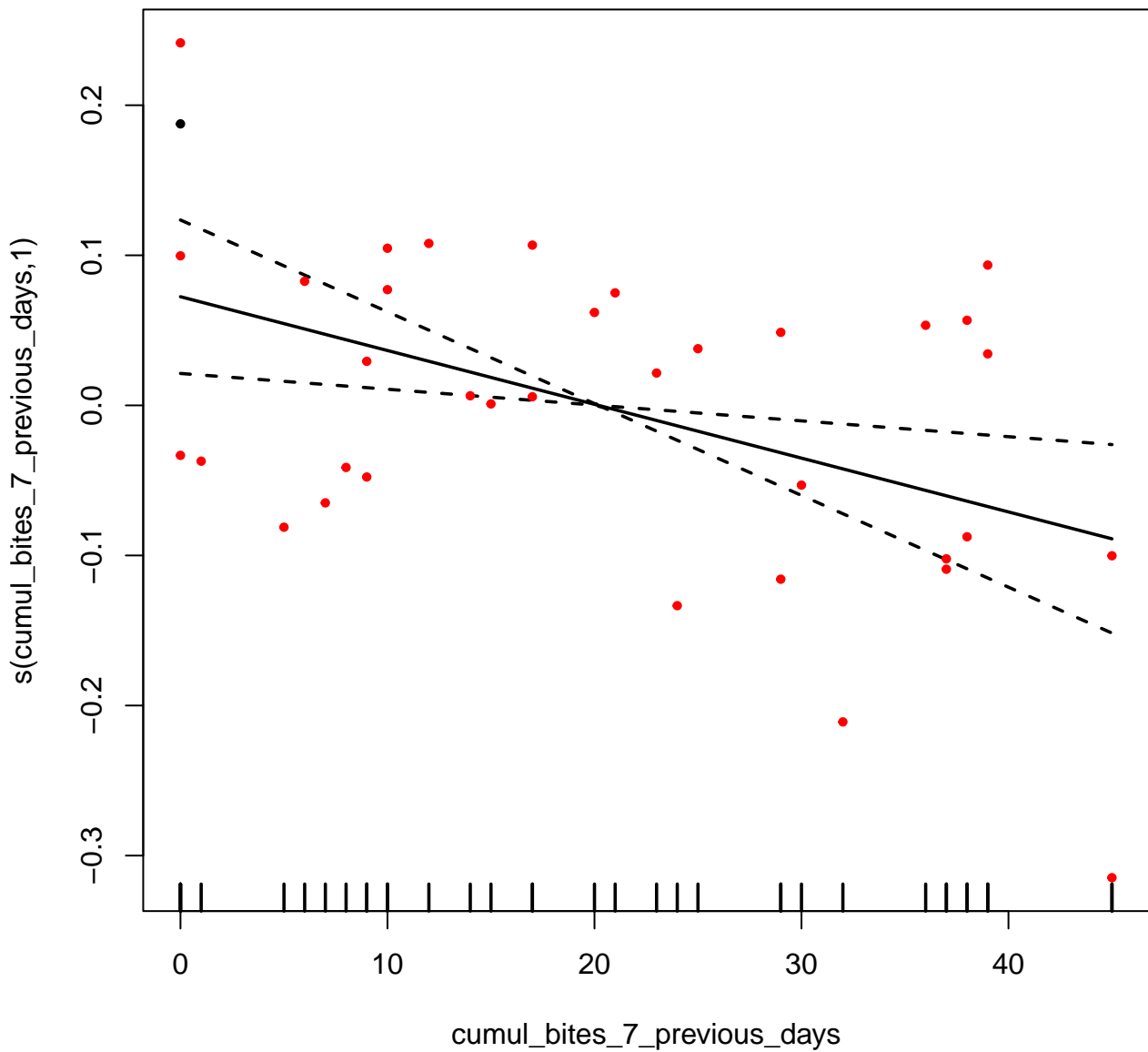
HGF ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

I . TAC

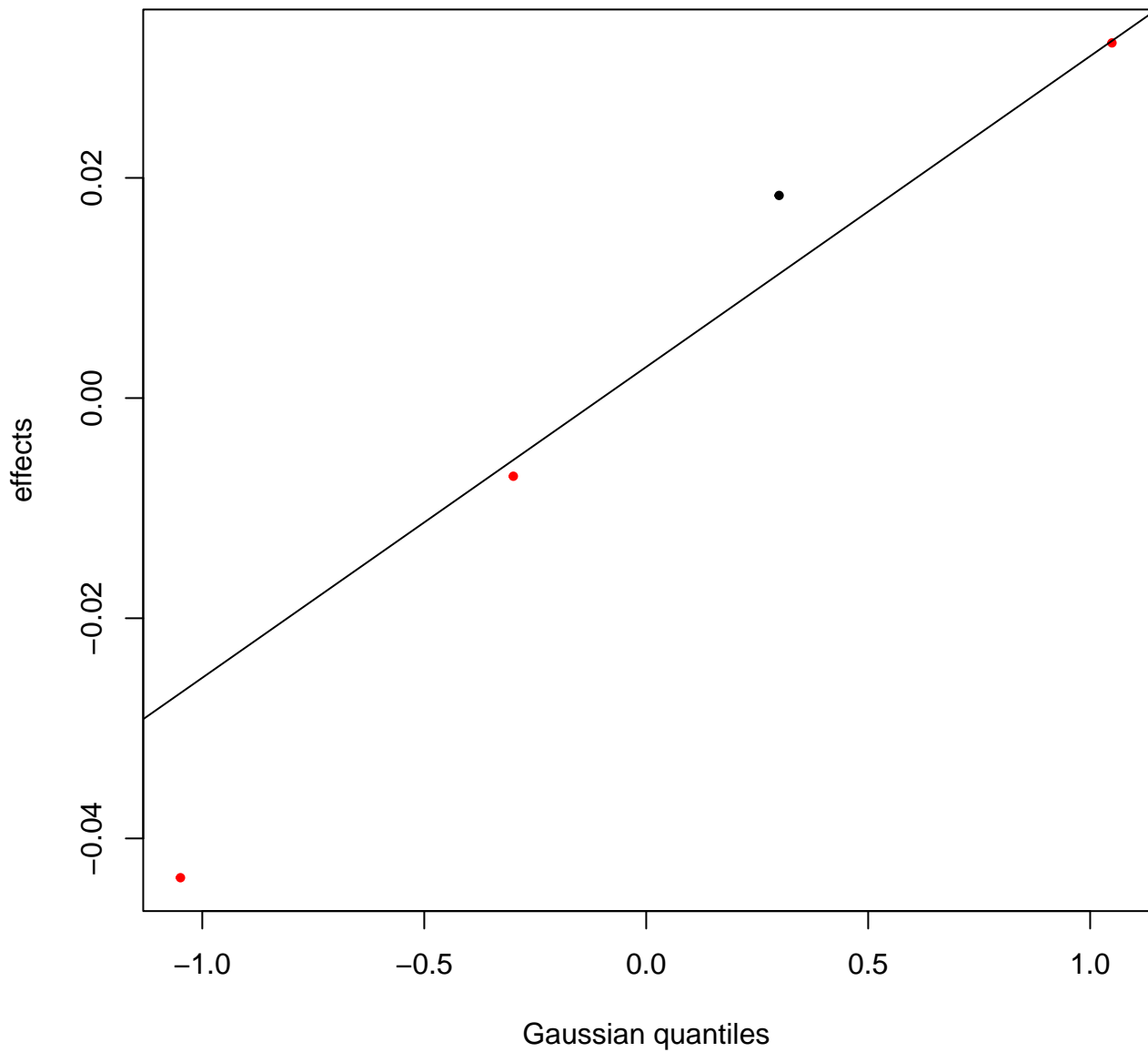
Bites in cyno

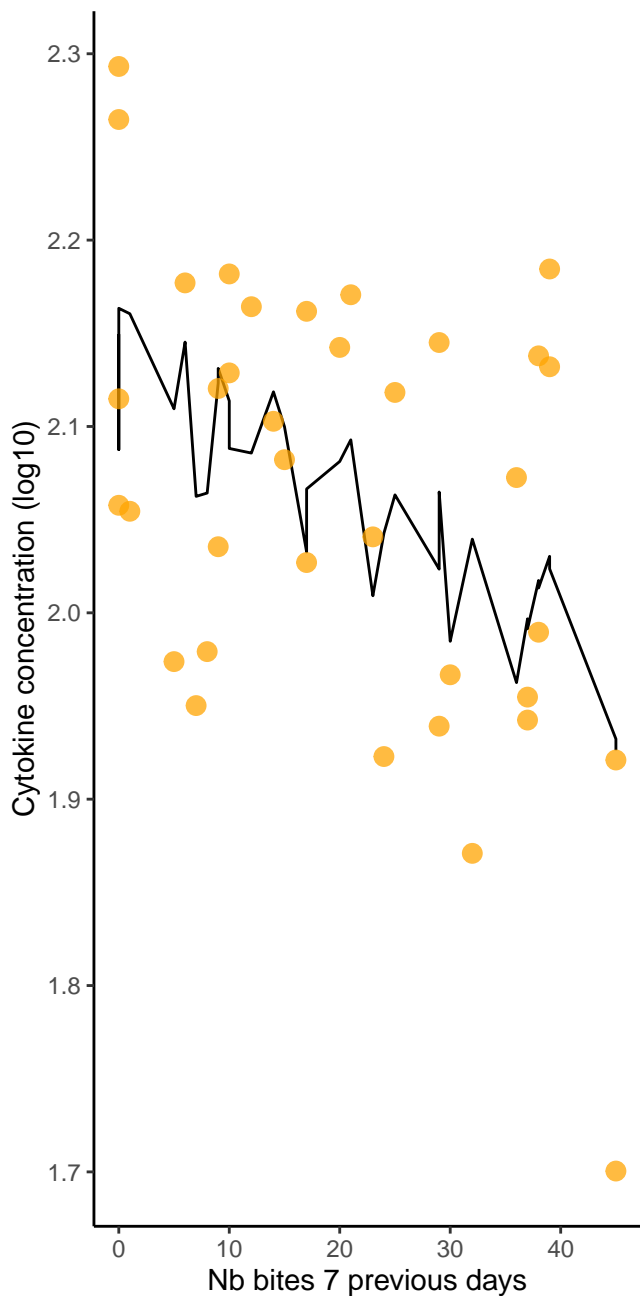
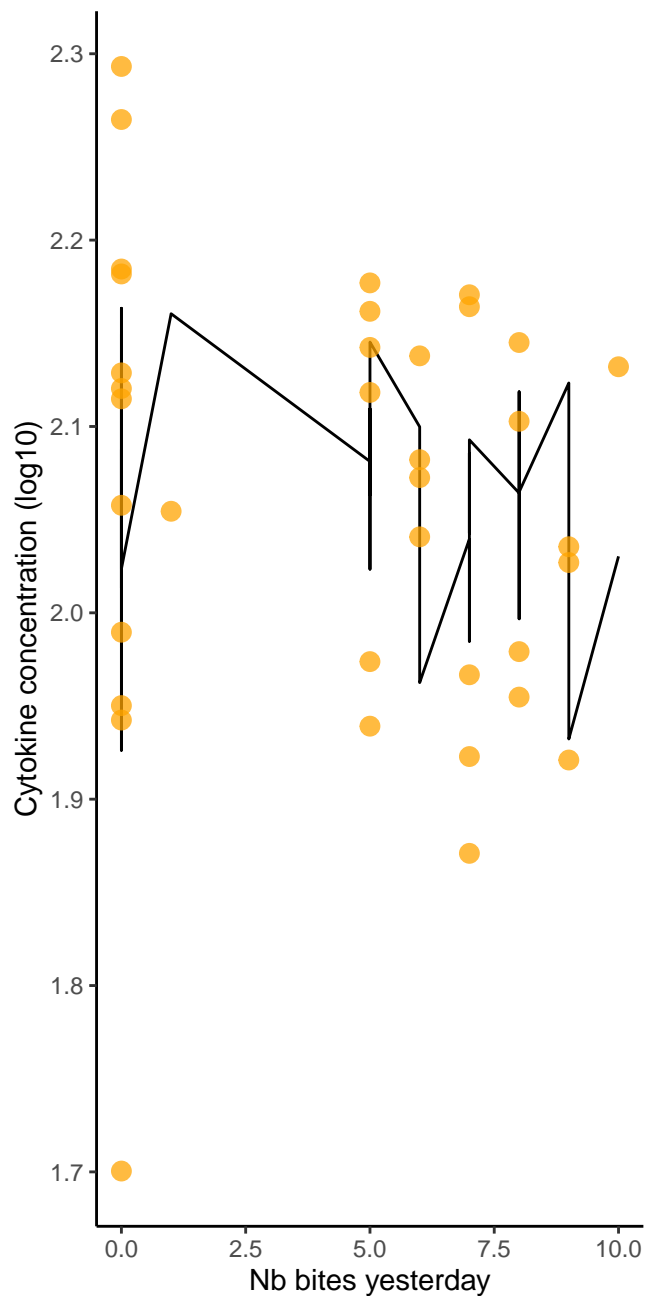
Nb obs : 36

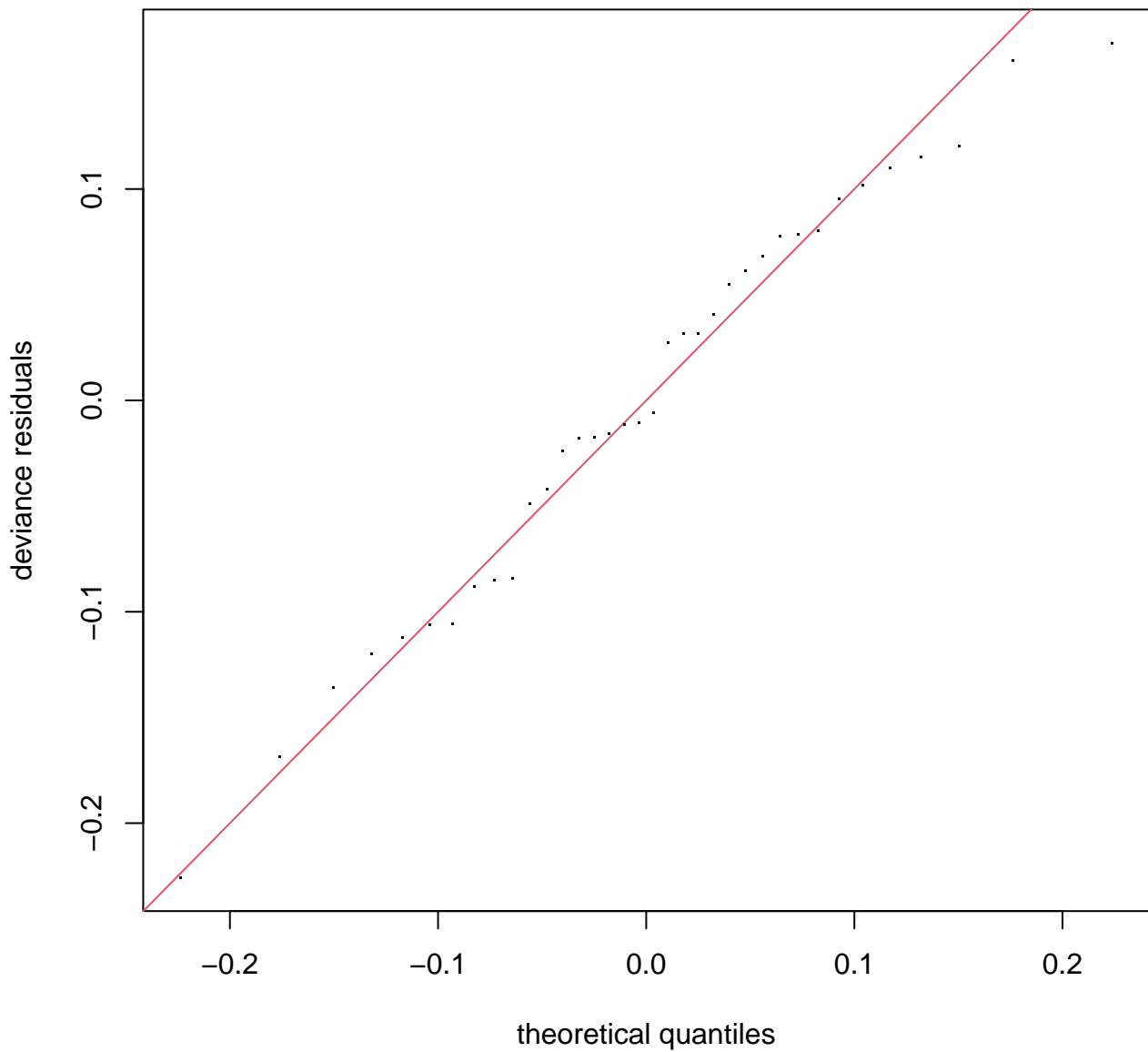




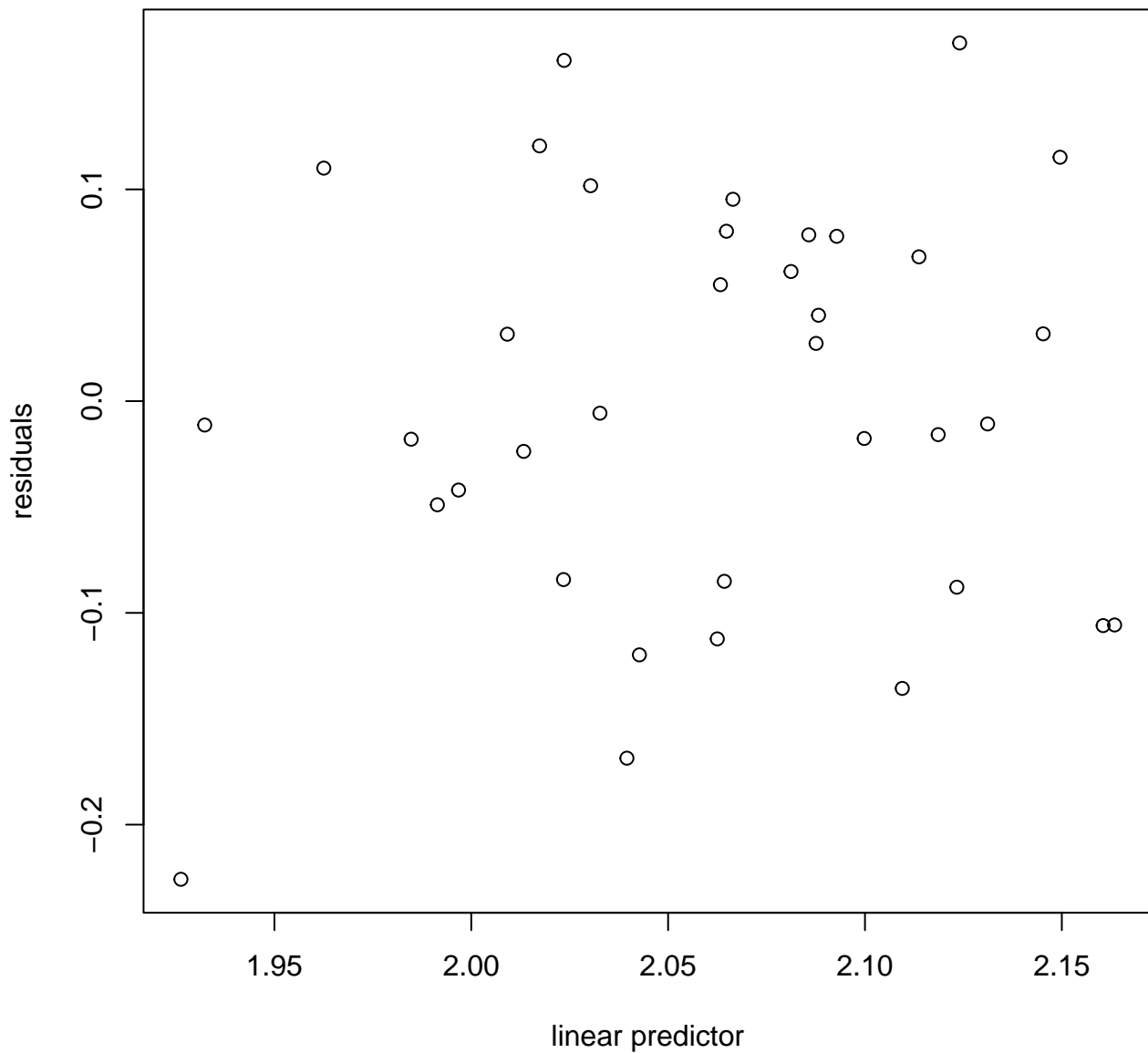
s(ID,1.72)



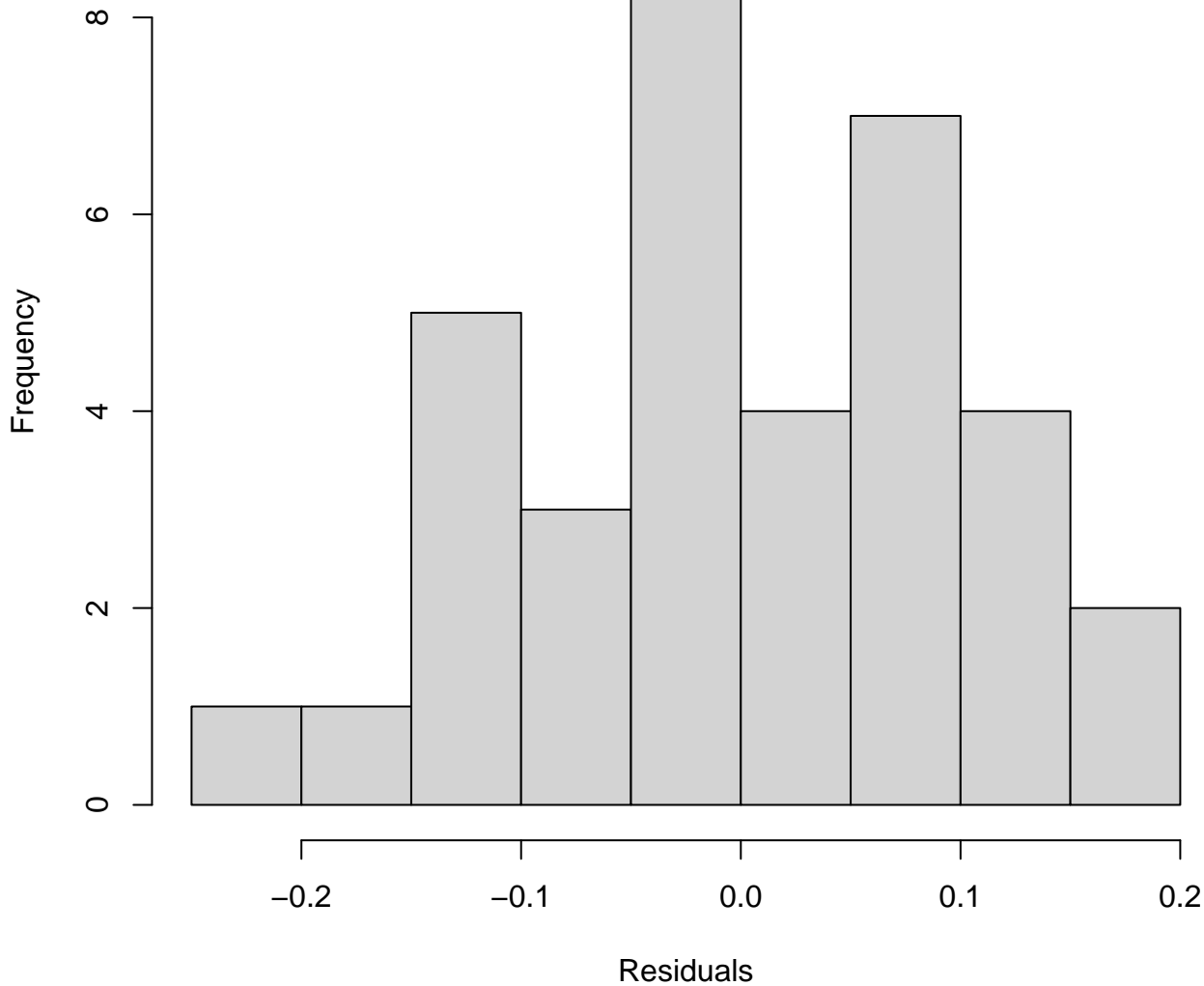




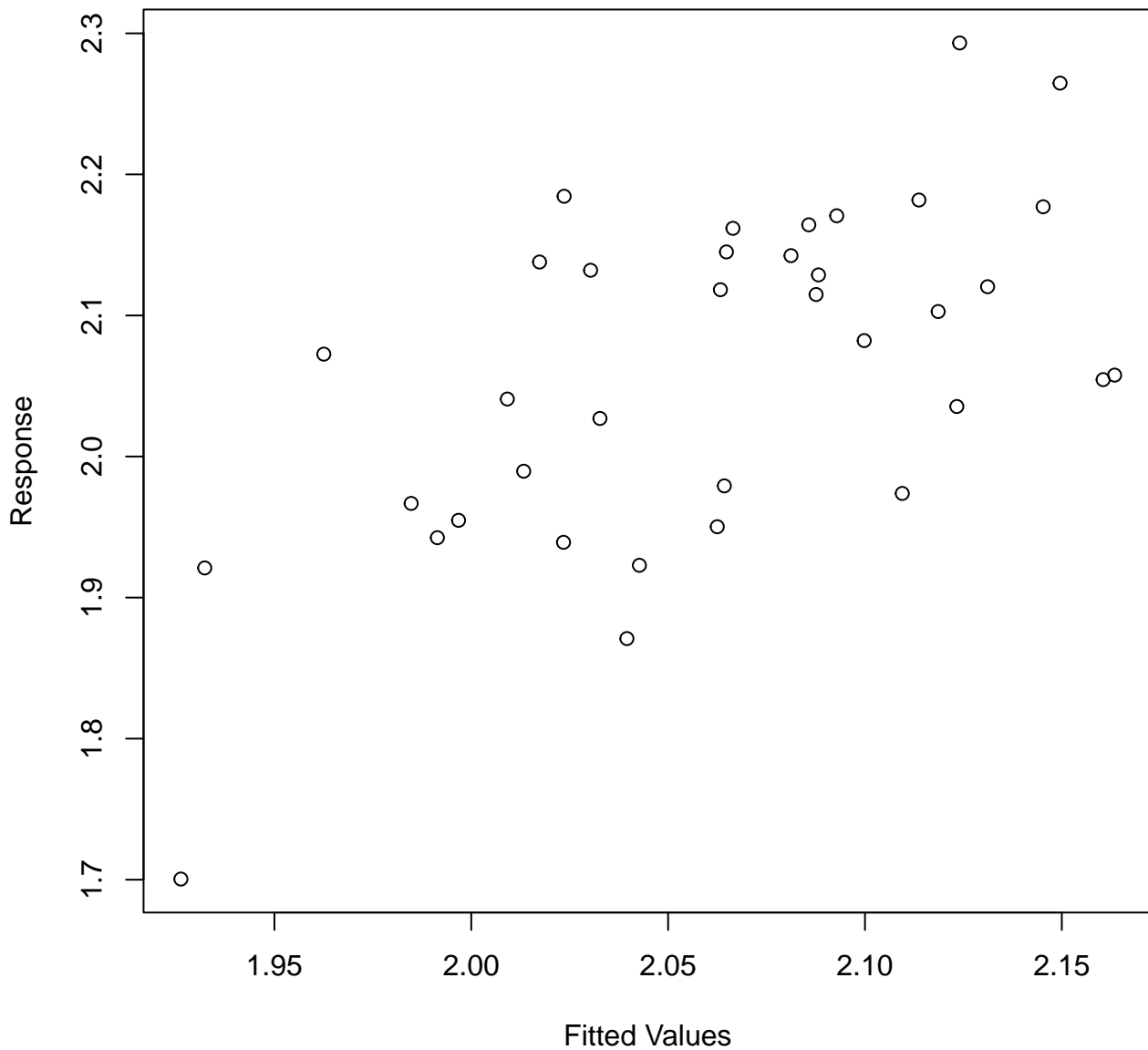
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 11 iterations.
 Gradient range [-9.919645e-06,5.394079e-07]
 (score -30.83559 & scale 0.01034001).
 Hessian positive definite, eigenvalue range [4.613939e-06,18.07603].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.29	0.93
s(cumul_bites_7_previous_days)	3.00	1.00	0.90	0.24
s(ID)	4.00	1.72	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.06172	0.02601	79.26	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.017	0.89635
s(cumul_bites_7_previous_days)	1.000	1	8.022	0.00805 **
s(ID)	1.719	3	1.661	0.05069 .

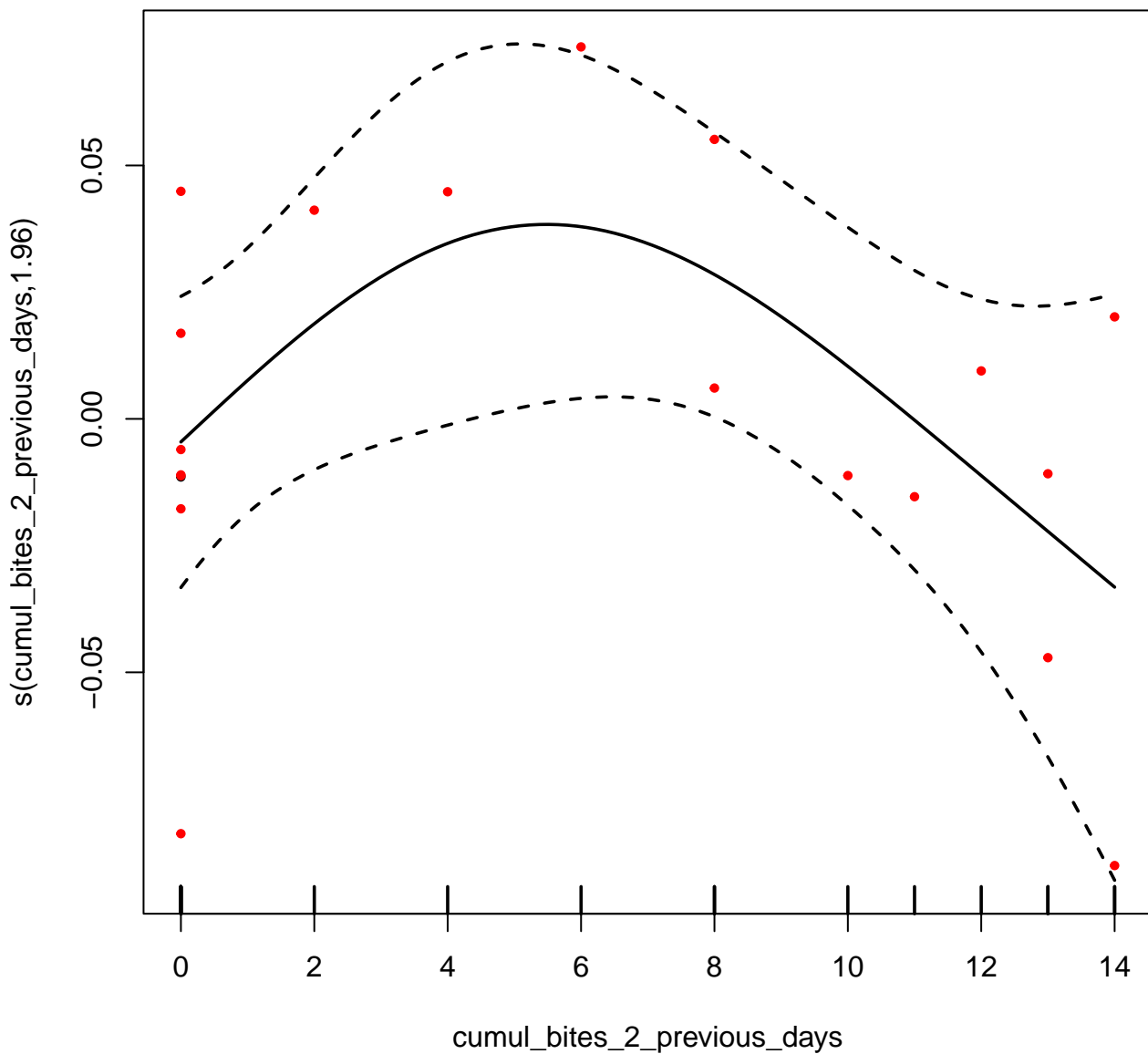
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

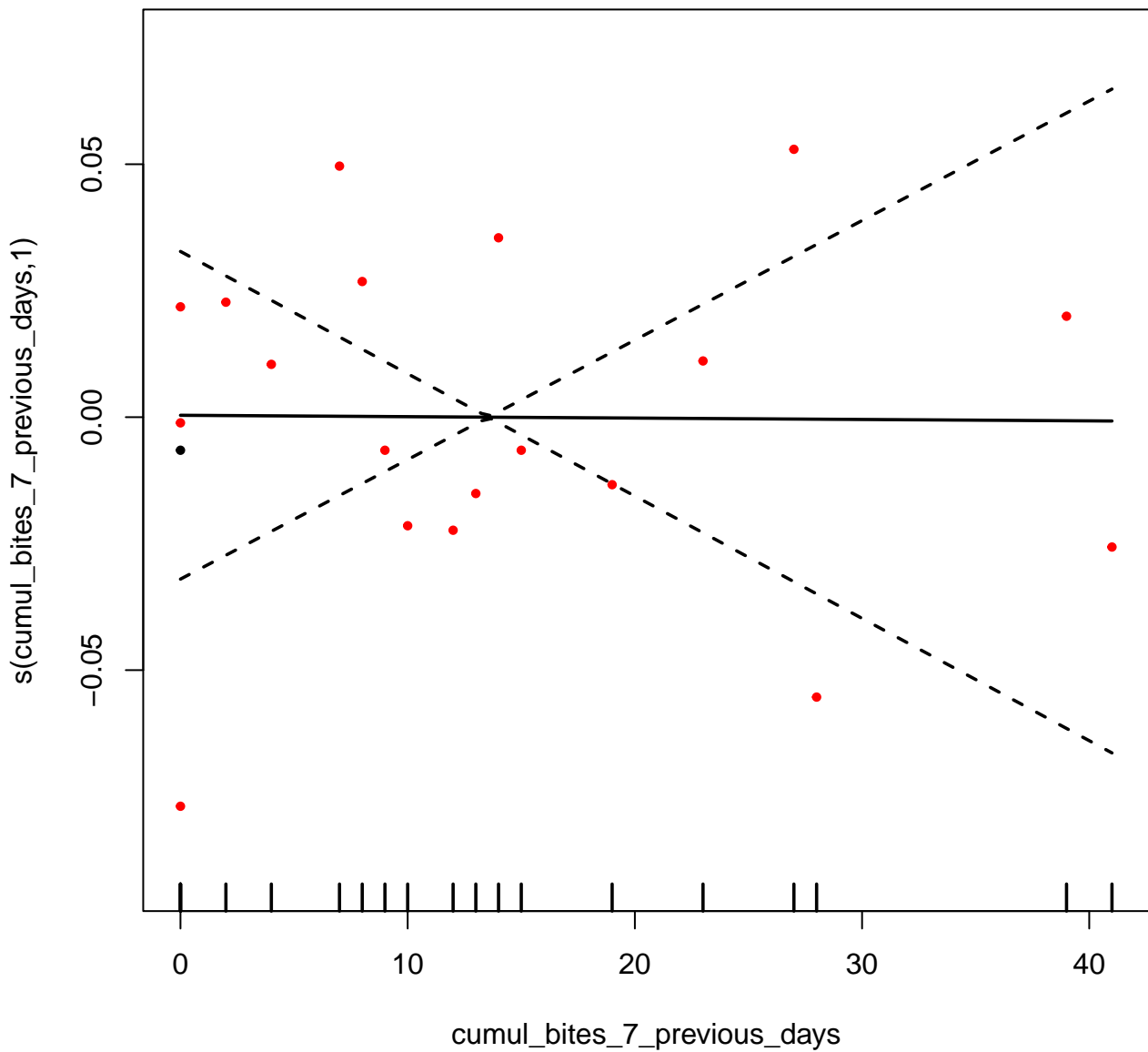
R-sq.(adj) = 0.277 Deviance explained = 35.4%
-ML = -30.836 Scale est. = 0.01034 n = 36

AICc [1] -51.20138

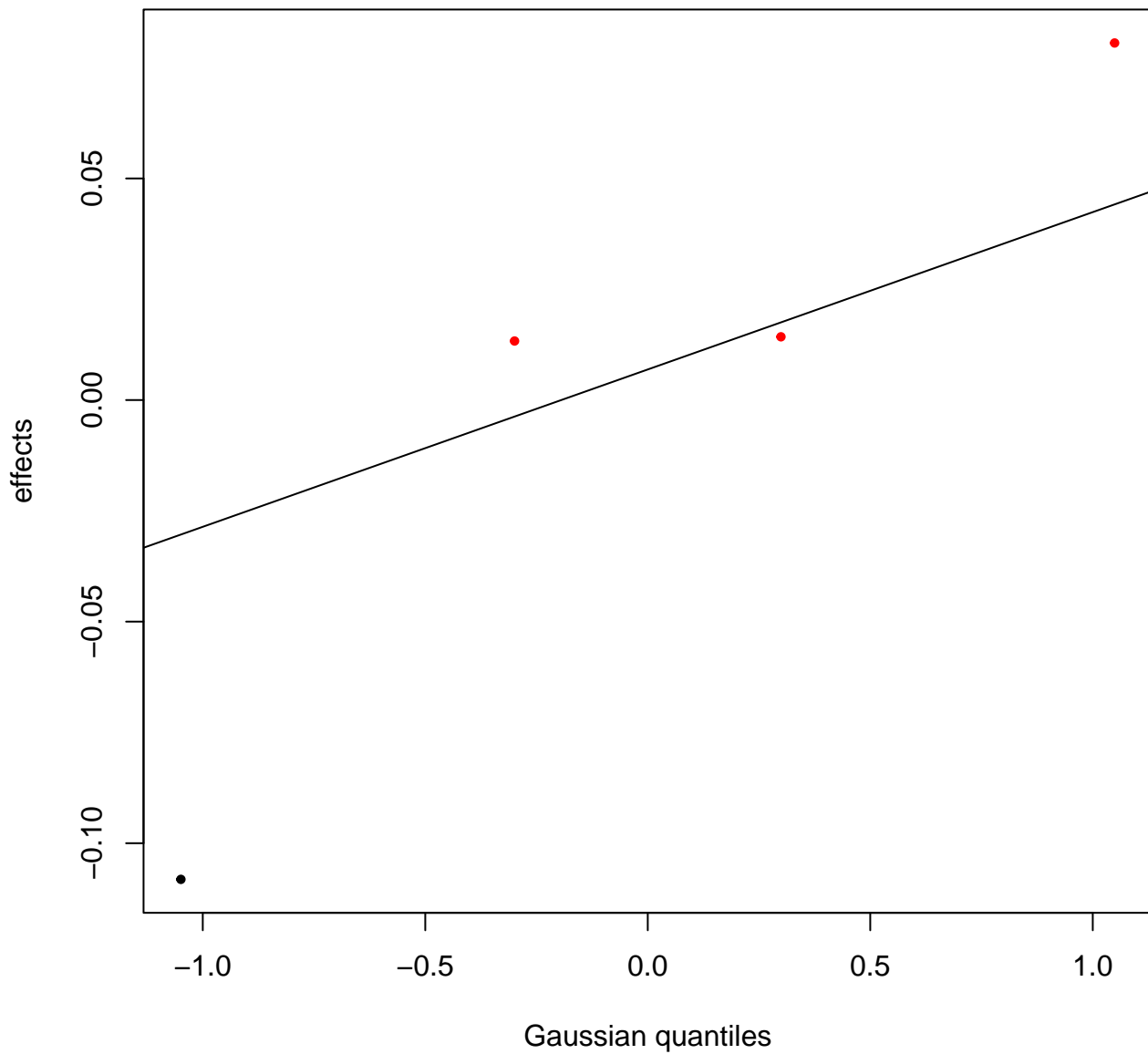
Bites in squirrel

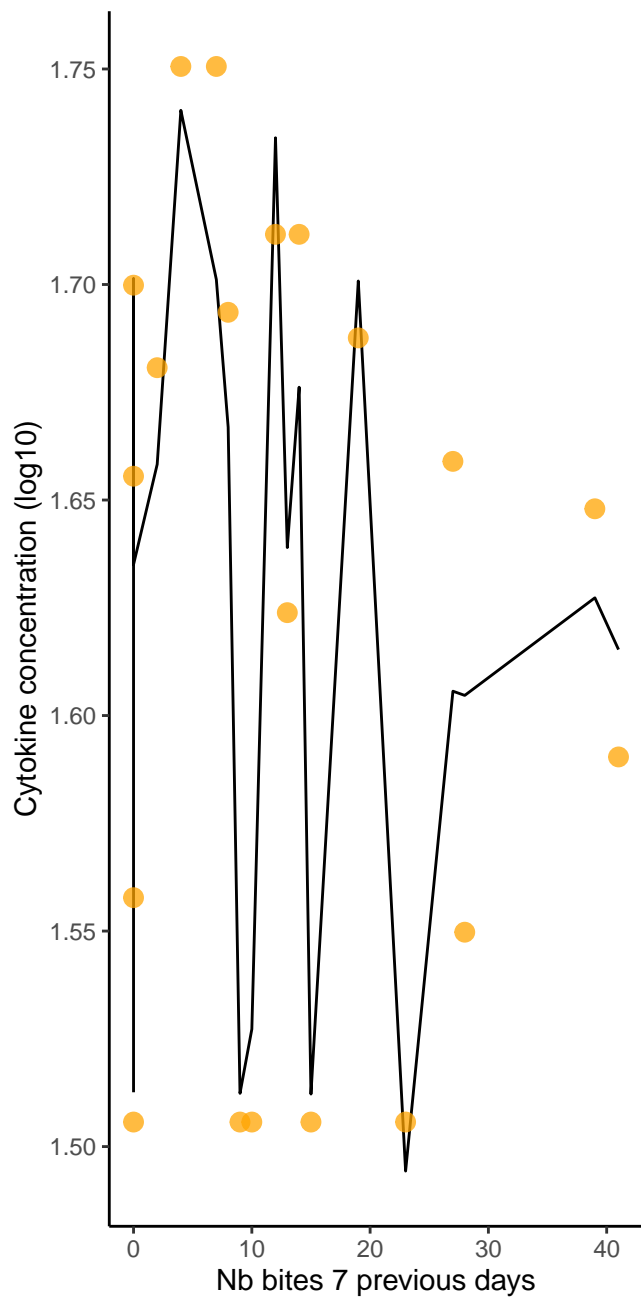
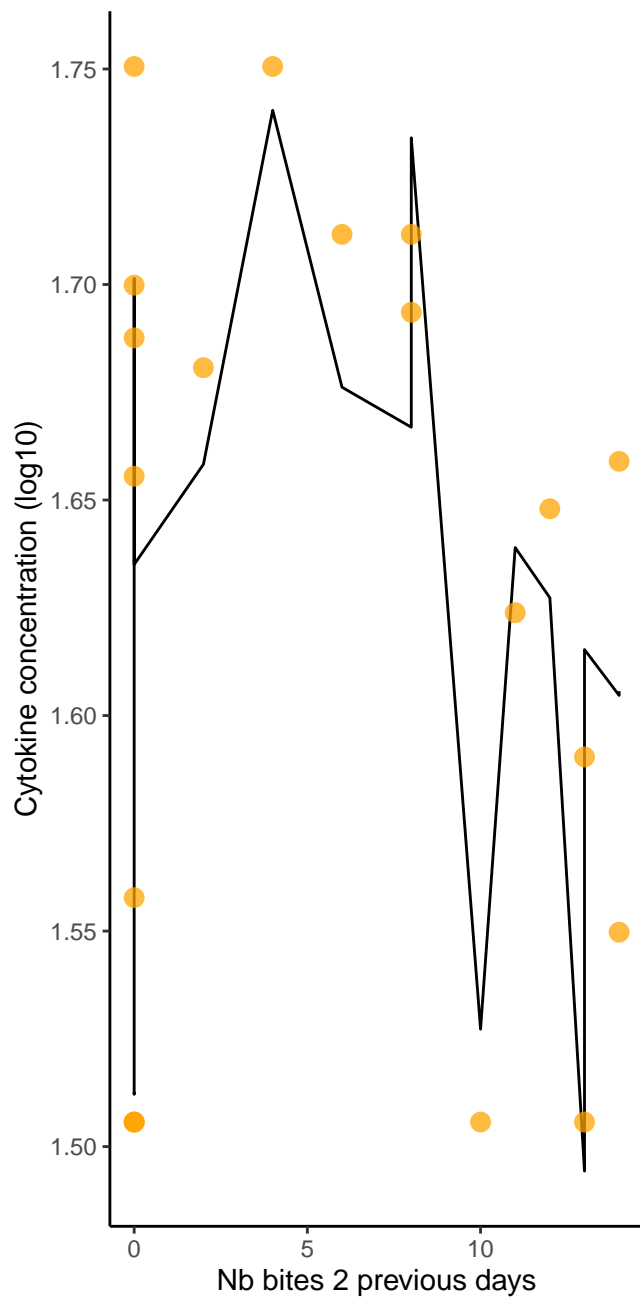
Nb obs : 20

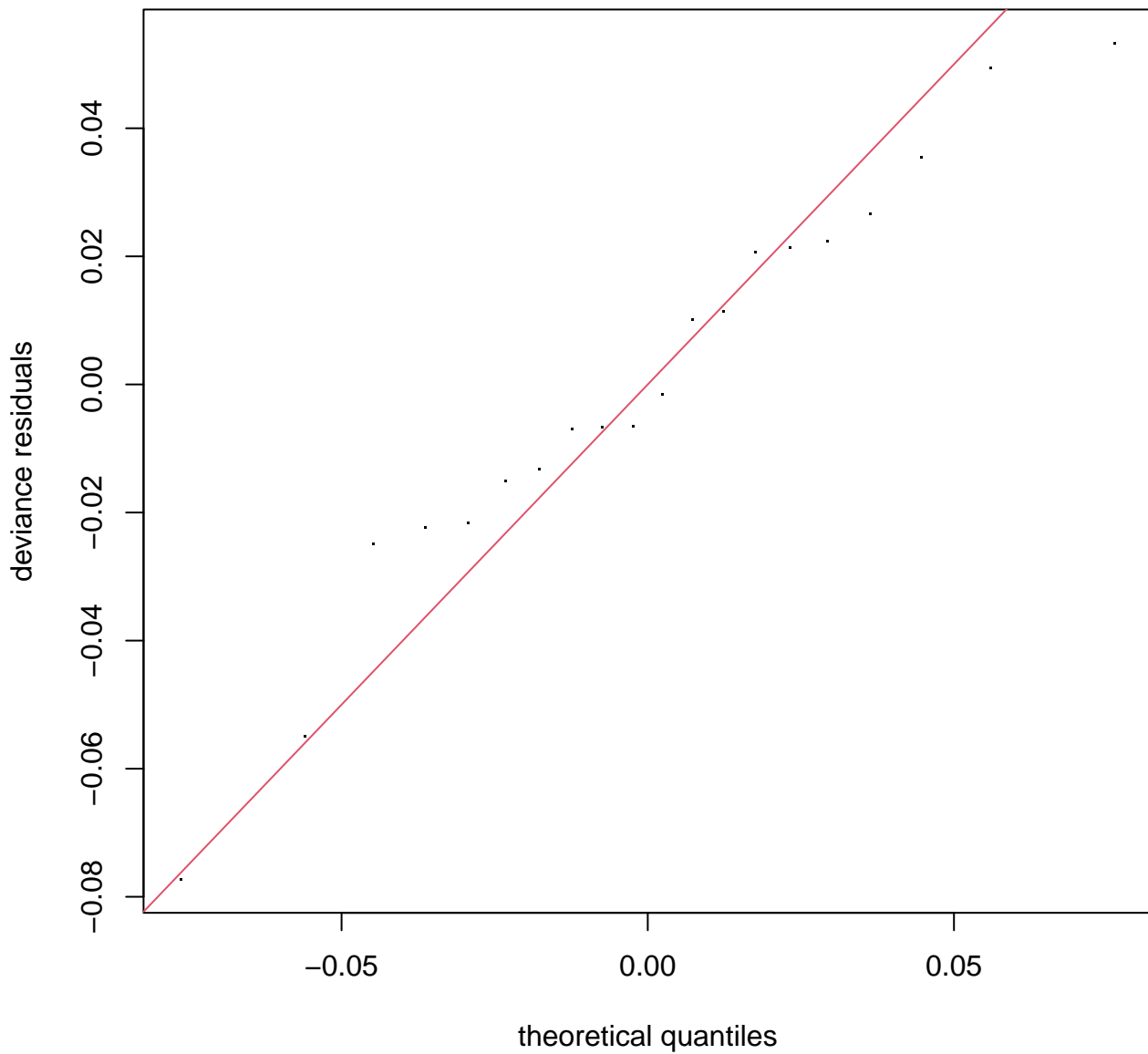




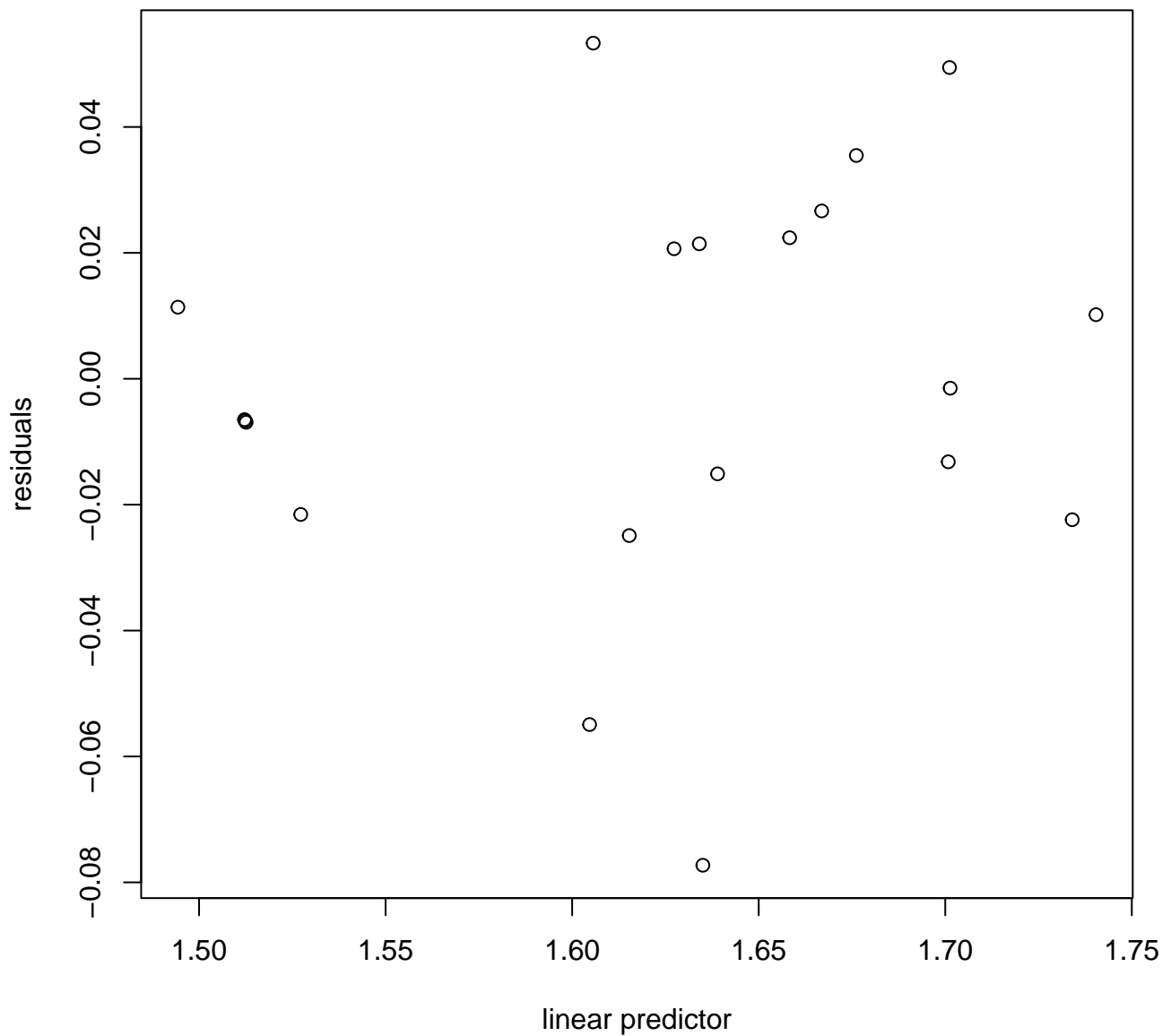
s(ID,2.82)



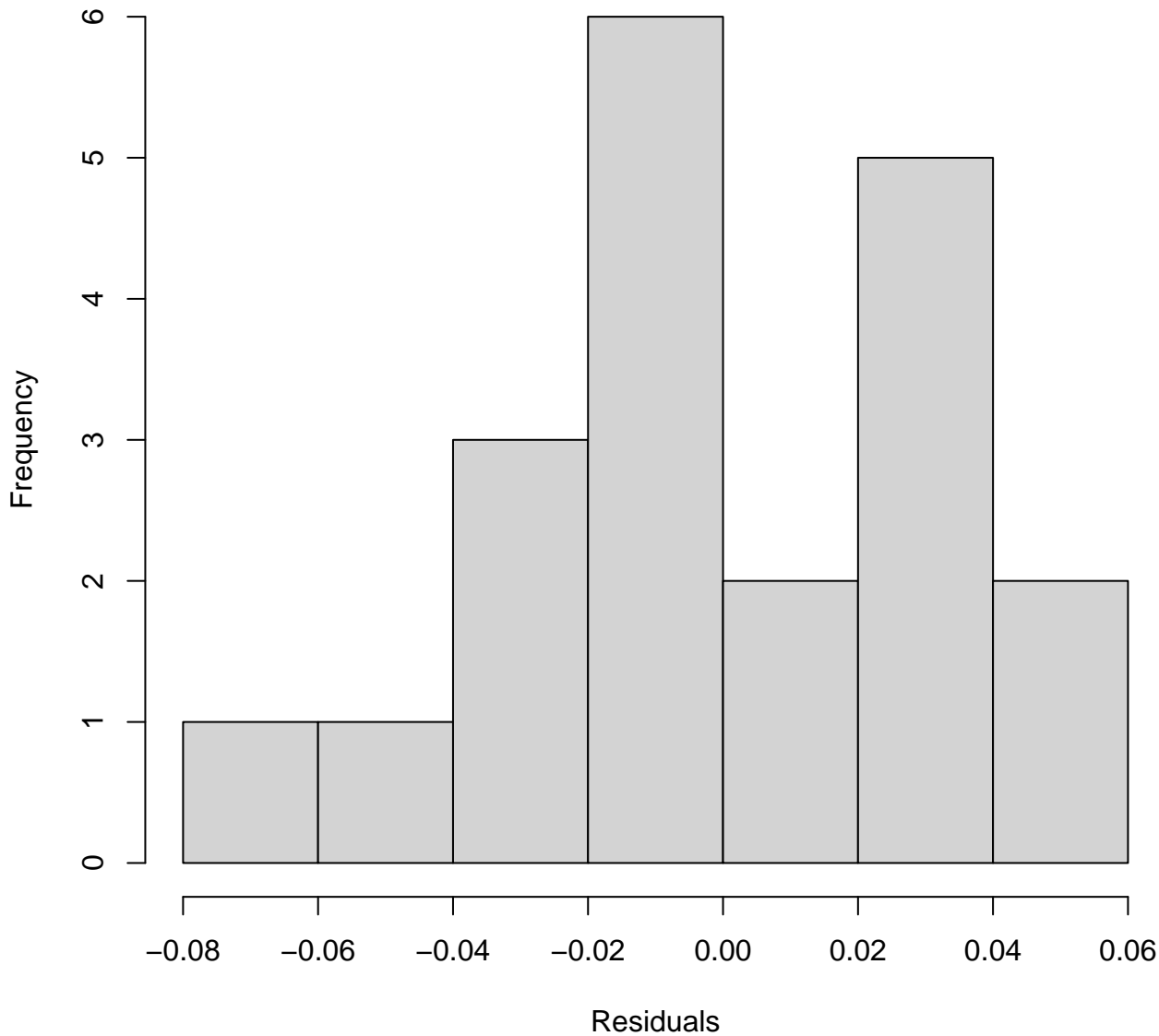




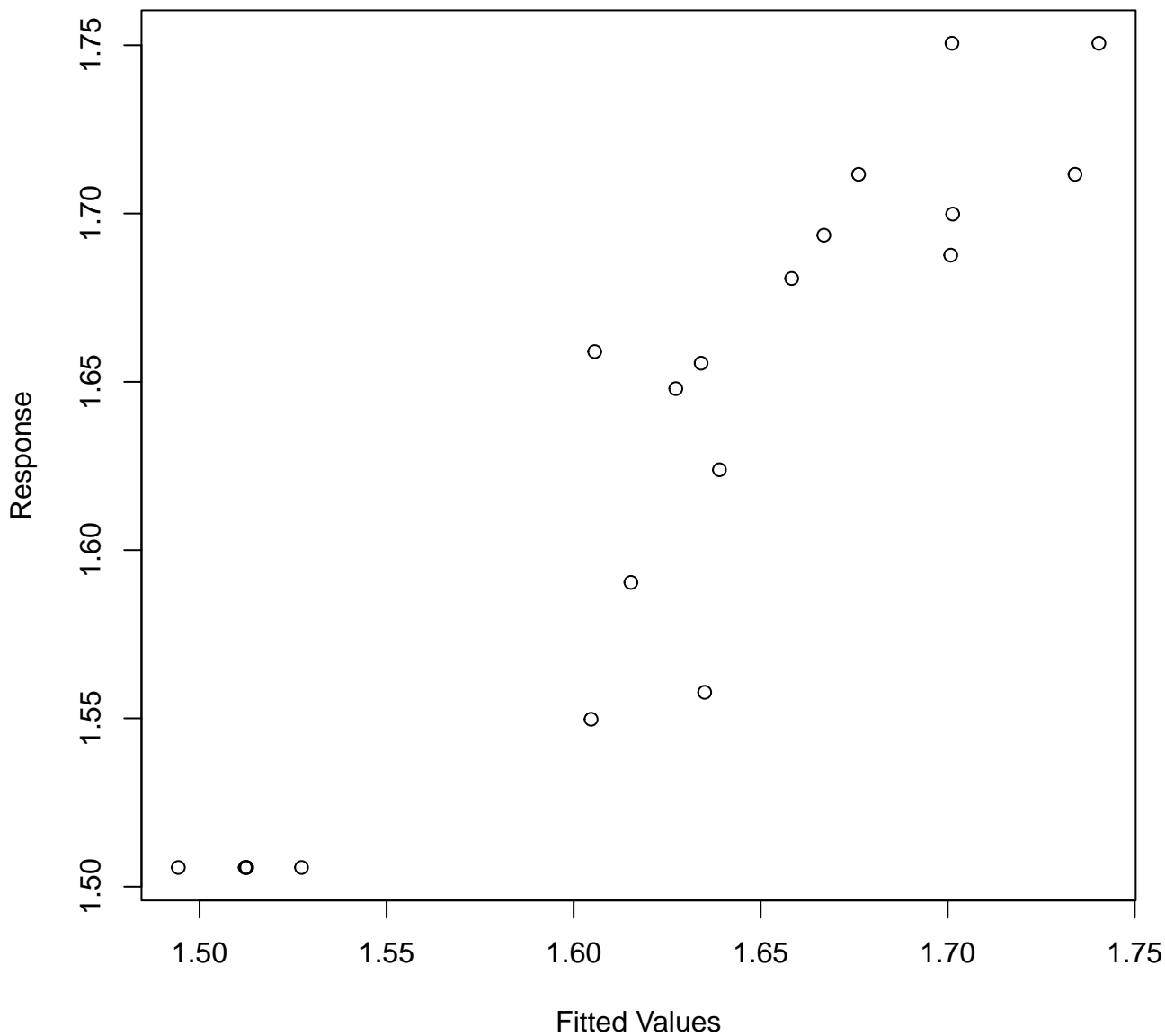
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 10 iterations.
 Gradient range [-1.60955e-05,2.215215e-06]
 (score -29.6184 & scale 0.001512809).
 Hessian positive definite, eigenvalue range [1.609524e-05,10.48349].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.00	1.96	1.07	0.45
s(cumul_bites_7_previous_days)	3.00	1.00	1.23	0.81
s(ID)	4.00	2.82	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_7_previous_days, k = 4)	2.04	[1.42, 3.58]	1.43	0.49	[0.28, 0.70]	

High Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	11.18	[6.34, 20.37]	3.34	0.09	[0.05, 0.16]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.62494	0.03778	43.01	1.36e-15 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.959	2.329	1.873	0.153
s(cumul_bites_7_previous_days)	1.000	1.000	0.001	0.982
s(ID)	2.824	3.000	20.358	2.75e-05 ***

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

R-sq.(adj) = 0.807 Deviance explained = 86.6%

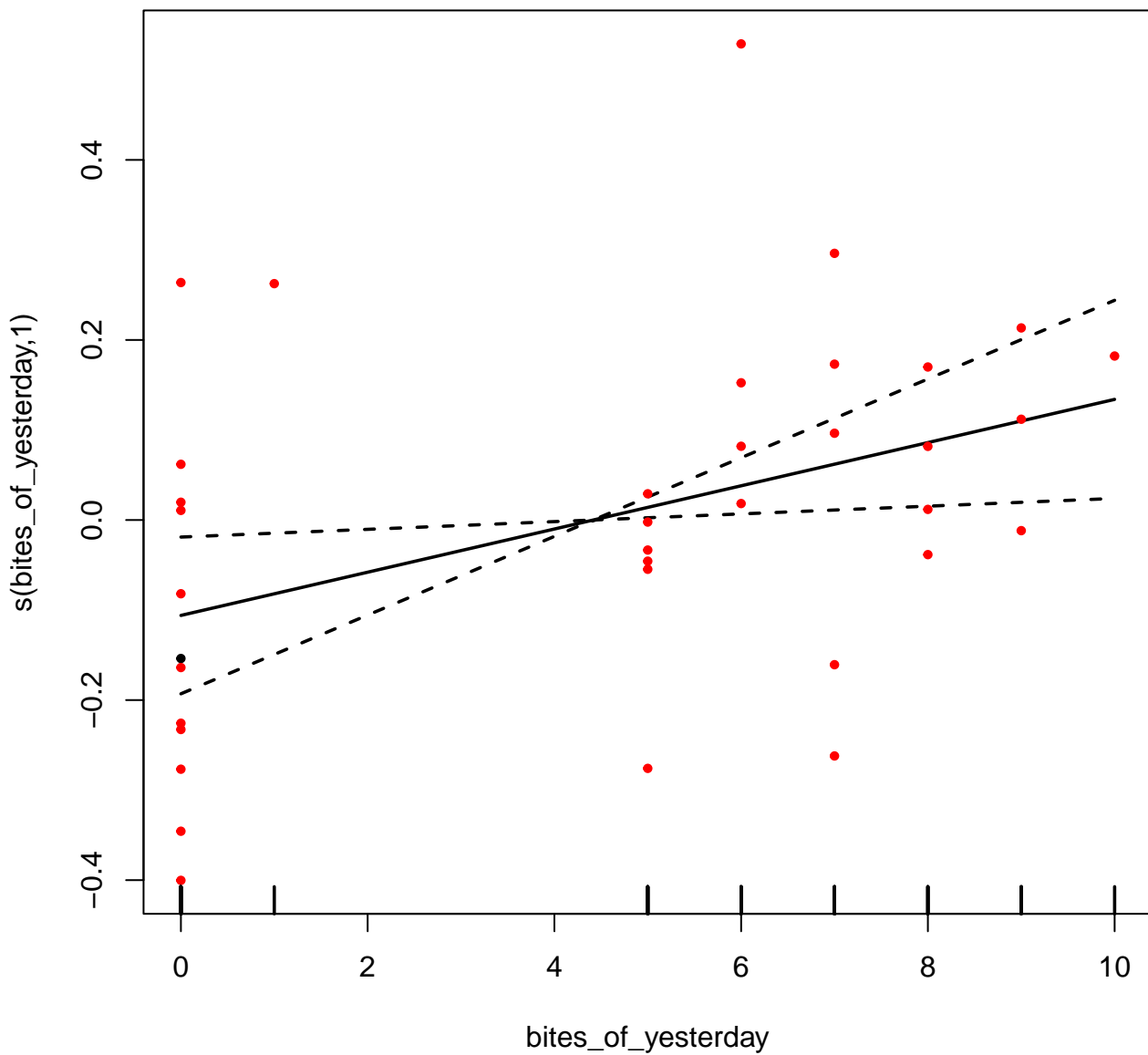
-ML = -29.618 Scale est. = 0.0015128 n = 20

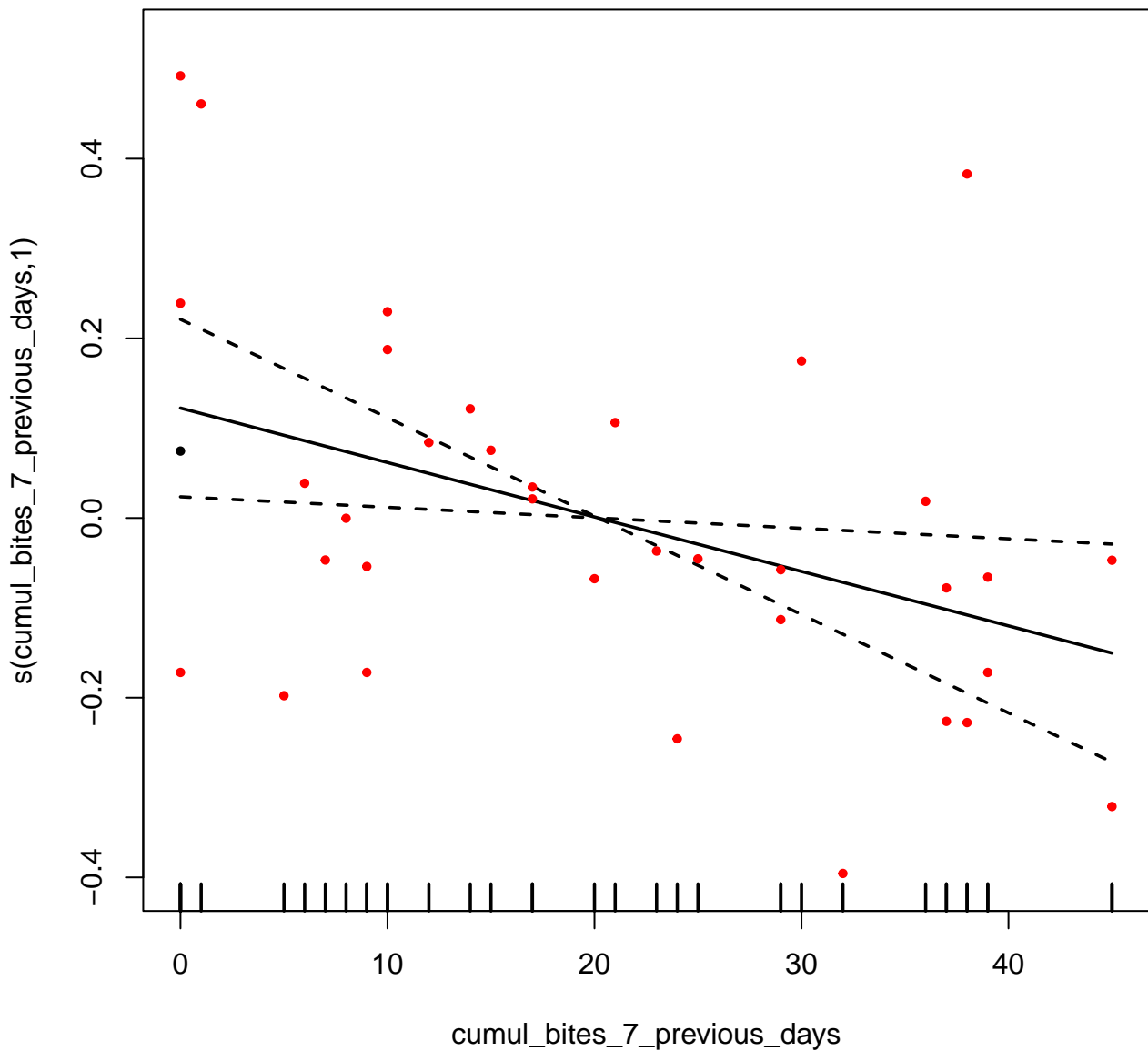
```
AICc [1] -50.26557
```

IFN.g

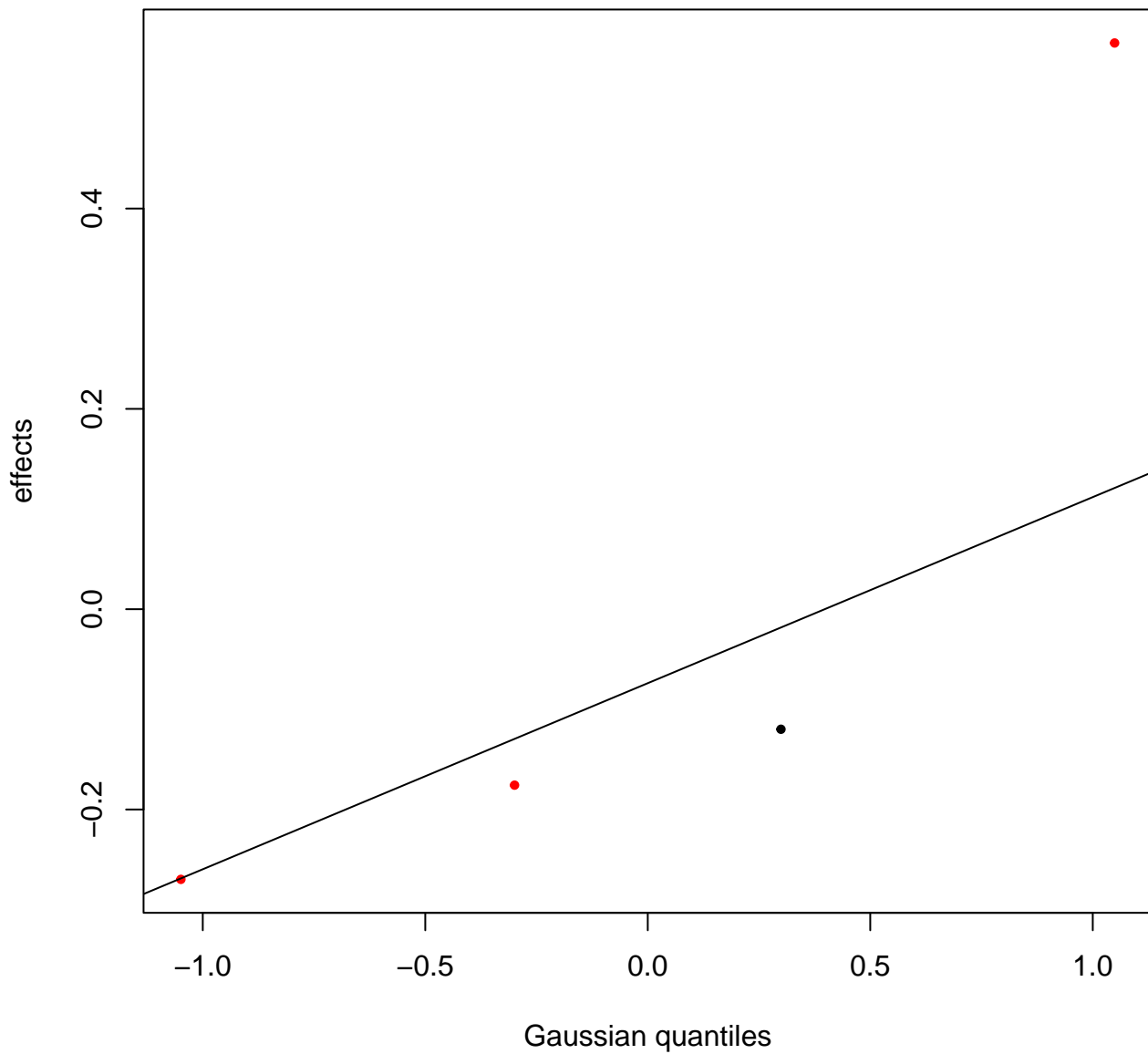
Bites in cyno

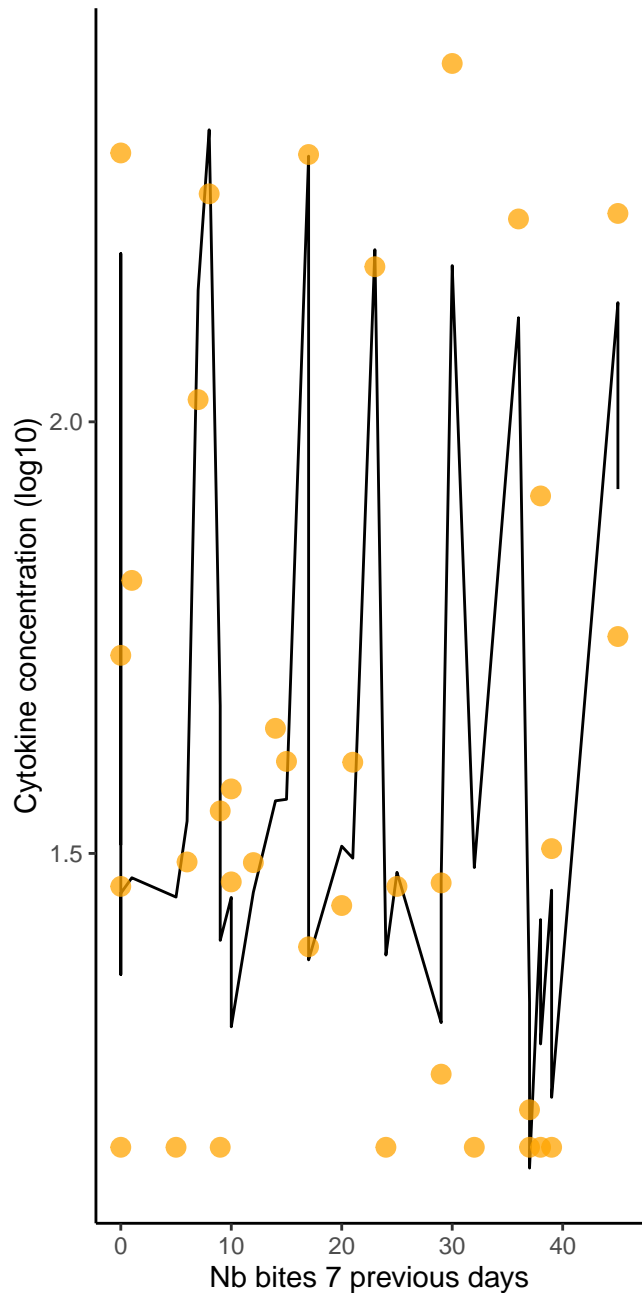
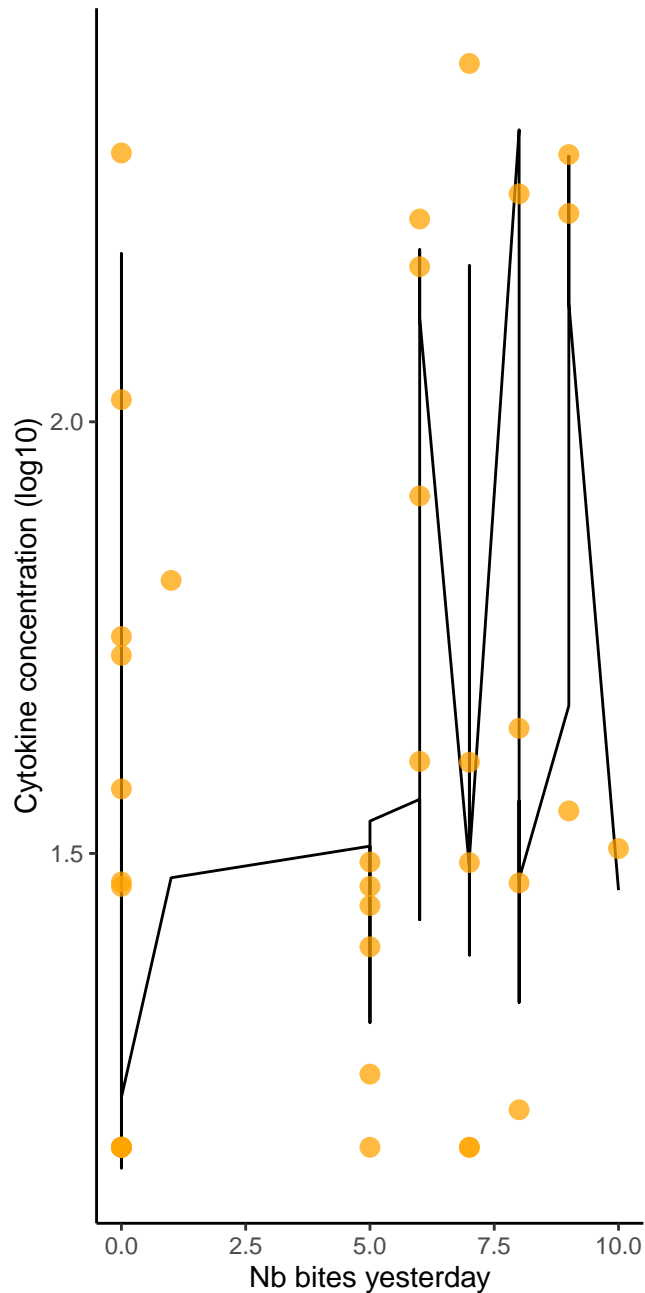
Nb obs : 36

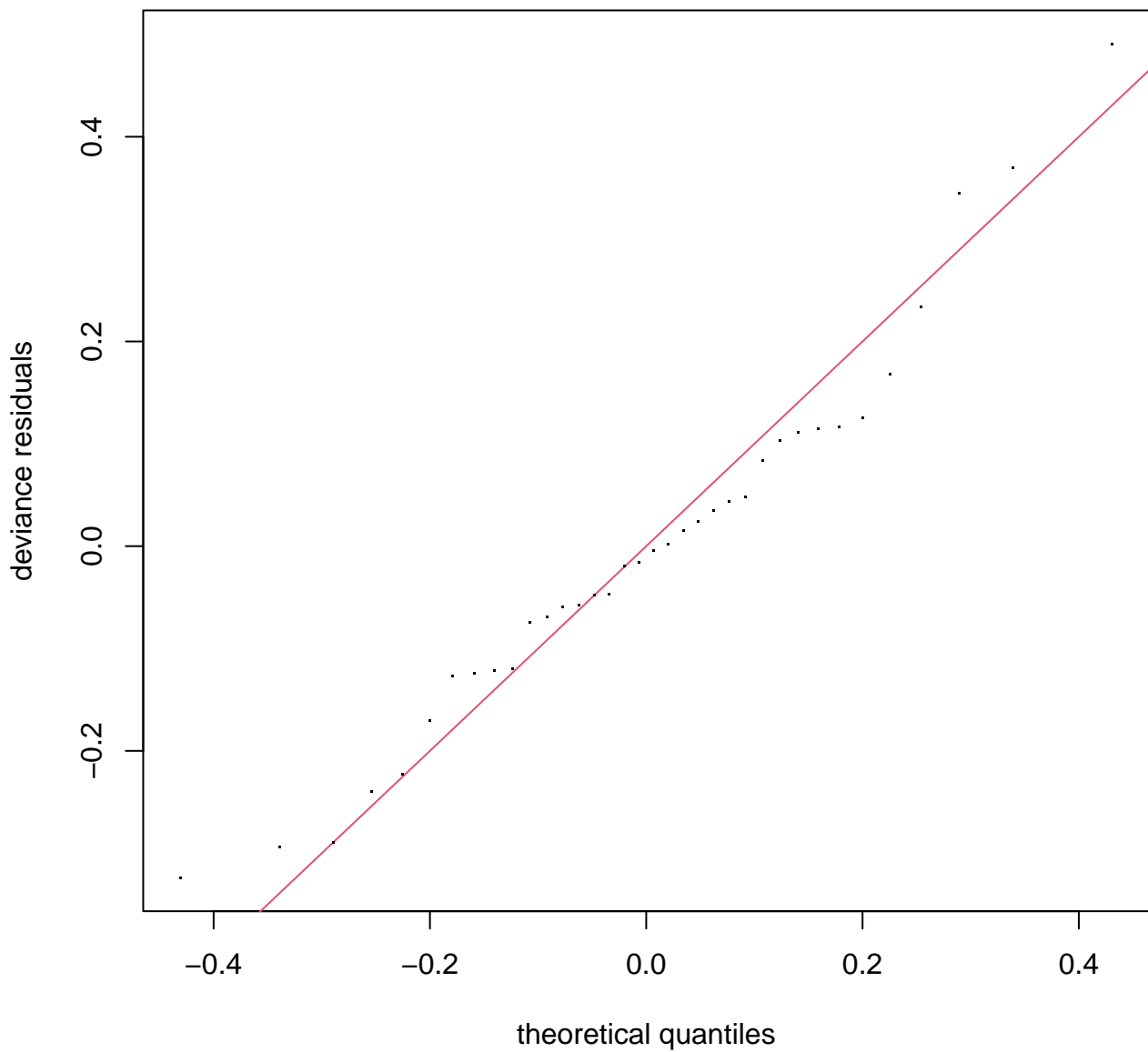




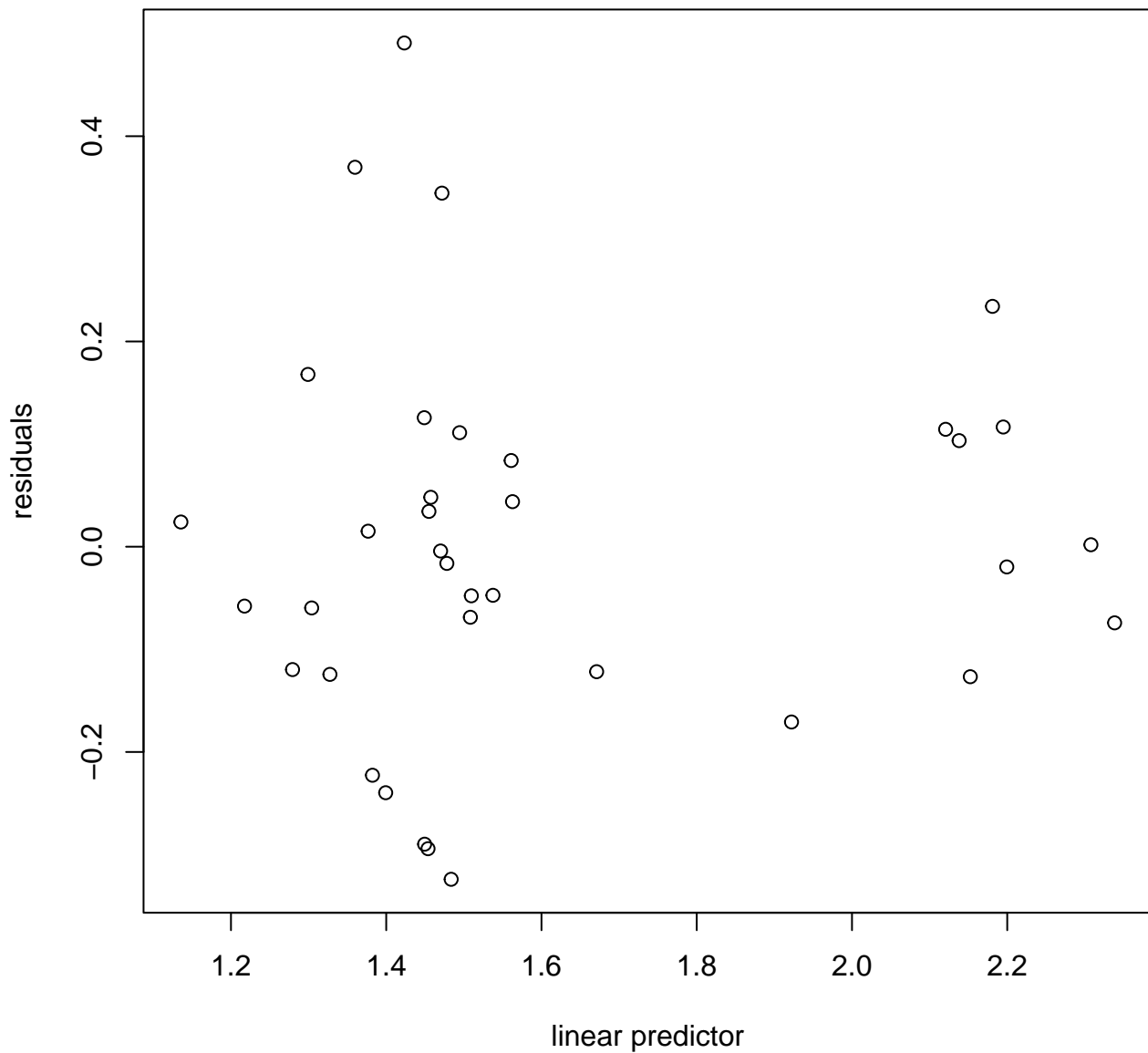
s(ID,2.9)



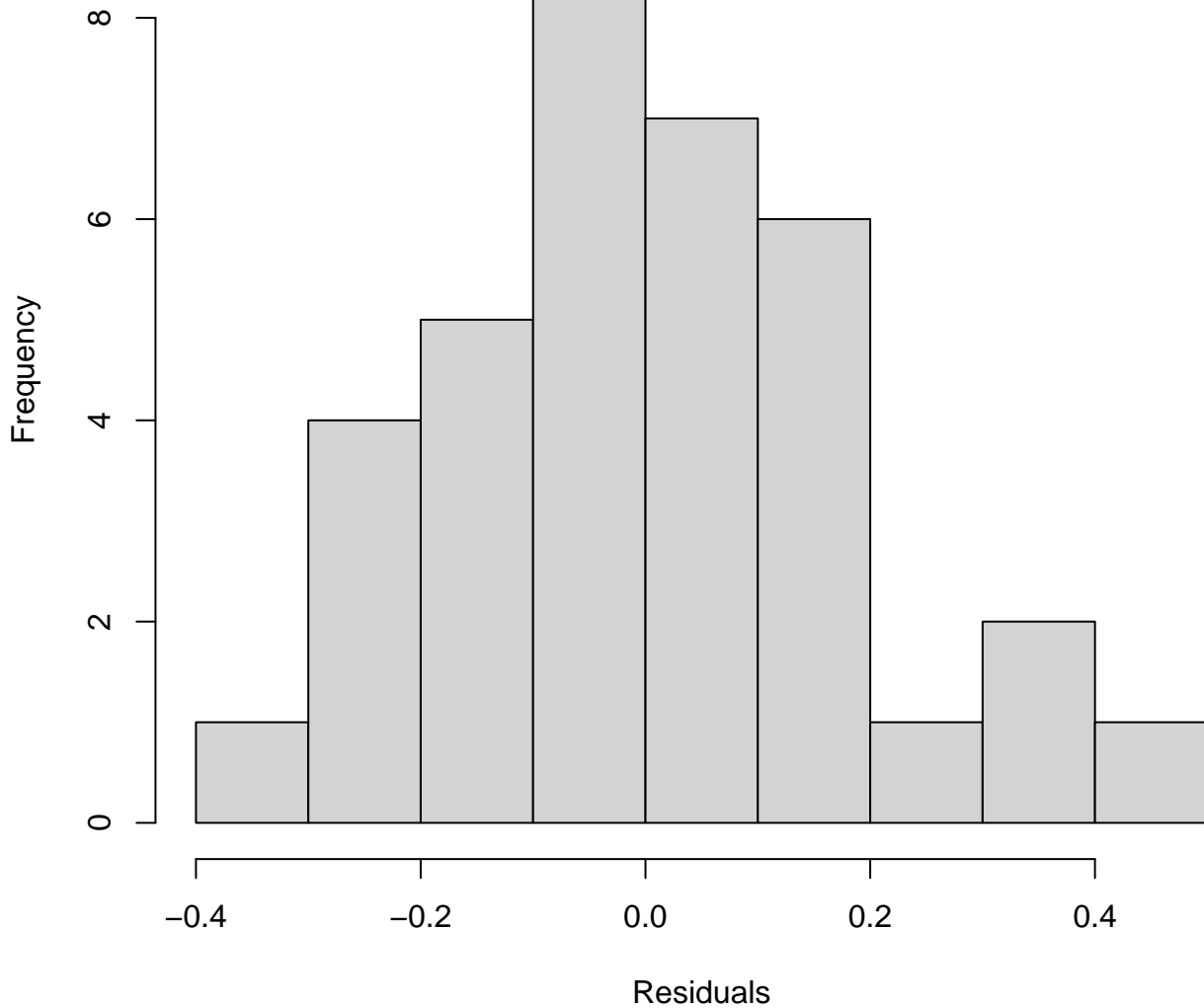




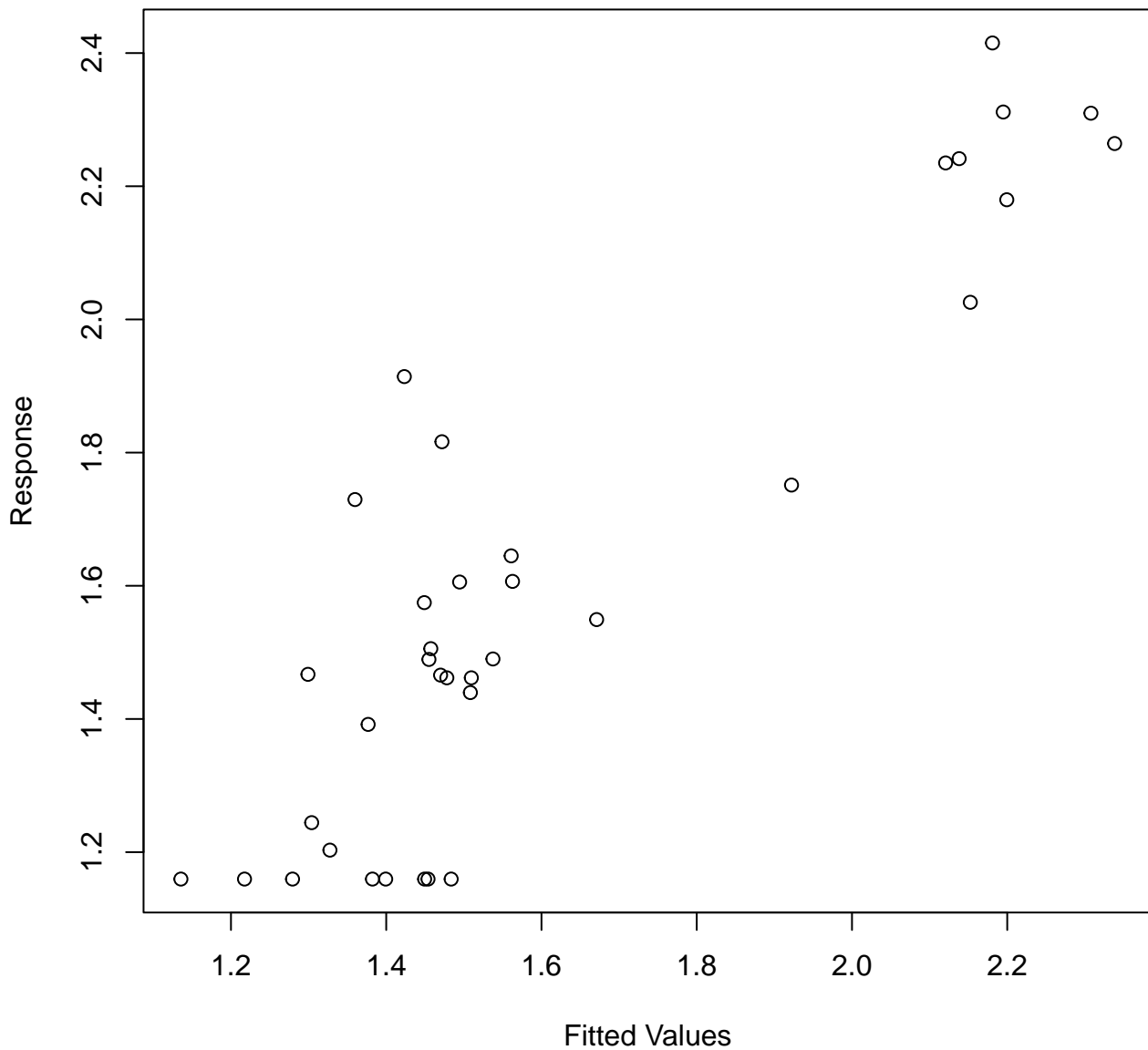
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 14 iterations.
 Gradient range [-6.991728e-07,6.488436e-08]
 (score -2.051074 & scale 0.03830552).
 Hessian positive definite, eigenvalue range [6.369434e-07,18.22809].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.0	1.0	1.14	0.78
s(cumul_bites_7_previous_days)	3.0	1.0	1.38	0.99
s(ID)	4.0	2.9	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.6131	0.1769	9.119	3.63e-10 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	5.930	0.0210 *
s(cumul_bites_7_previous_days)	1.000	1	6.141	0.0191 *
s(ID)	2.897	3	34.720	<2e-16 ***

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

R-sq.(adj) = 0.762 Deviance explained = 79.6%
-ML = -2.0511 Scale est. = 0.038306 n = 36


```
AICc [1] -3.77152
```

Bites in squirrel

Nb obs : 20

IFN.g ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL.10

Bites in cyno

Nb obs : 36

IL.10 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

Bites in squirrel

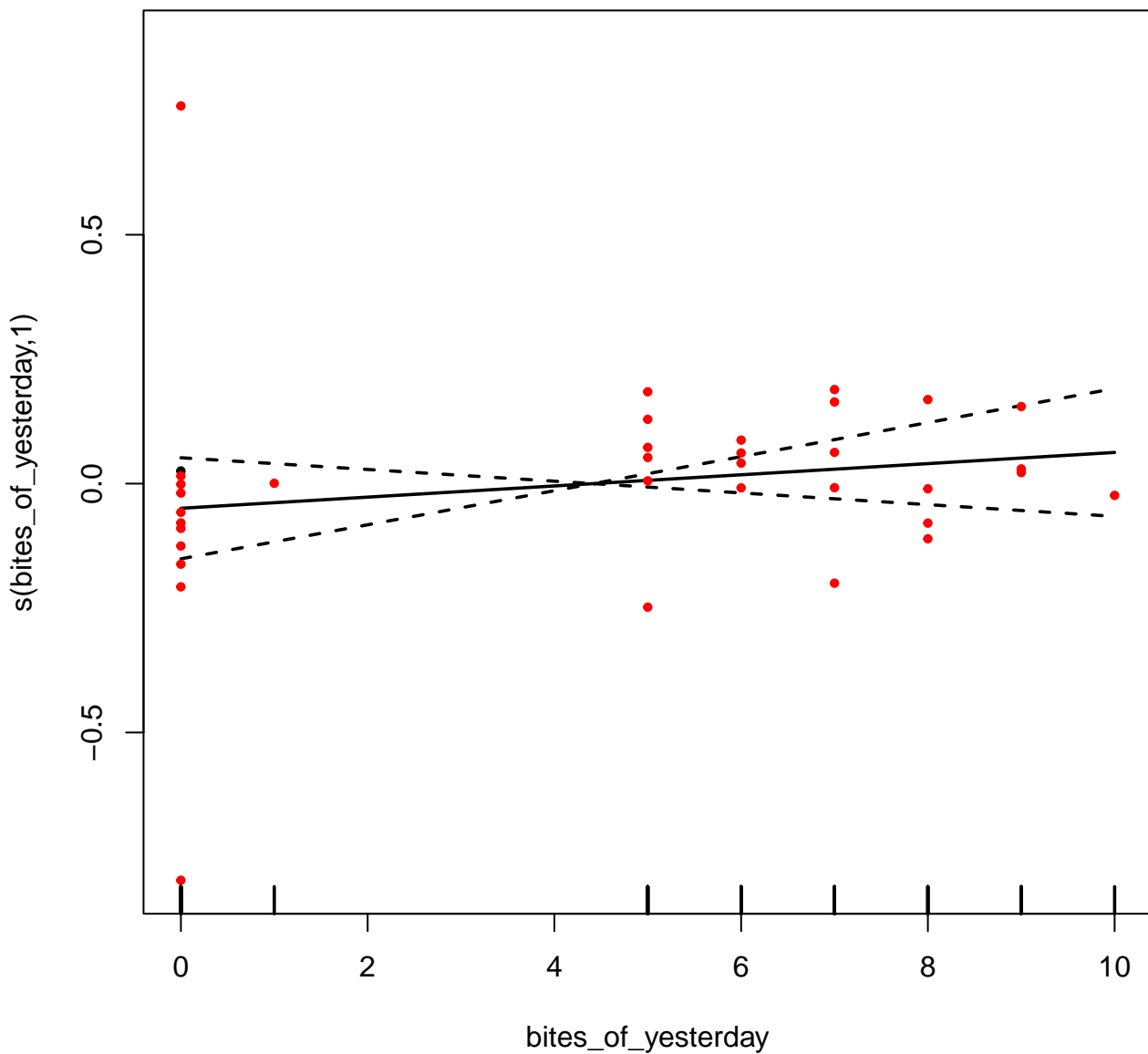
Nb obs : 20

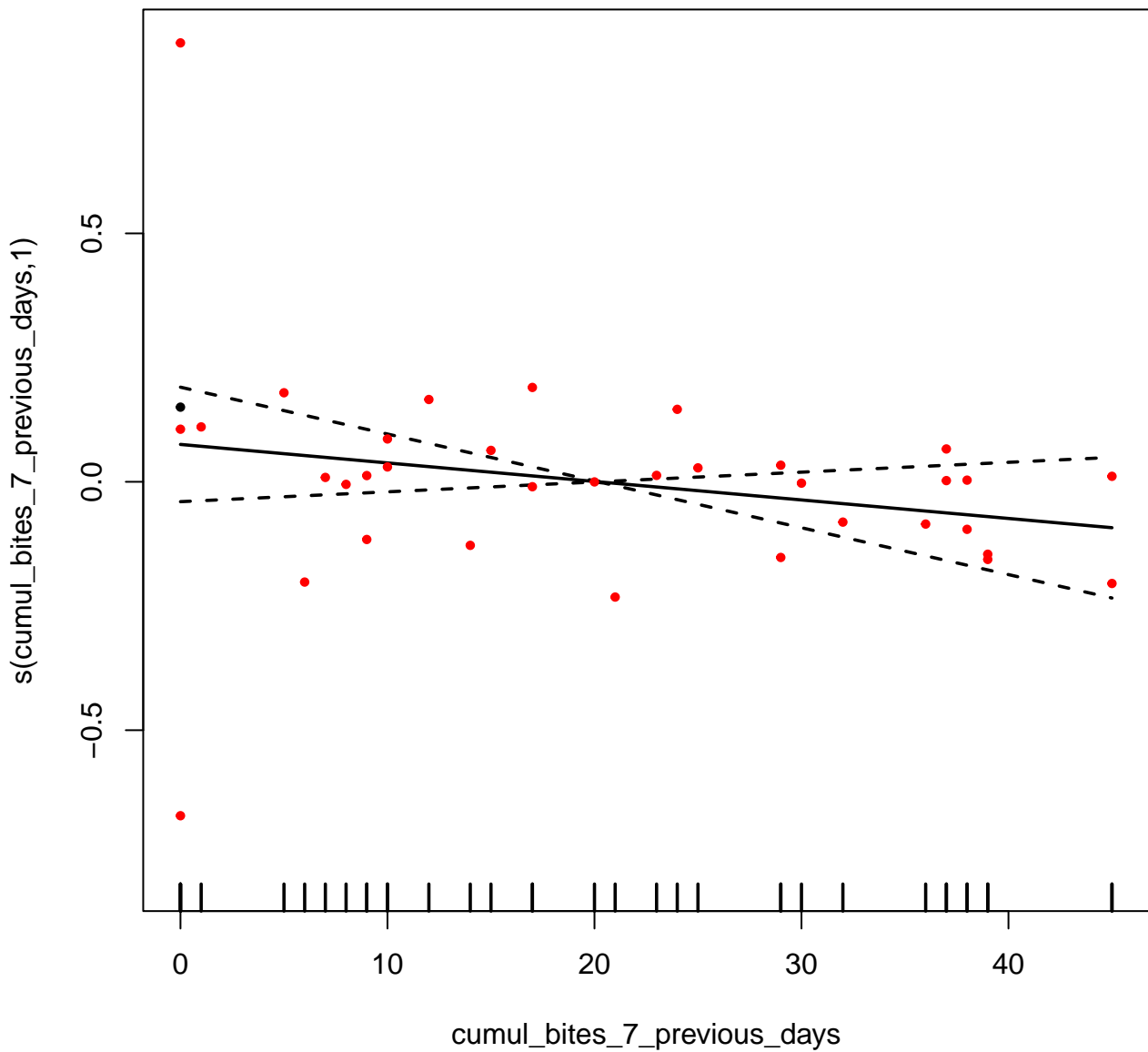
IL.10 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL.12

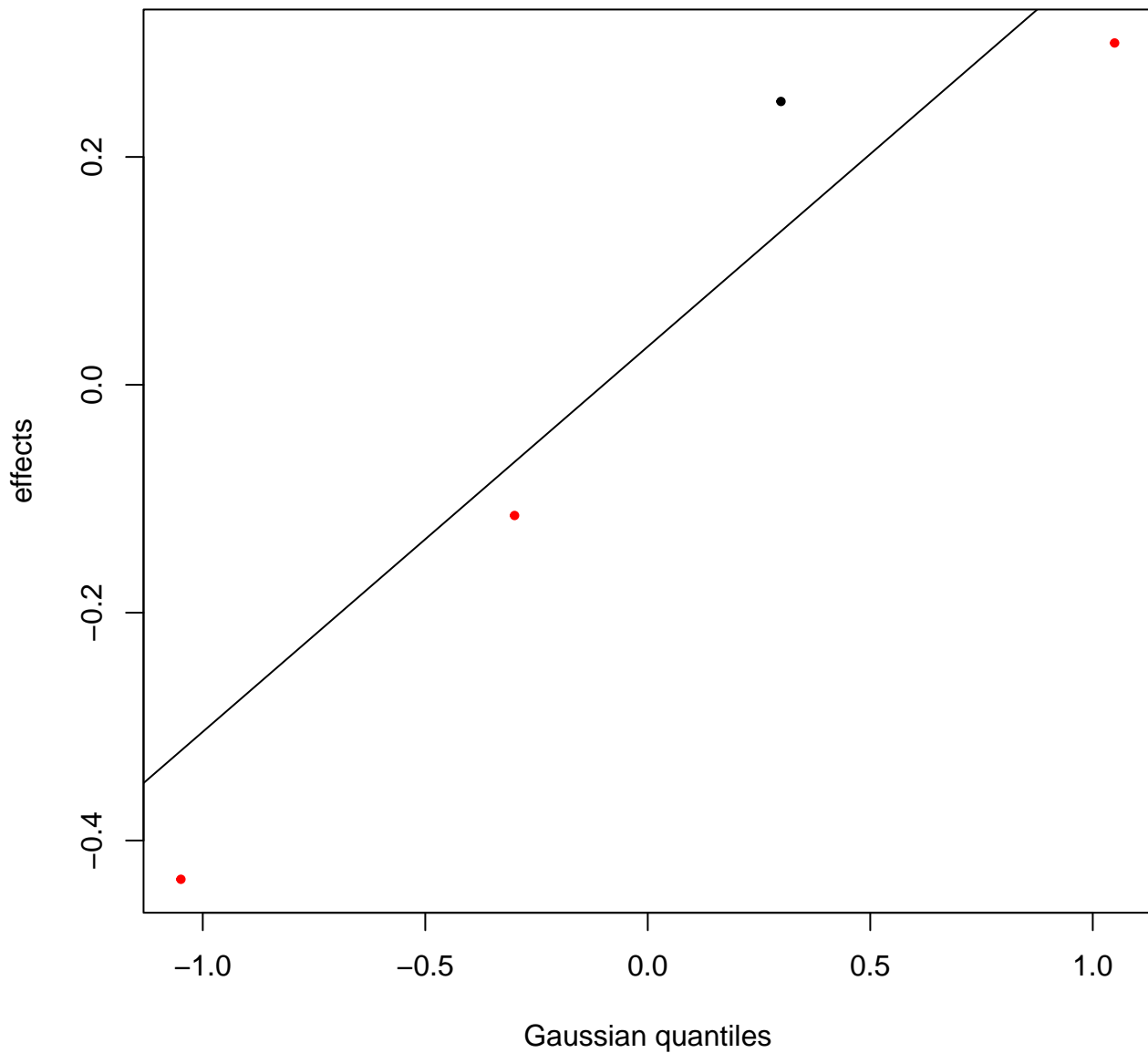
Bites in cyno

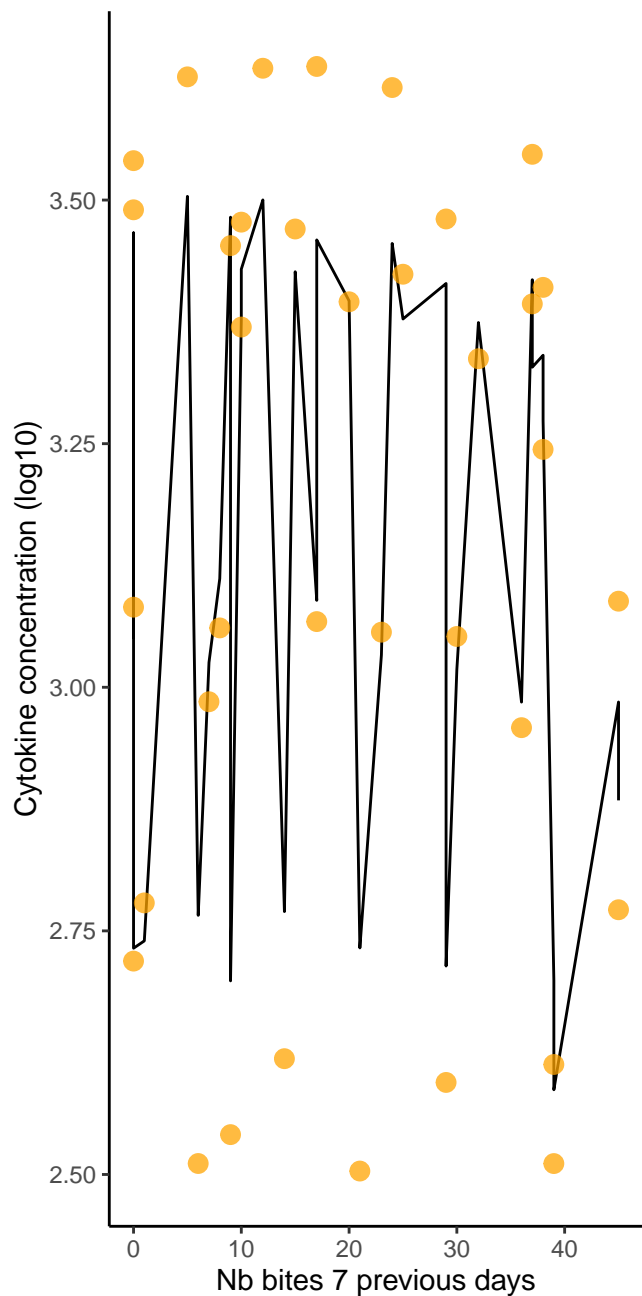
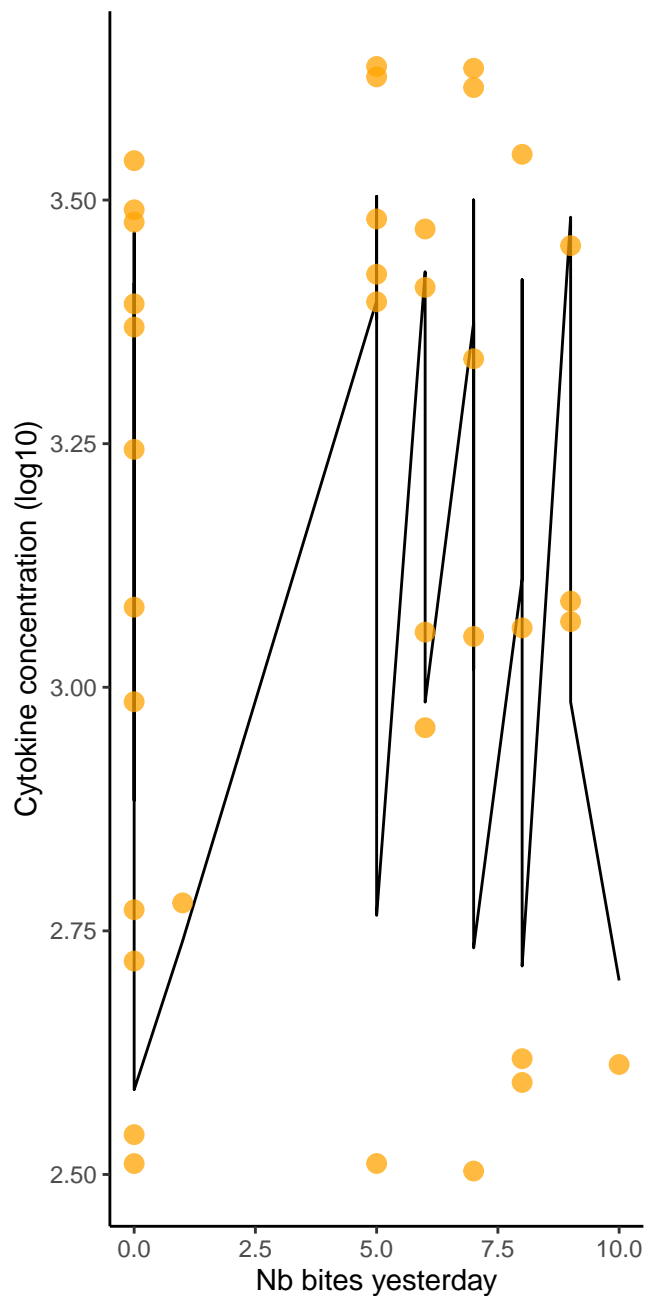
Nb obs : 36

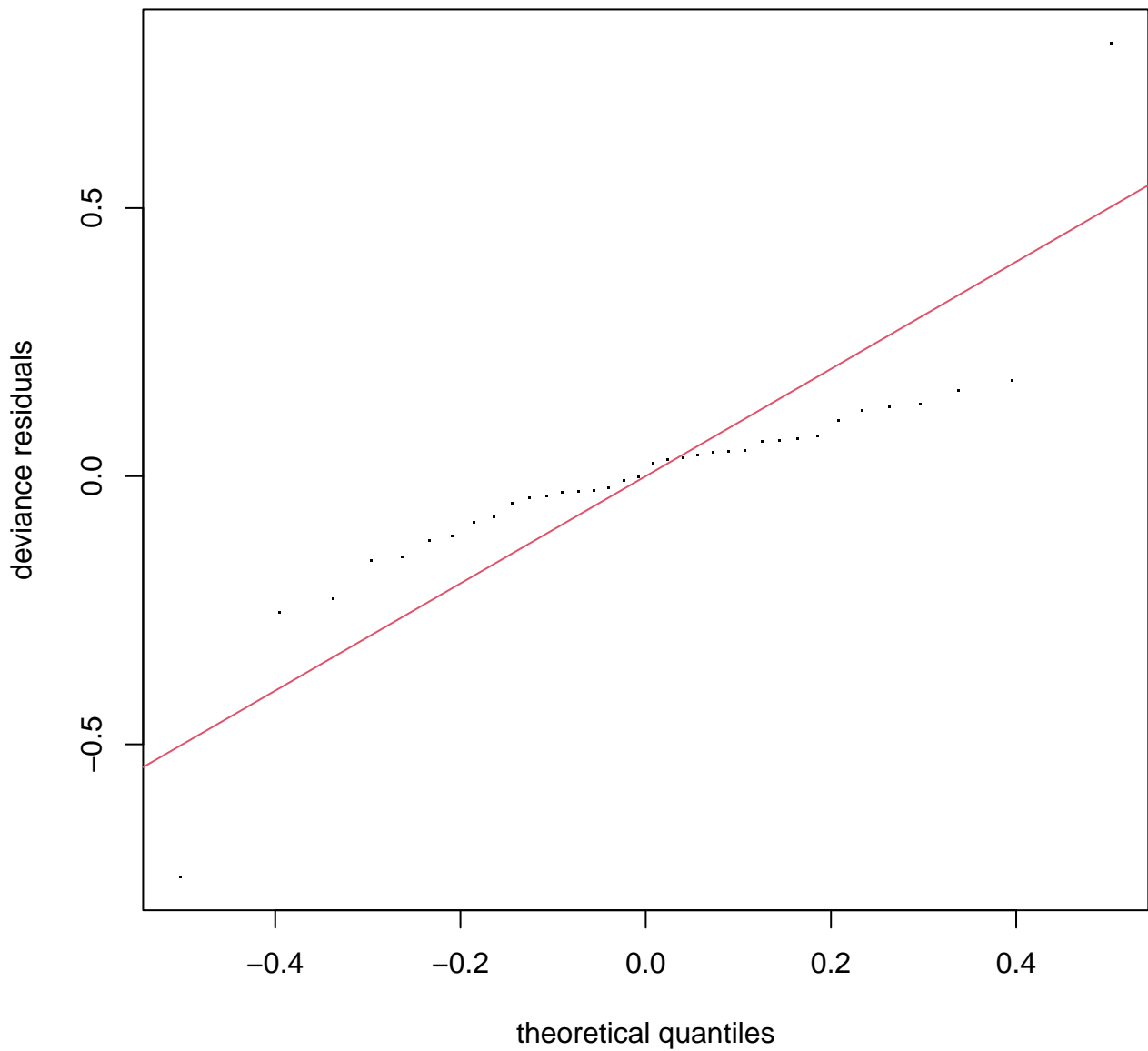




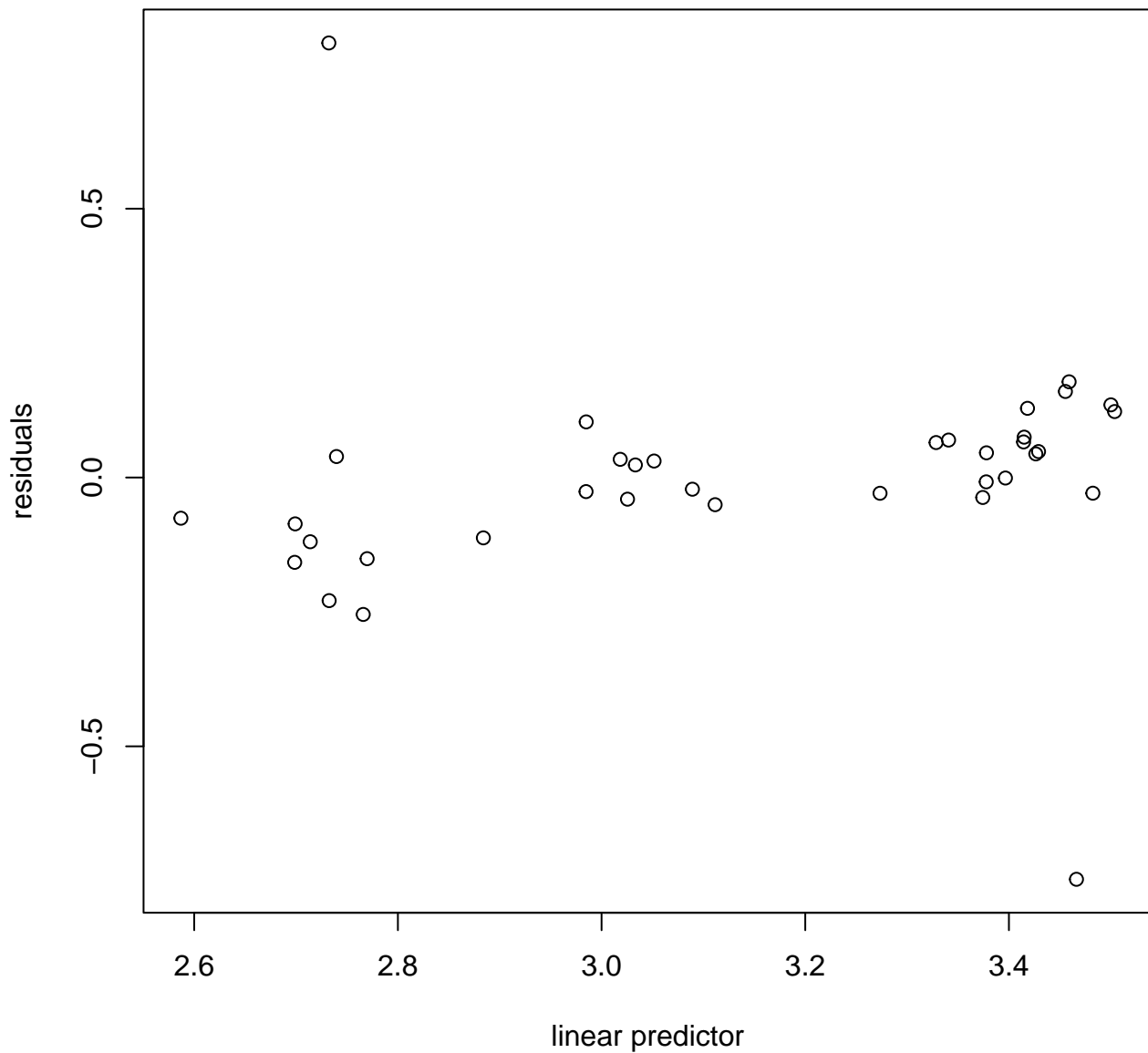
s(ID,2.83)



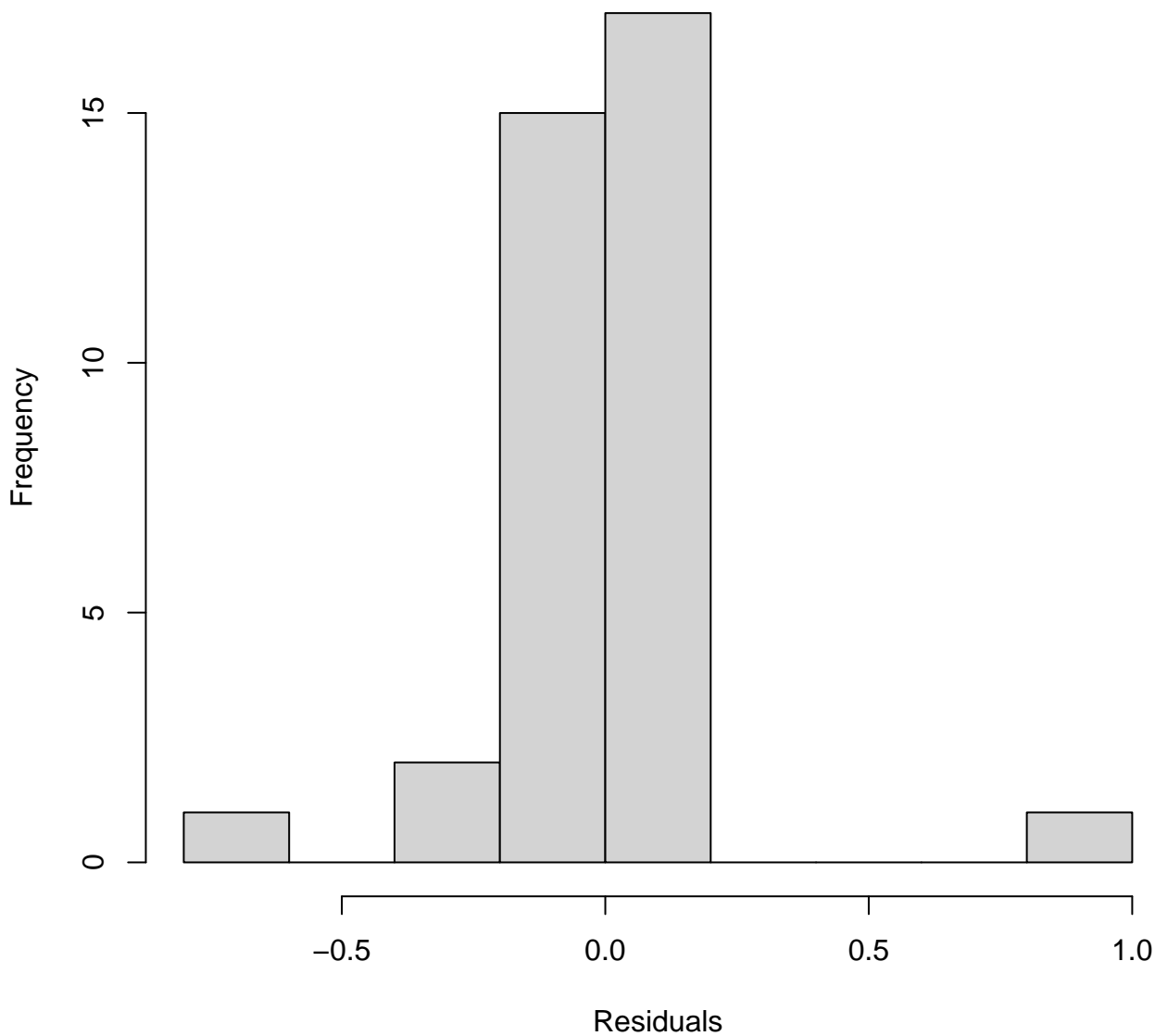




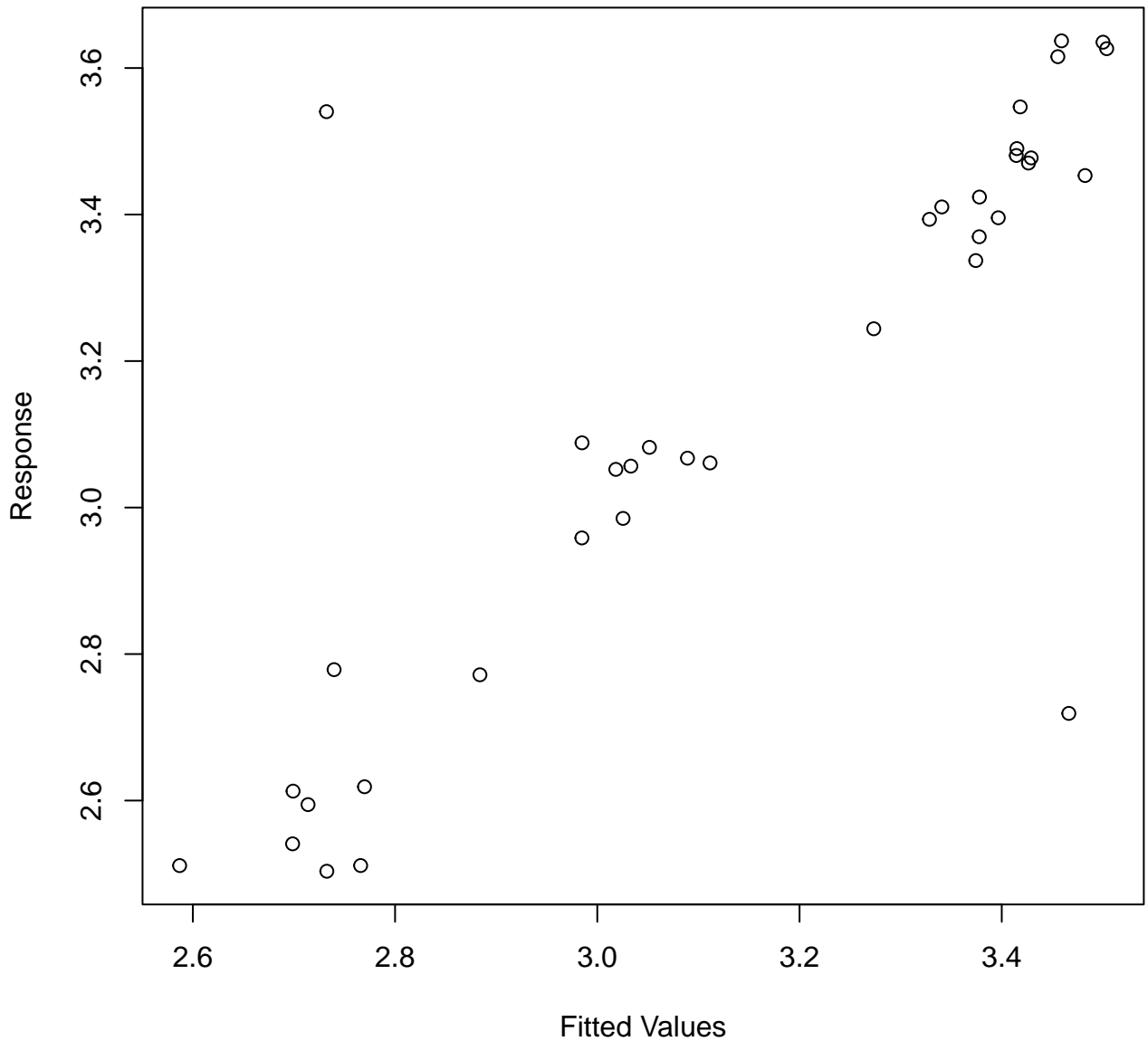
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 15 iterations.
 Gradient range [-1.039541e-06,5.268573e-08]
 (score 2.533338 & scale 0.05213652).
 Hessian positive definite, eigenvalue range [7.566821e-07,18.21747].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.03	0.46
s(cumul_bites_7_previous_days)	3.00	1.00	1.44	0.98
s(ID)	4.00	2.83	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.1406	0.1625	19.32	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.952	0.337
s(cumul_bites_7_previous_days)	1.000	1	1.705	0.202
s(ID)	2.834	3	21.436	<2e-16 ***

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

R-sq.(adj) = 0.646 Deviance explained = 69.5%
-ML = 2.5333 Scale est. = 0.052137 n = 36

```
AICc [1] 7.355133
```

Bites in squirrel

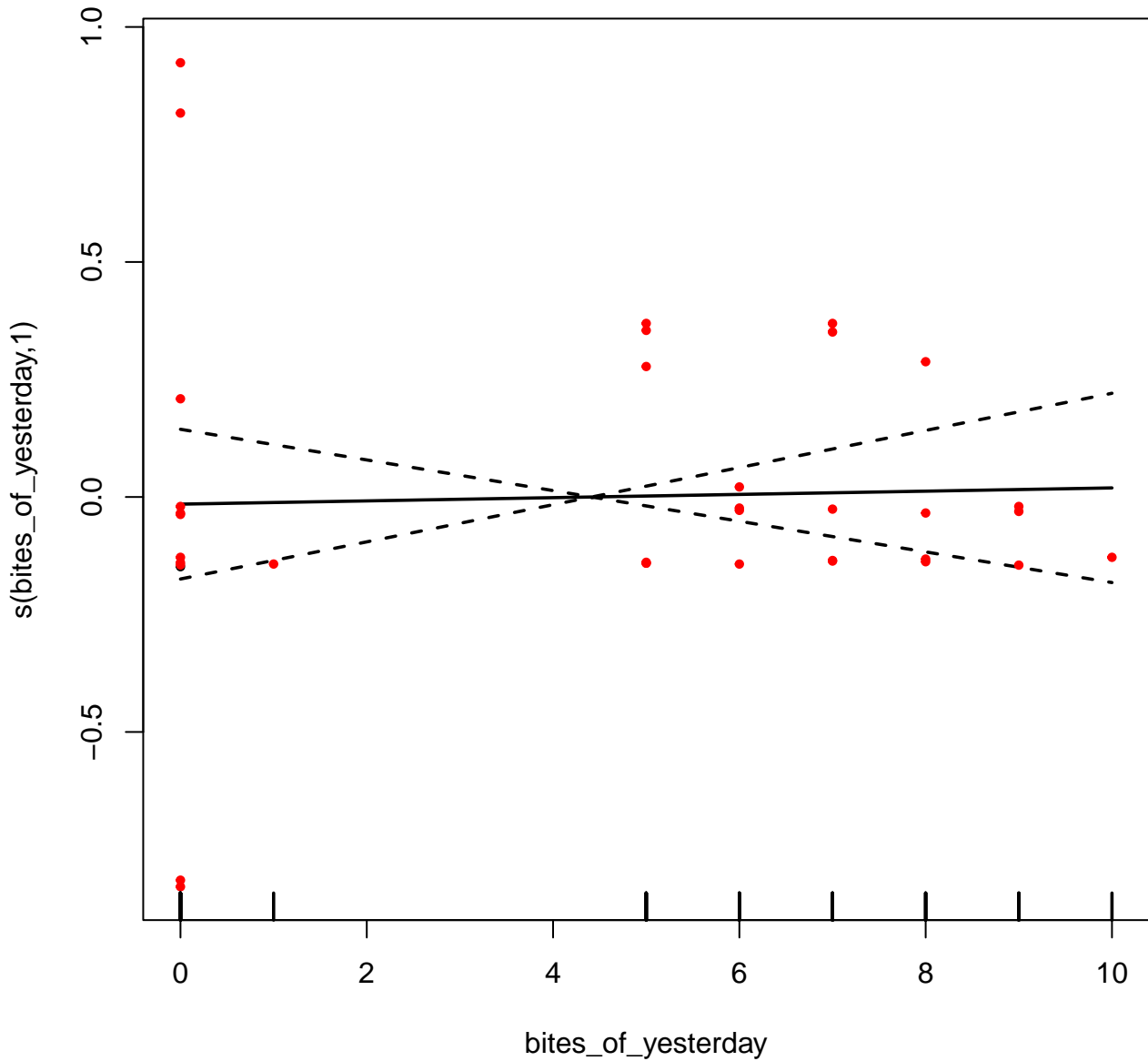
Nb obs : 20

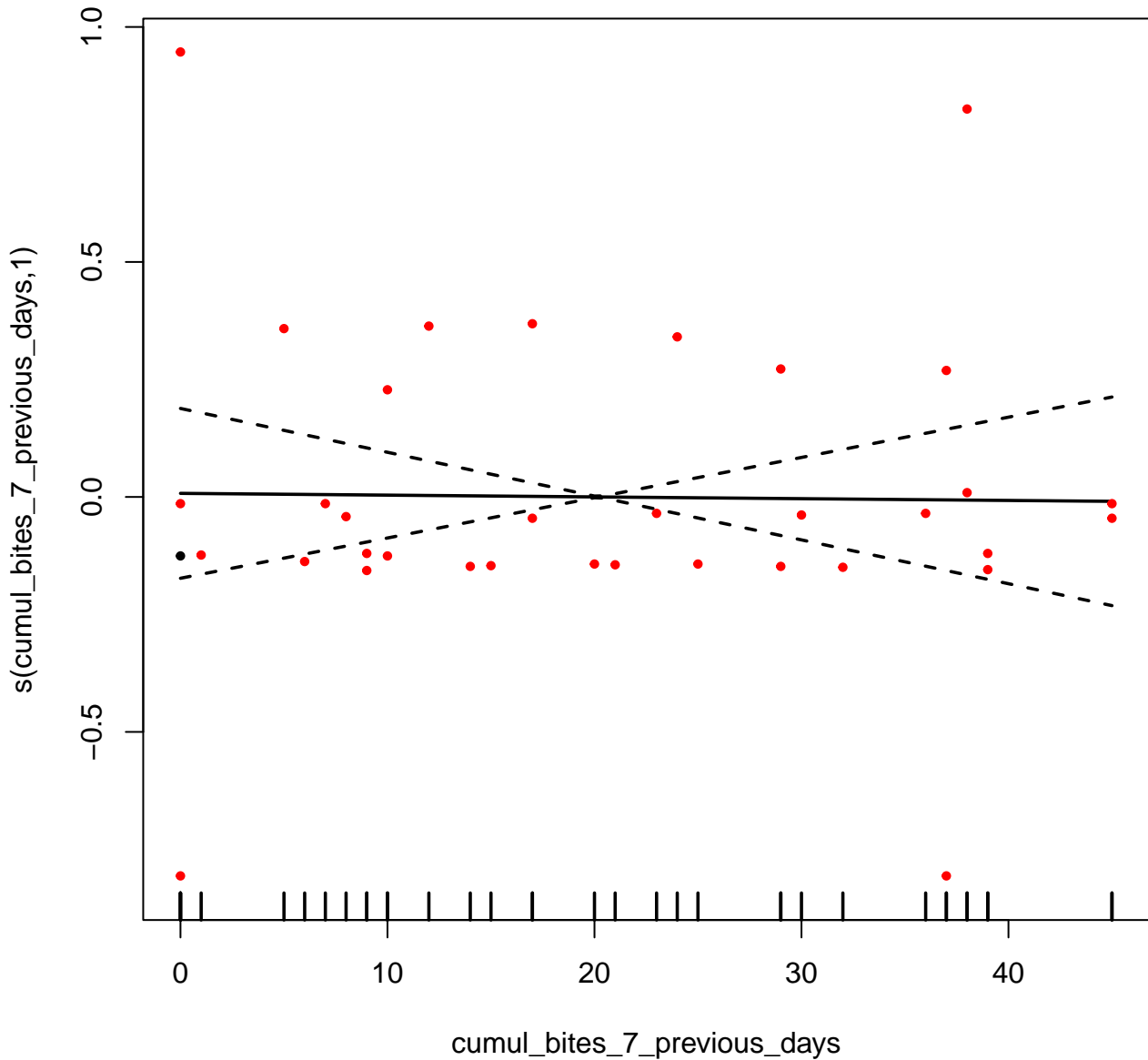
IL.12 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL.15

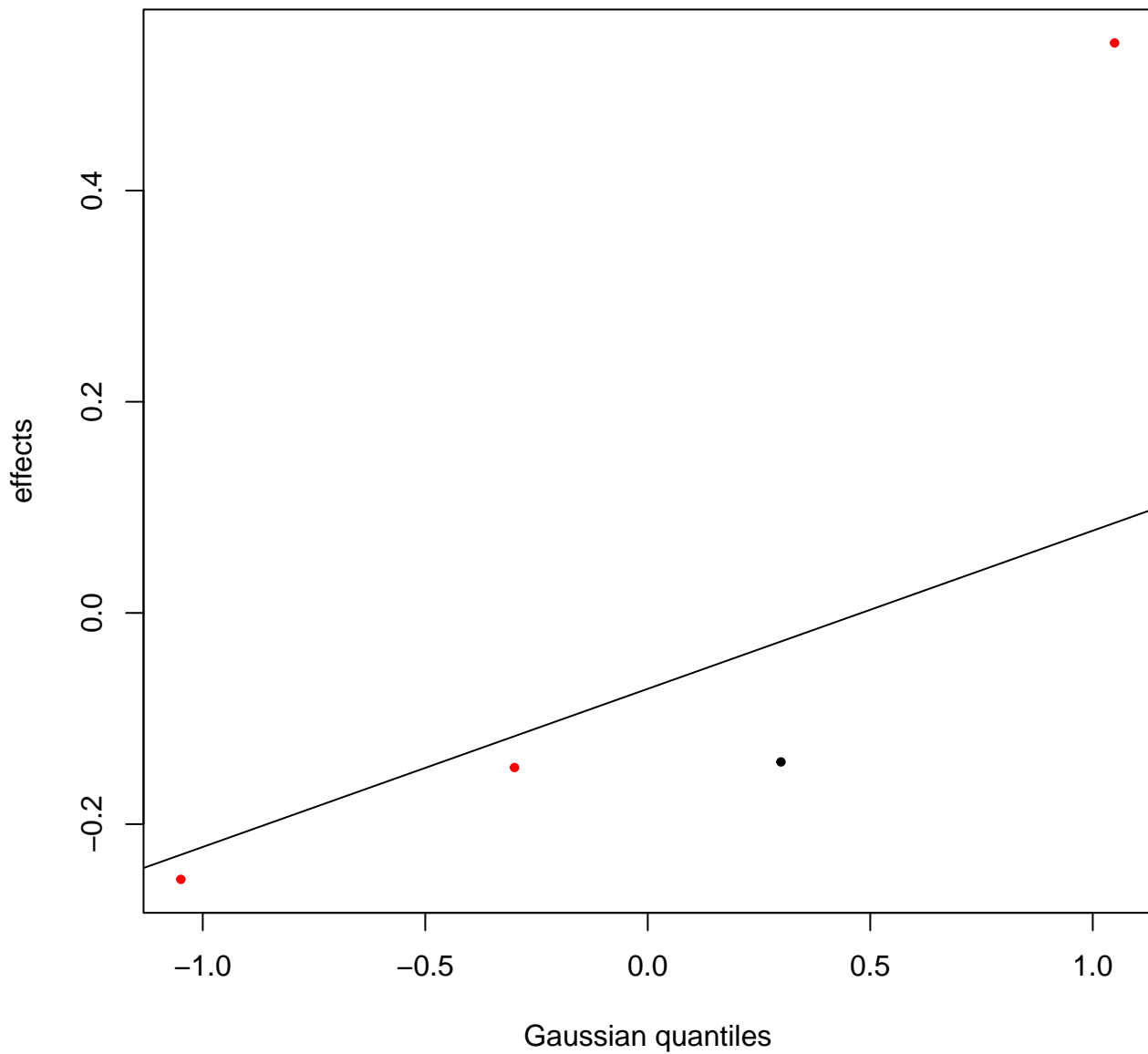
Bites in cyno

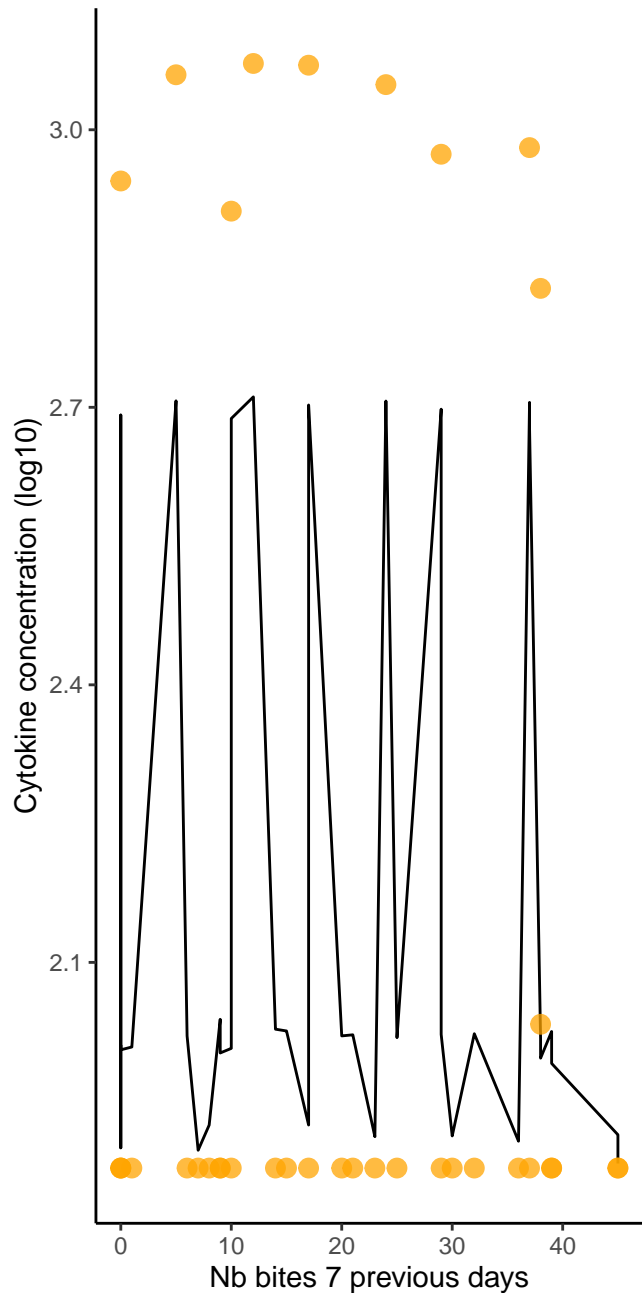
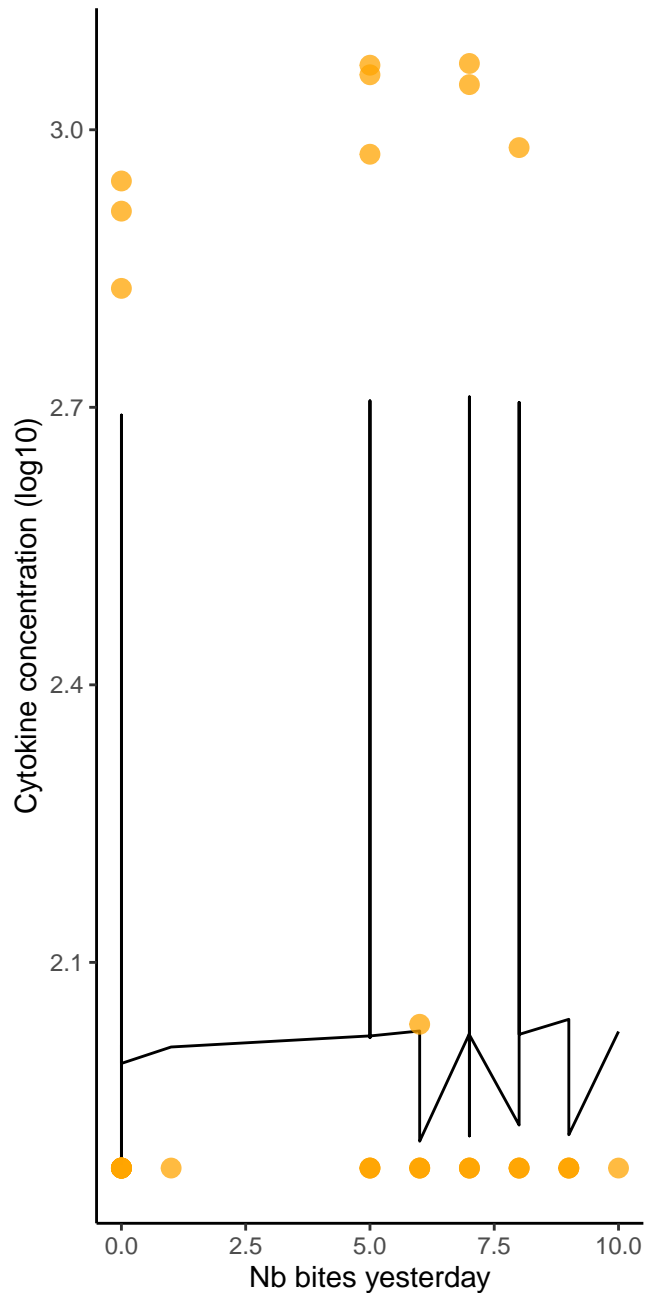
Nb obs : 36

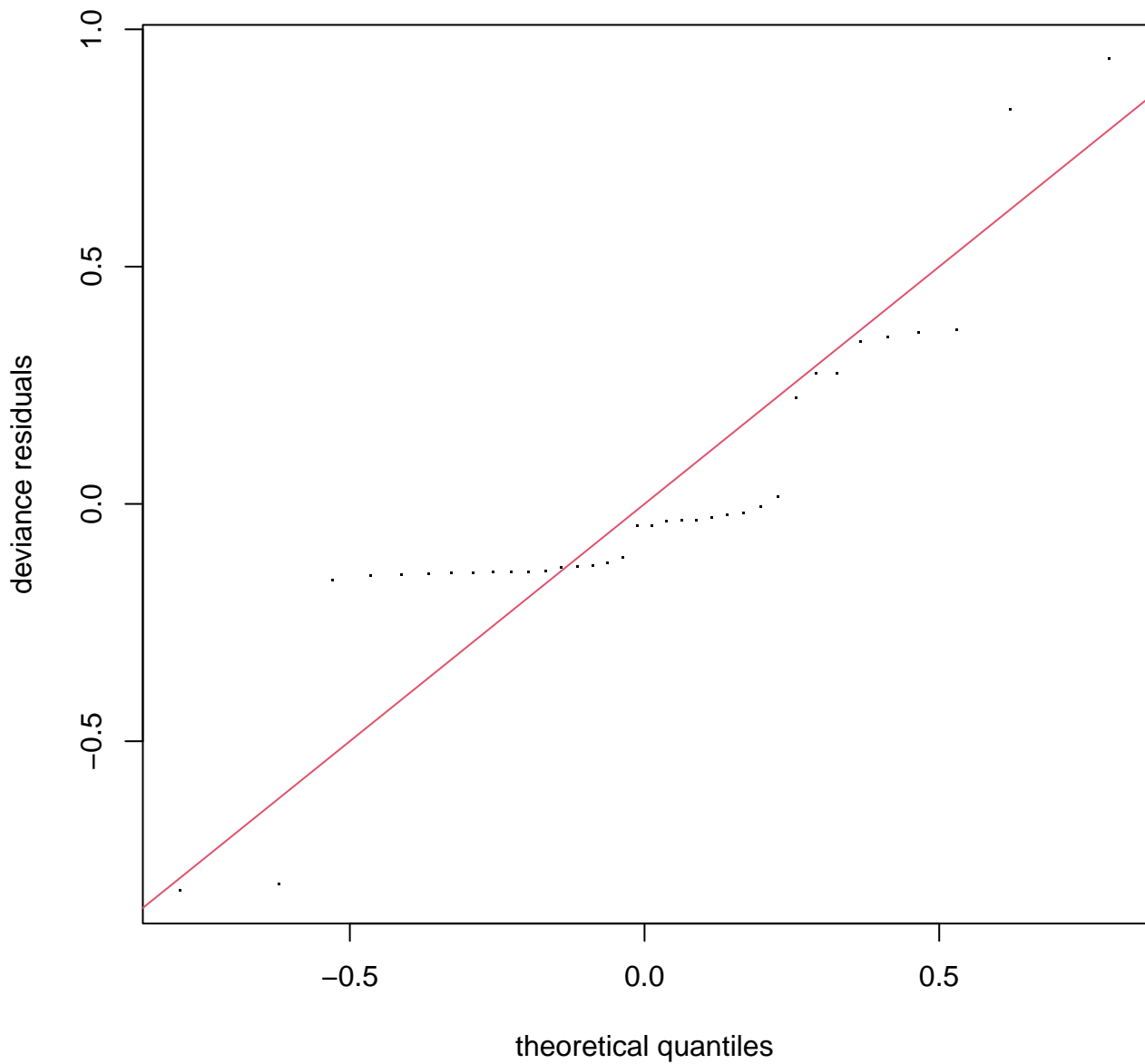




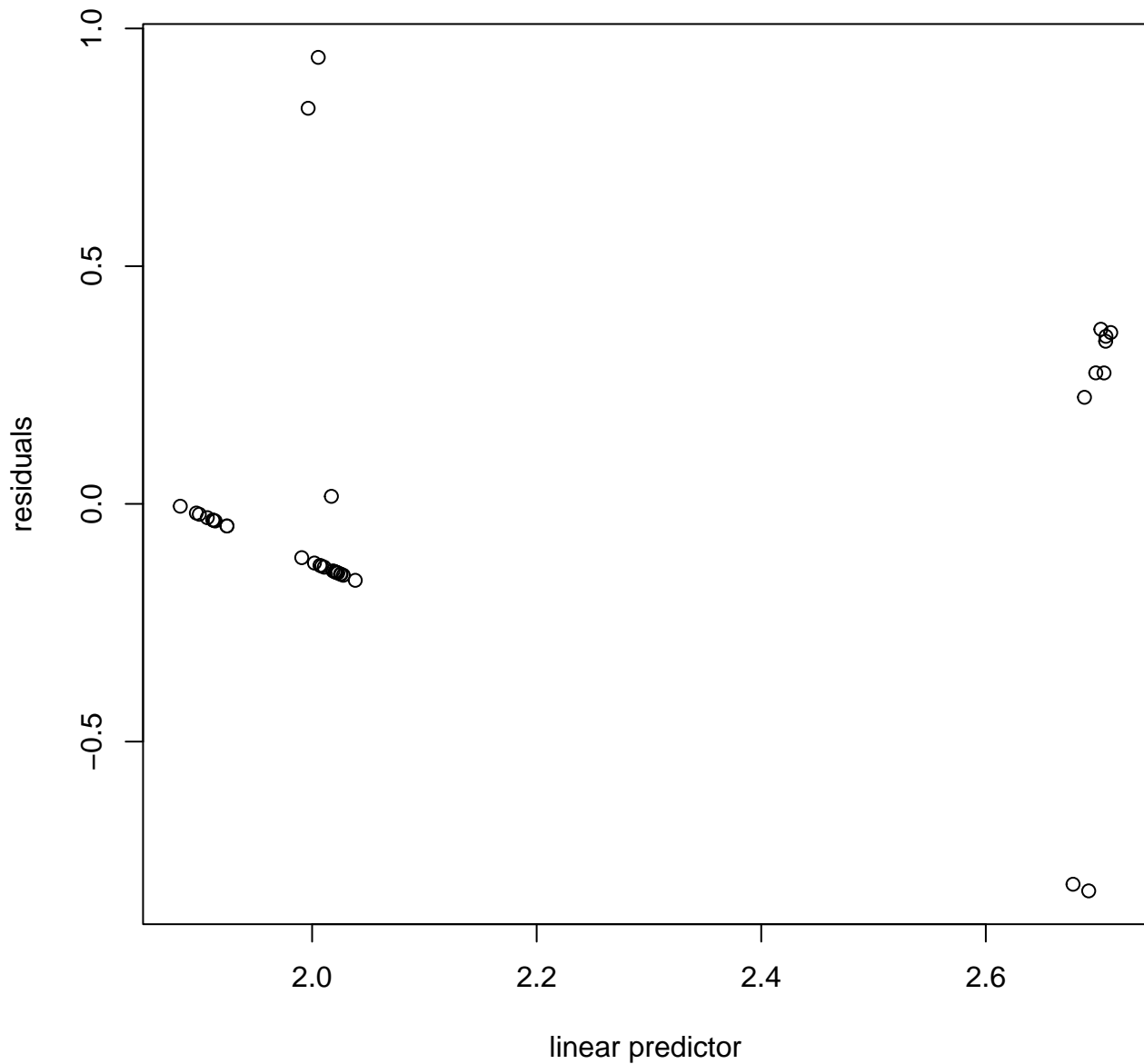
s(ID,2.68)



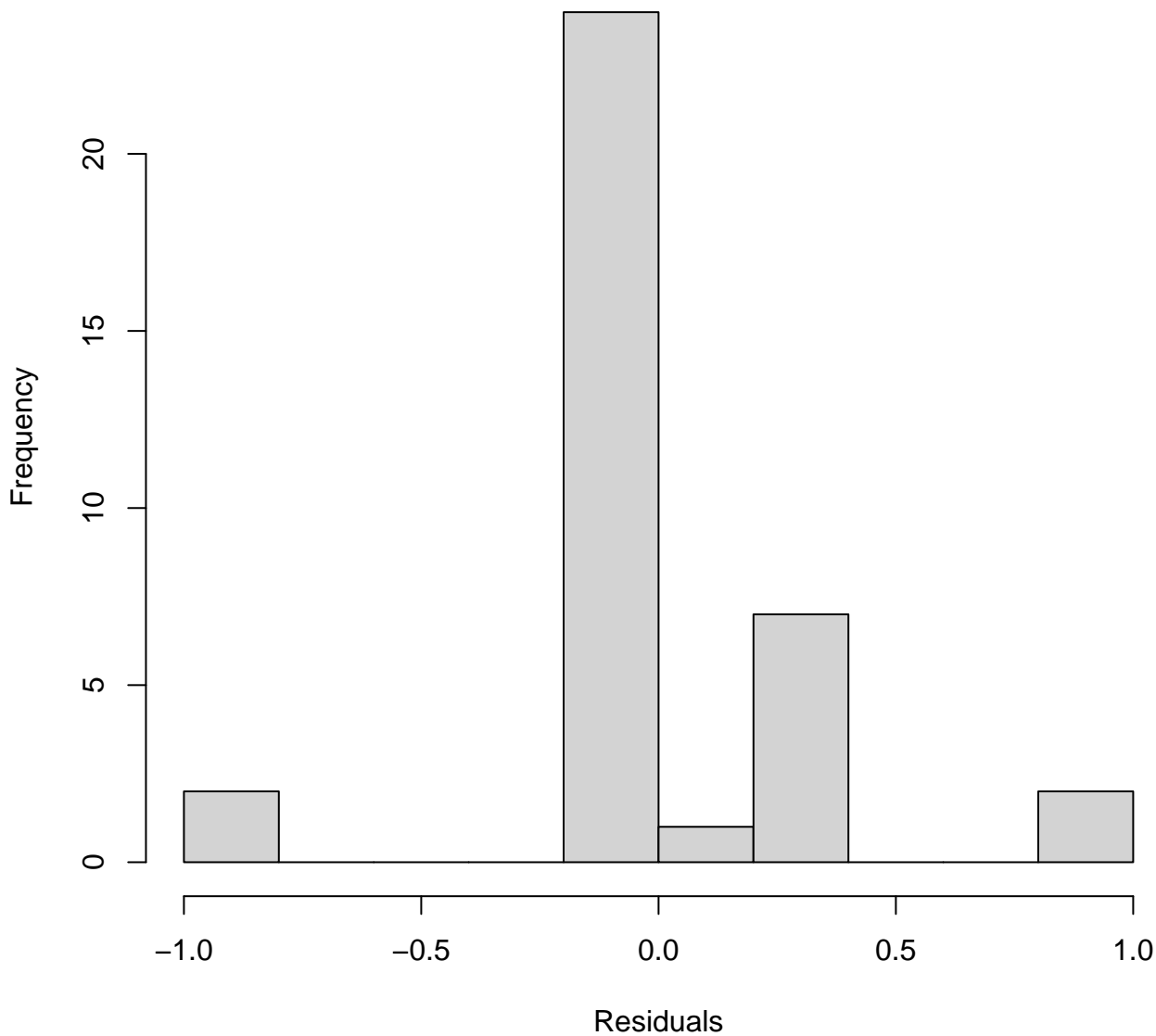




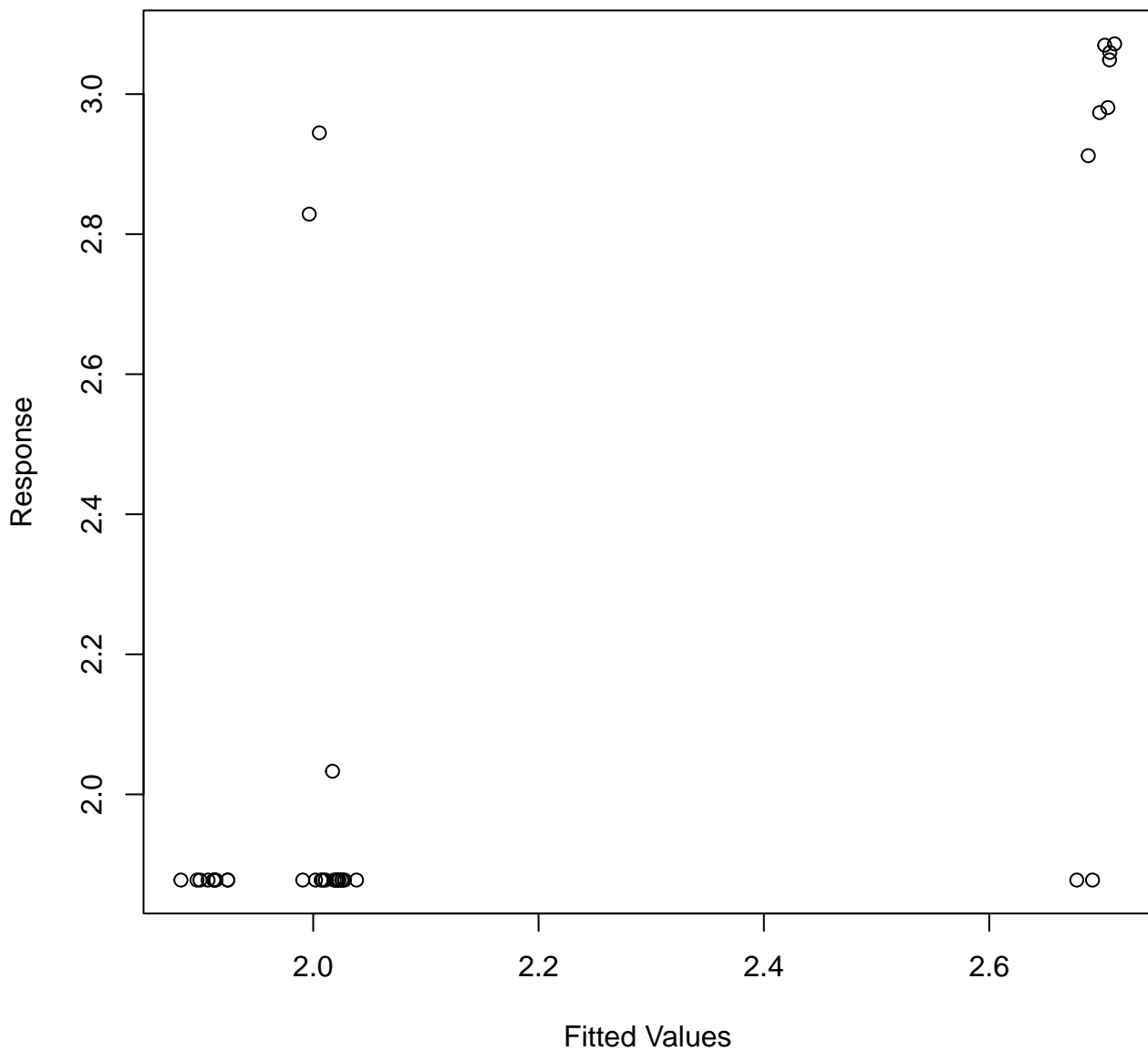
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 14 iterations.
 Gradient range [-2.728227e-06,2.768502e-07]
 (score 17.3784 & scale 0.1282965).
 Hessian positive definite, eigenvalue range [1.945693e-06,18.19206].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.29	0.93
s(cumul_bites_7_previous_days)	3.00	1.00	1.39	0.98
s(ID)	4.00	2.68	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.1595	0.1823	11.85	6.63e-13 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.037	0.850
s(cumul_bites_7_previous_days)	1.000	1	0.007	0.933
s(ID)	2.675	3	10.324	3.34e-05 ***

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

R-sq.(adj) = 0.46 Deviance explained = 53.2%
-ML = 17.378 Scale est. = 0.1283 n = 36

```
AICc [1] 39.84918
```

Bites in squirrel

Nb obs : 20

IL.15 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL.17

Bites in cyno

Nb obs : 36

IL.17 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

Bites in squirrel

Nb obs : 20

IL.17 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL.1B

Bites in cyno

Nb obs : 36

IL.1B ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

Bites in squirrel

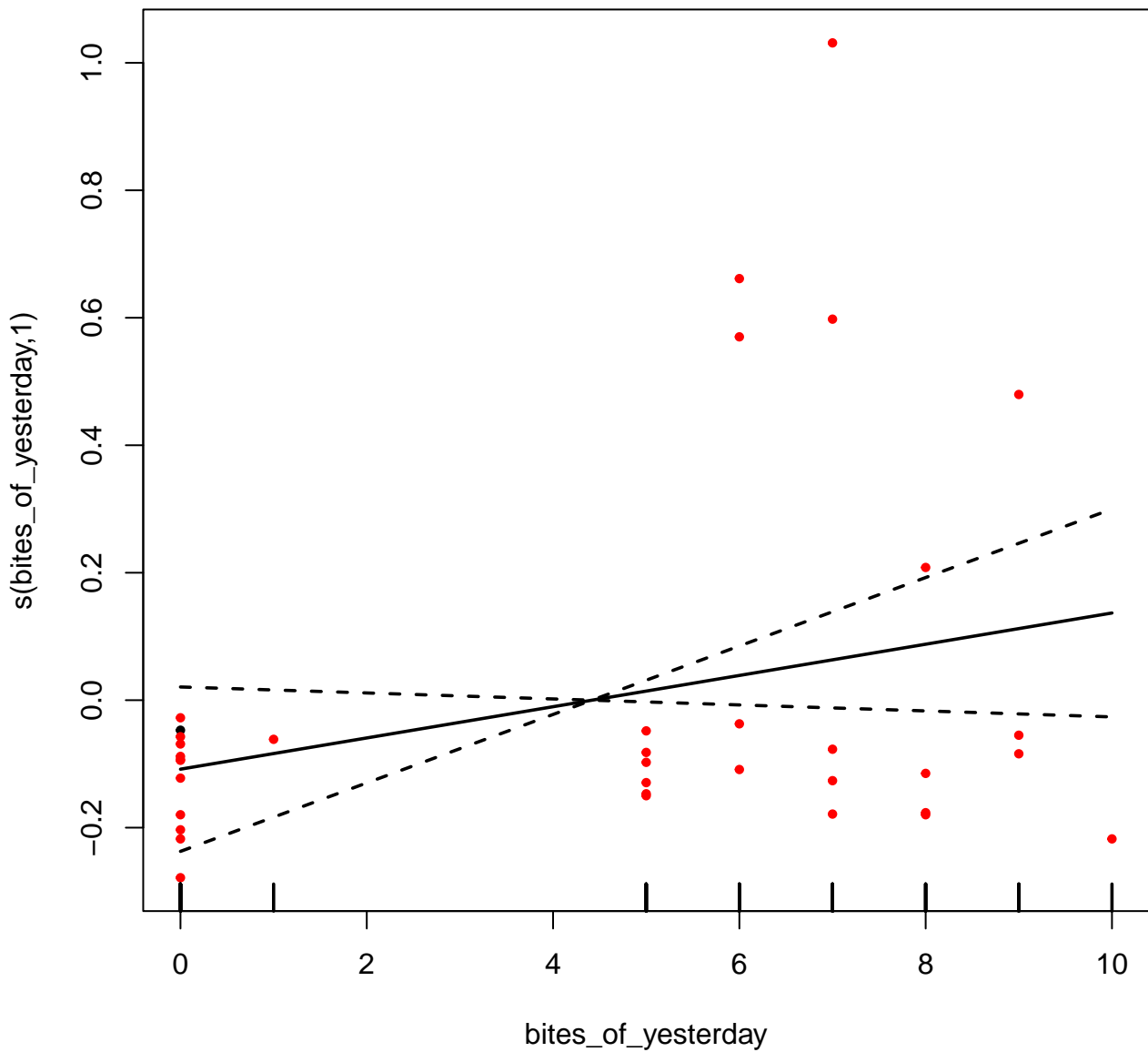
Nb obs : 20

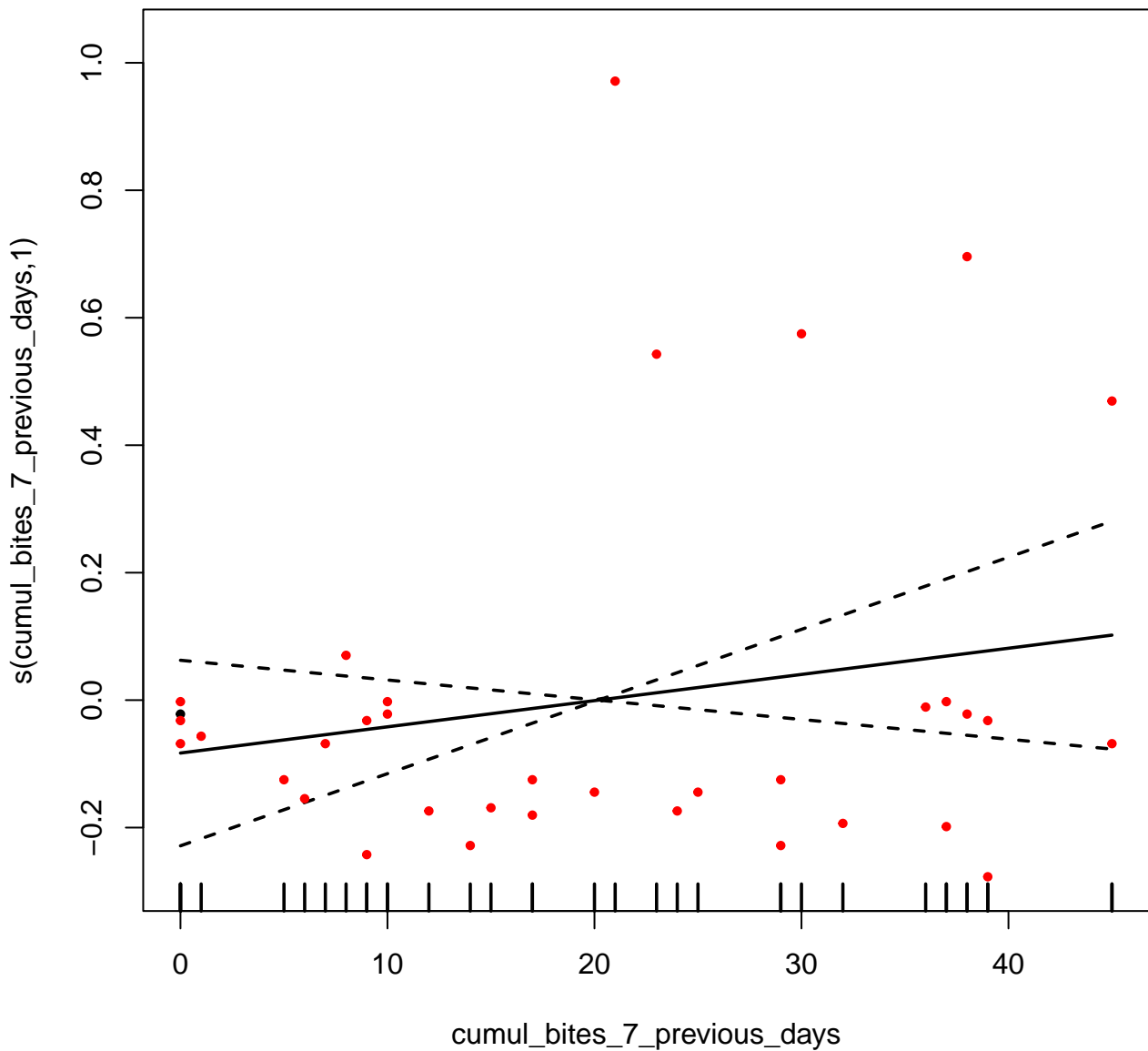
IL.1B ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL. 2

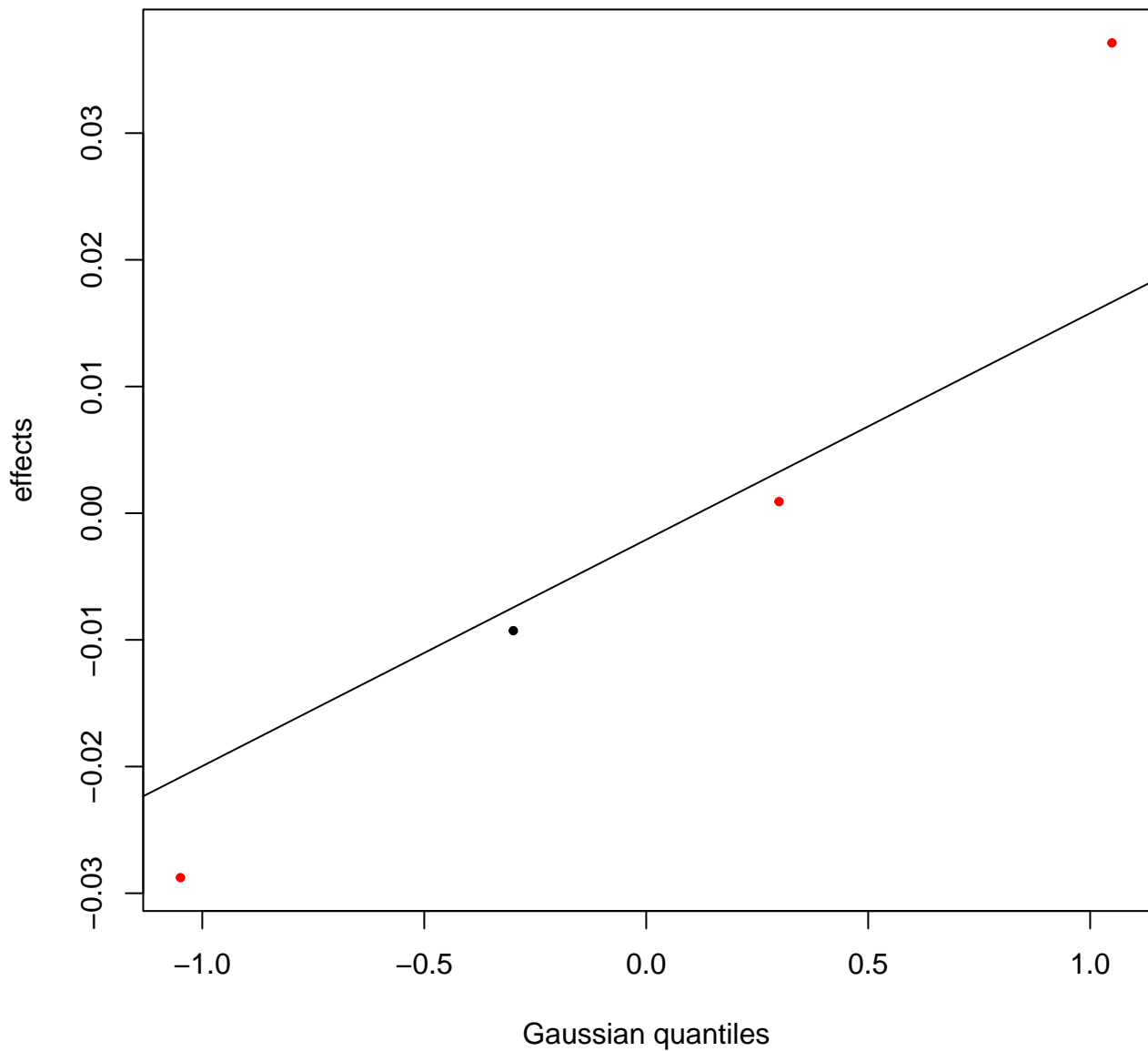
Bites in cyno

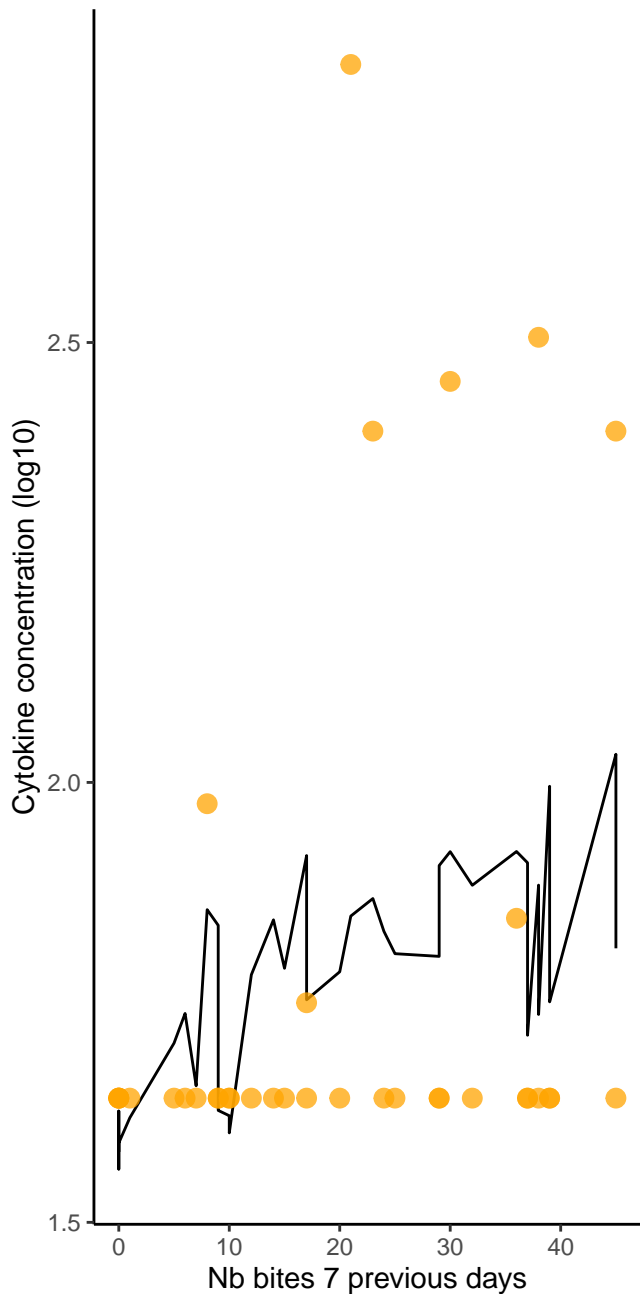
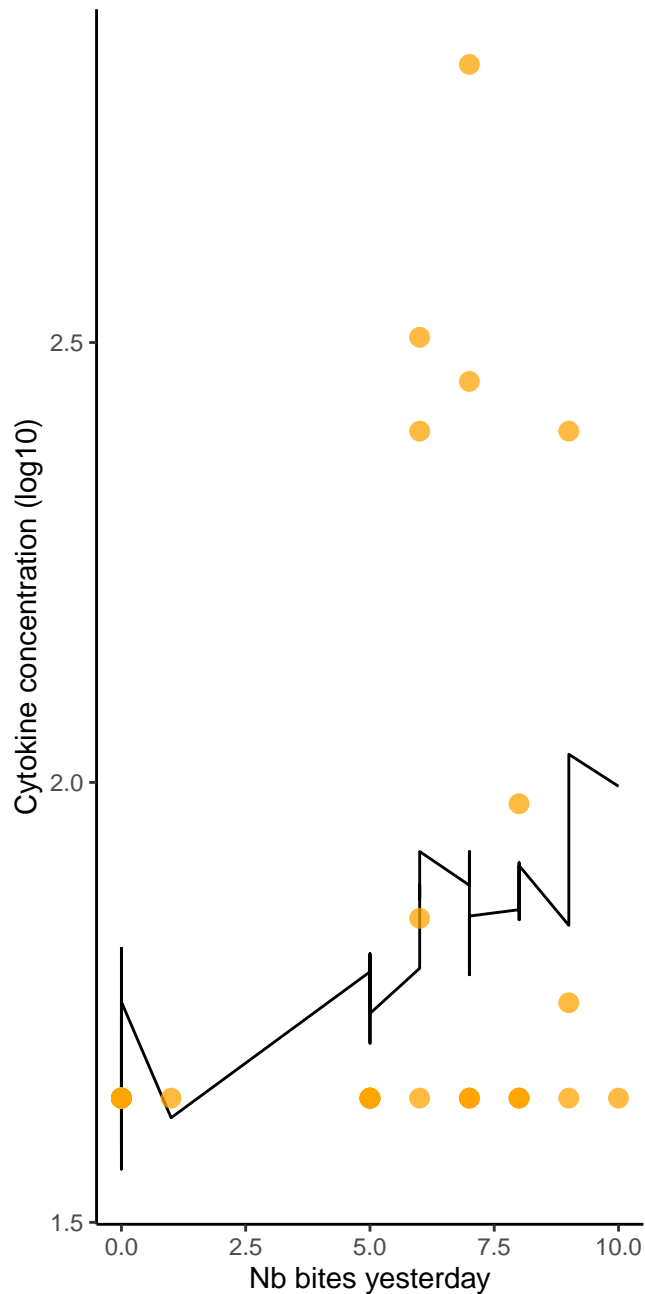
Nb obs : 36

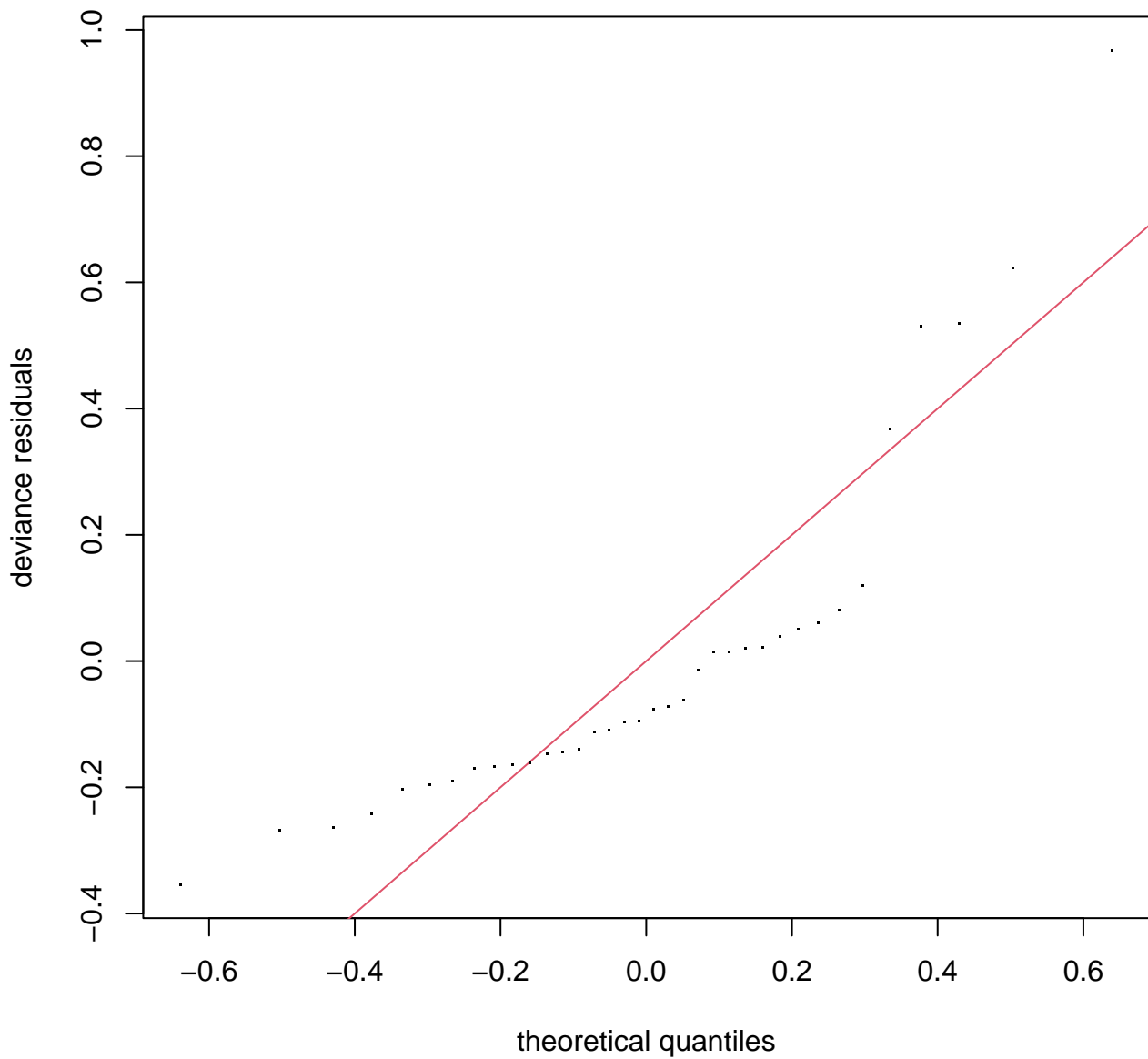




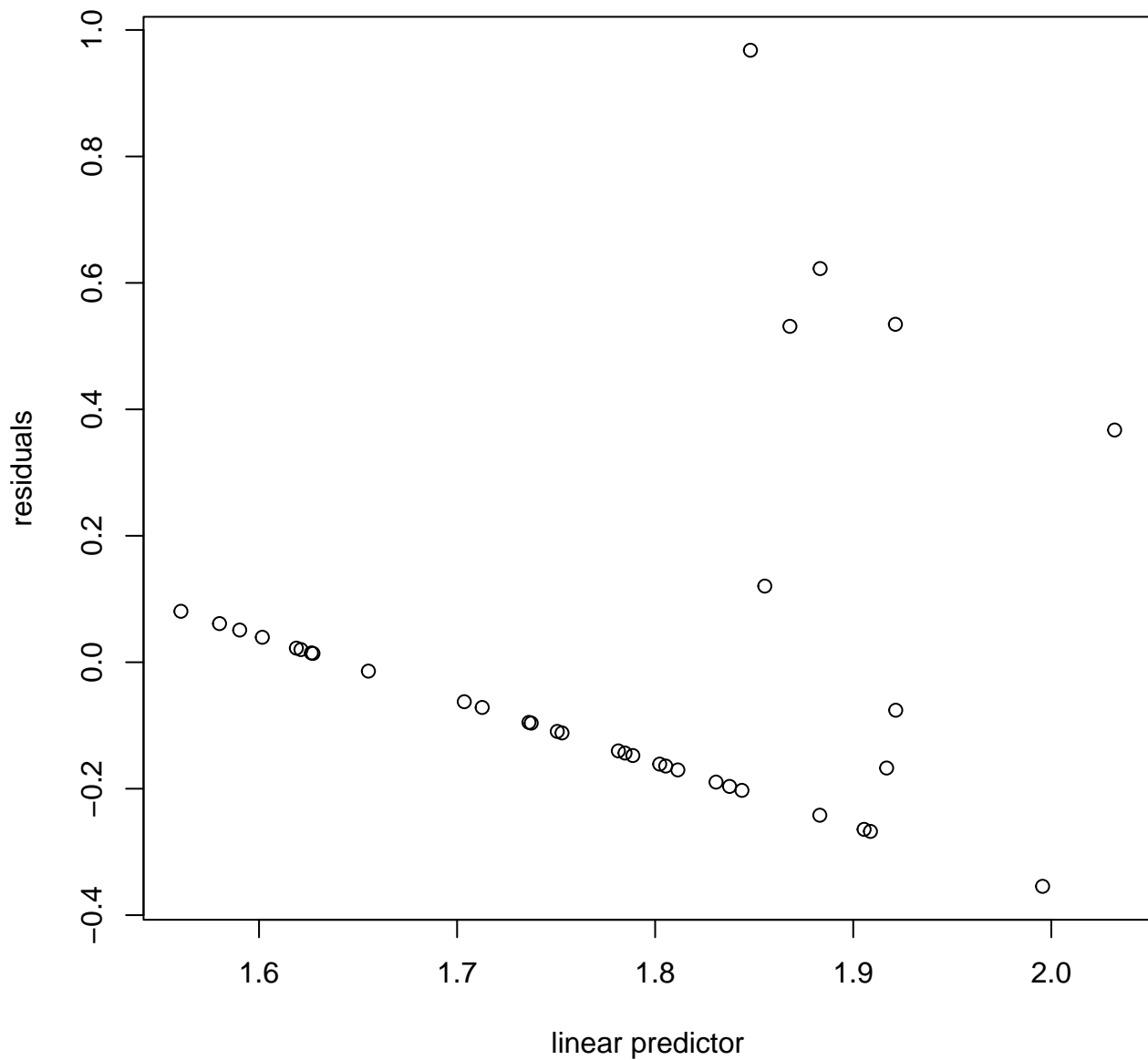
s(ID,0.67)



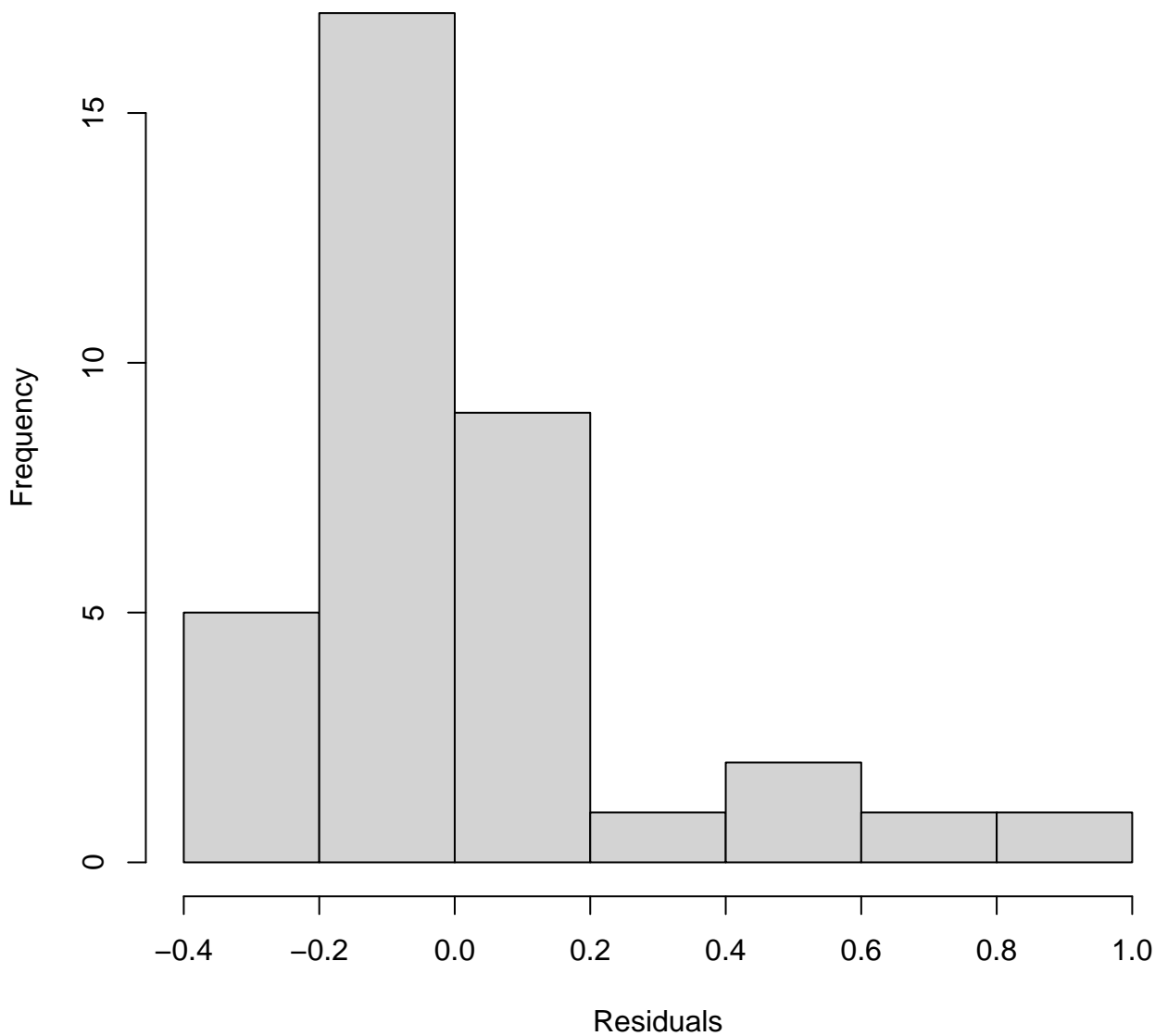




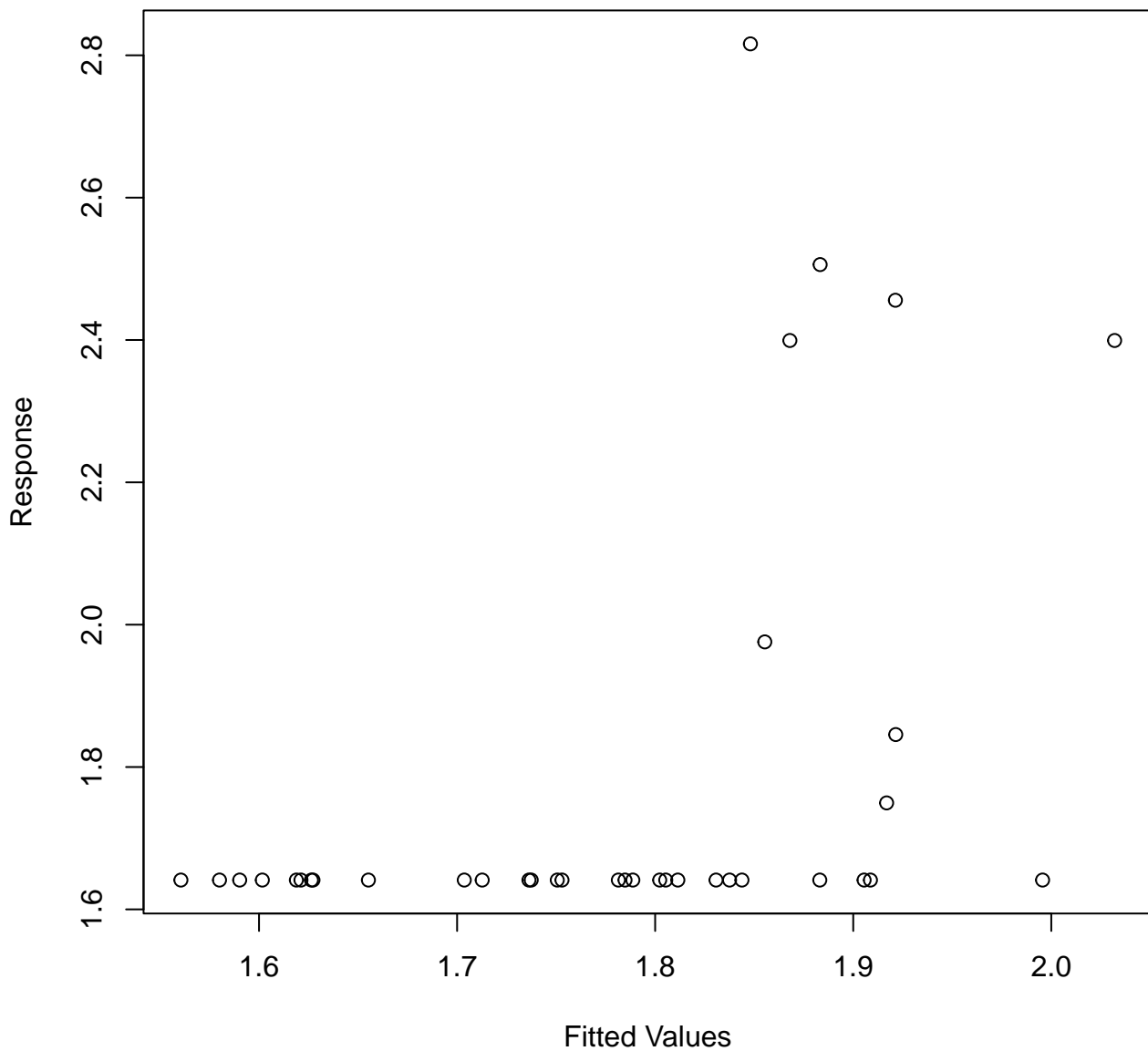
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 14 iterations.
 Gradient range [-1.456899e-06,1.78794e-07]
 (score 5.618909 & scale 0.08440841).
 Hessian positive definite, eigenvalue range [6.347374e-07,18.01146].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.000	1.000	1.00	0.41
s(cumul_bites_7_previous_days)	3.000	1.000	0.97	0.34
s(ID)	4.000	0.674	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:

$\log_{10}(\text{value}) \sim s(\text{bites_of_yesterday}, k = 4) + s(\text{cumul_bites_7_previous_days},$
 $k = 4) + s(\text{ID}, \text{bs} = "re", k = 2)$

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.78056	0.05506	32.34	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.0000	1	2.817	0.103
s(cumul_bites_7_previous_days)	1.0000	1	1.301	0.262
s(ID)	0.6744	3	0.358	0.210

R-sq.(adj) = 0.133 Deviance explained = 19.9%

-ML = 5.6189 Scale est. = 0.084408 n = 36

```
AICc [1] 21.84841
```

Bites in squirrel

Nb obs : 20

IL.2 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL . 4₁

Bites in cyno

Nb obs : 36

IL.4 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

Bites in squirrel

Nb obs : 20

IL.4 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL. 5

Bites in cyno

Nb obs : 36

IL.5 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

Bites in squirrel

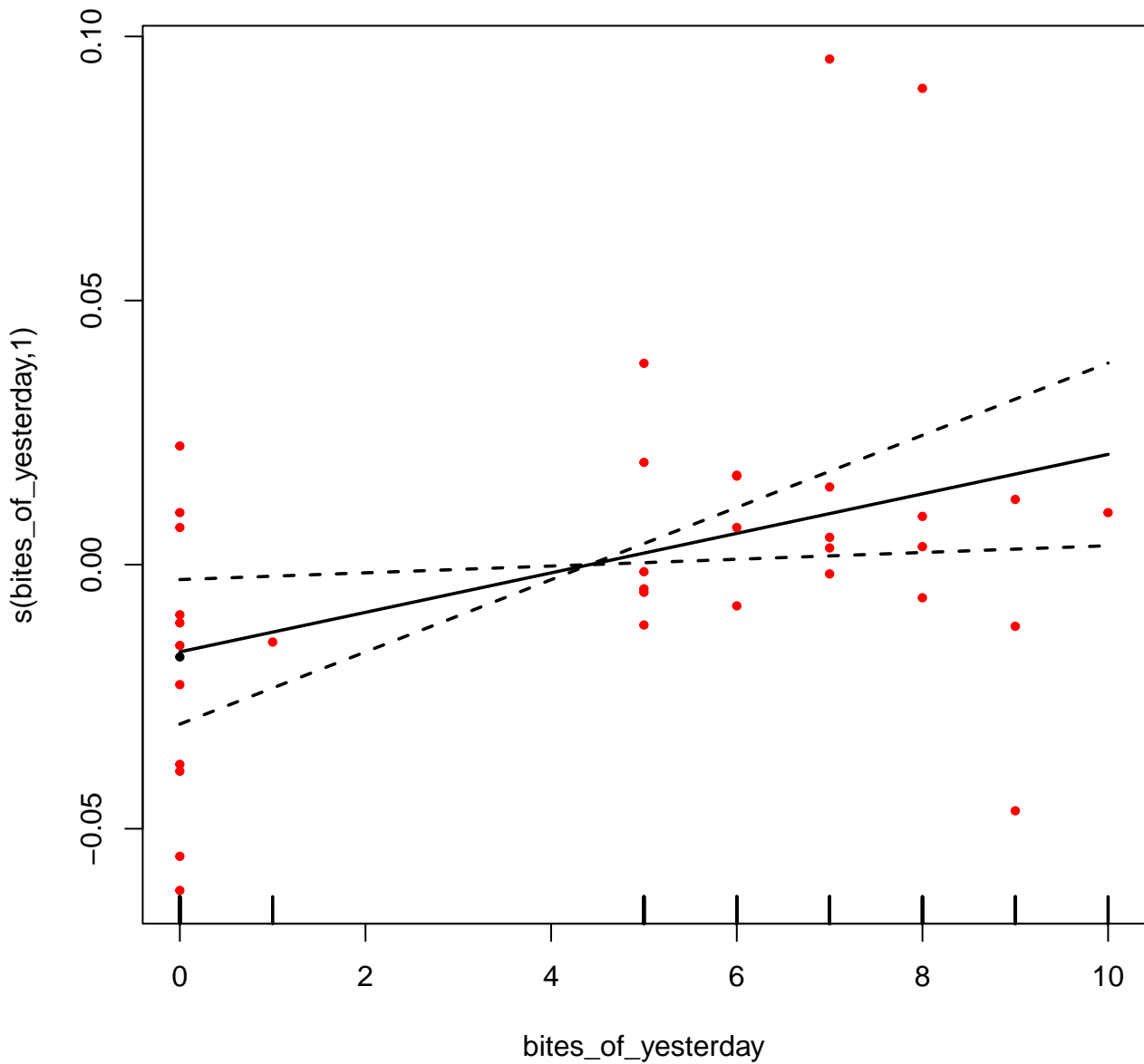
Nb obs : 20

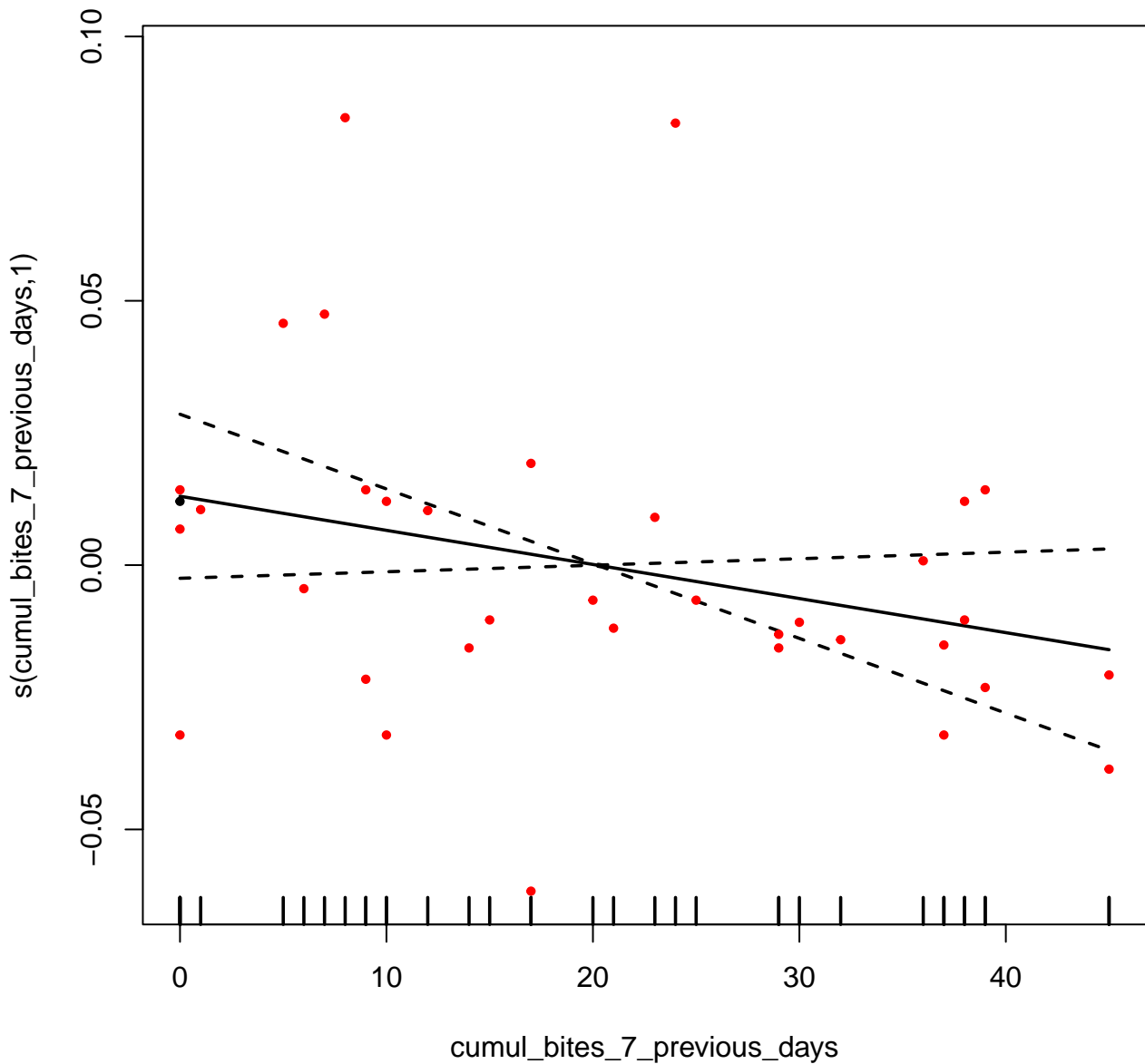
IL.5 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL. 6

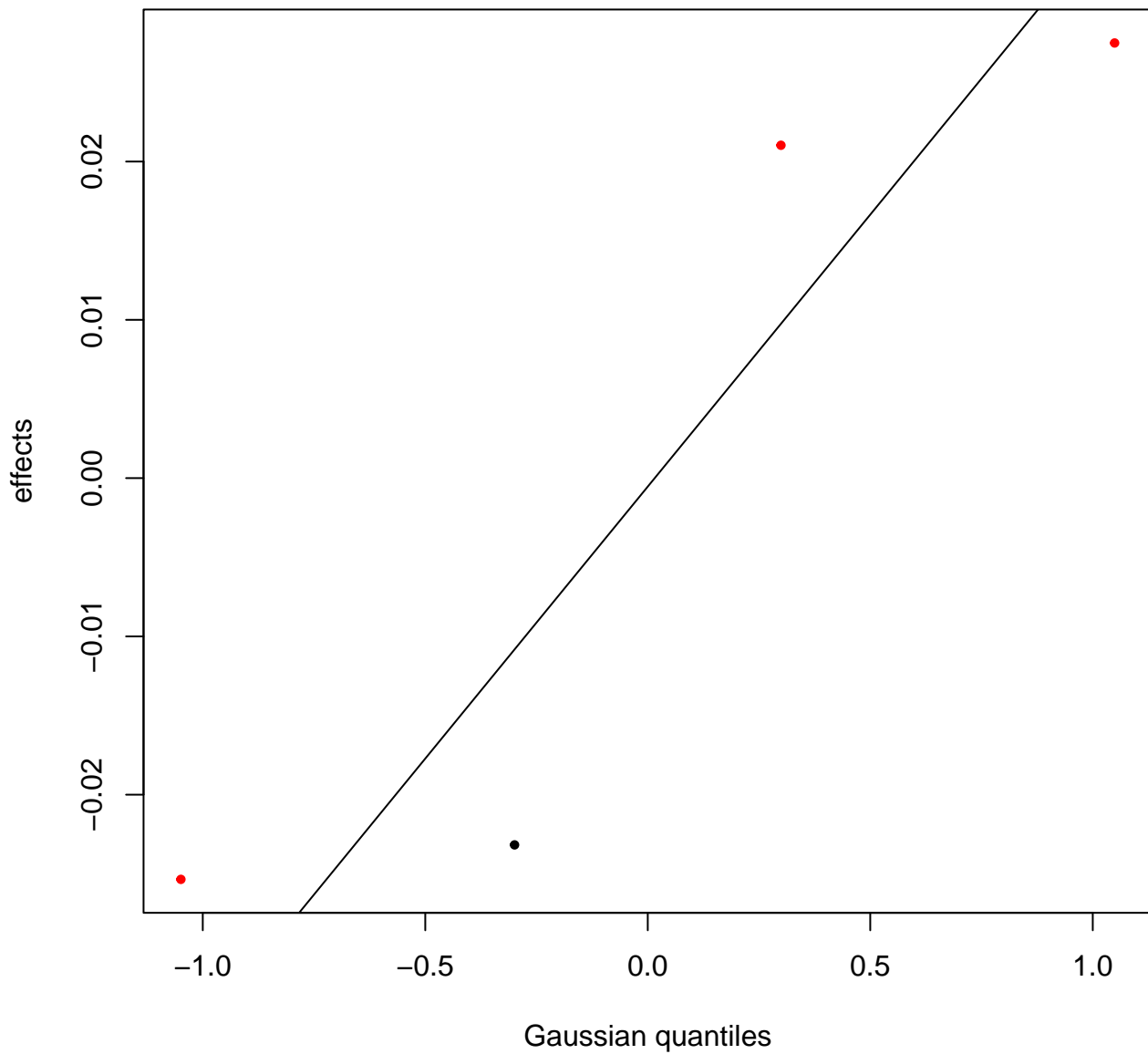
Bites in cyno

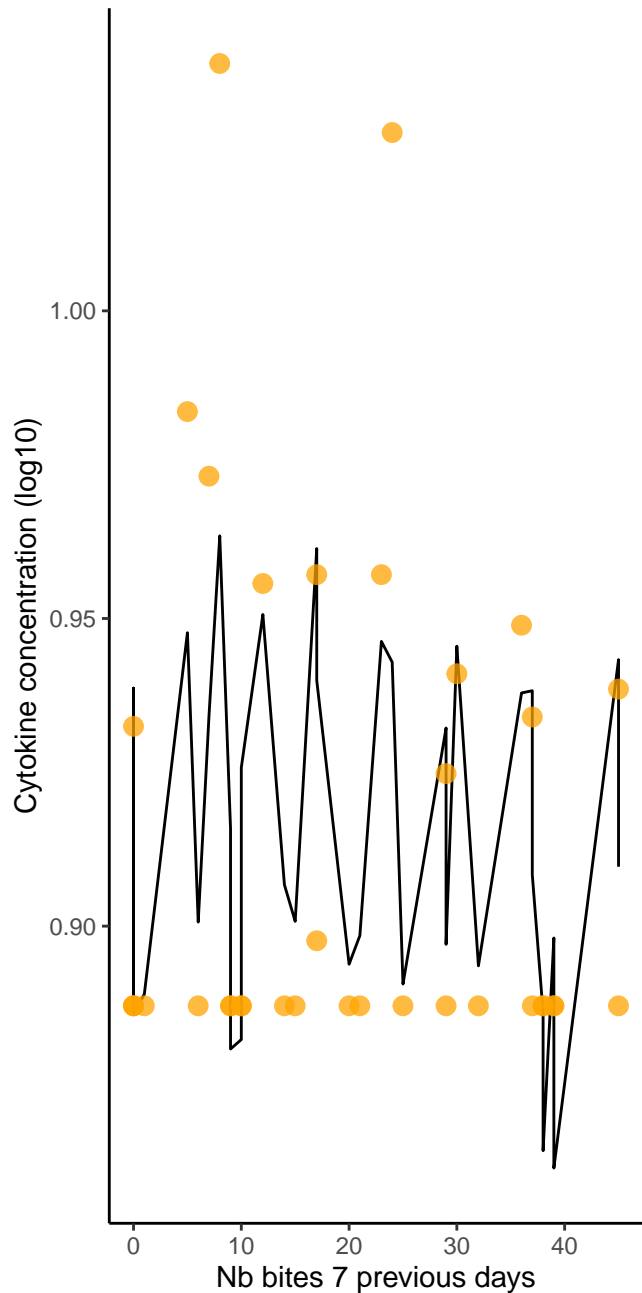
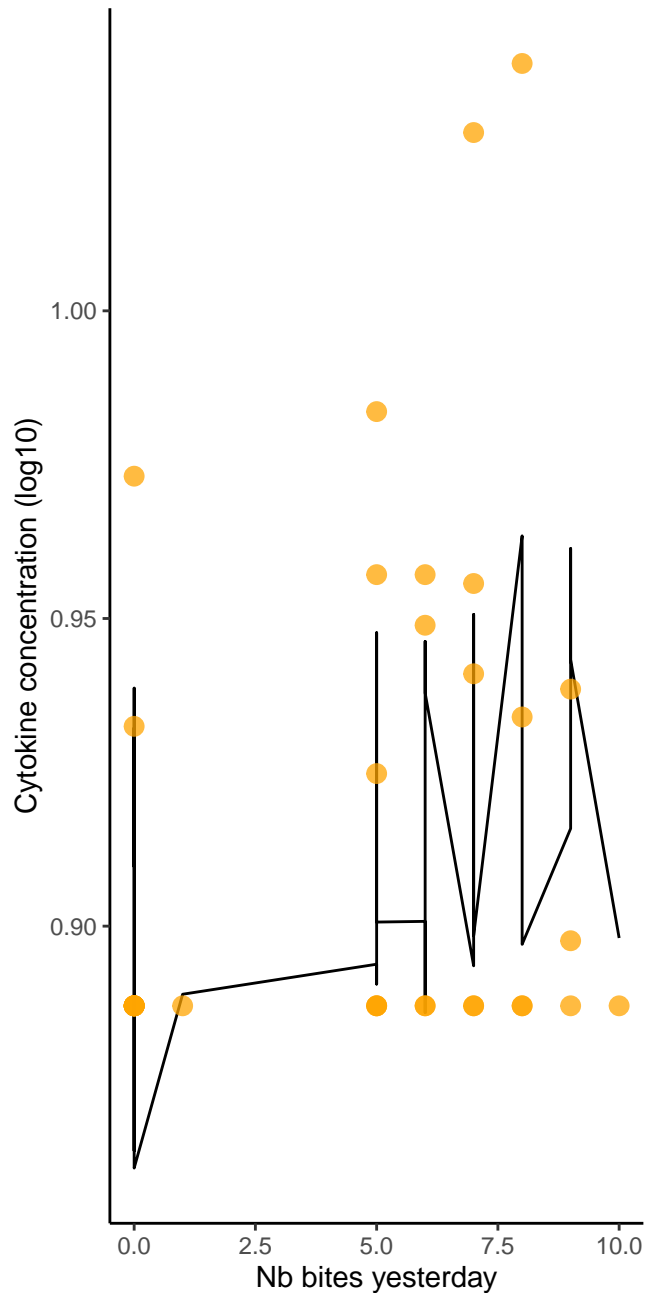
Nb obs : 36

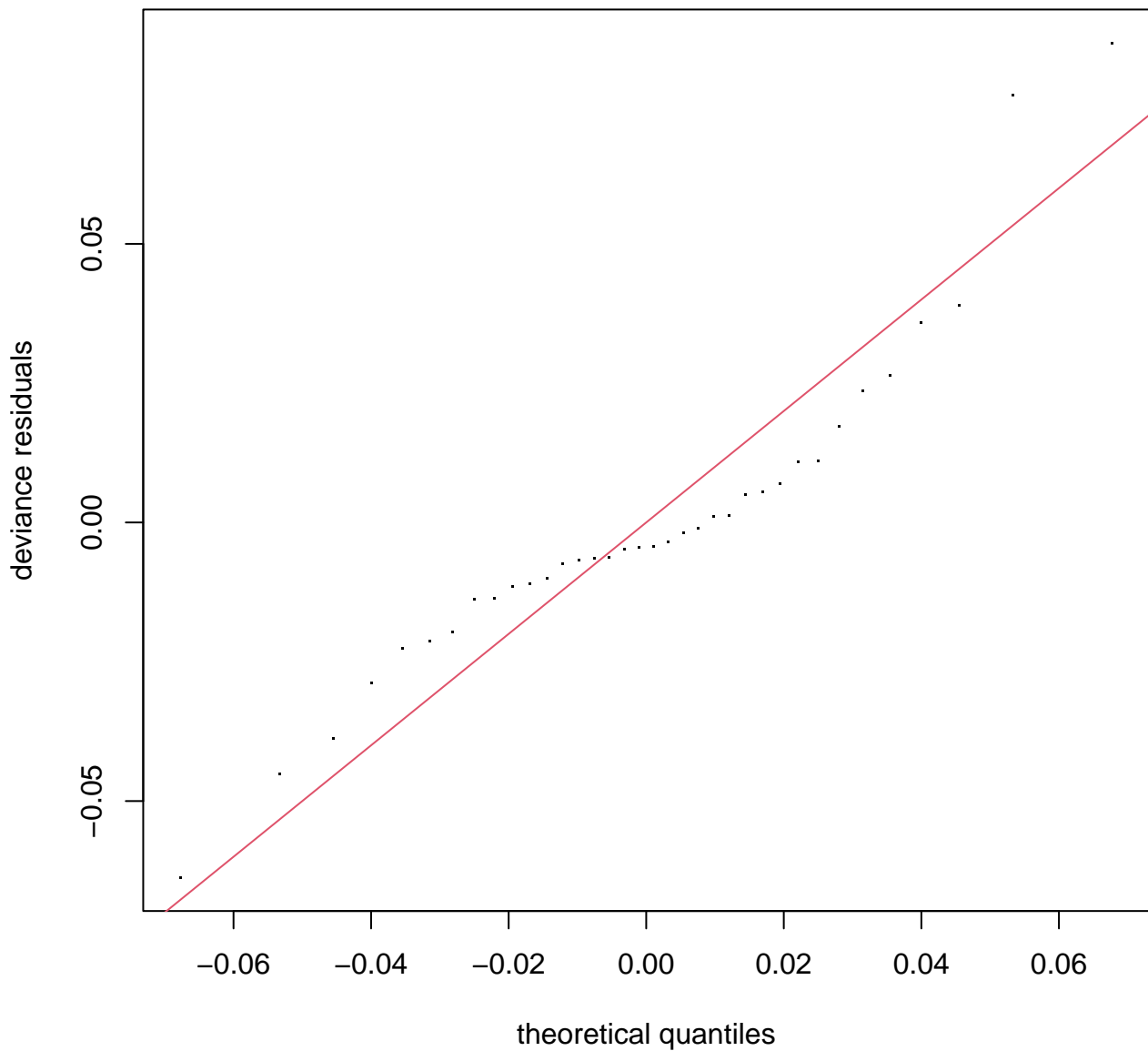




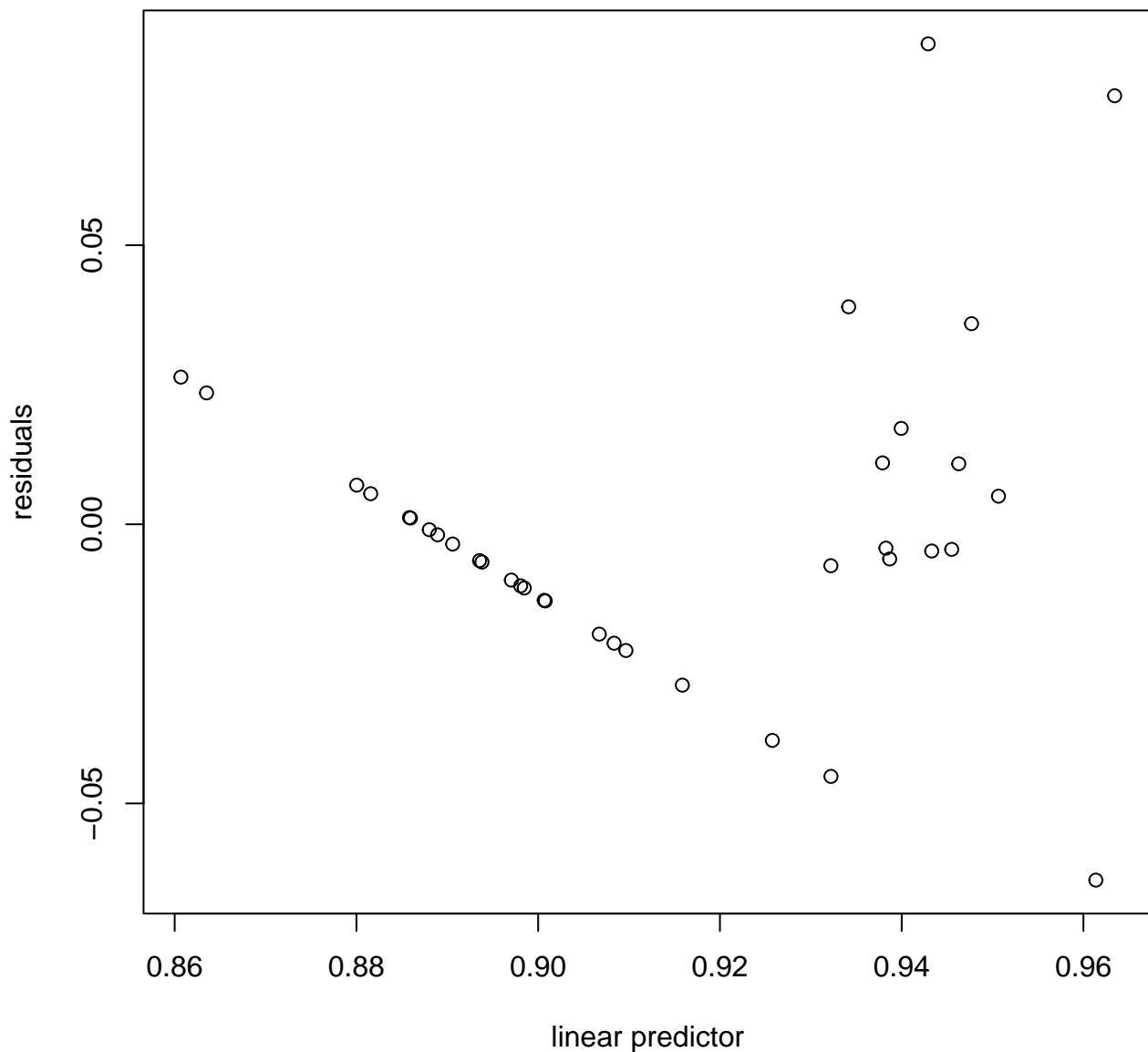
s(ID,2.62)



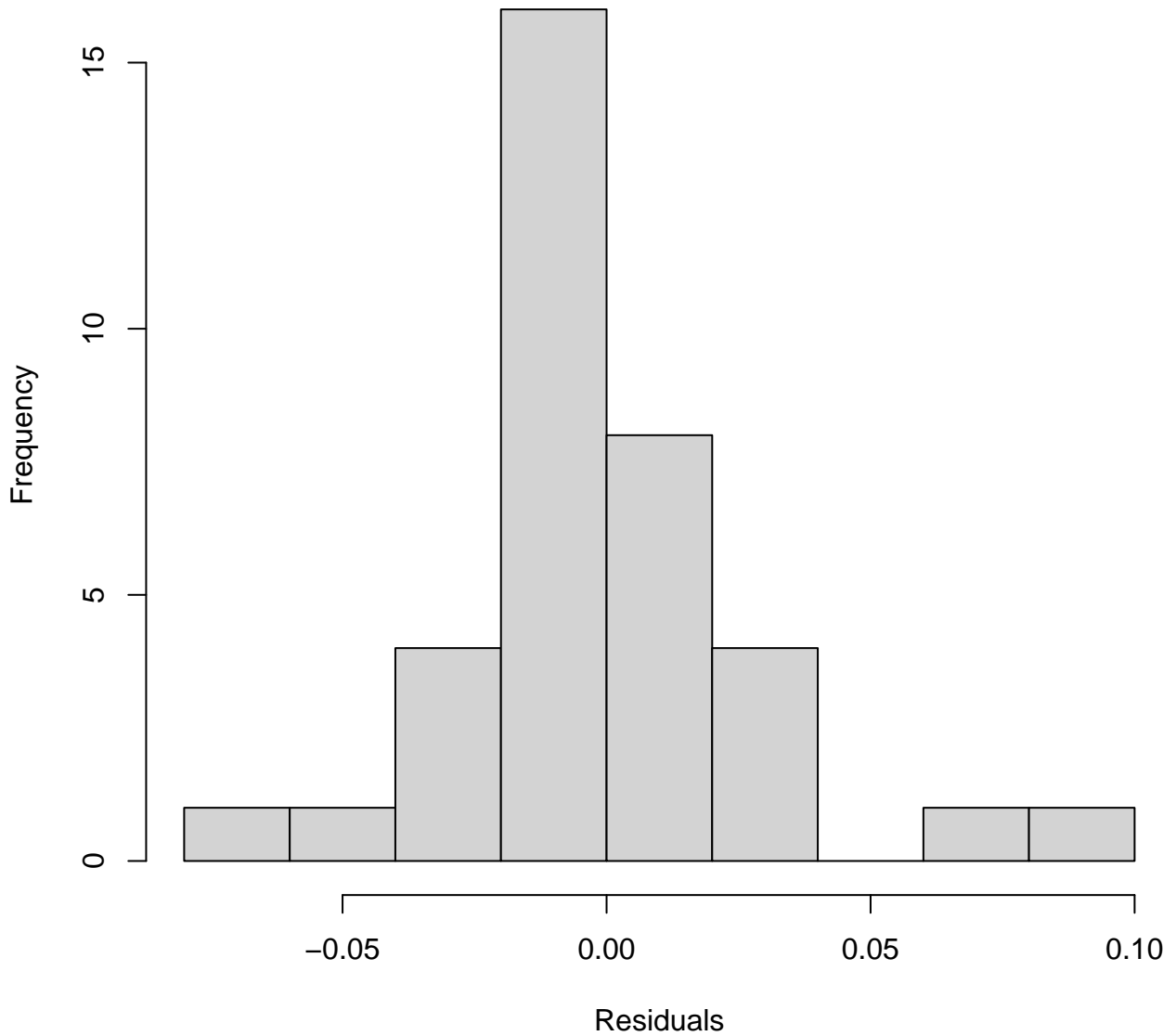




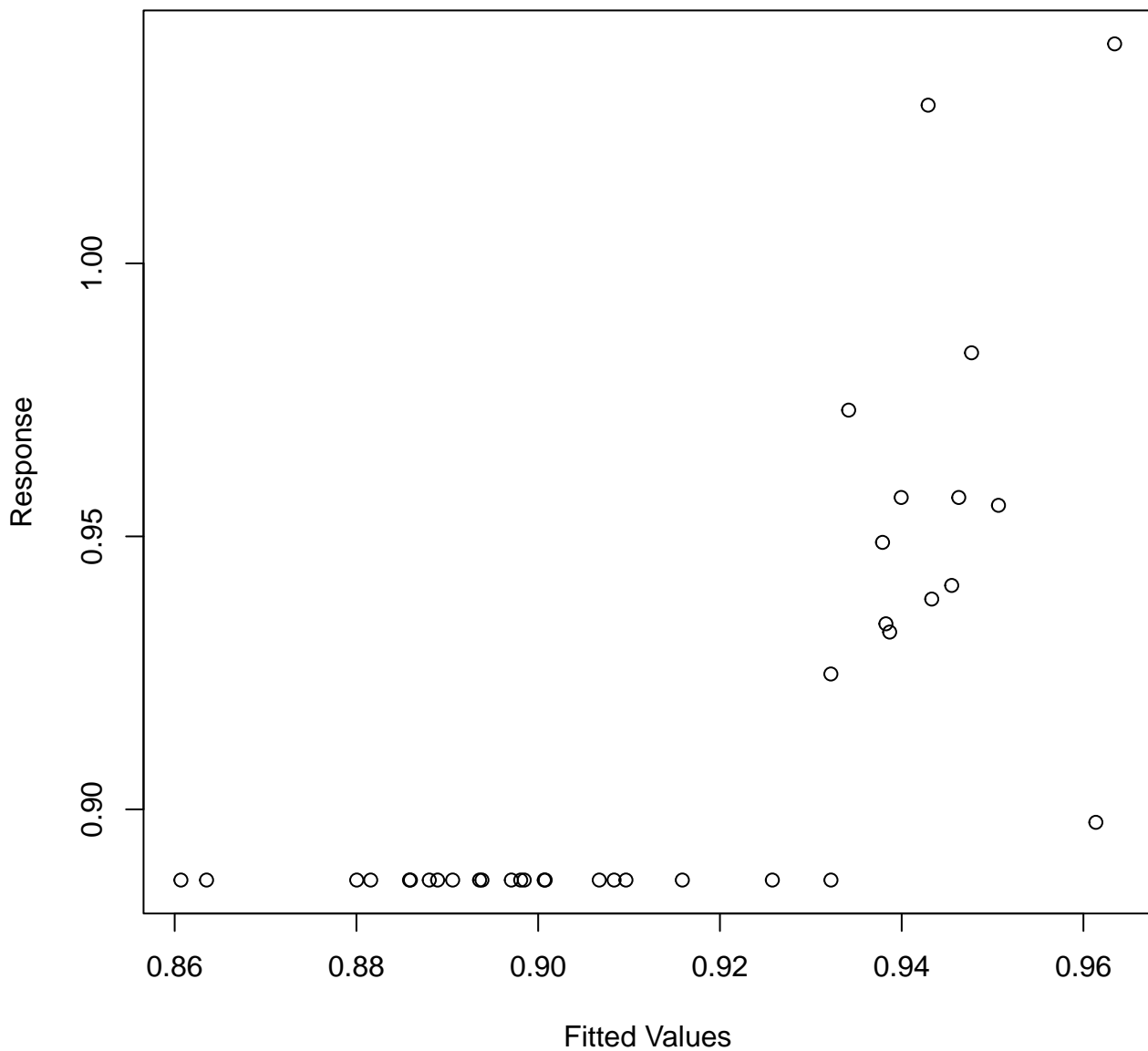
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 12 iterations.
 Gradient range [-2.045525e-05,7.823253e-06]
 (score -71.31694 & scale 0.0009469296).
 Hessian positive definite, eigenvalue range [1.142701e-05,18.18327].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	0.87	0.18
s(cumul_bites_7_previous_days)	3.00	1.00	1.04	0.49
s(ID)	4.00	2.62	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.91468	0.01443	63.38	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	5.826	0.022101 *
s(cumul_bites_7_previous_days)	1.000	1	2.818	0.103603
s(ID)	2.618	3	8.562	0.000115 ***

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

R-sq.(adj) = 0.47 Deviance explained = 54%
-ML = -71.317 Scale est. = 0.00094693 n = 36

AICc [1] -136.8421

Bites in squirrel

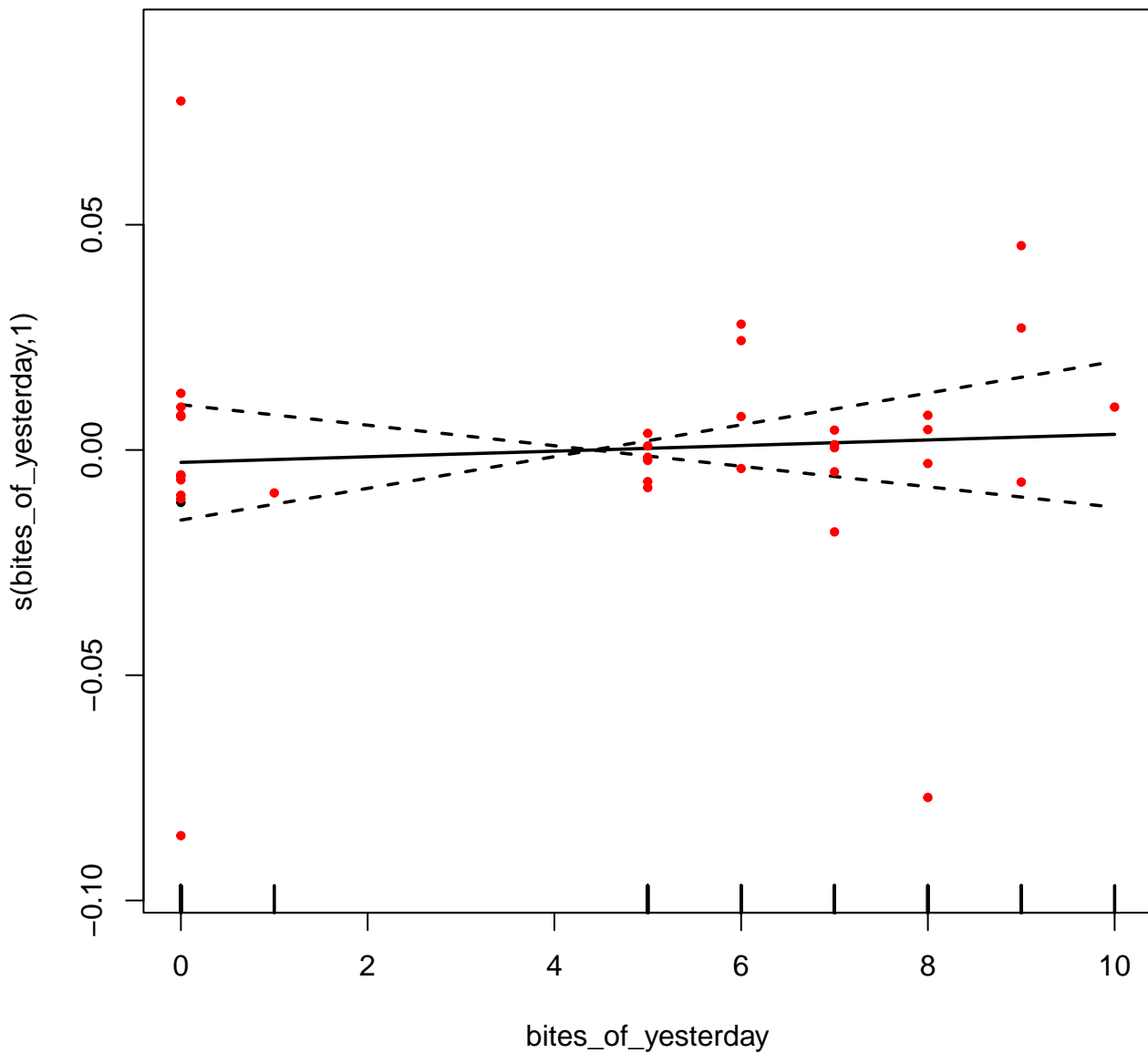
Nb obs : 20

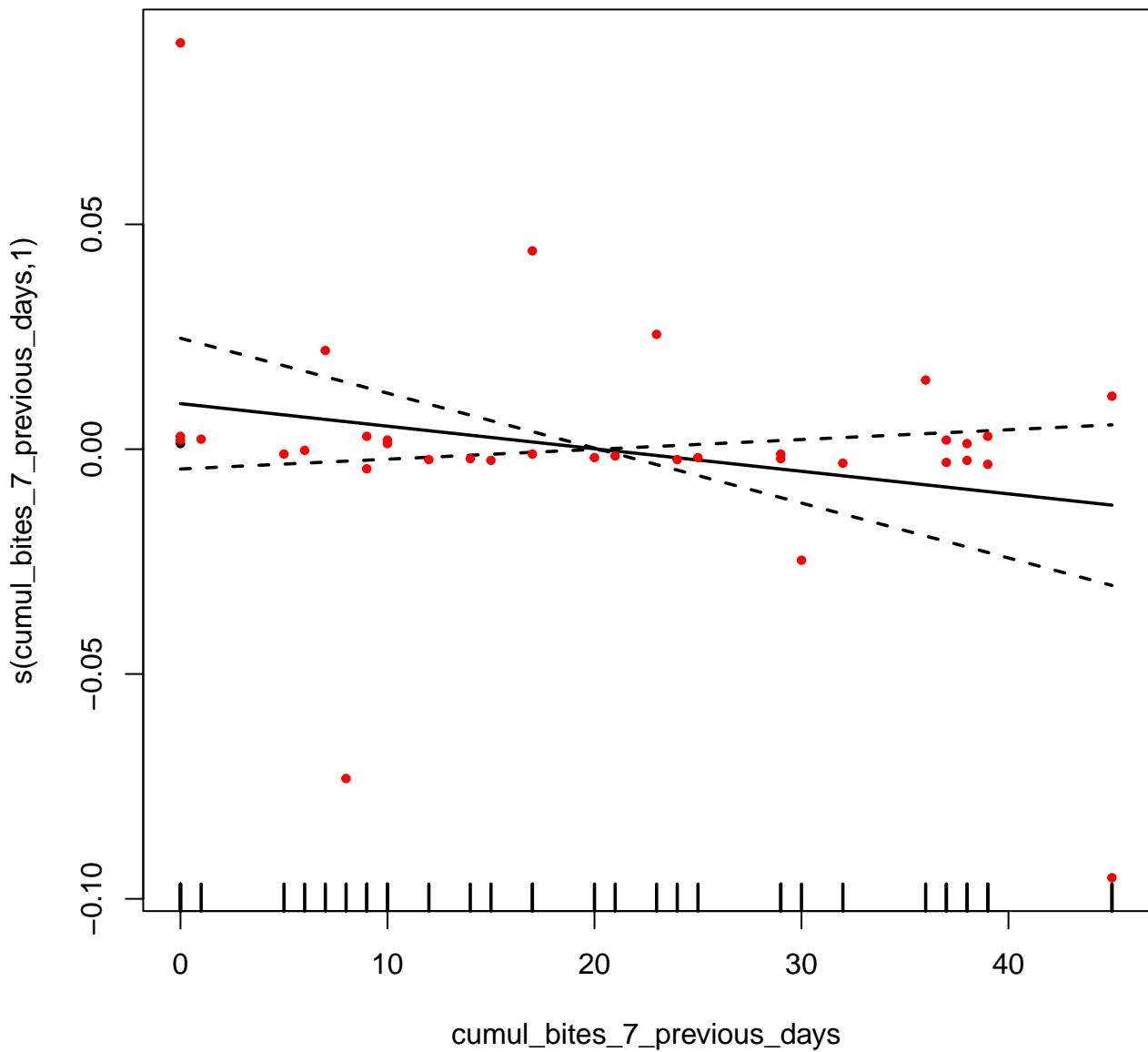
IL.6 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL.8

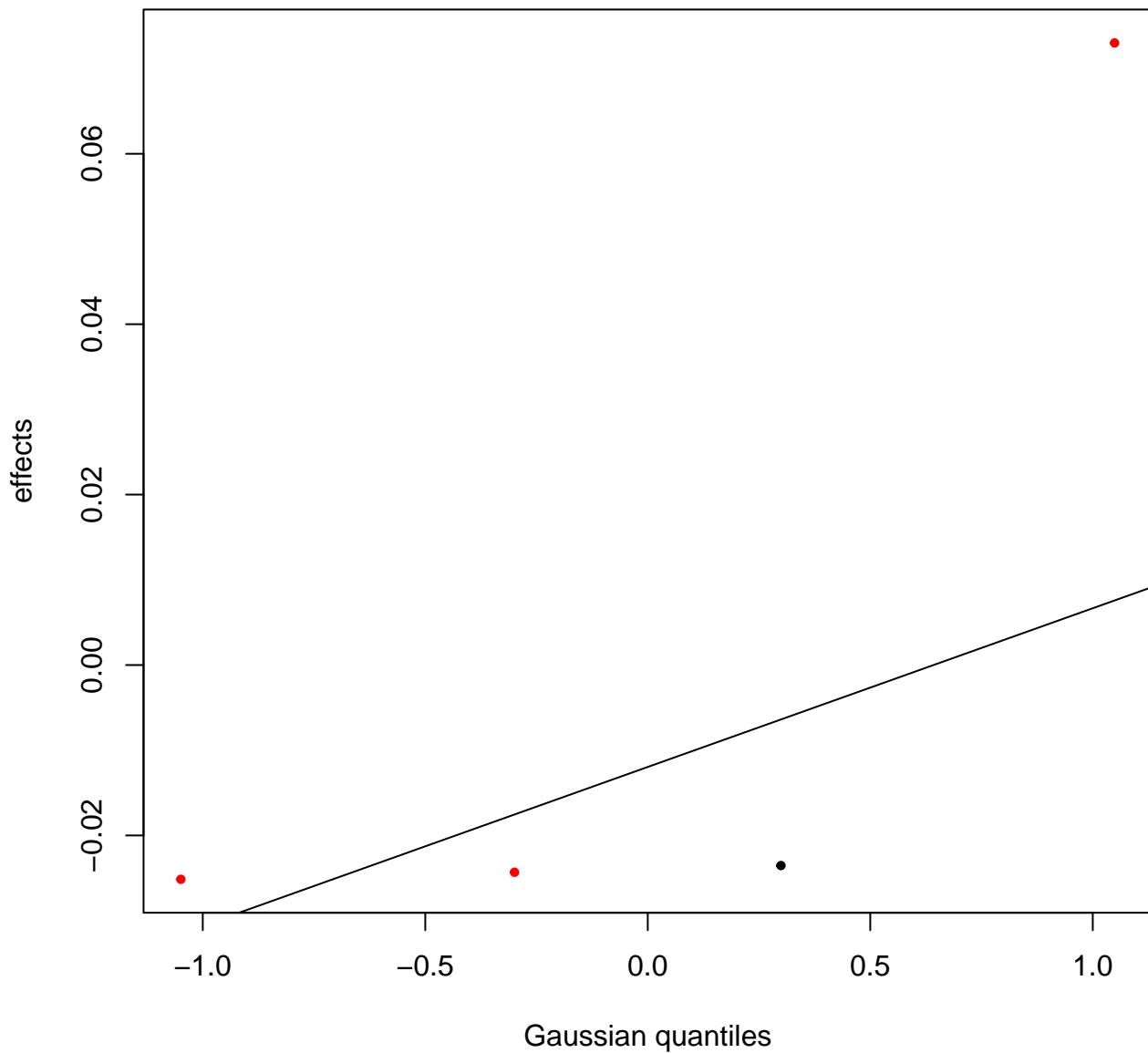
Bites in cyno

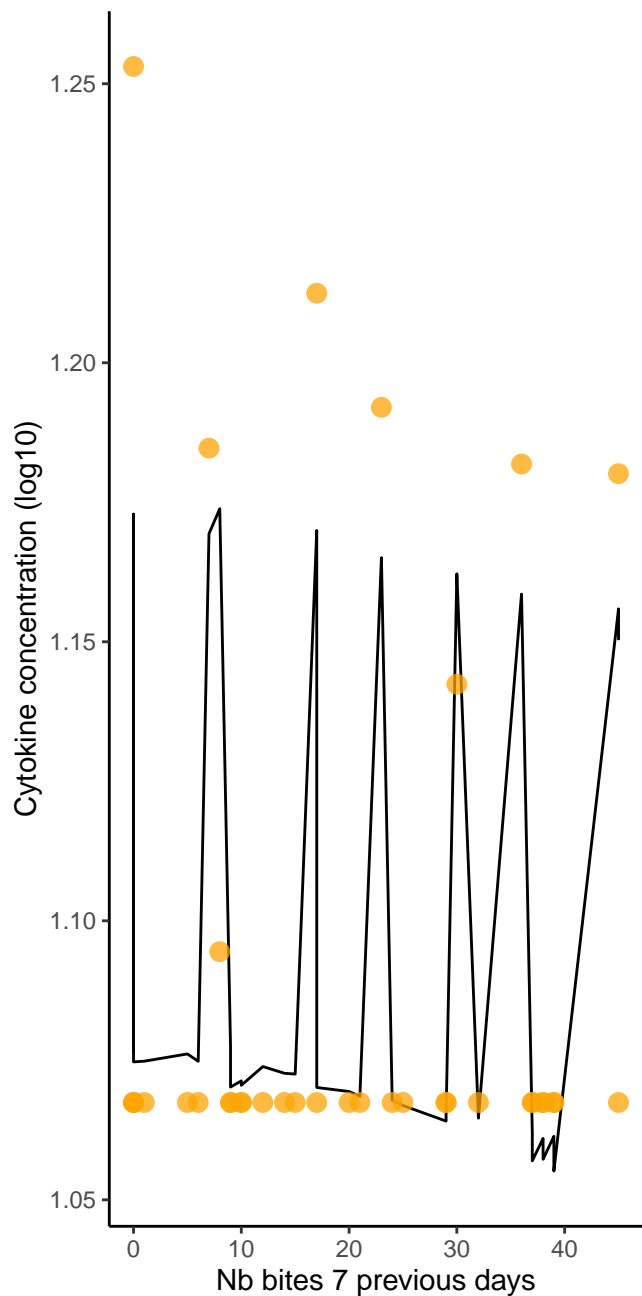
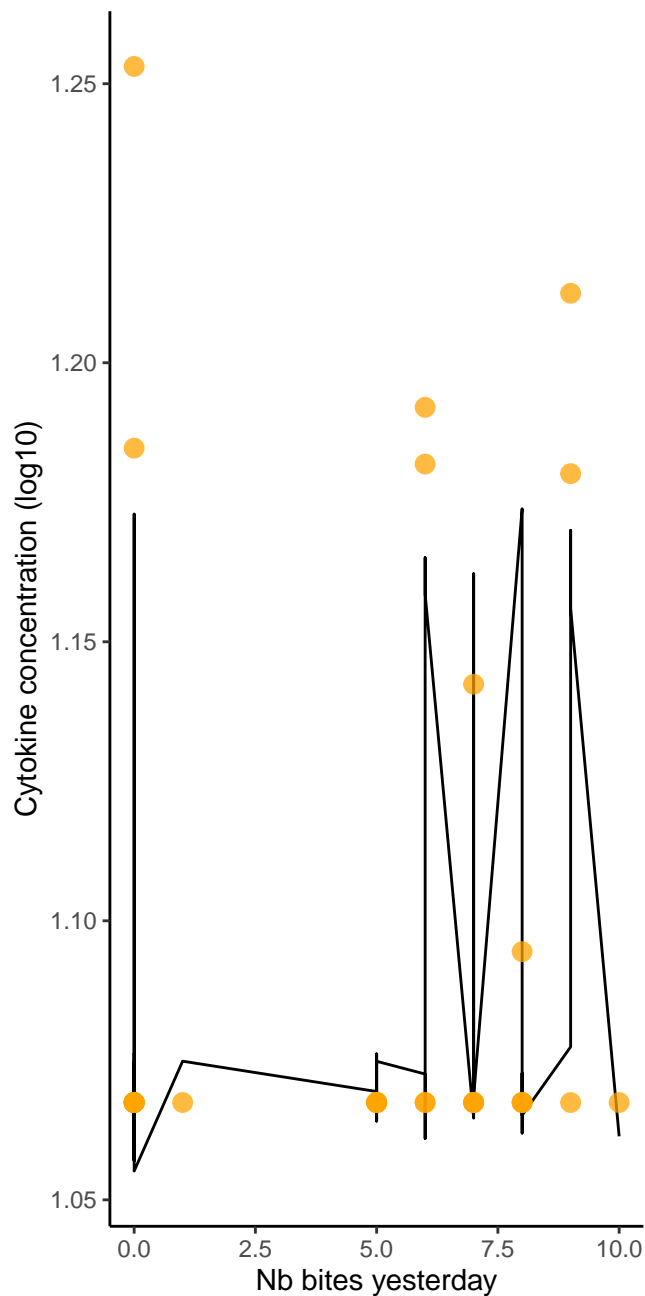
Nb obs : 36

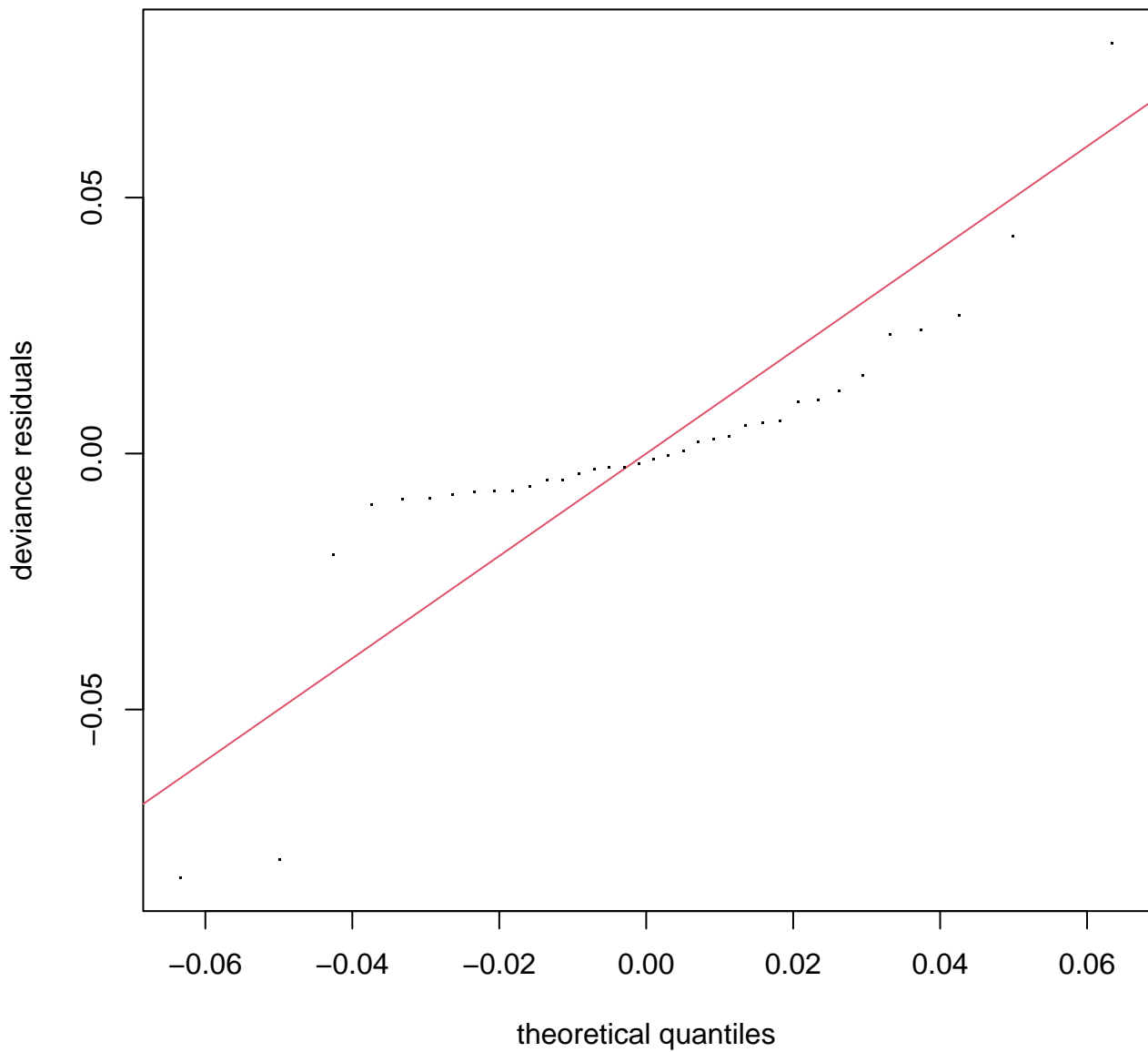




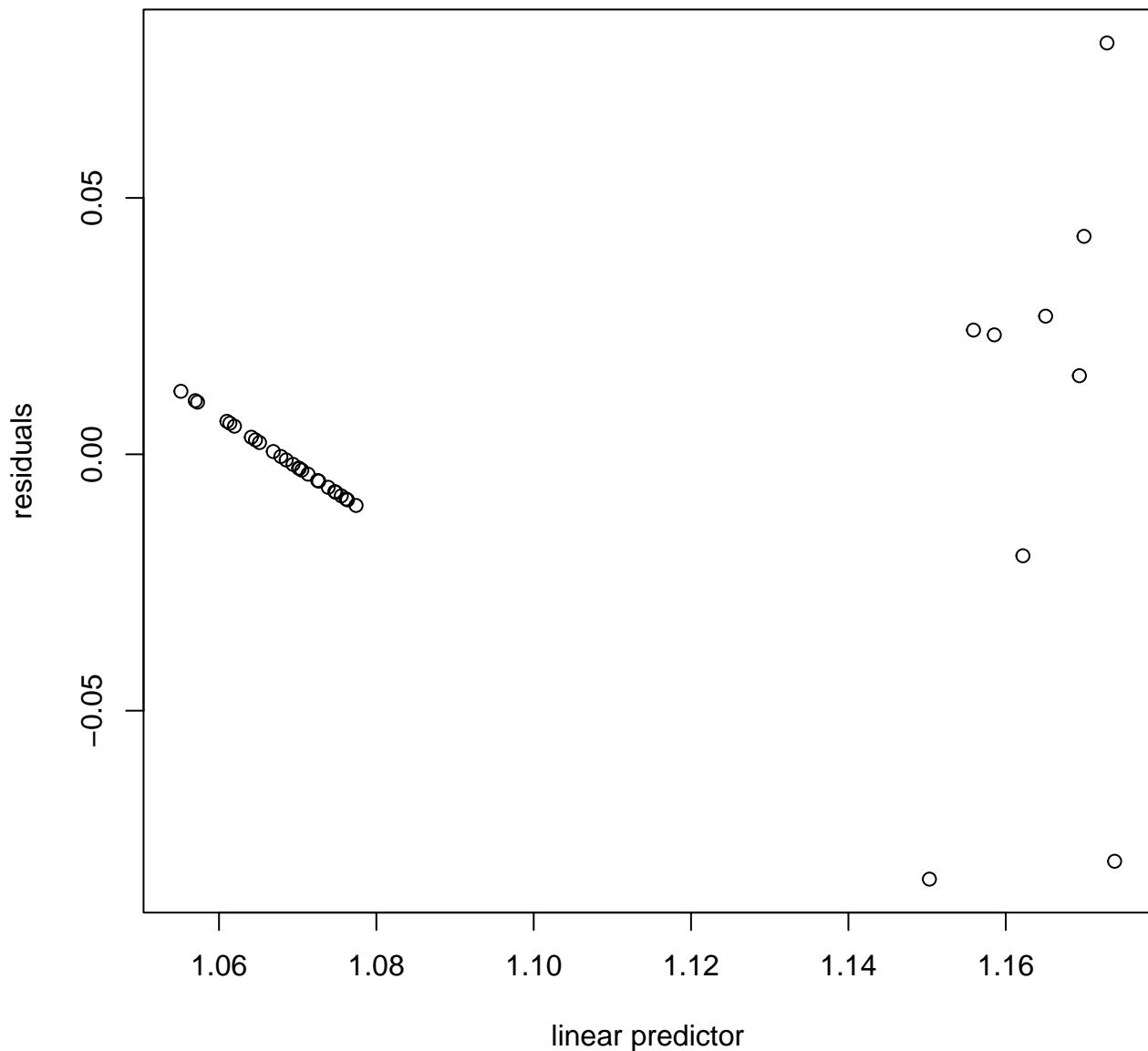
s(ID,2.87)



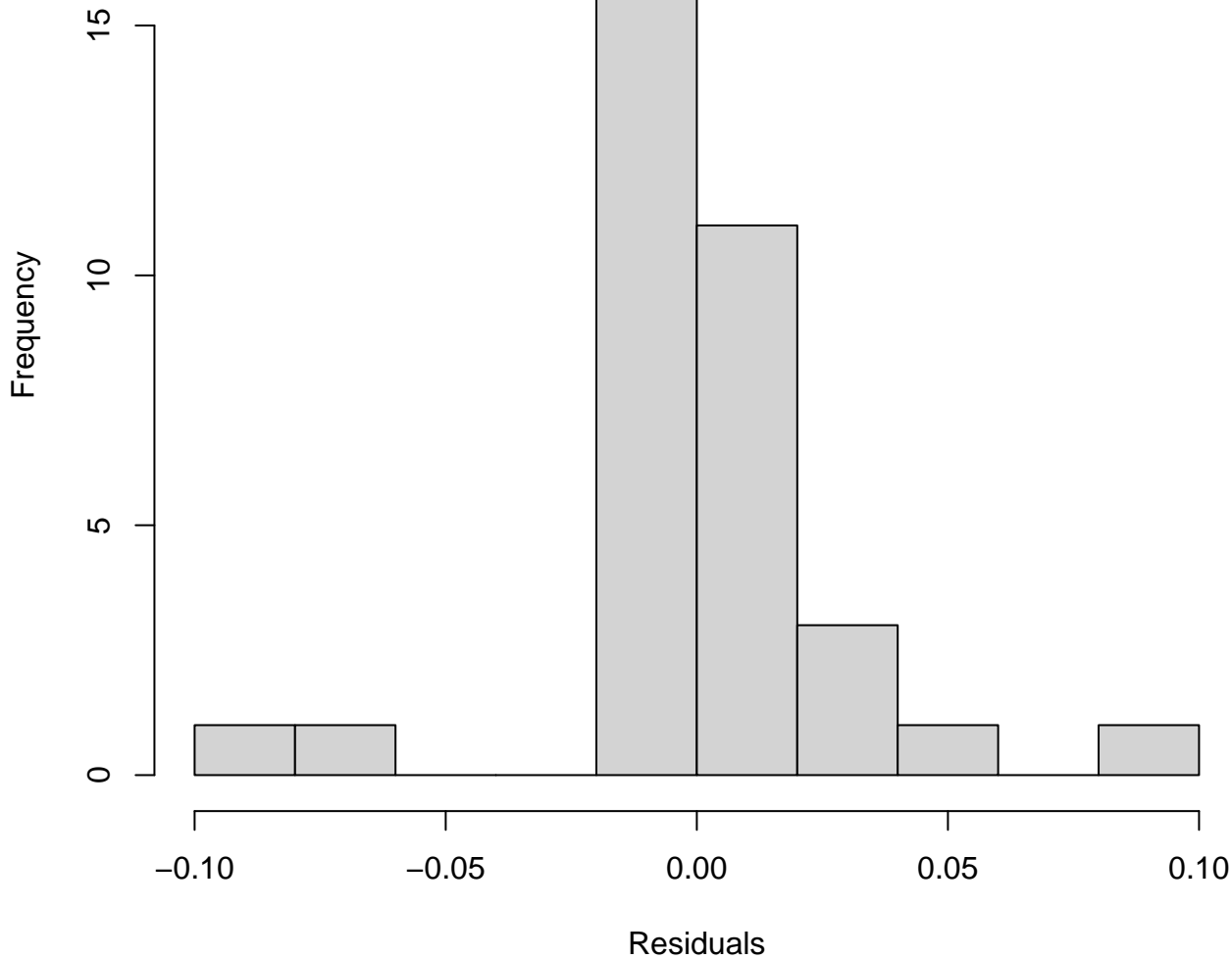




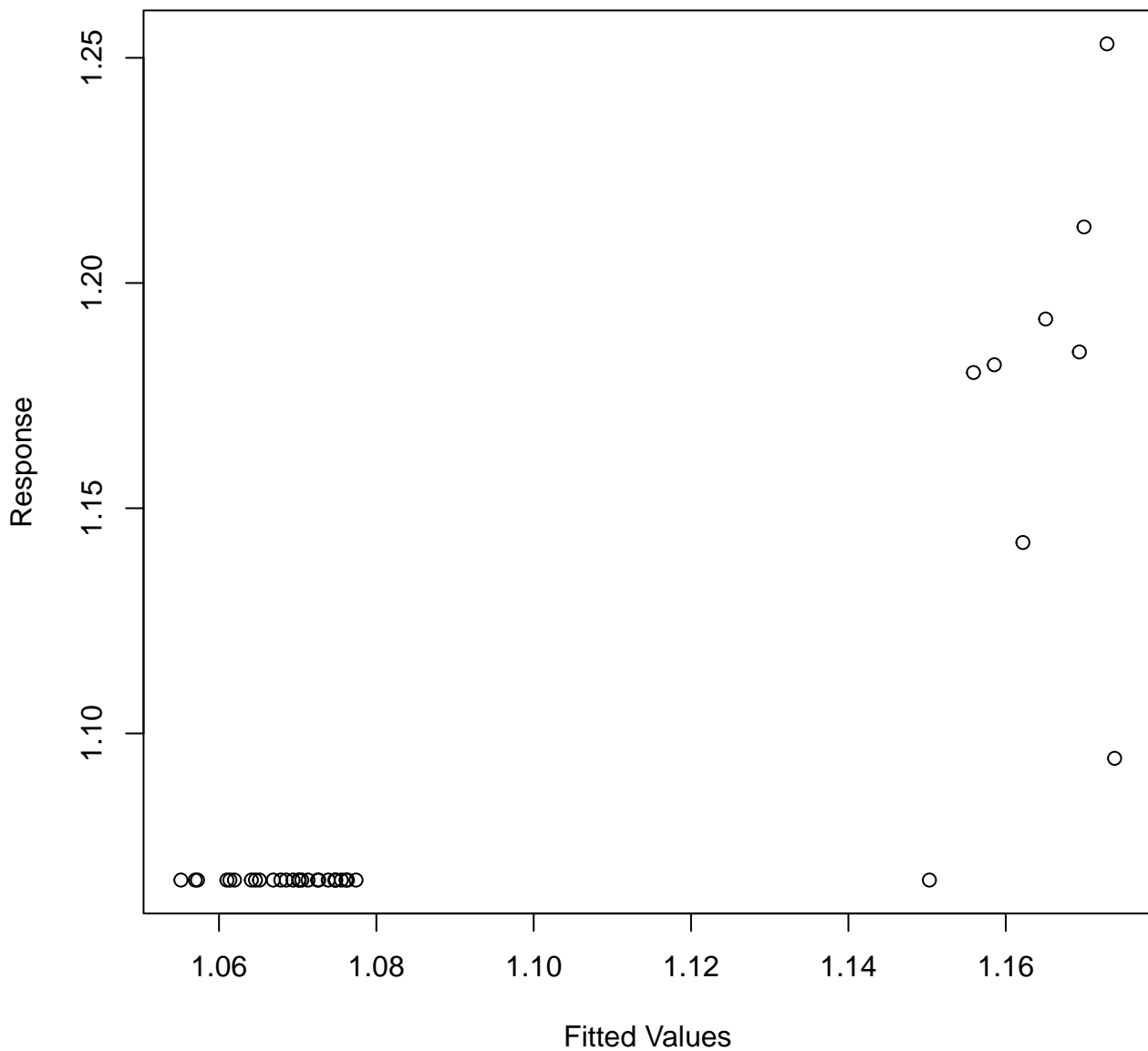
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 10 iterations.
 Gradient range [-2.923835e-05,2.827538e-06]
 (score -71.56567 & scale 0.000829855).
 Hessian positive definite, eigenvalue range [1.471799e-05,18.22273].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	0.92	0.23
s(cumul_bites_7_previous_days)	3.00	1.00	1.02	0.47
s(ID)	4.00	2.87	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.09249	0.02279	47.94	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.184	0.671
s(cumul_bites_7_previous_days)	1.000	1	1.942	0.174
s(ID)	2.866	3	26.339	<2e-16 ***

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

R-sq.(adj) = 0.692 Deviance explained = 73.5%
-ML = -71.566 Scale est. = 0.00082985 n = 36

AICc [1] -141.7083

Bites in squirrel

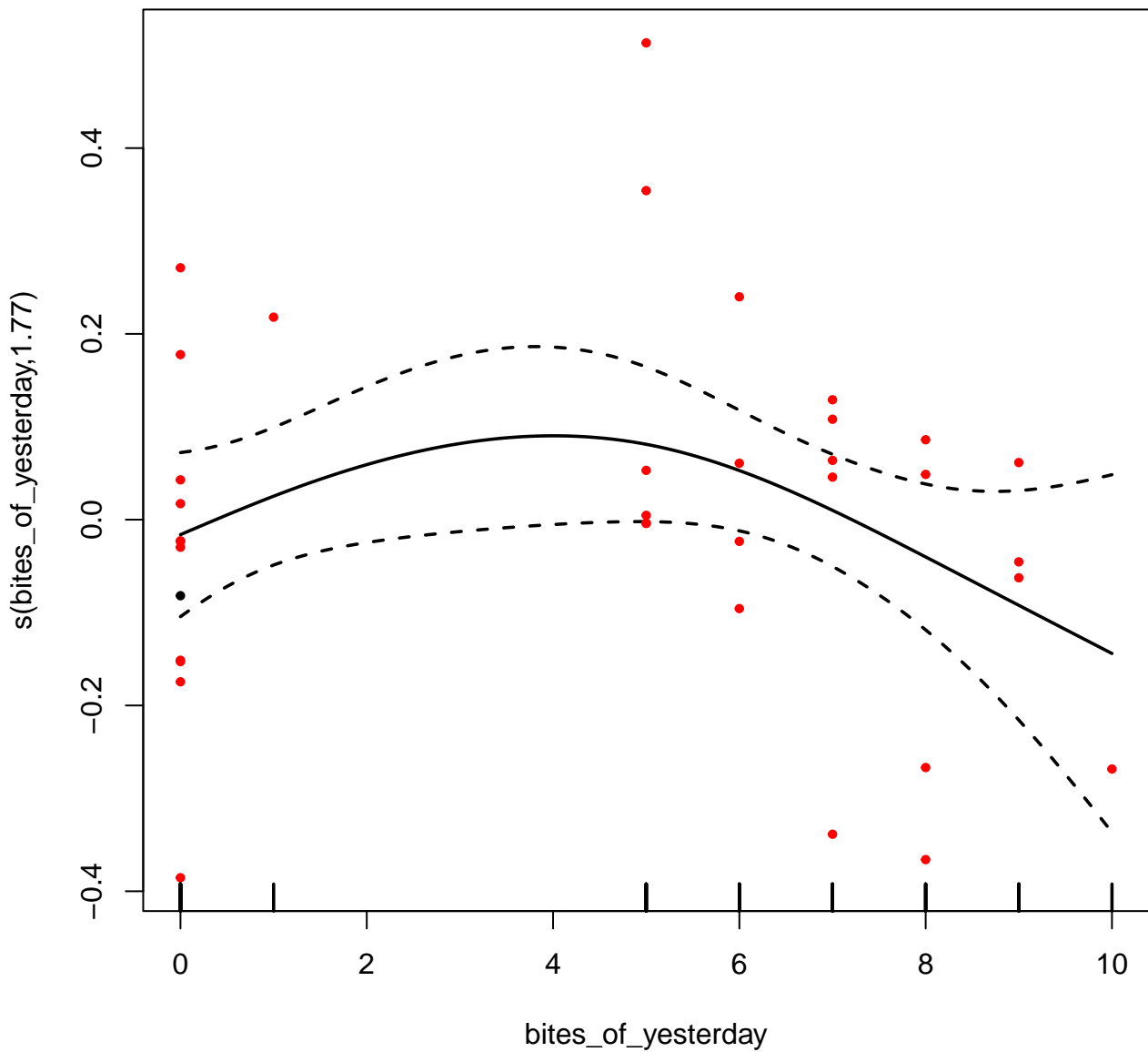
Nb obs : 20

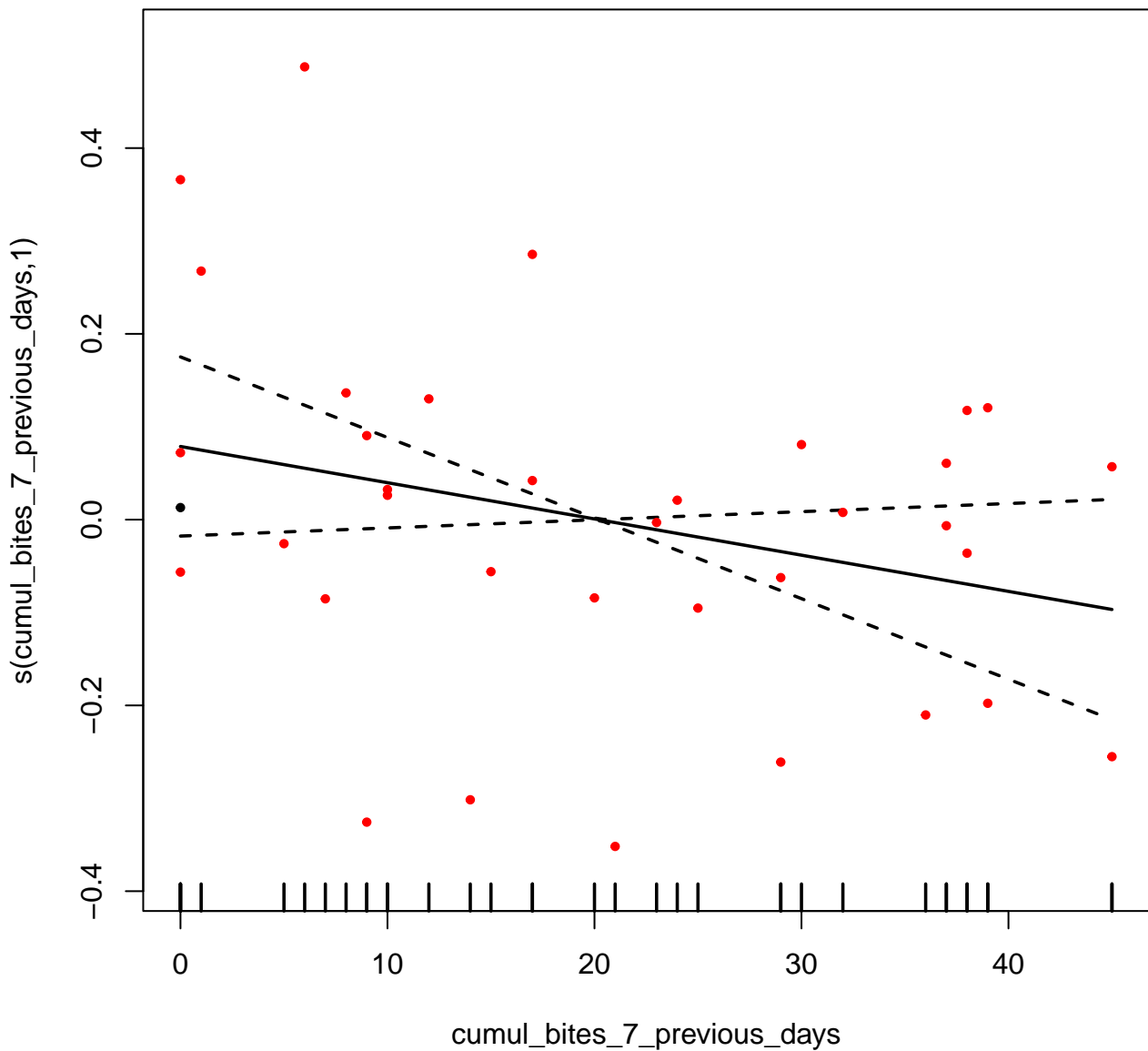
IL.8 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IL . RA

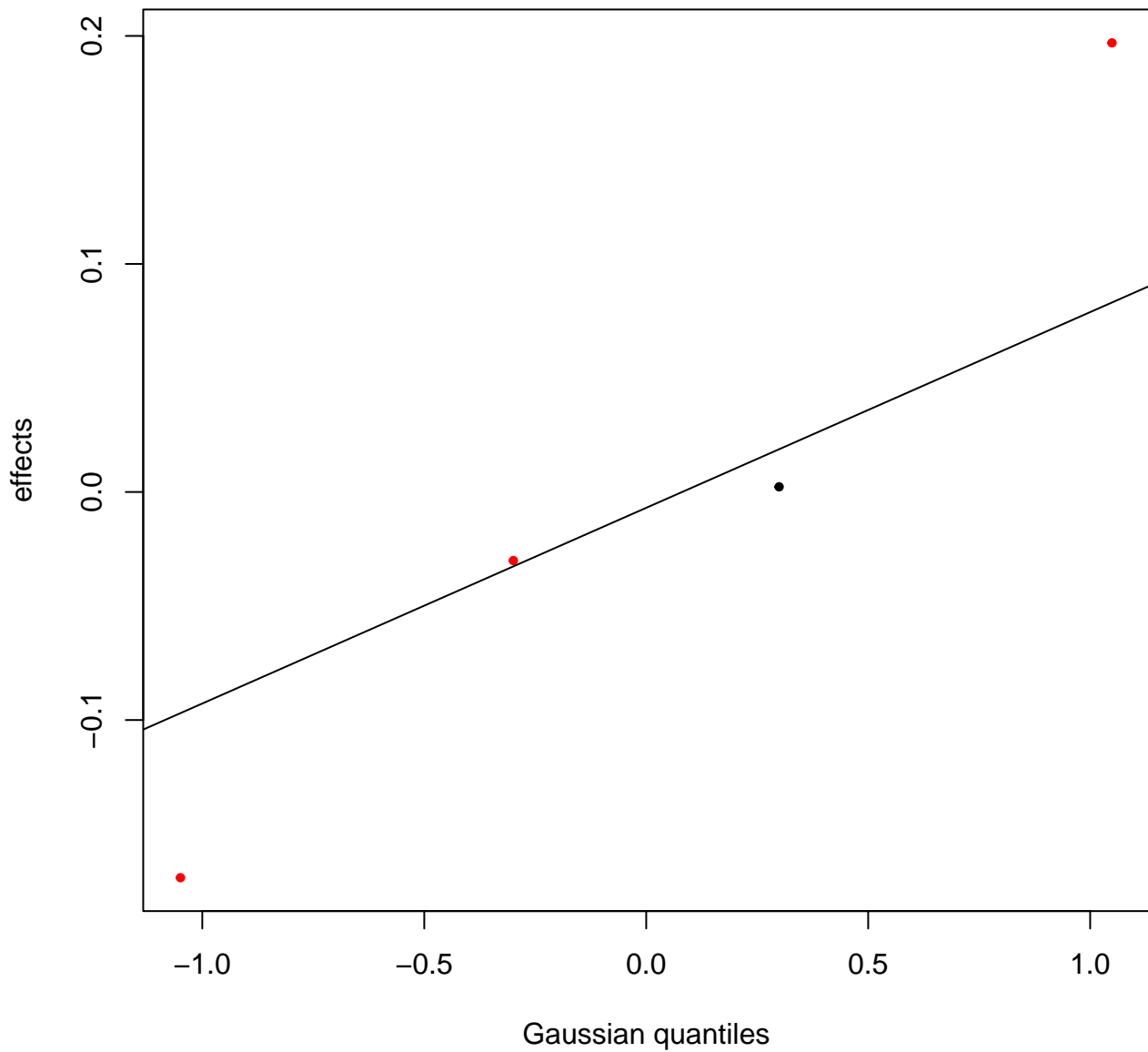
Bites in cyno

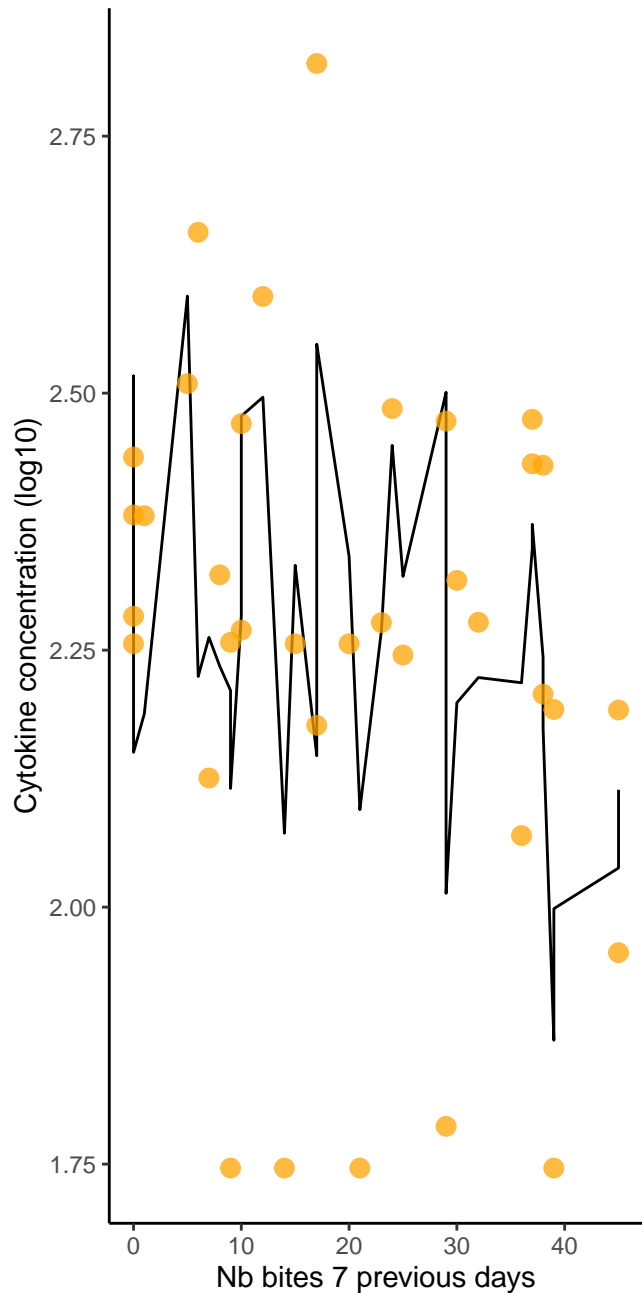
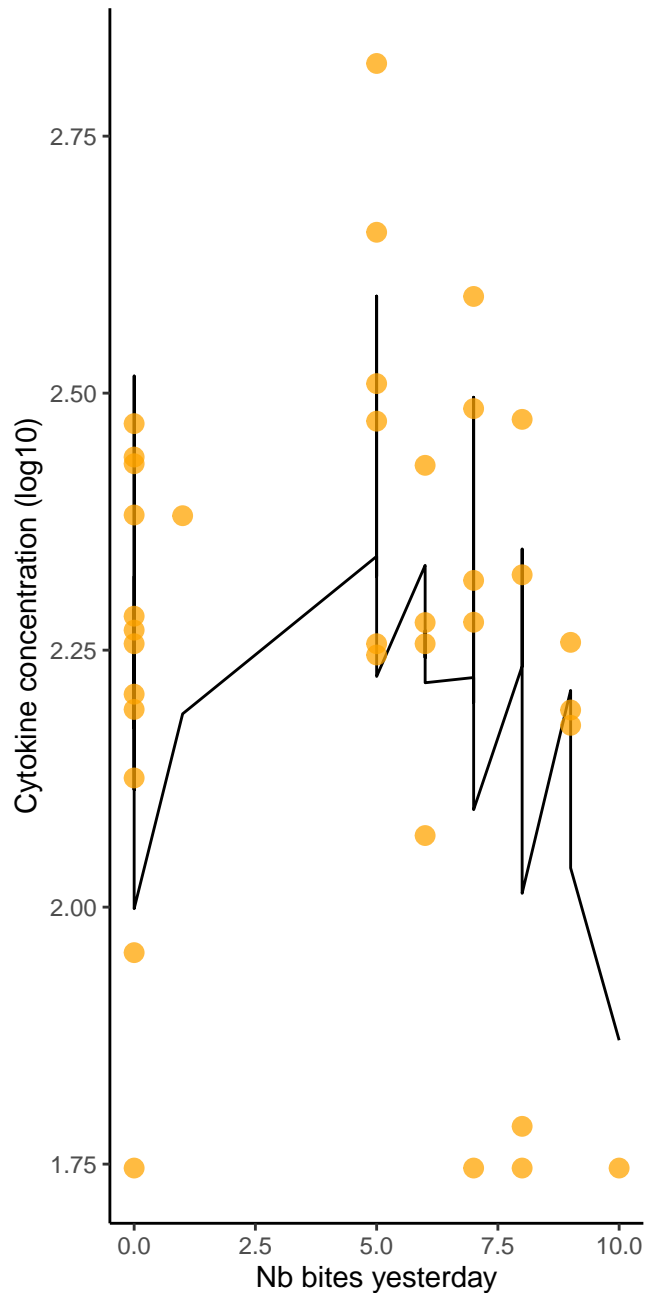
Nb obs : 36

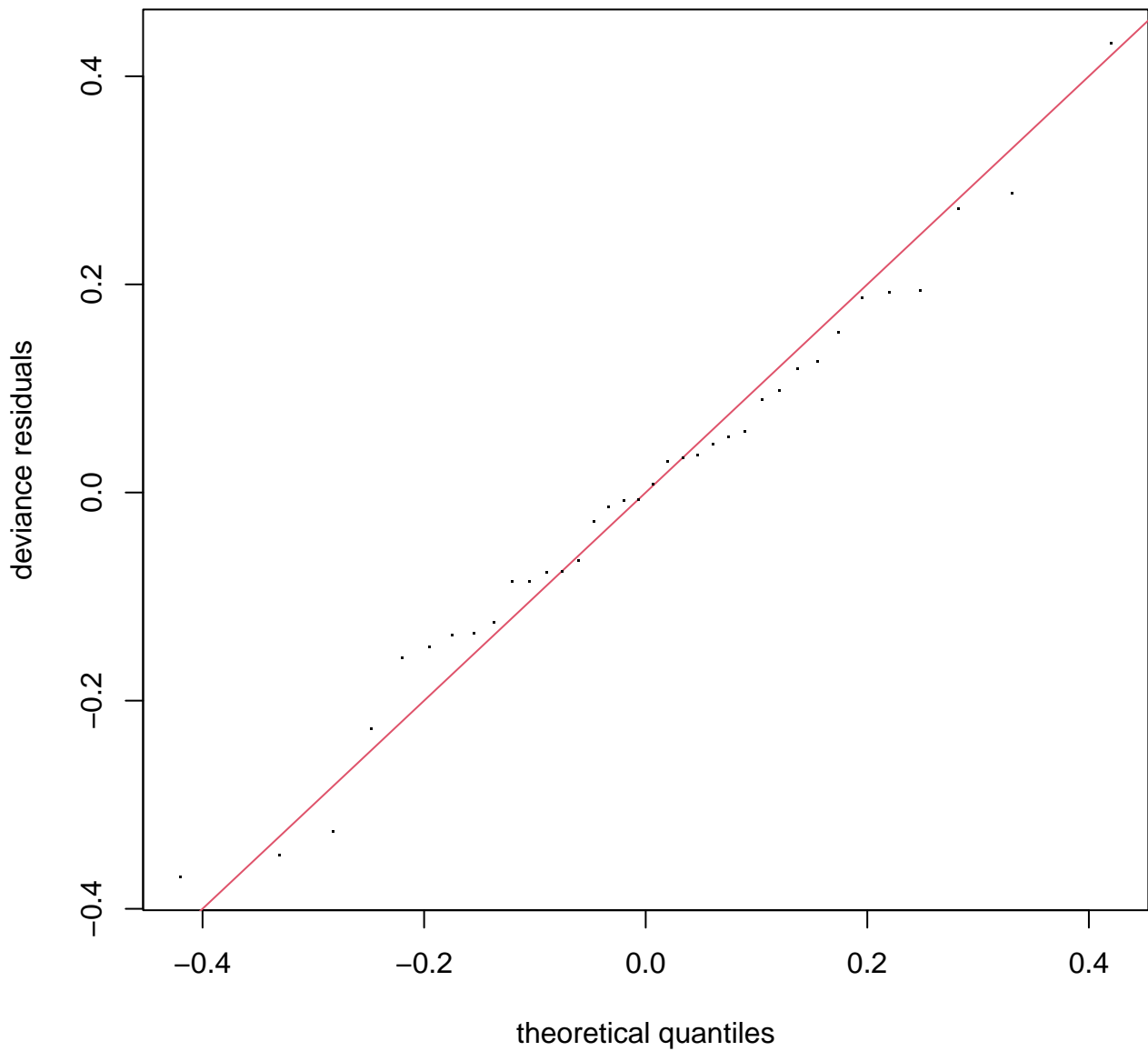




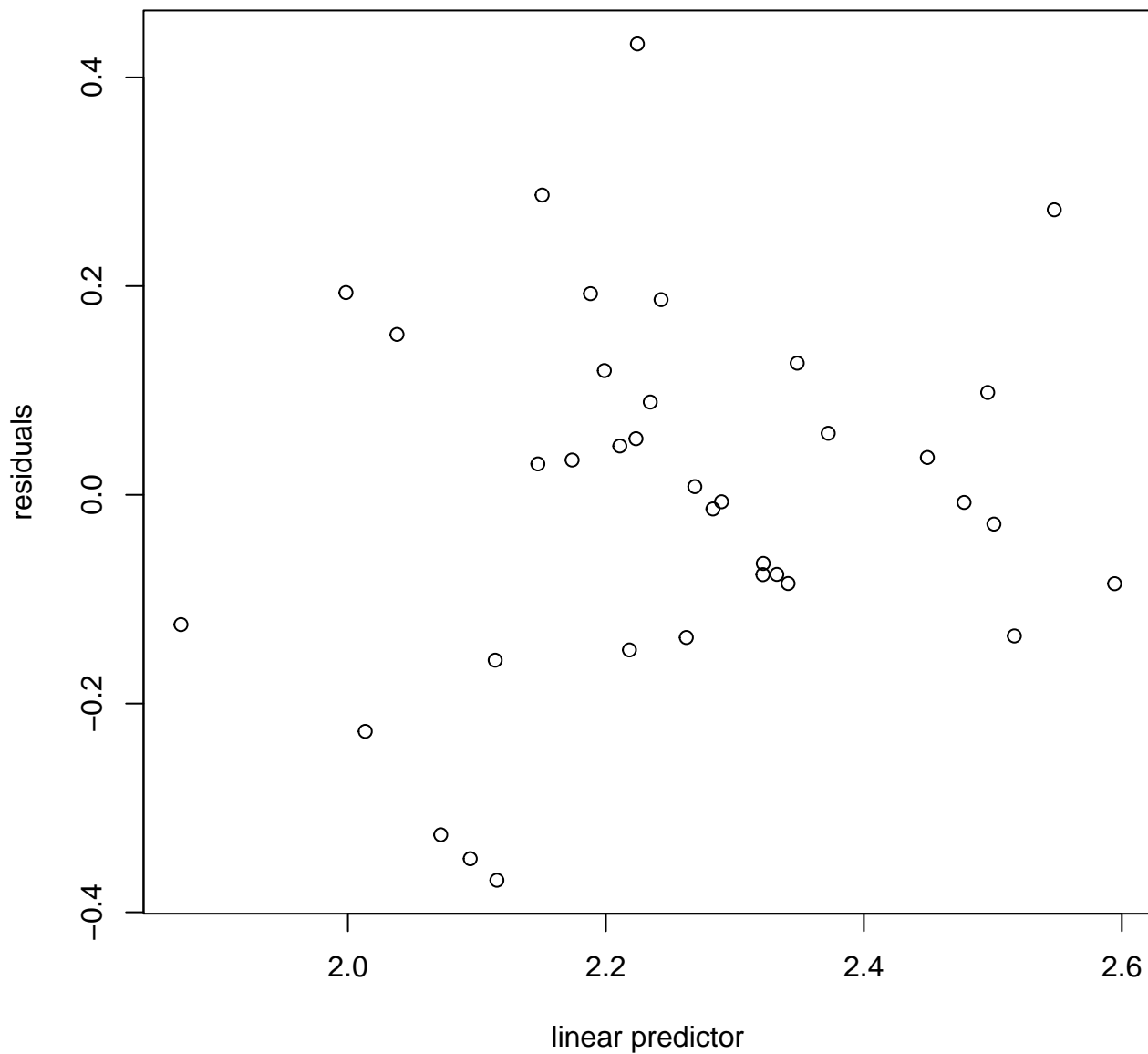
s(ID,2.51)



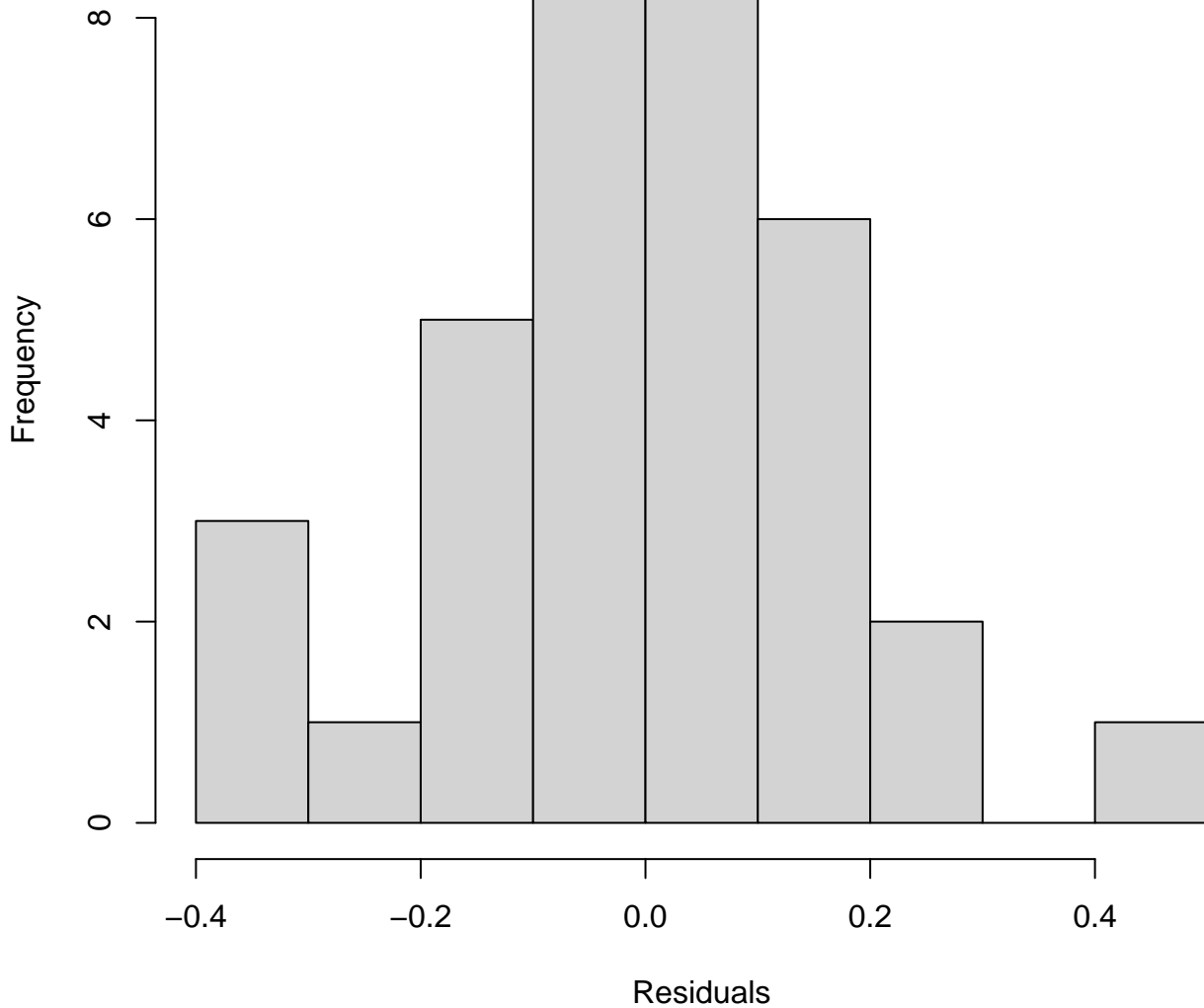




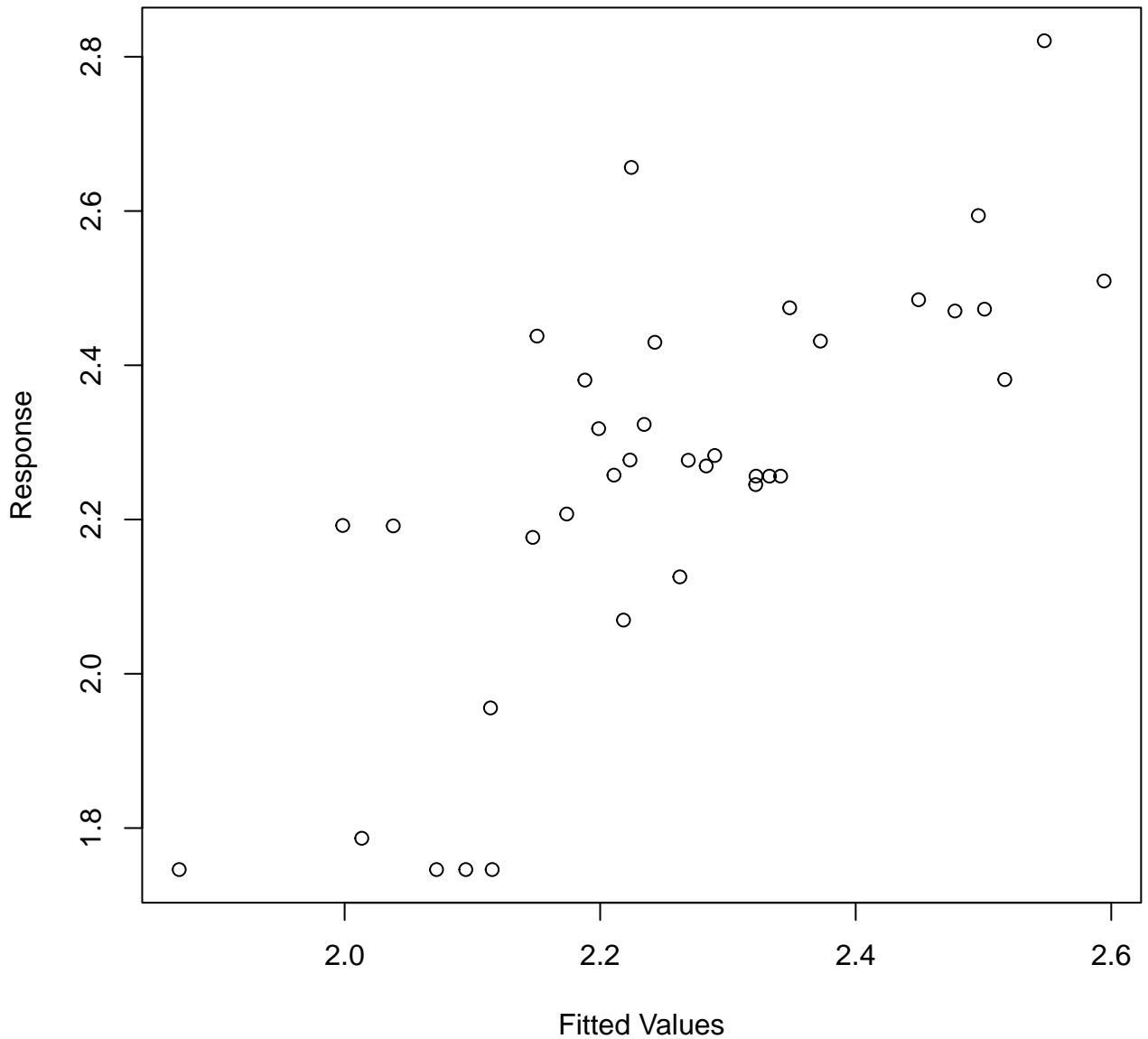
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 13 iterations.
 Gradient range [-3.105111e-06,2.317223e-06]
 (score -4.045604 & scale 0.03644245).
 Hessian positive definite, eigenvalue range [3.105075e-06,18.20057].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.77	1.19	0.86
s(cumul_bites_7_previous_days)	3.00	1.00	1.16	0.74
s(ID)	4.00	2.51	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_7_previous_days, k = 4)	2.49	[1.72, 4.07]	1.58	0.40	[0.25, 0.58]	

Moderate Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)		7.62	[4.70, 12.84]	2.76	0.13	[0.08, 0.21]

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.25705	0.07967	28.33	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.769	2.088	1.793	0.162600
s(cumul_bites_7_previous_days)	1.000	1.000	2.667	0.112873
s(ID)	2.508	3.000	6.414	0.000568 ***

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

R-sq.(adj) = 0.47 Deviance explained = 55%
-ML = -4.0456 Scale est. = 0.036442 n = 36

AICc [1] -2.620047

Bites in squirrel

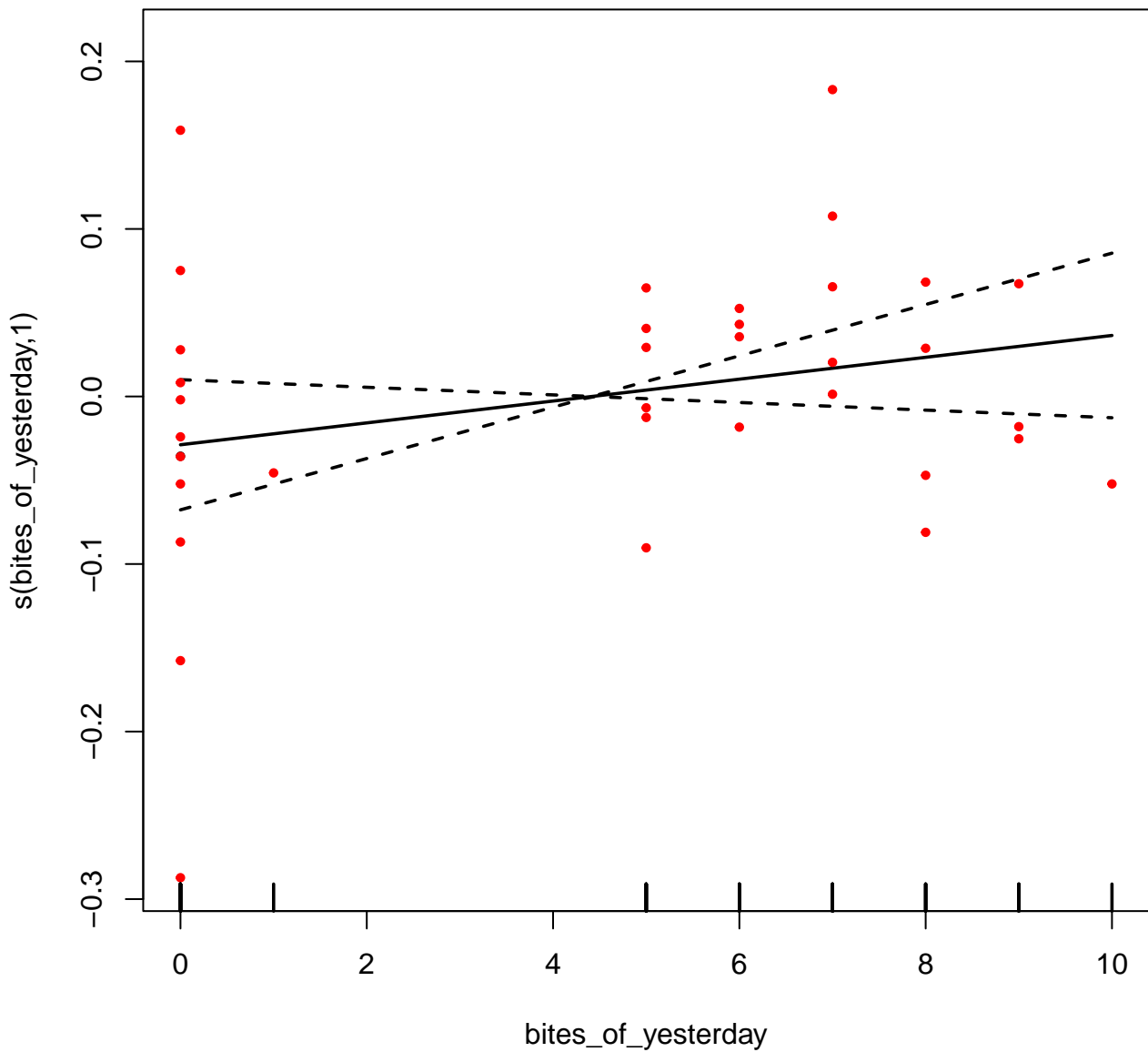
Nb obs : 20

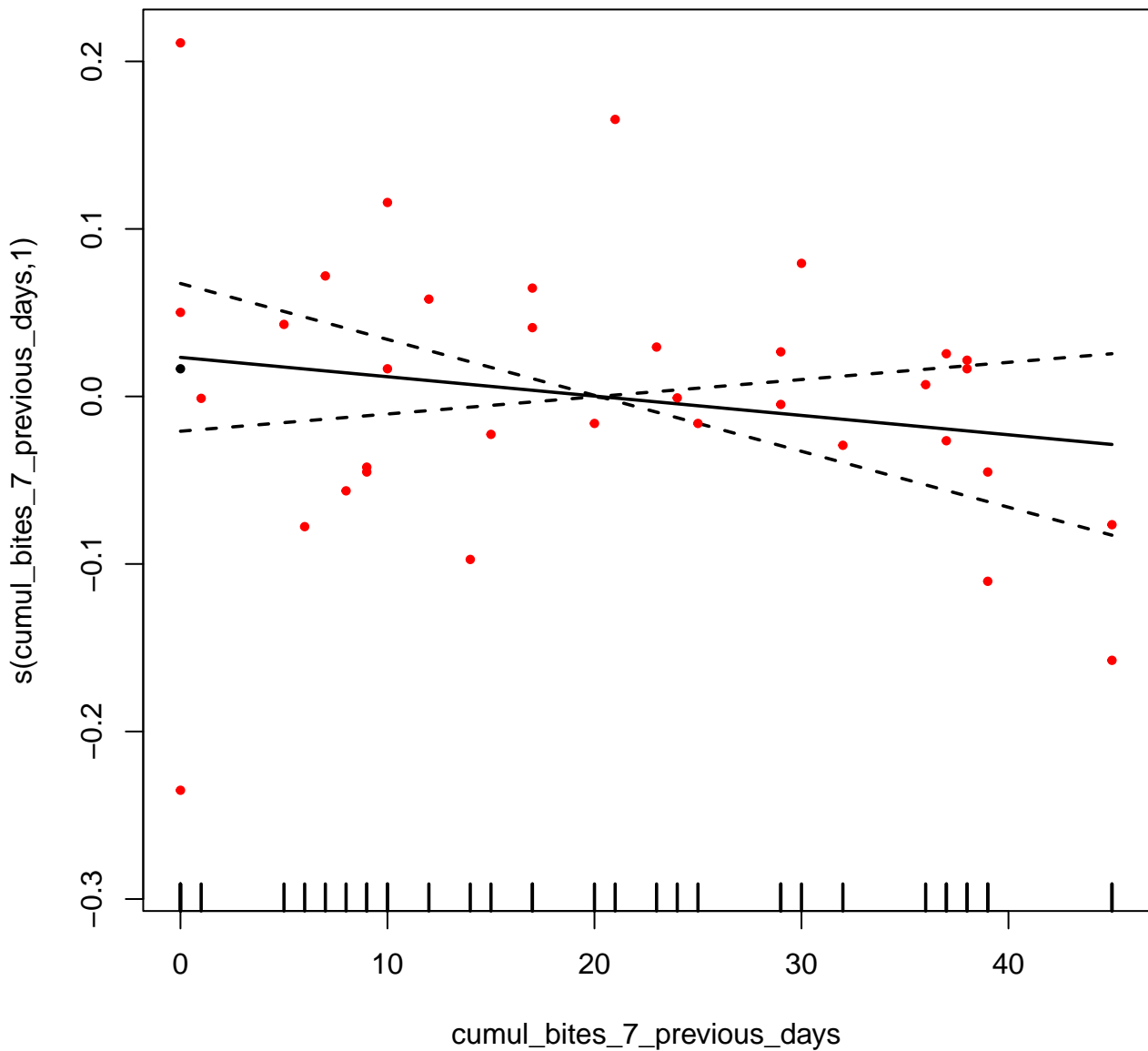
IL.RA ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

IP.10

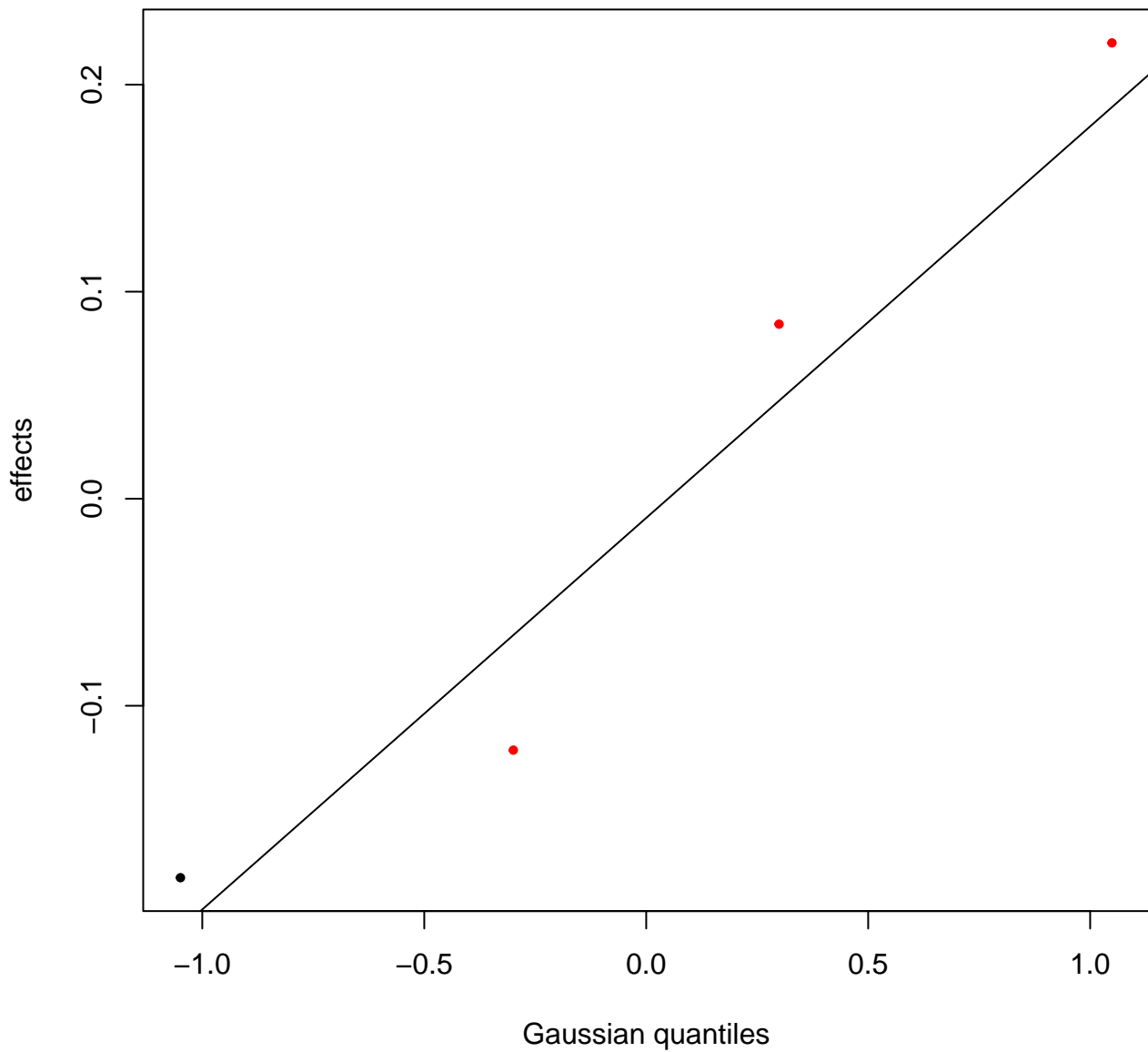
Bites in cyno

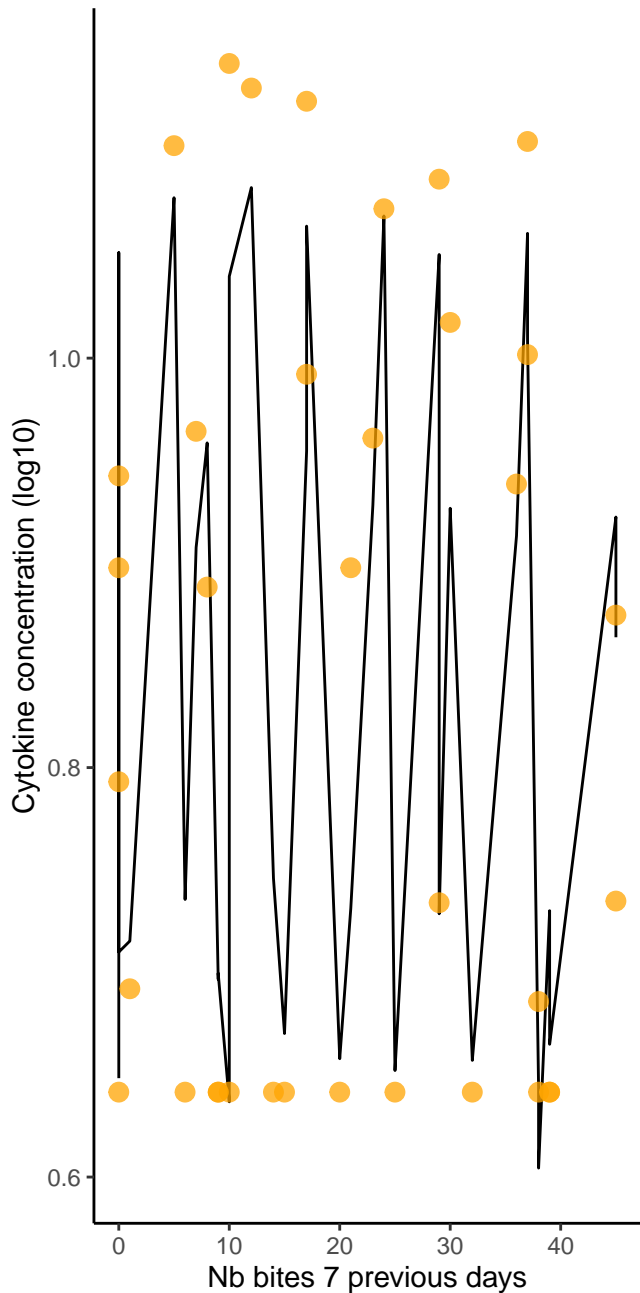
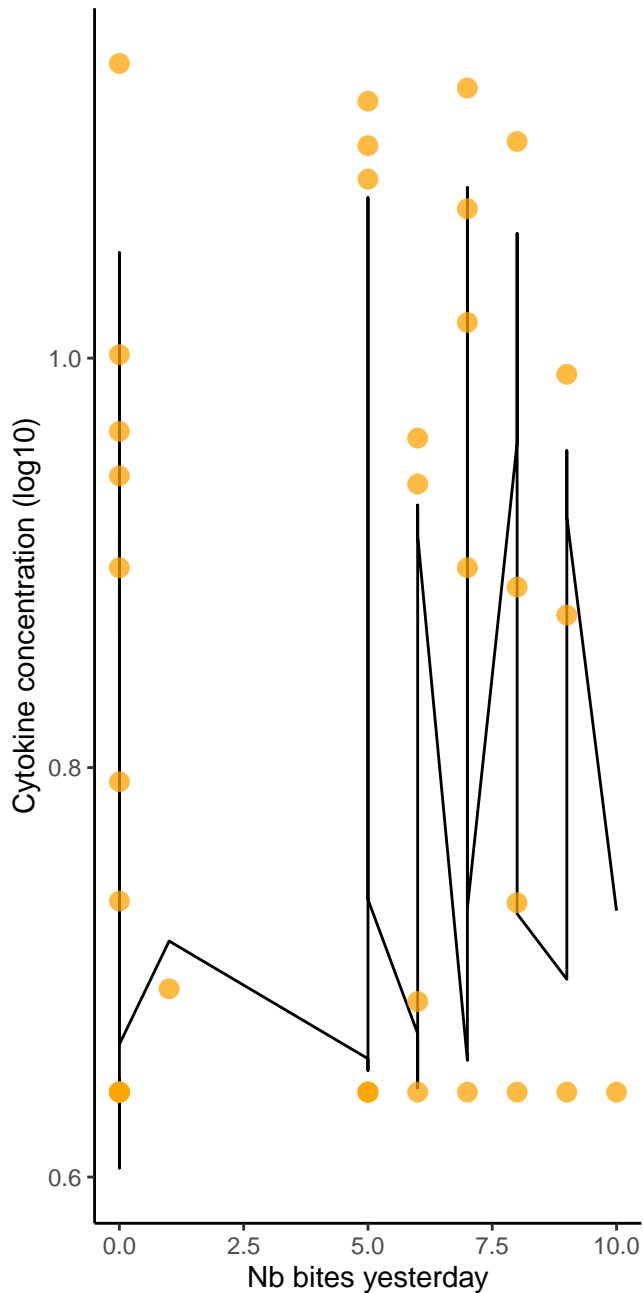
Nb obs : 36

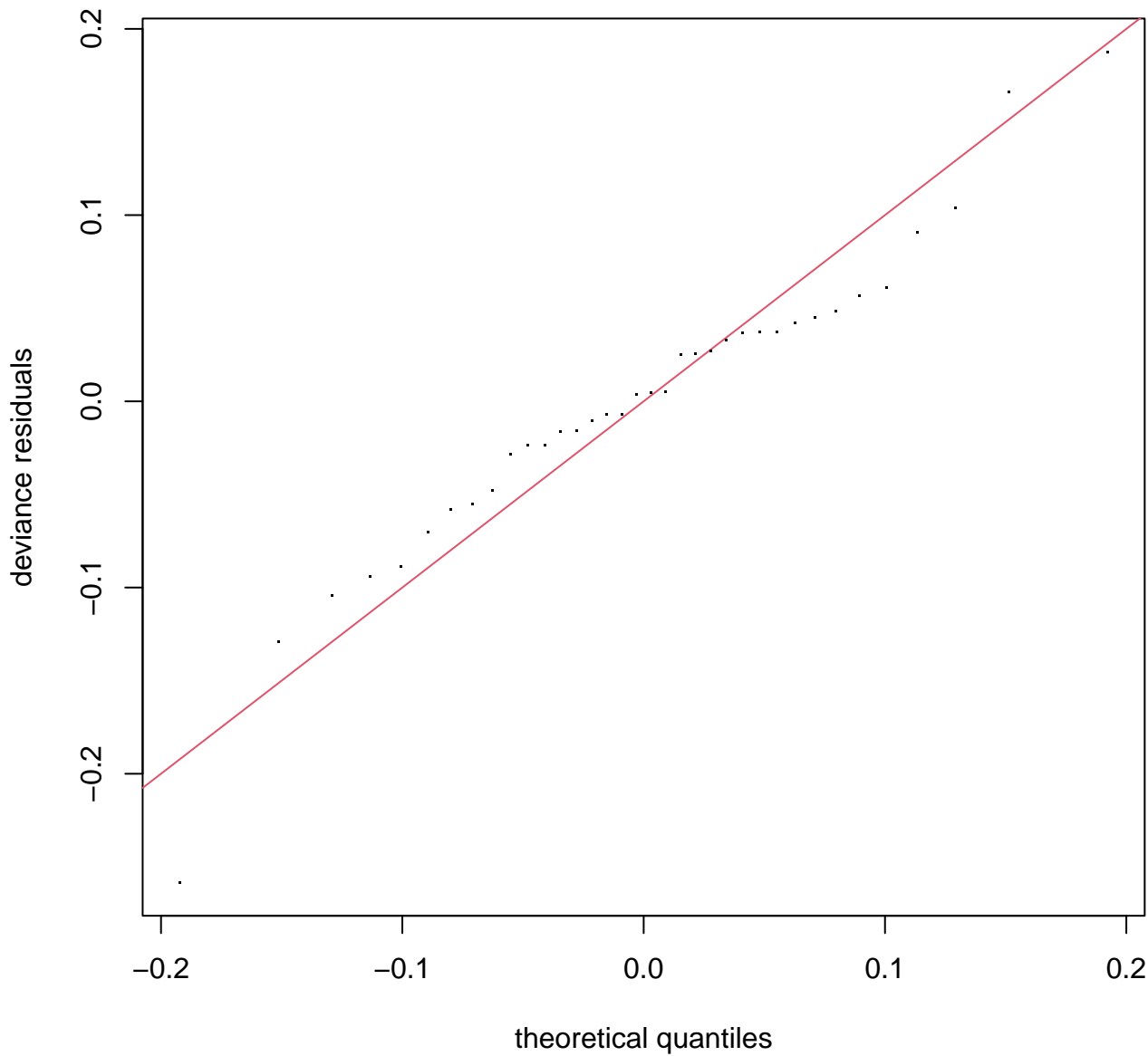




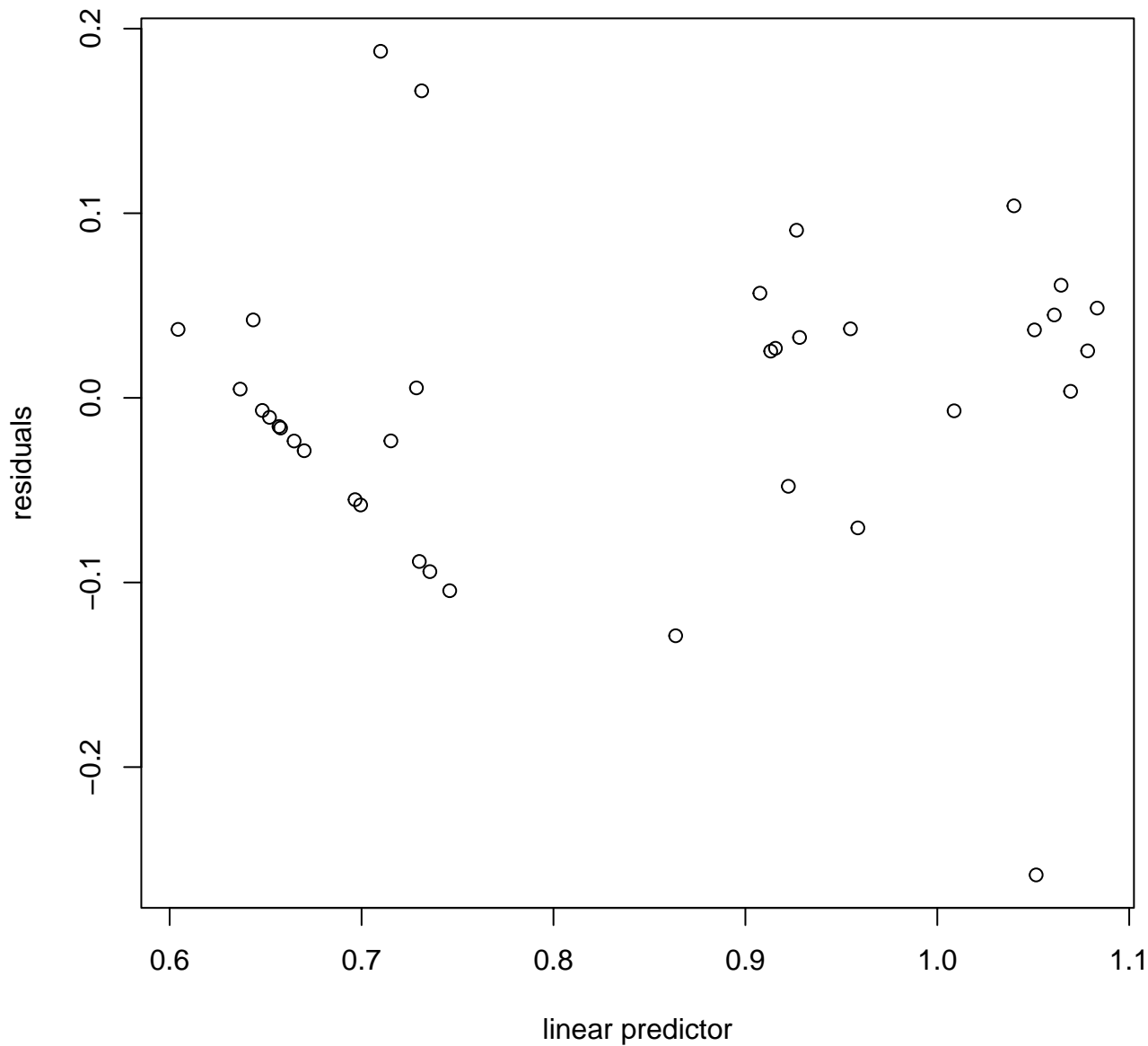
s(ID,2.91)



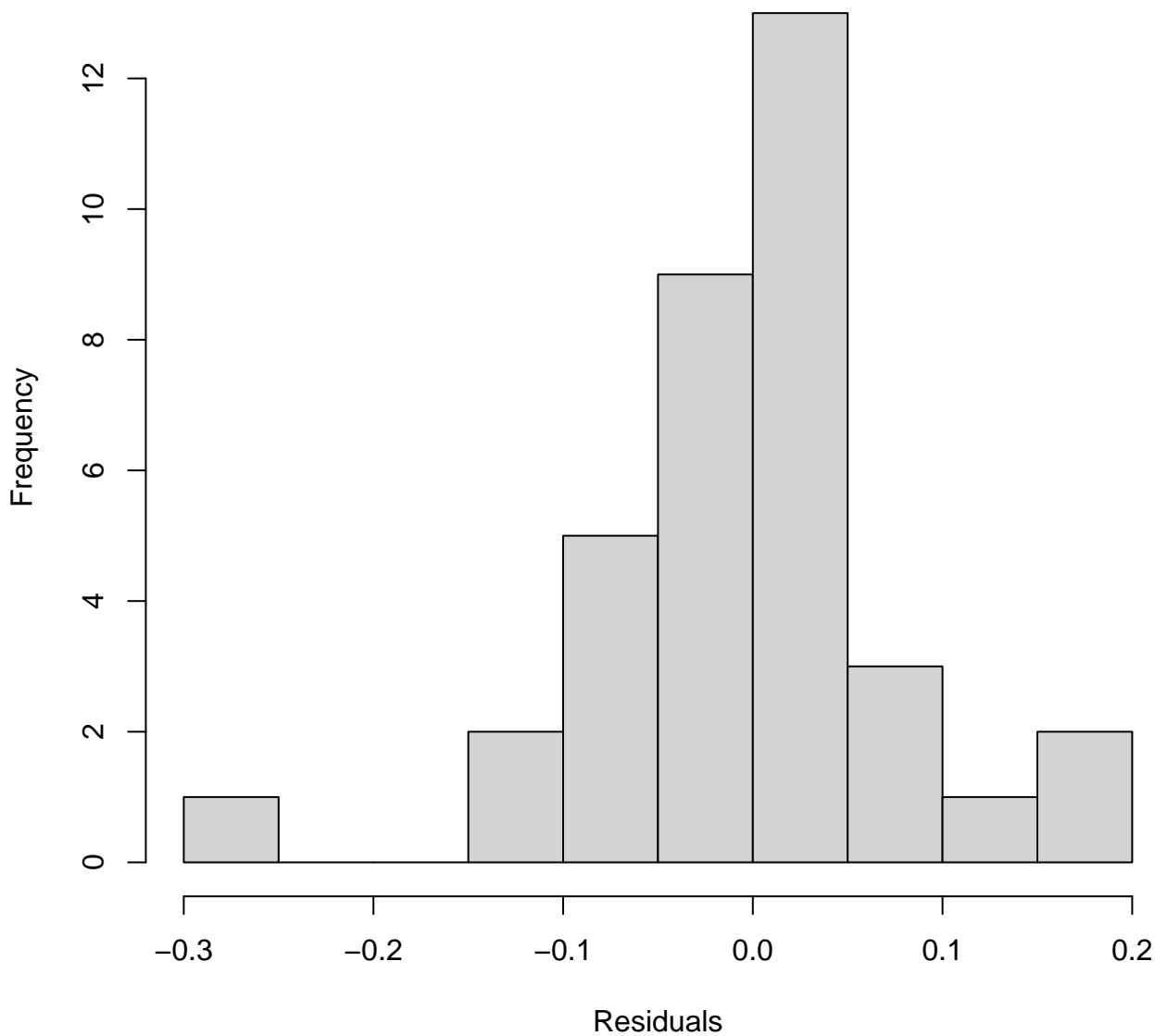




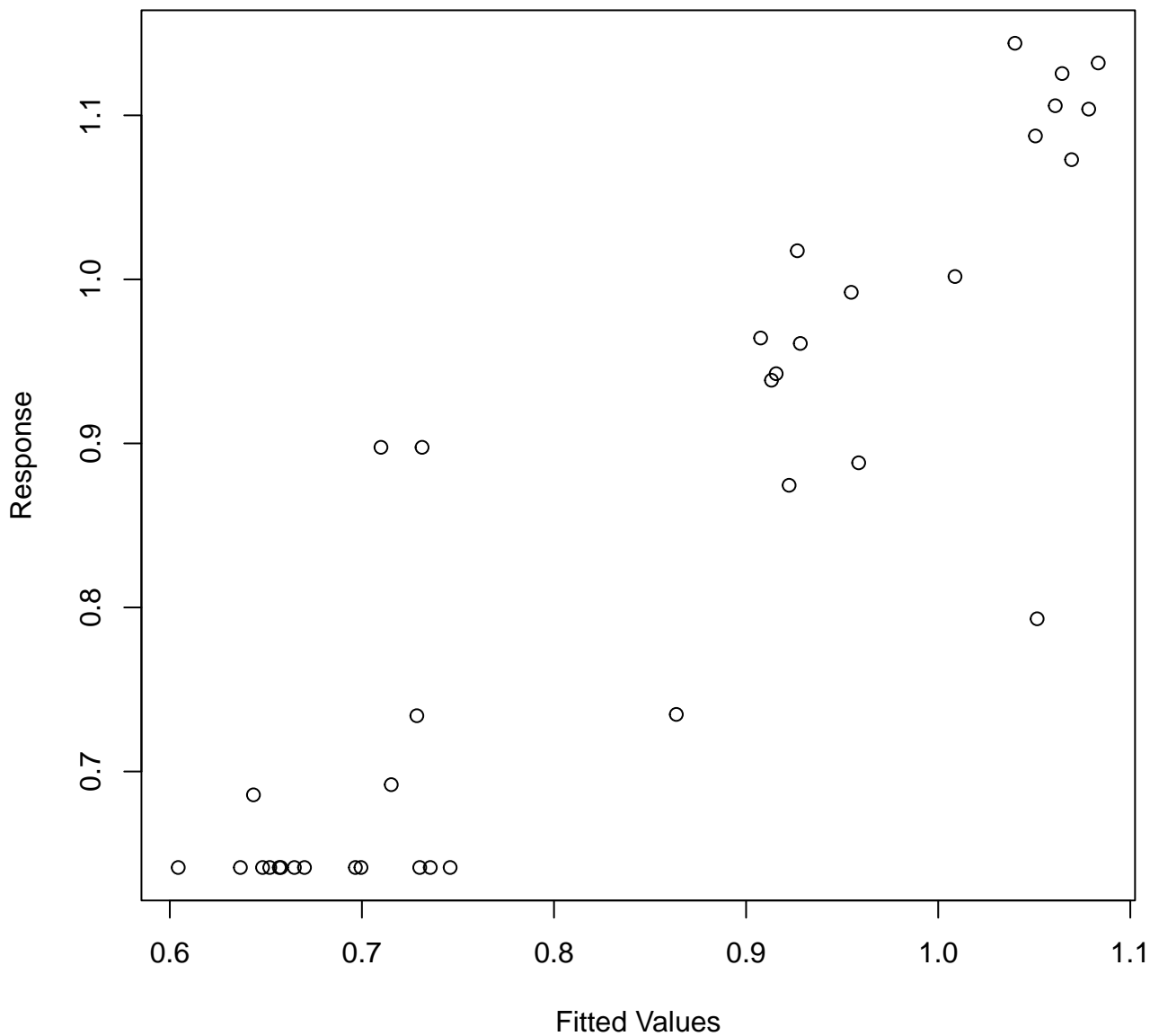
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
full convergence after 10 iterations.
Gradient range [-1.096797e-05,5.5344e-06]
(score -30.75996 & scale 0.007631674).
Hessian positive definite, eigenvalue range [2.047699e-07,18.2308].
Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.11	0.68
s(cumul_bites_7_previous_days)	3.00	1.00	1.23	0.88
s(ID)	4.00	2.91	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	0.8368	0.0857	9.764	7.71e-11 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	2.20	0.148
s(cumul_bites_7_previous_days)	1.000	1	1.12	0.298
s(ID)	2.913	3	42.00	<2e-16 ***

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

R-sq.(adj) = 0.784 Deviance explained = 81.5%
-ML = -30.76 Scale est. = 0.0076317 n = 36

AICc [1] -61.86329

Bites in squirrel

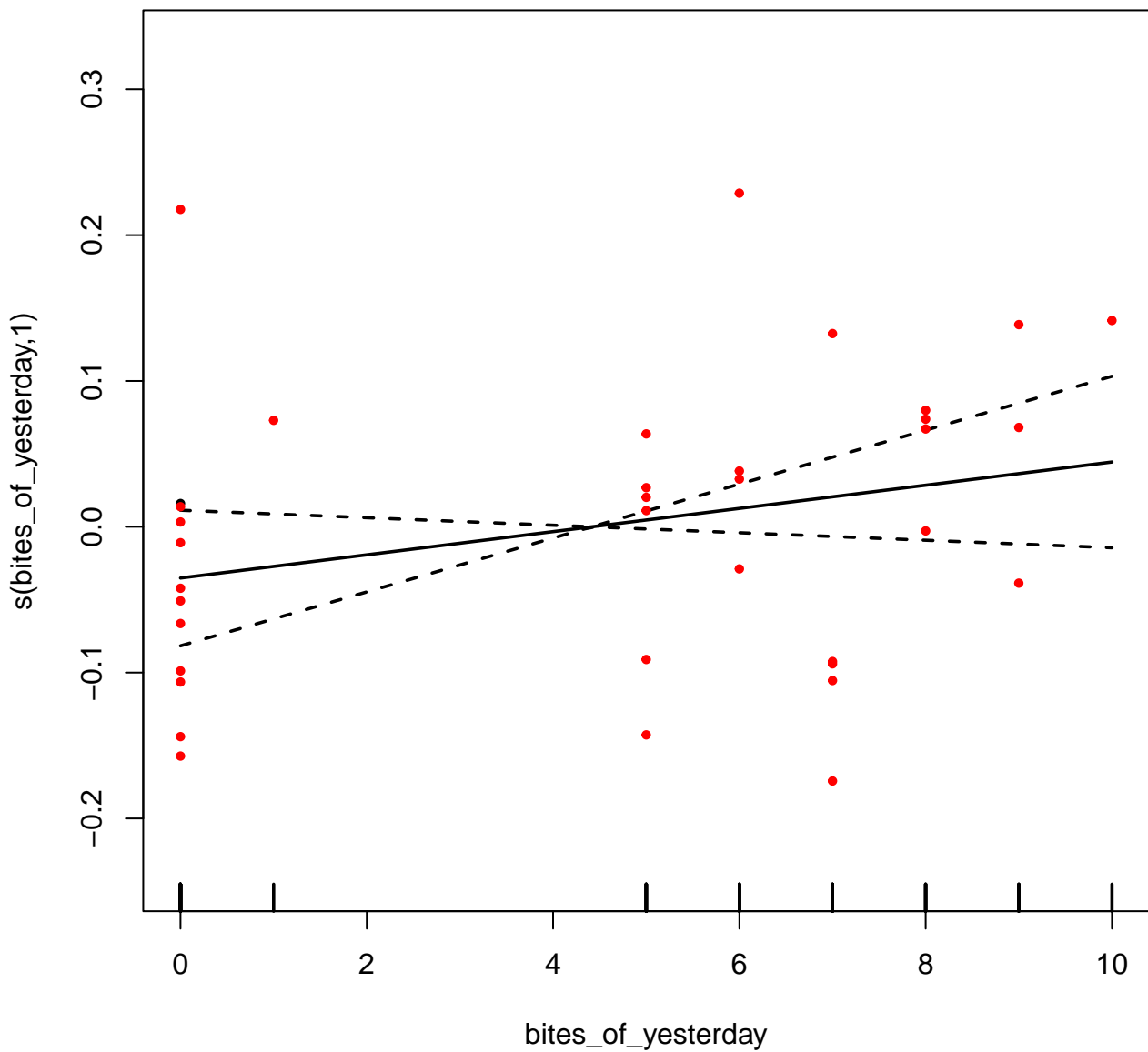
Nb obs : 20

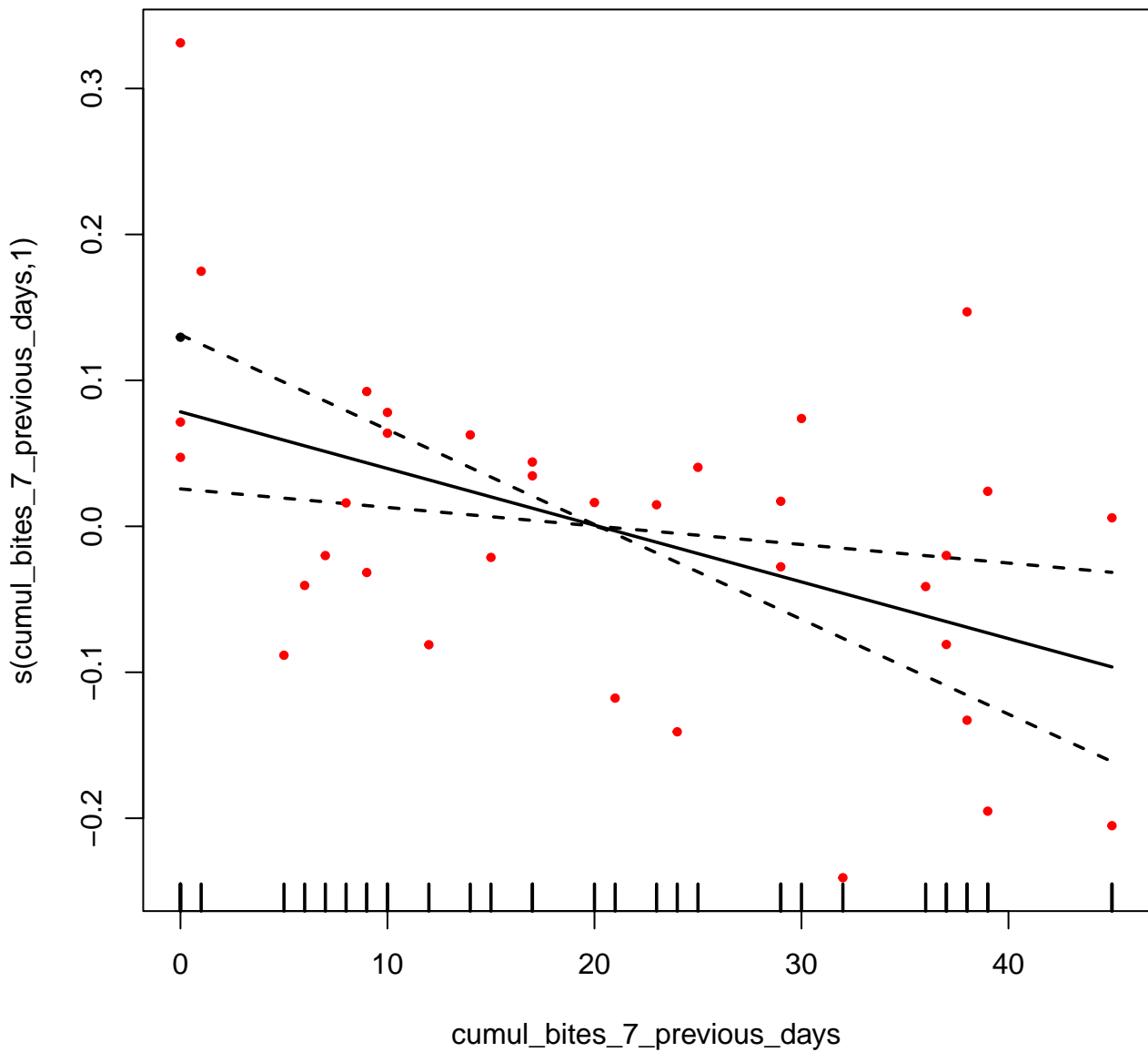
IP.10 ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

MCP . 1

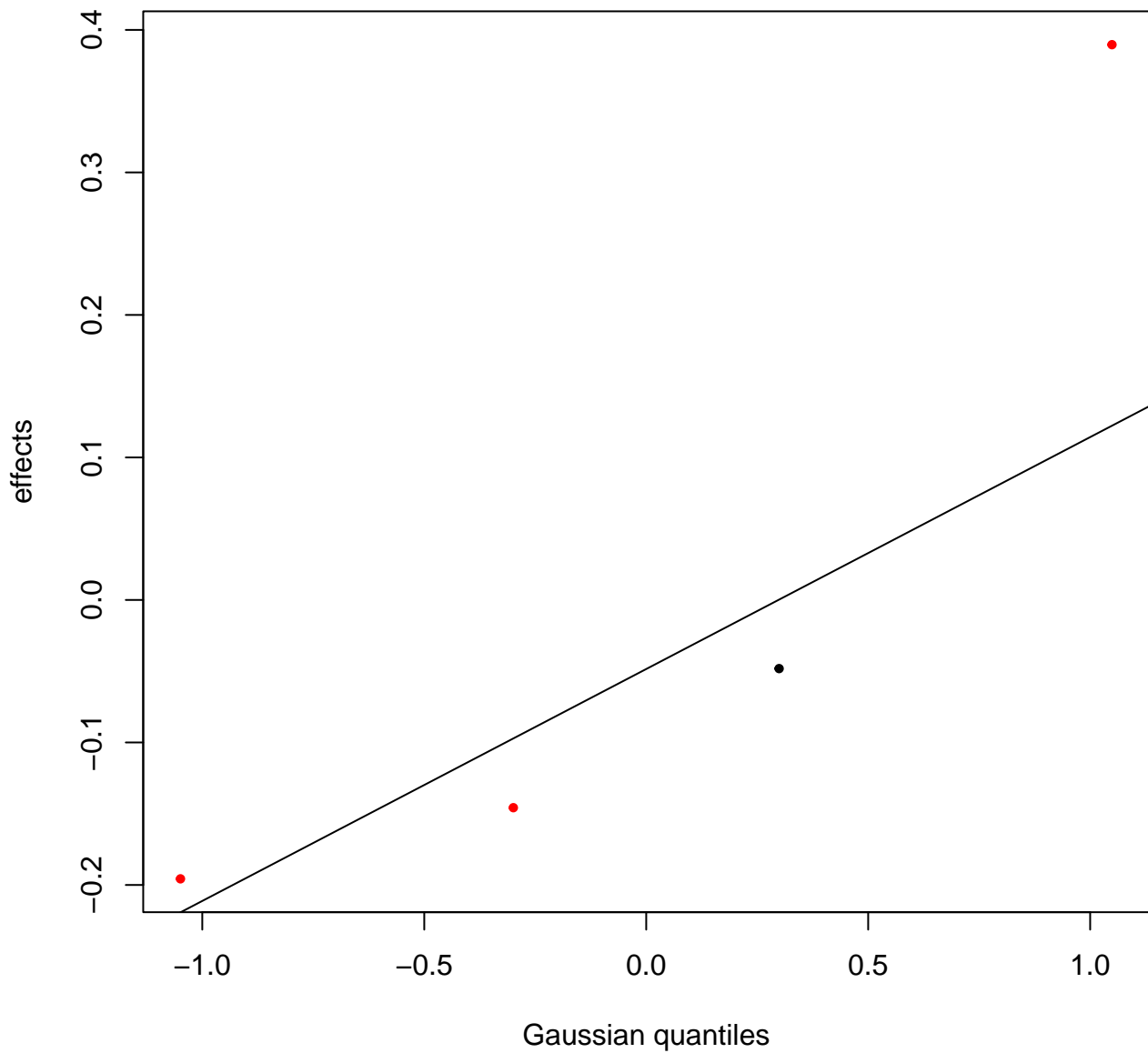
Bites in cyno

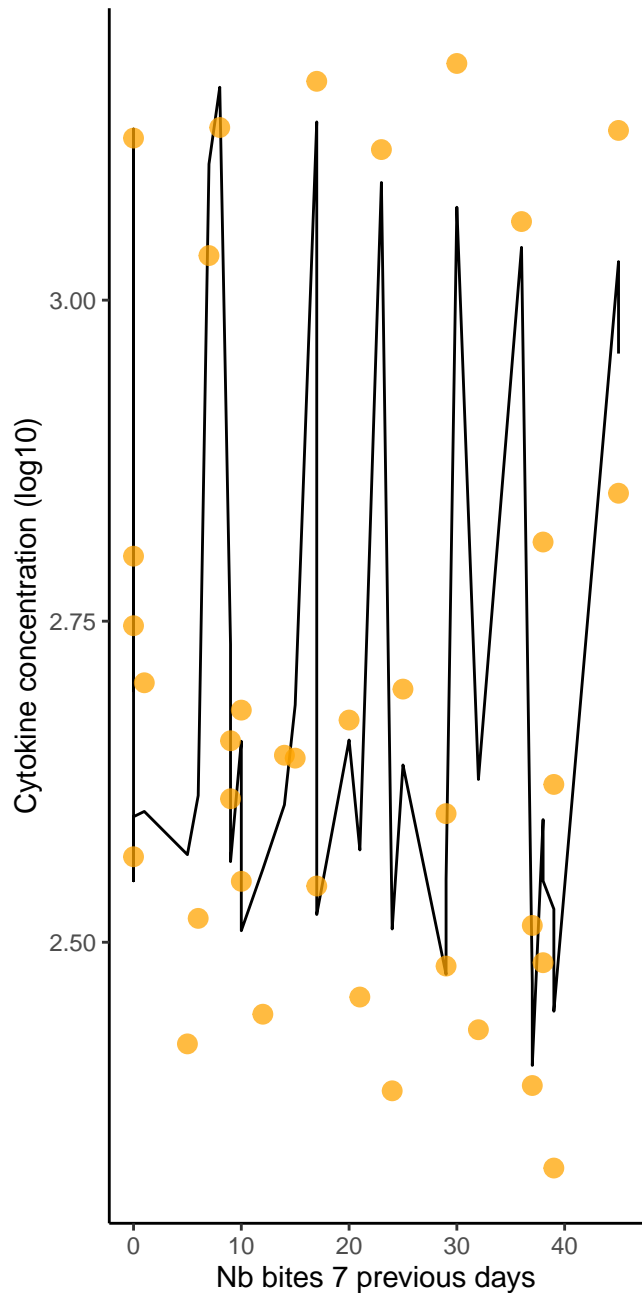
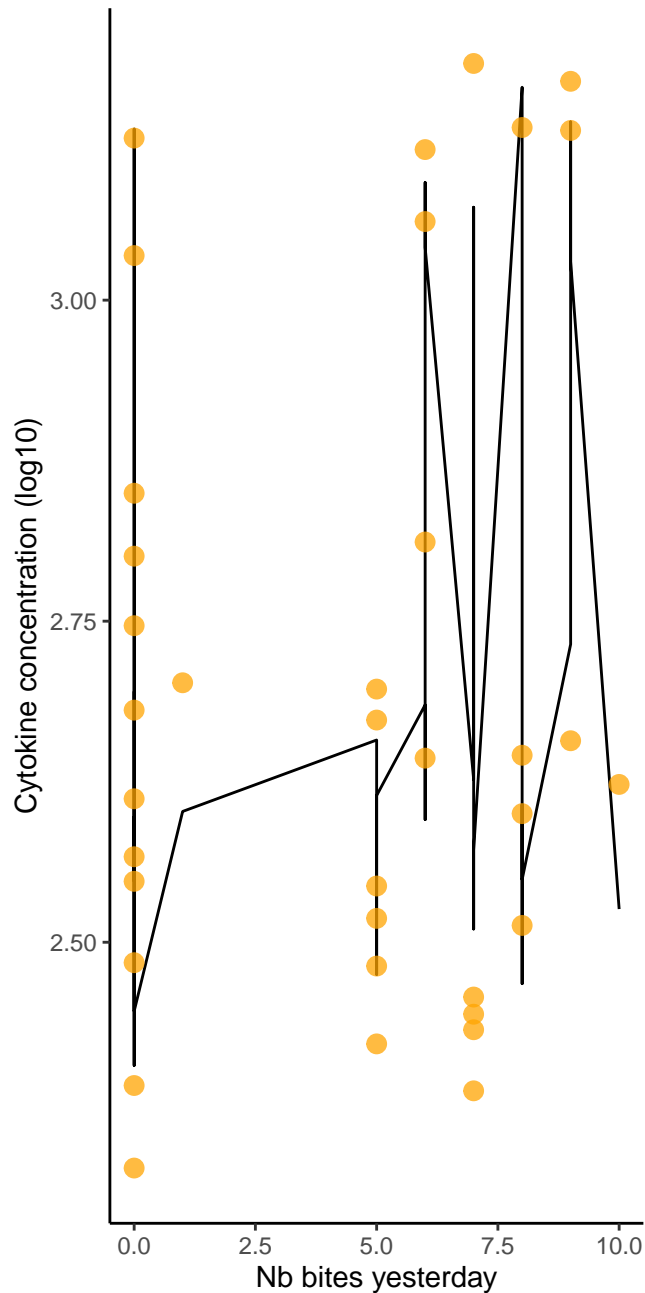
Nb obs : 36

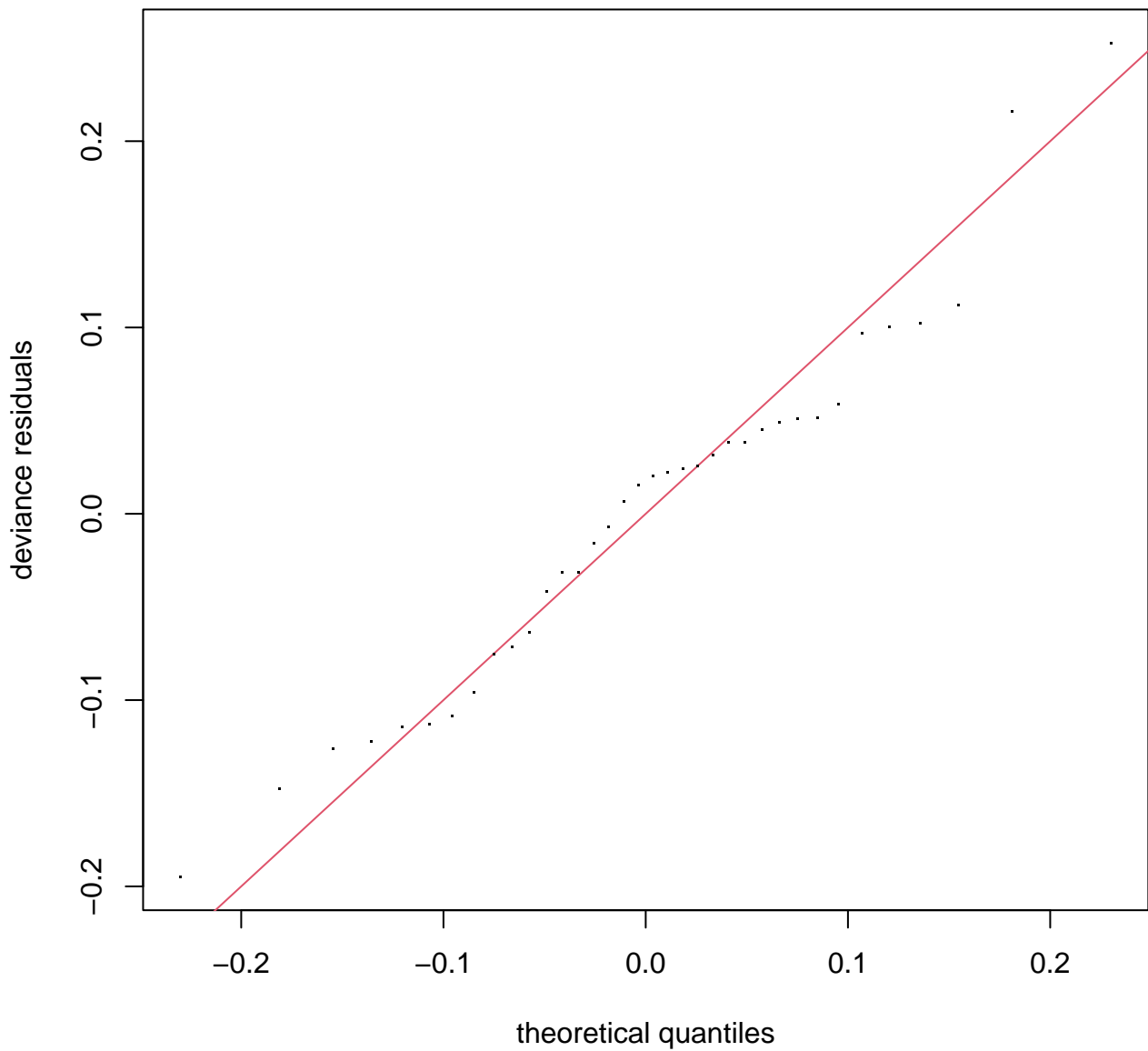




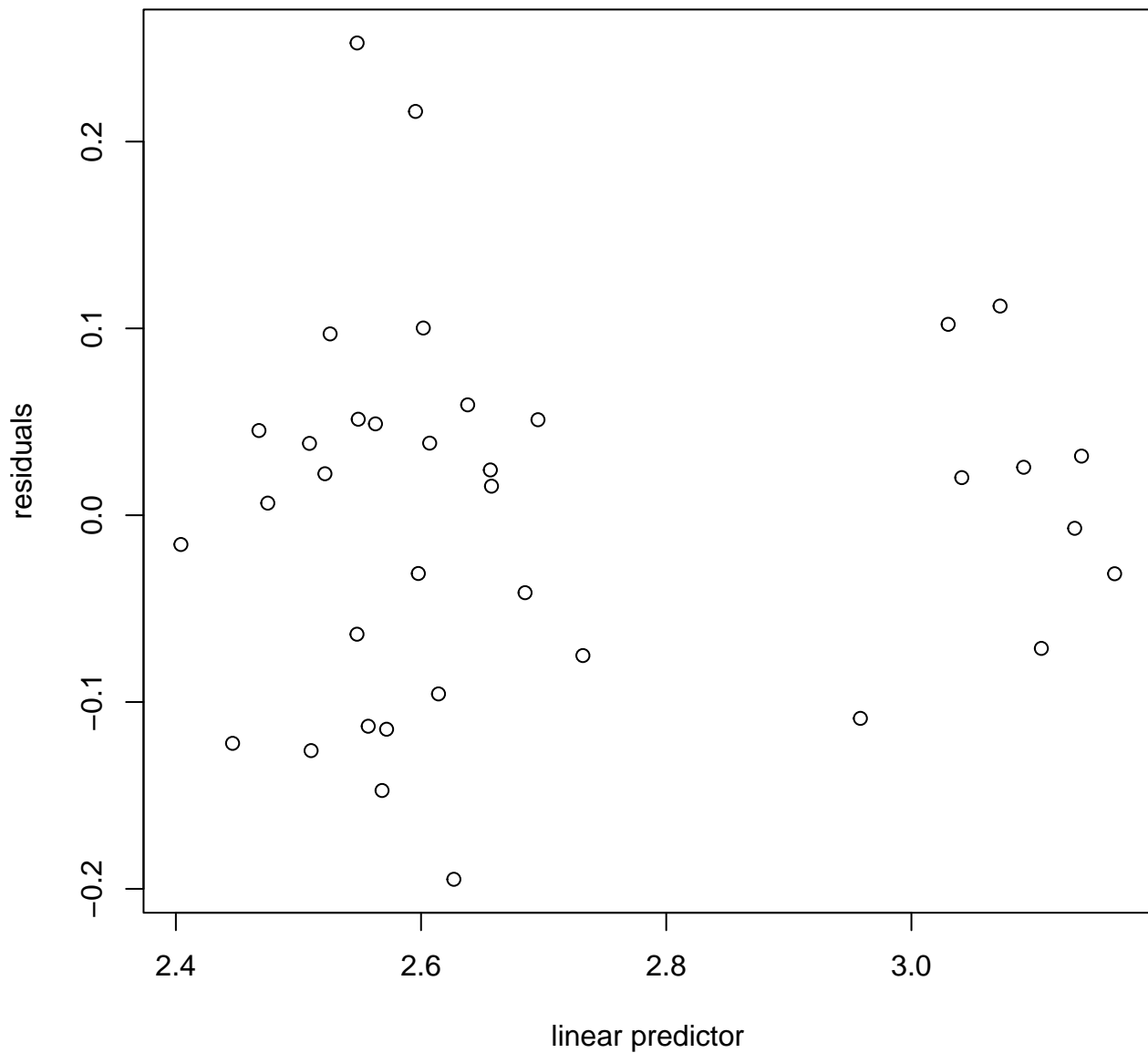
s(ID,2.94)



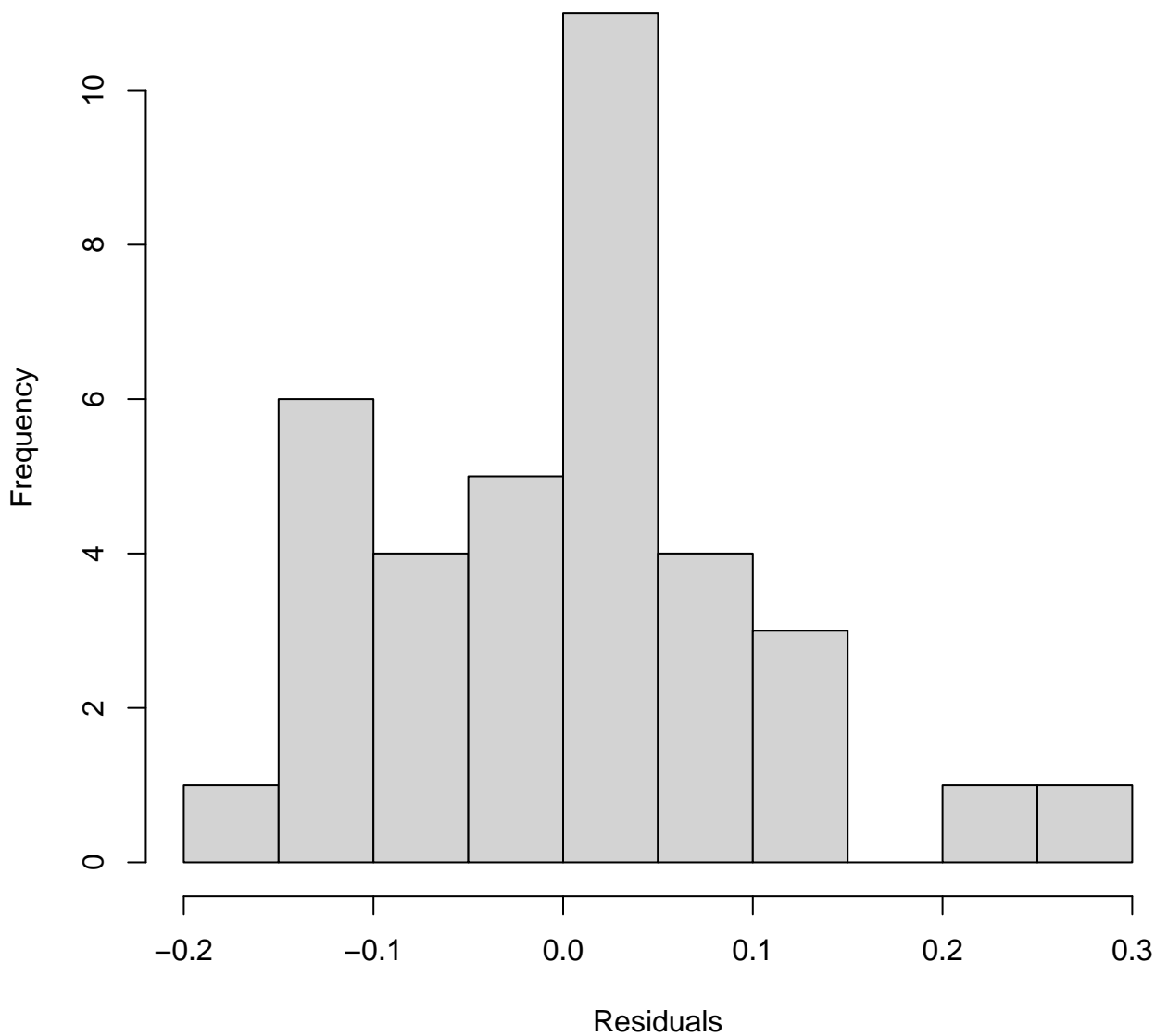




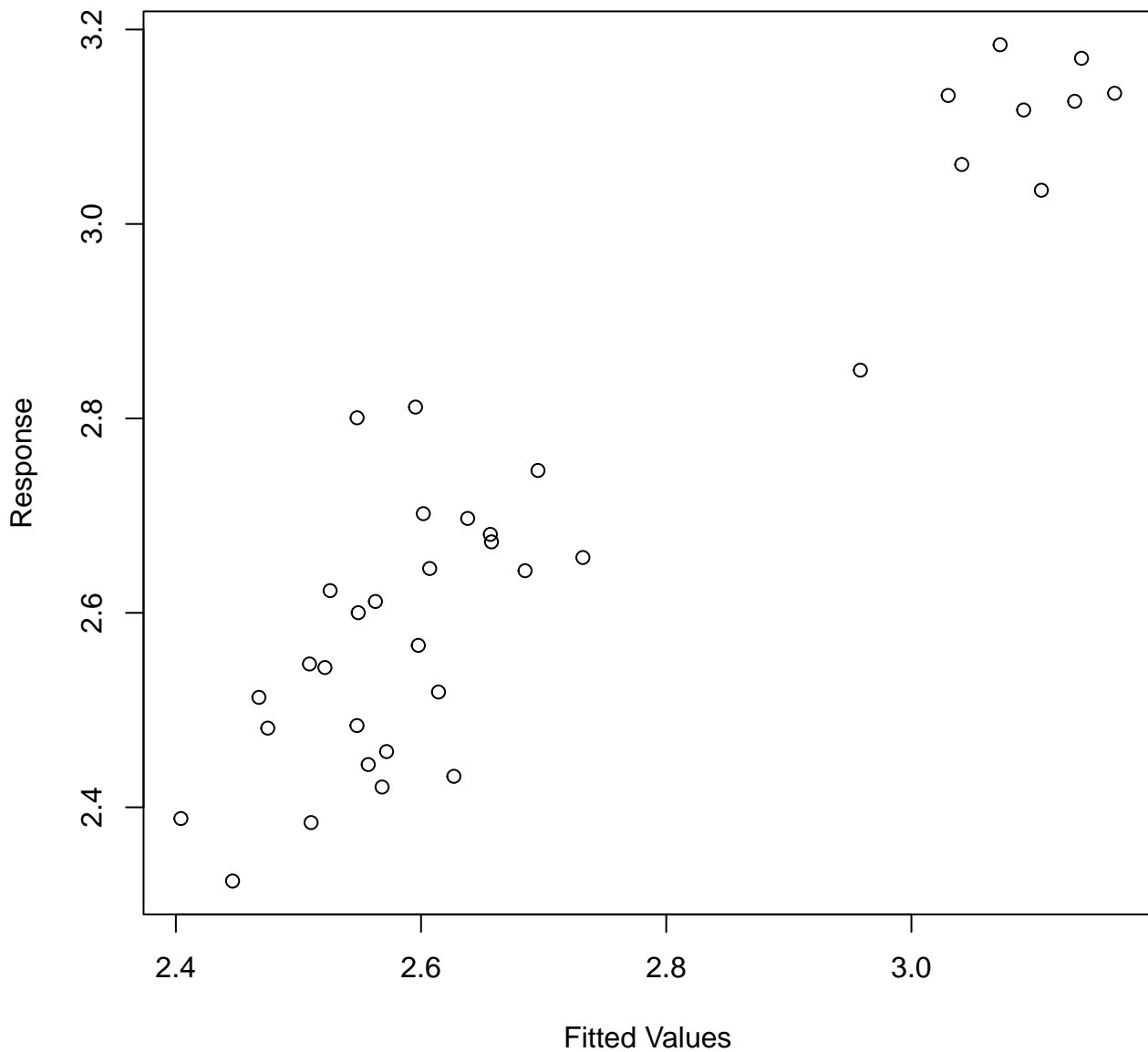
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
full convergence after 11 iterations.
Gradient range [-8.925834e-06,4.157709e-06]
(score -23.5931 & scale 0.01093505).
Hessian positive definite, eigenvalue range [5.947848e-06,18.2352].
Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.12	0.68
s(cumul_bites_7_previous_days)	3.00	1.00	1.34	0.97
s(ID)	4.00	2.94	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.7002	0.1219	22.16	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	2.283	0.14123
s(cumul_bites_7_previous_days)	1.000	1	8.834	0.00578 **
s(ID)	2.938	3	58.486	< 2e-16 ***

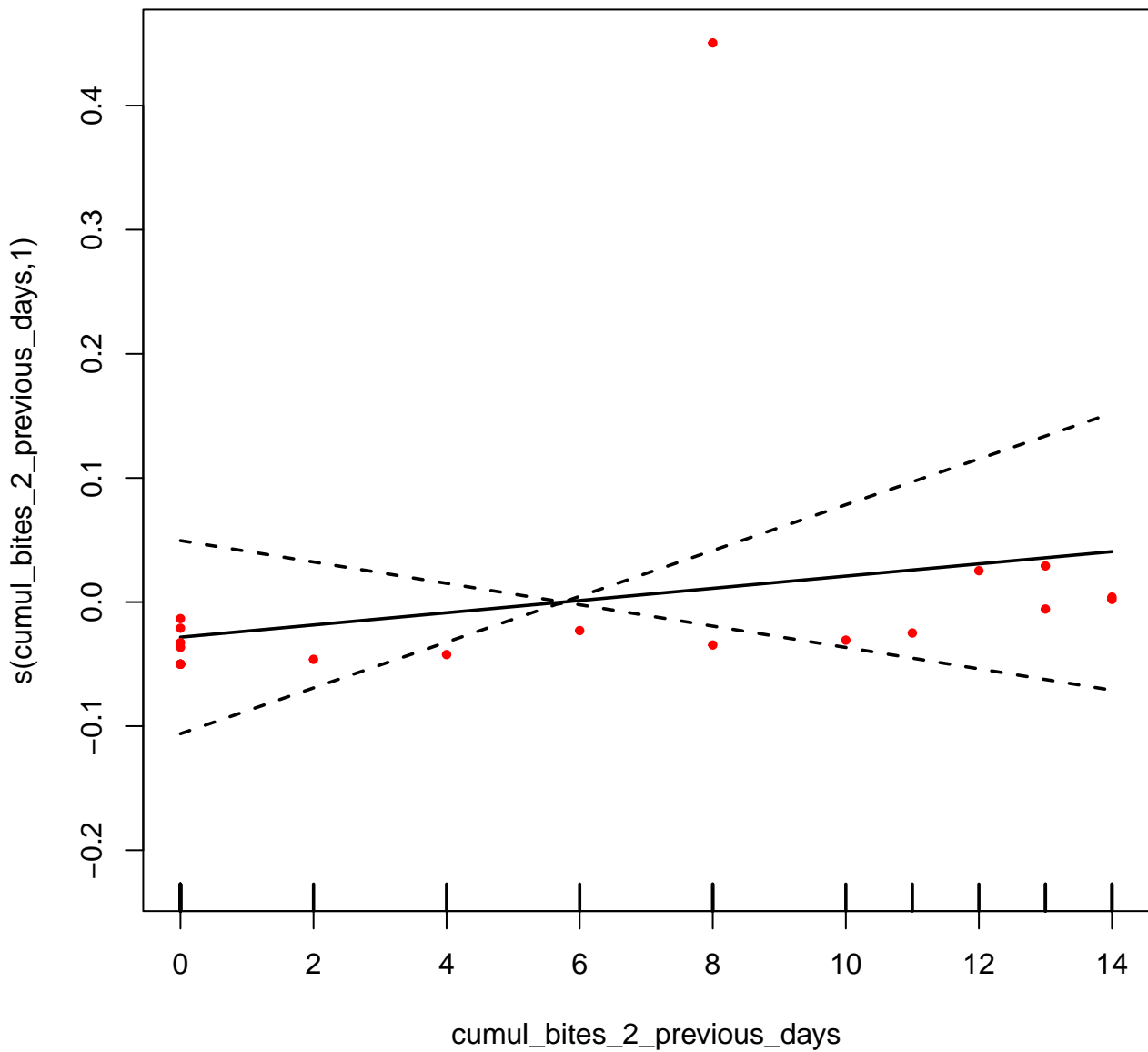
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

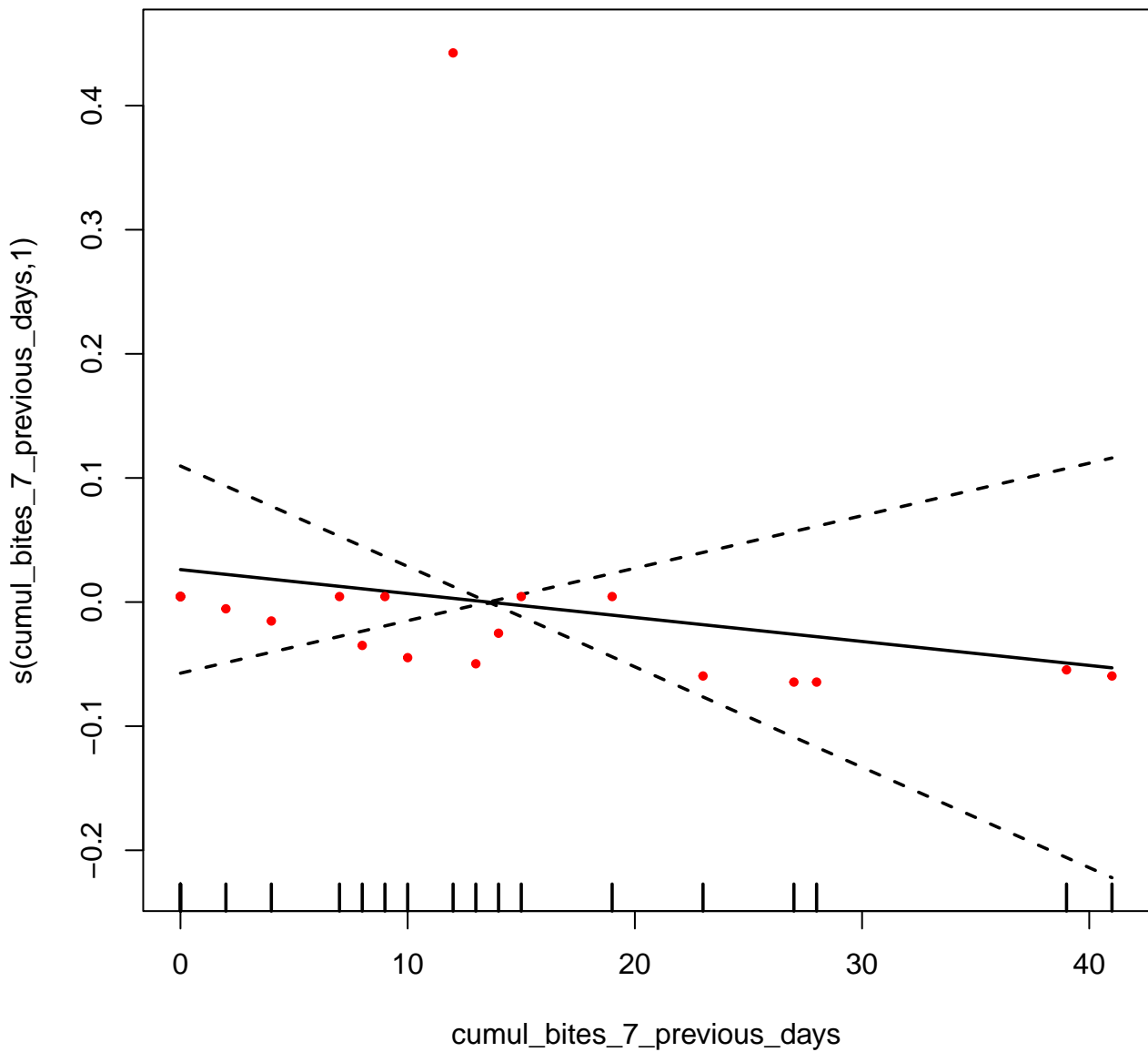
R-sq.(adj) = 0.837 Deviance explained = 86%
-ML = -23.593 Scale est. = 0.010935 n = 36

AICc [1] -48.92649

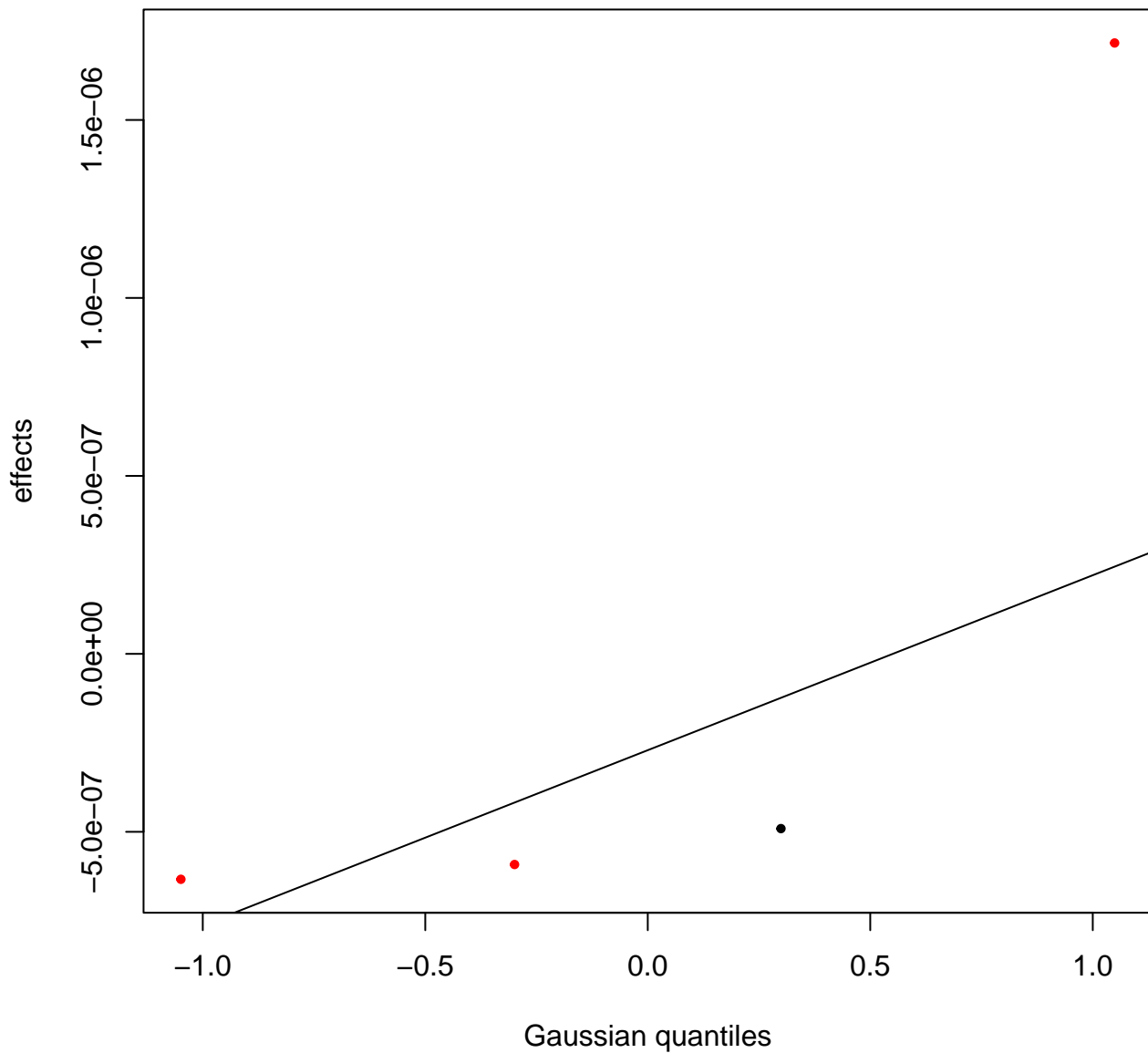
Bites in squirrel

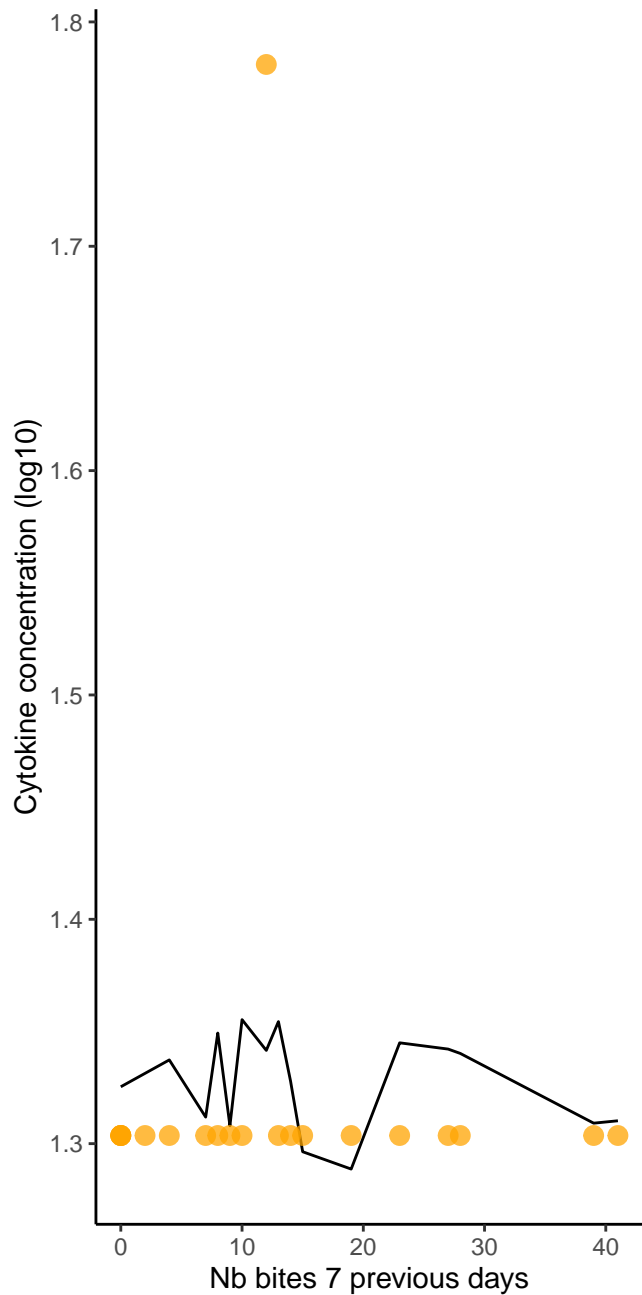
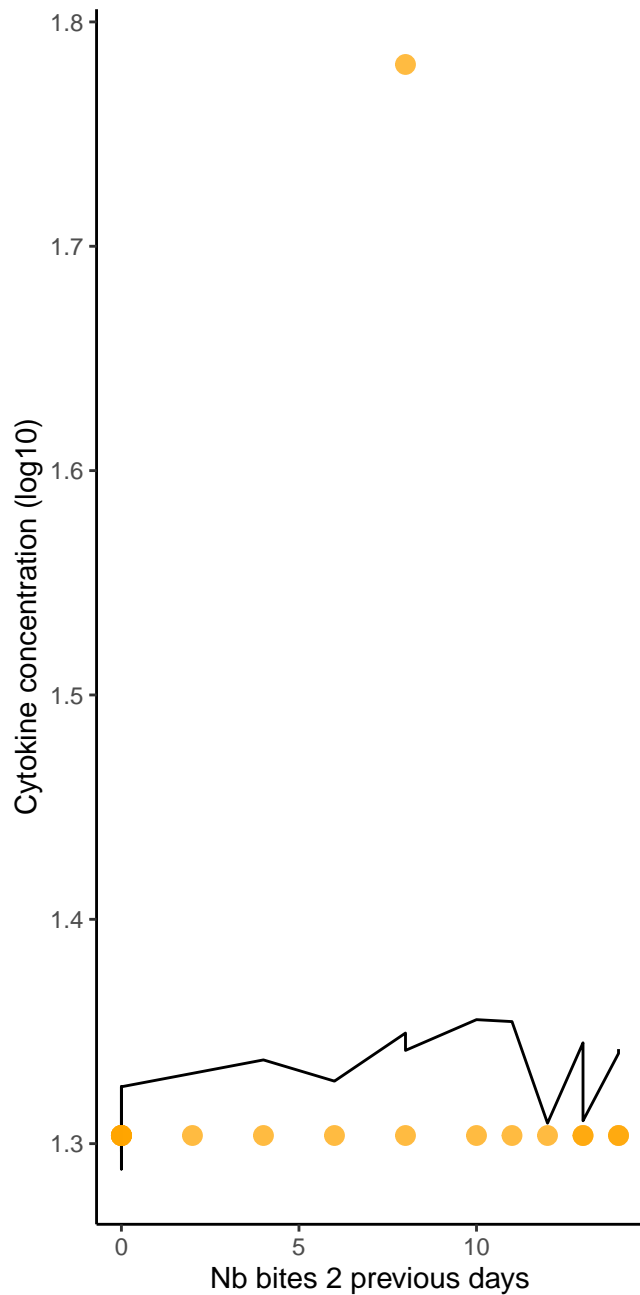
Nb obs : 20

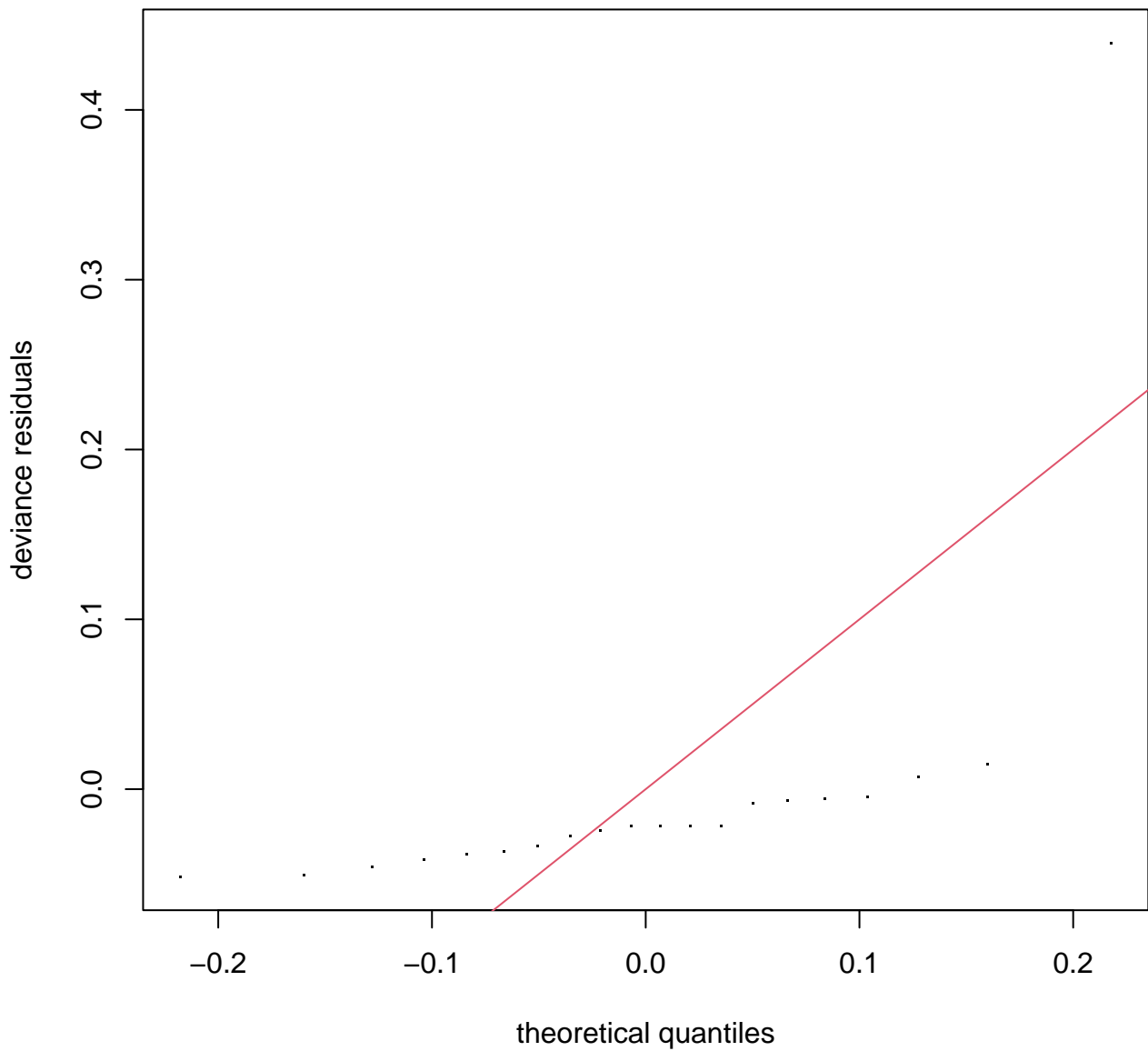




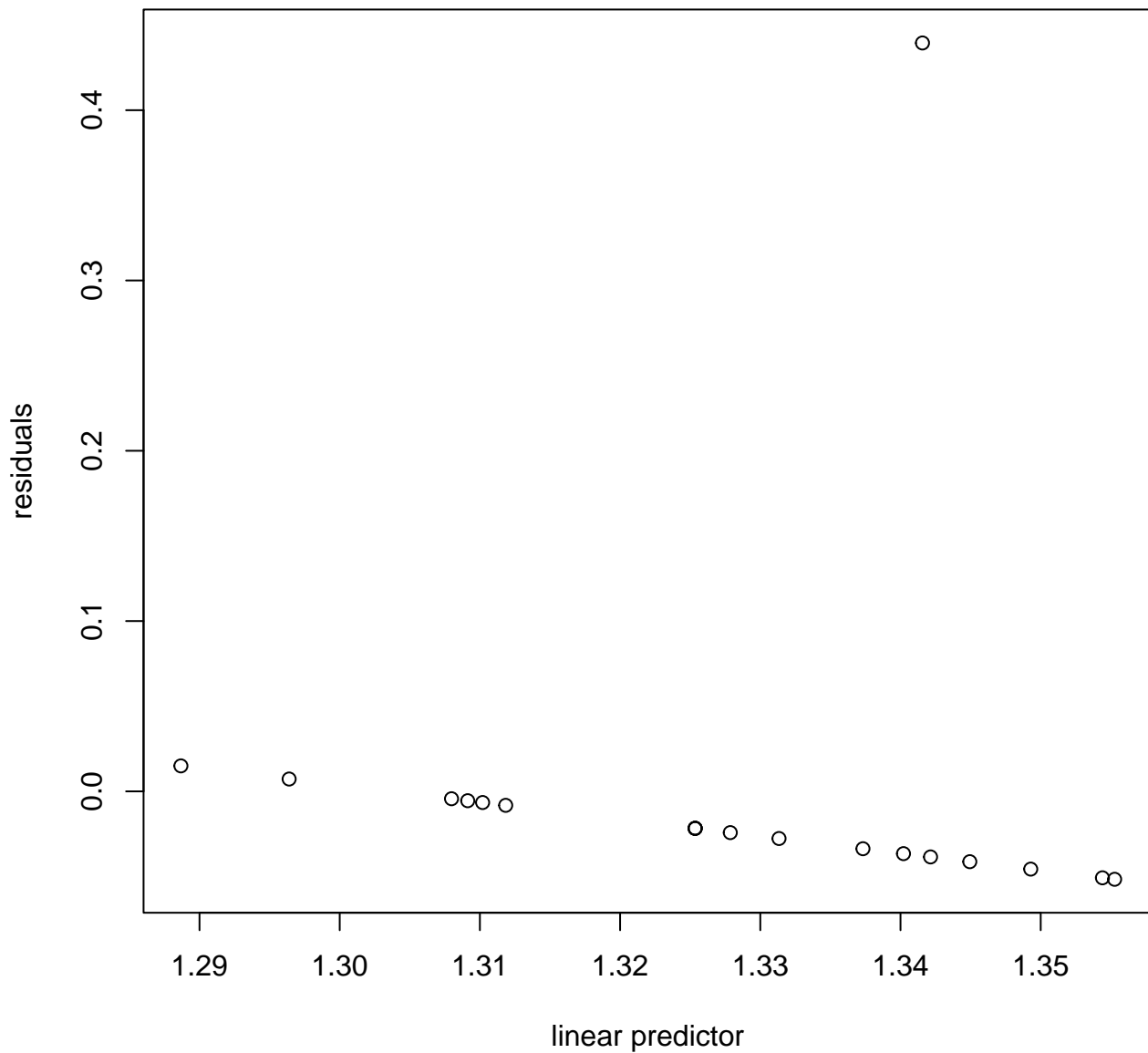
s(ID,0)



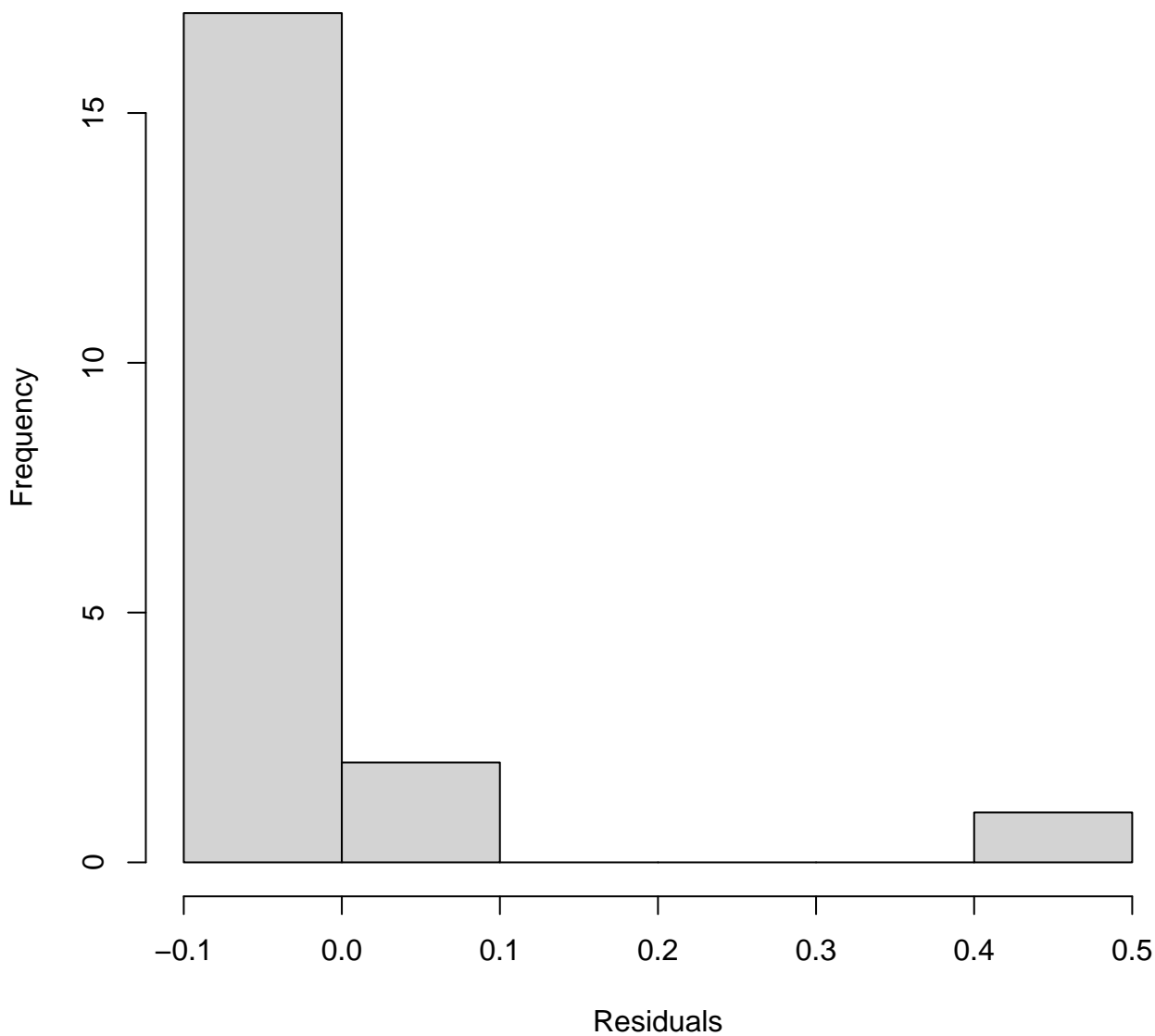




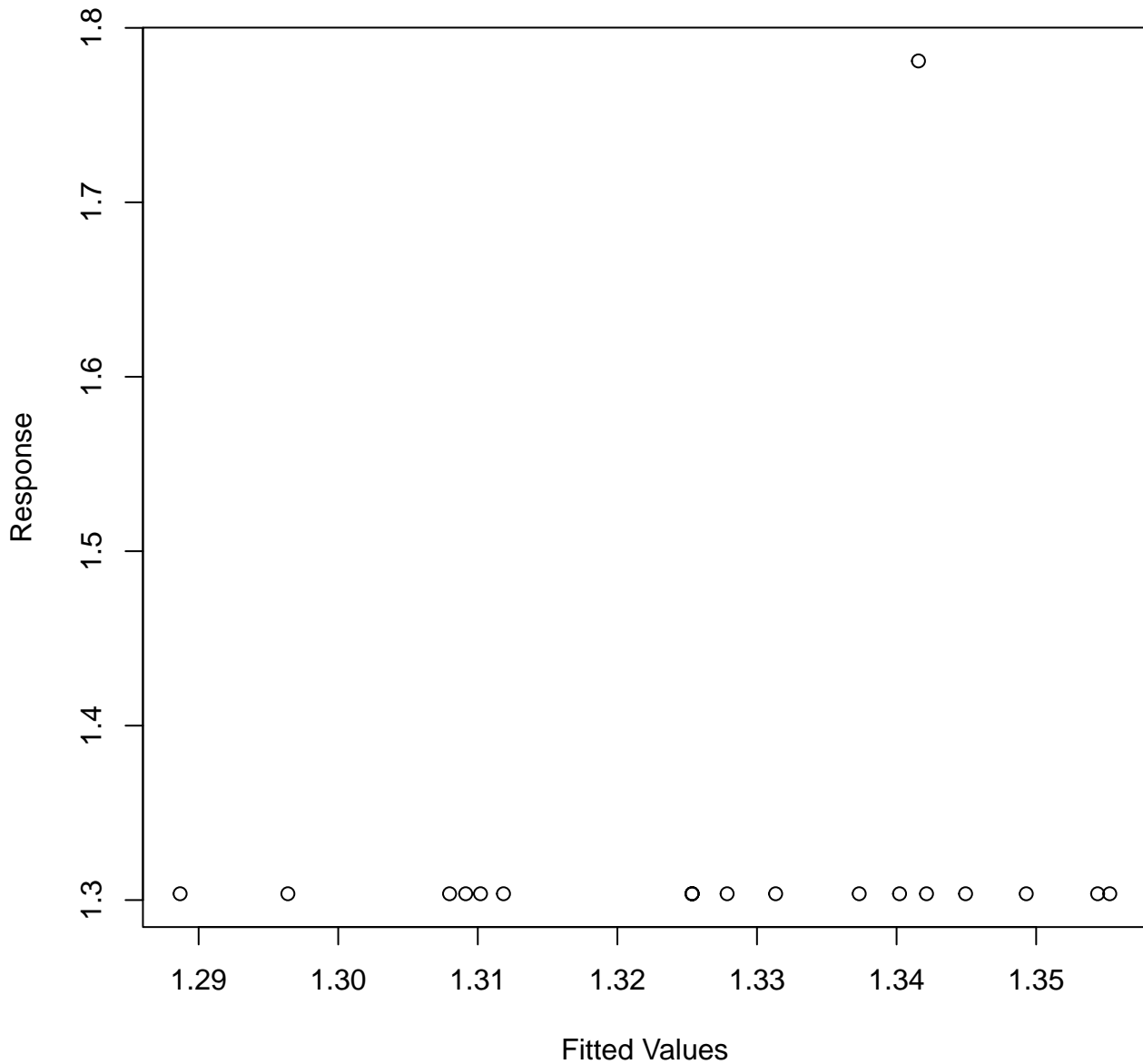
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 15 iterations.
 Gradient range [-1.445314e-06,4.255814e-05]
 (score -17.19421 & scale 0.01234153).
 Hessian positive definite, eigenvalue range [1.177622e-06,9.999957].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.00e+00	1.00e+00	1.22	0.98
s(cumul_bites_7_previous_days)	3.00e+00	1.00e+00	1.24	1.00
s(ID)	4.00e+00	6.17e-05	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.32750	0.02484	53.44	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.000e+00	1	0.529	0.477
s(cumul_bites_7_previous_days)	1.000e+00	1	0.393	0.539
s(ID)	6.174e-05	3	0.000	0.347

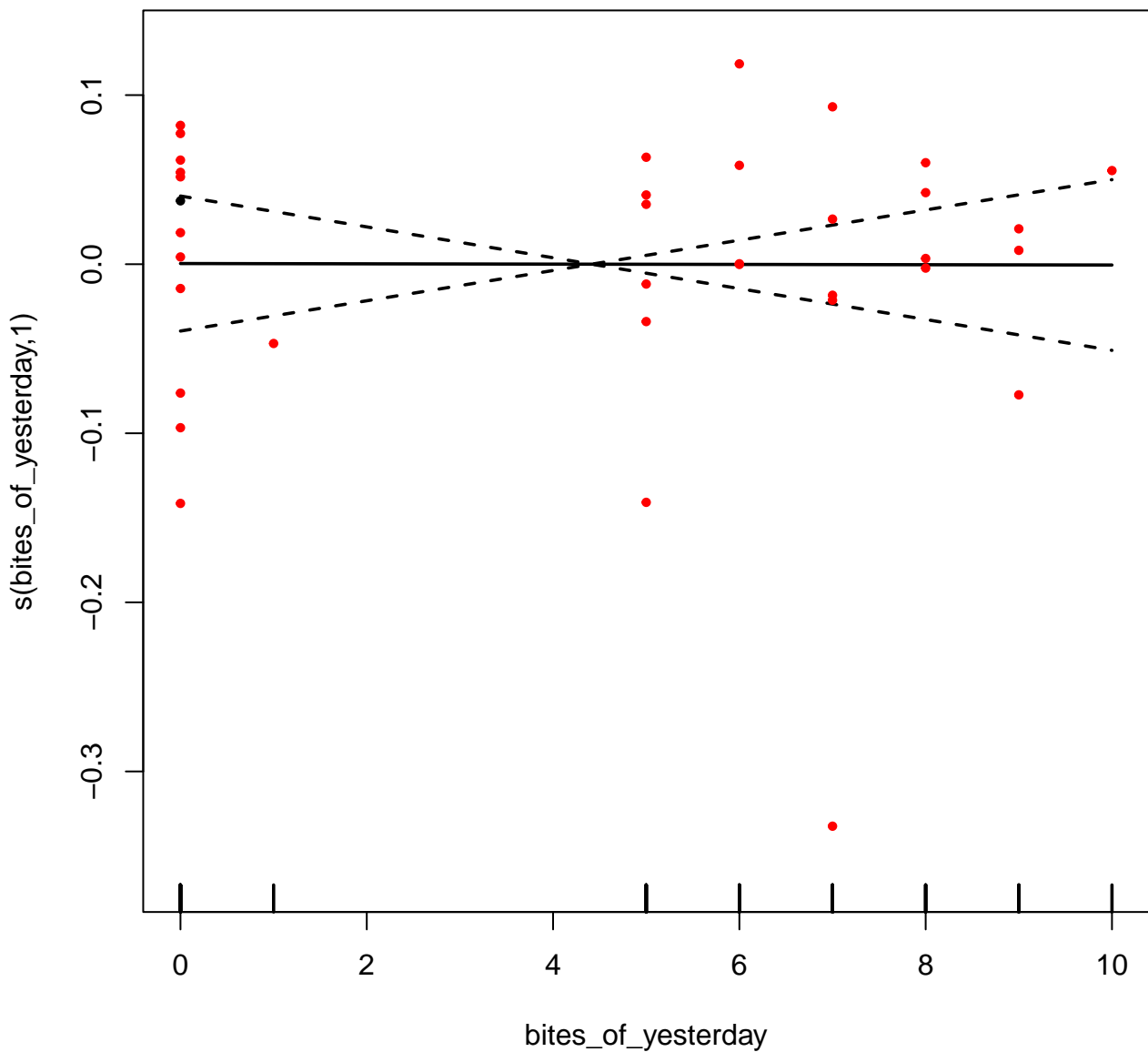
R-sq.(adj) = -0.083 Deviance explained = 3.1%
-ML = -17.194 Scale est. = 0.012342 n = 20

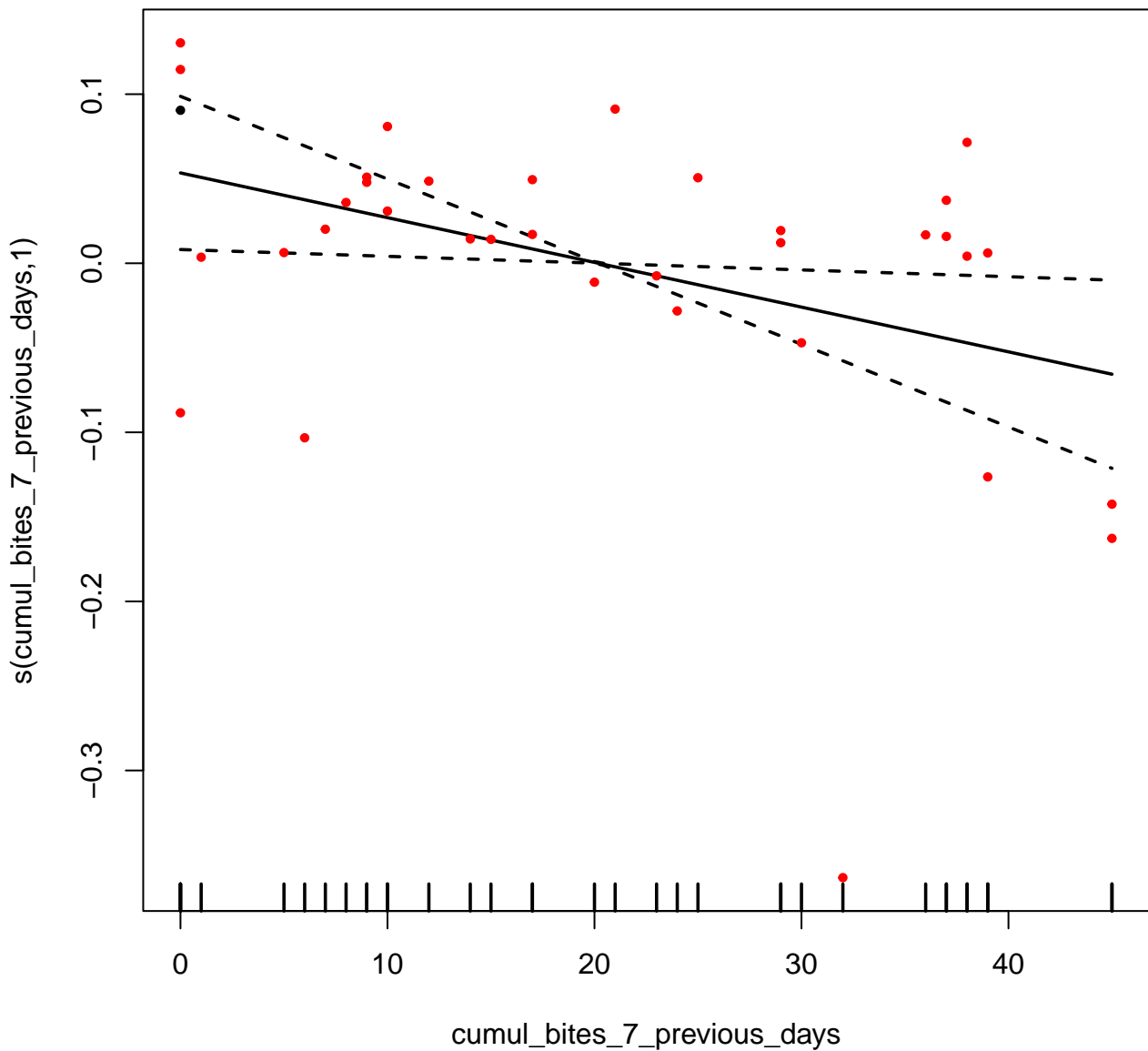
AICc [1] -23.72151

MDC

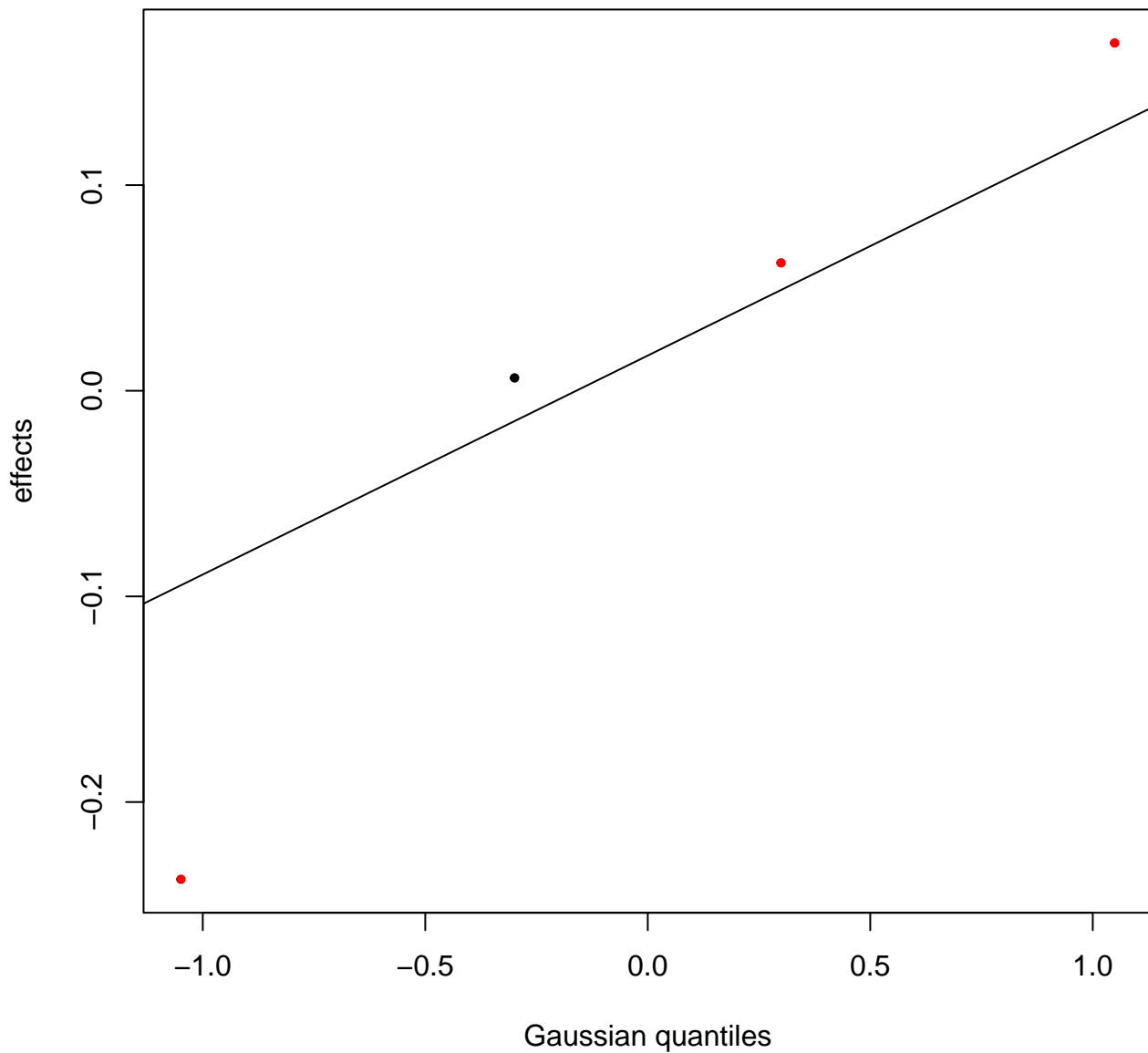
Bites in cyno

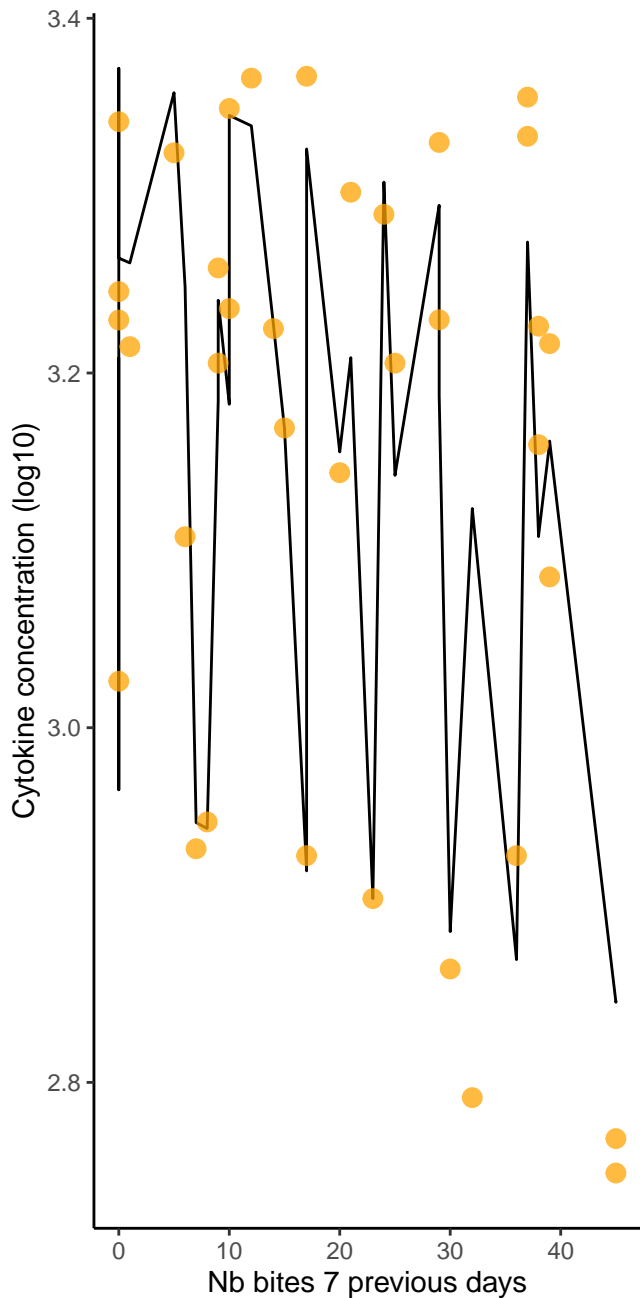
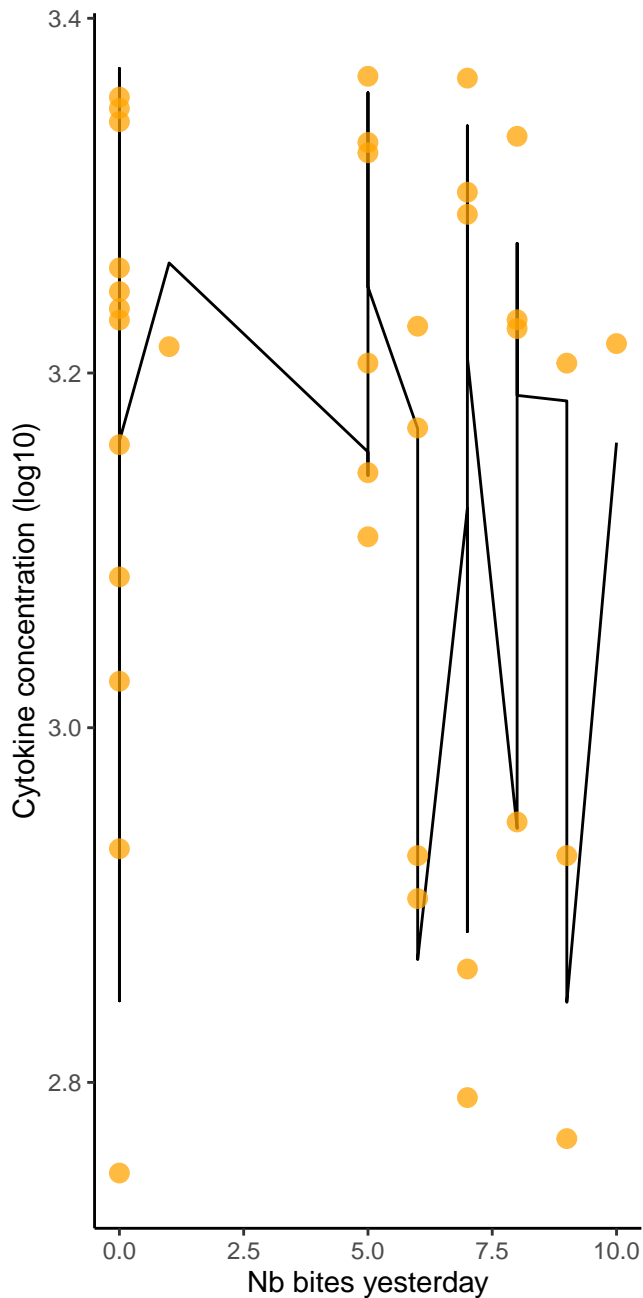
Nb obs : 36

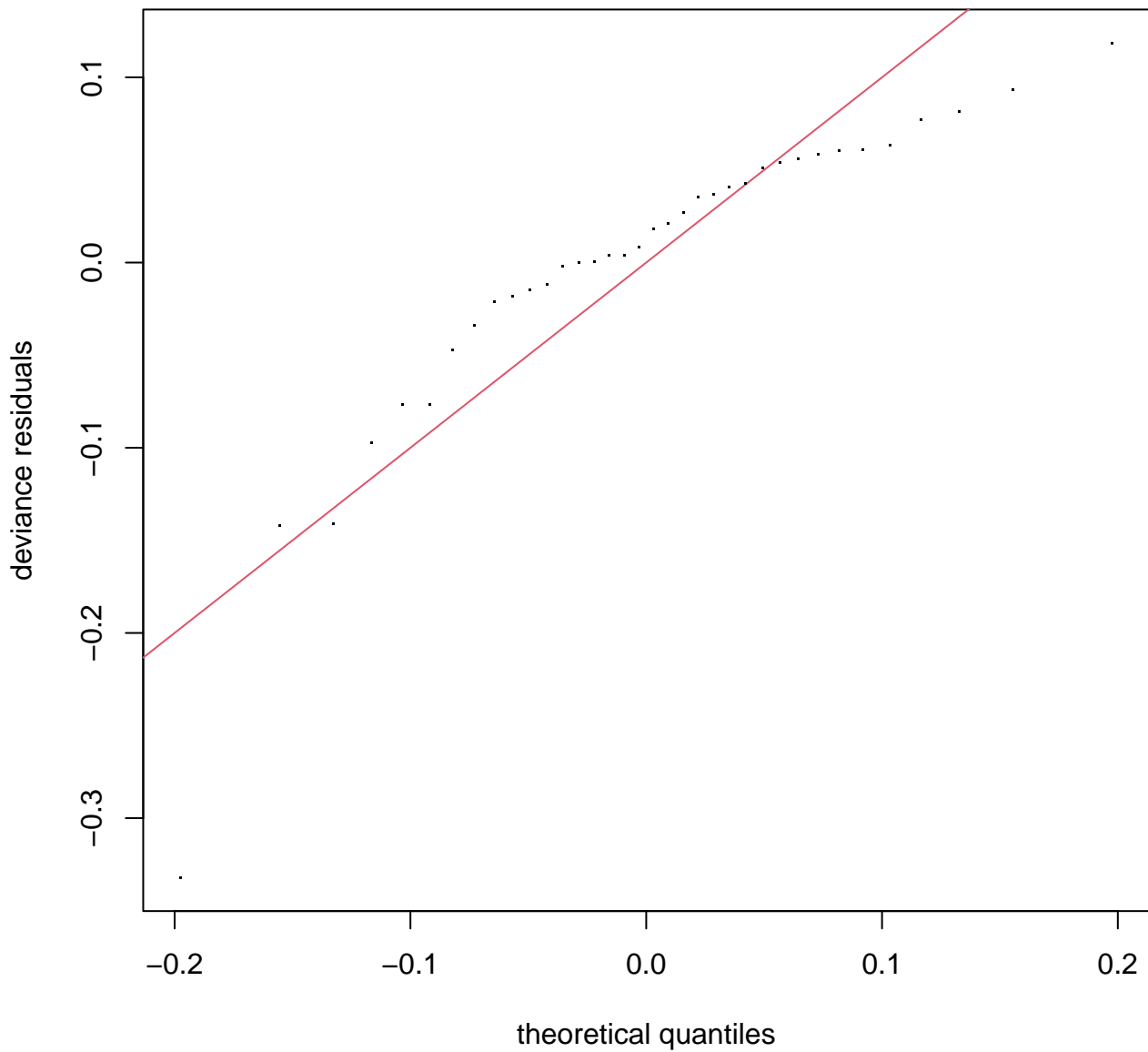




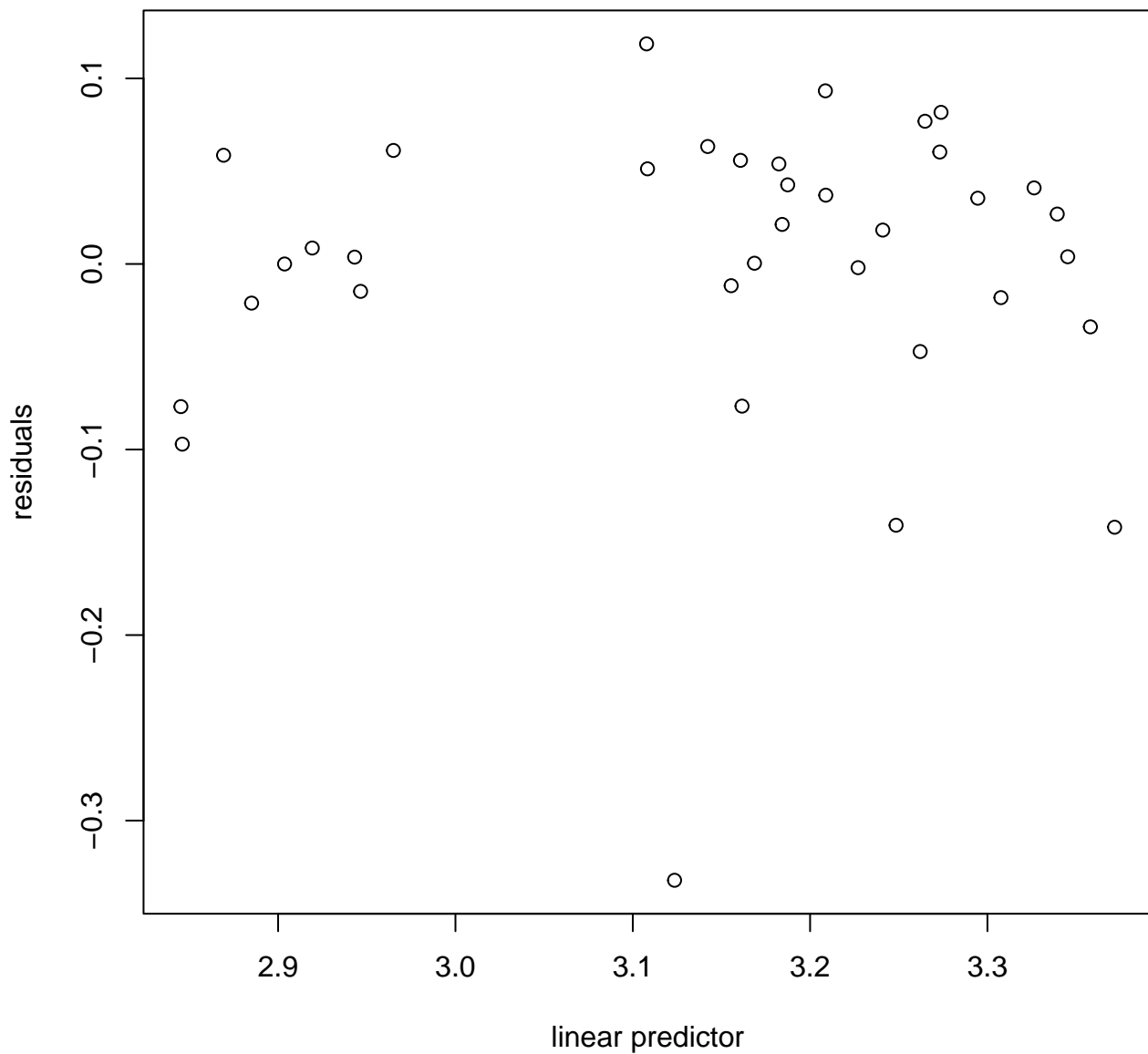
s(ID,2.89)



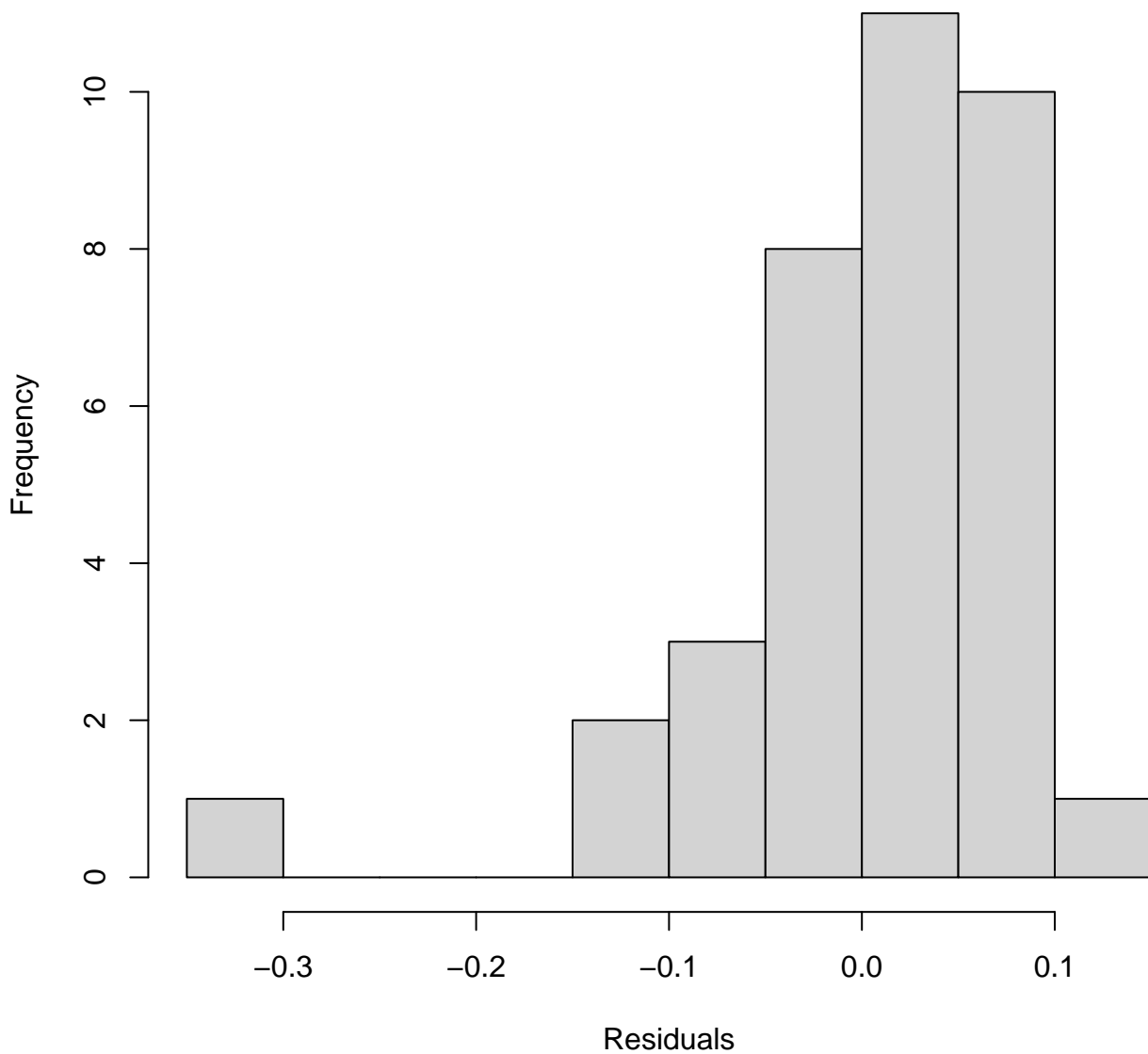




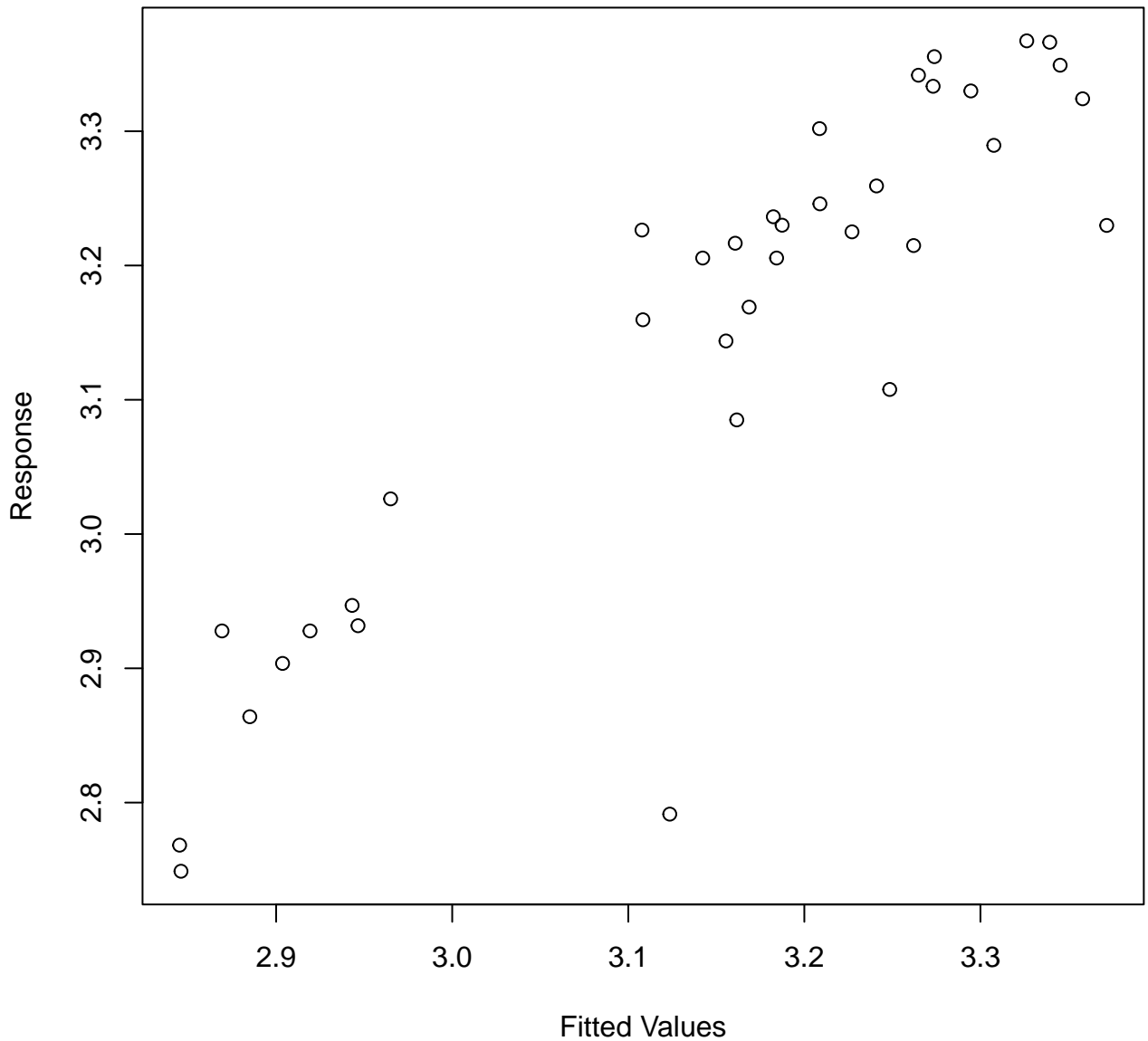
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 11 iterations.
 Gradient range [-1.138384e-05,1.971193e-06]
 (score -30.17698 & scale 0.008057609).
 Hessian positive definite, eigenvalue range [8.925835e-06,18.22751].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	0.99	0.47
s(cumul_bites_7_previous_days)	3.00	1.00	0.95	0.23
s(ID)	4.00	2.89	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.14878	0.07984	39.44	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.000	0.9848
s(cumul_bites_7_previous_days)	1.000	1	5.562	0.0251 *
s(ID)	2.894	3	33.618	<2e-16 ***

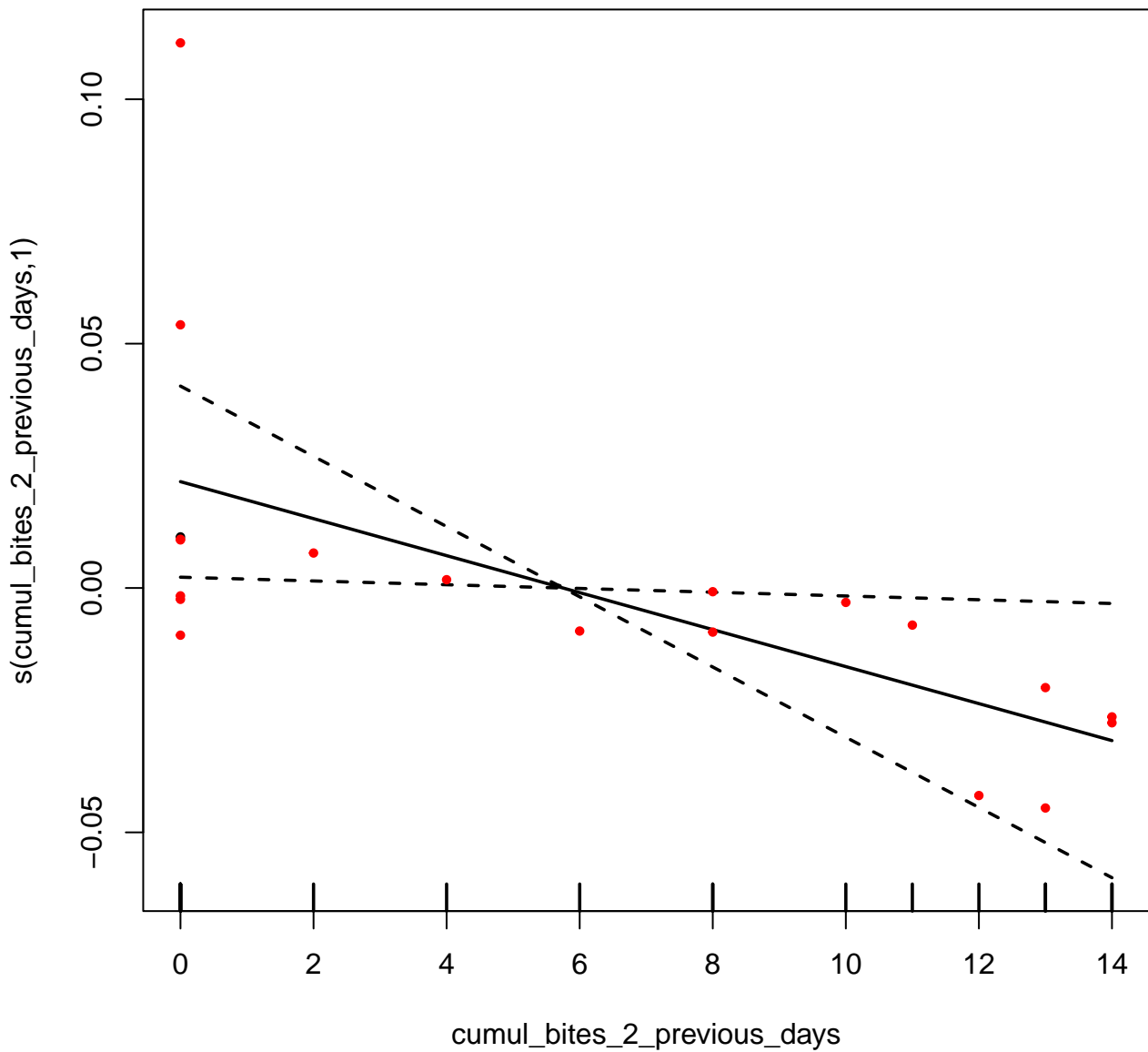
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

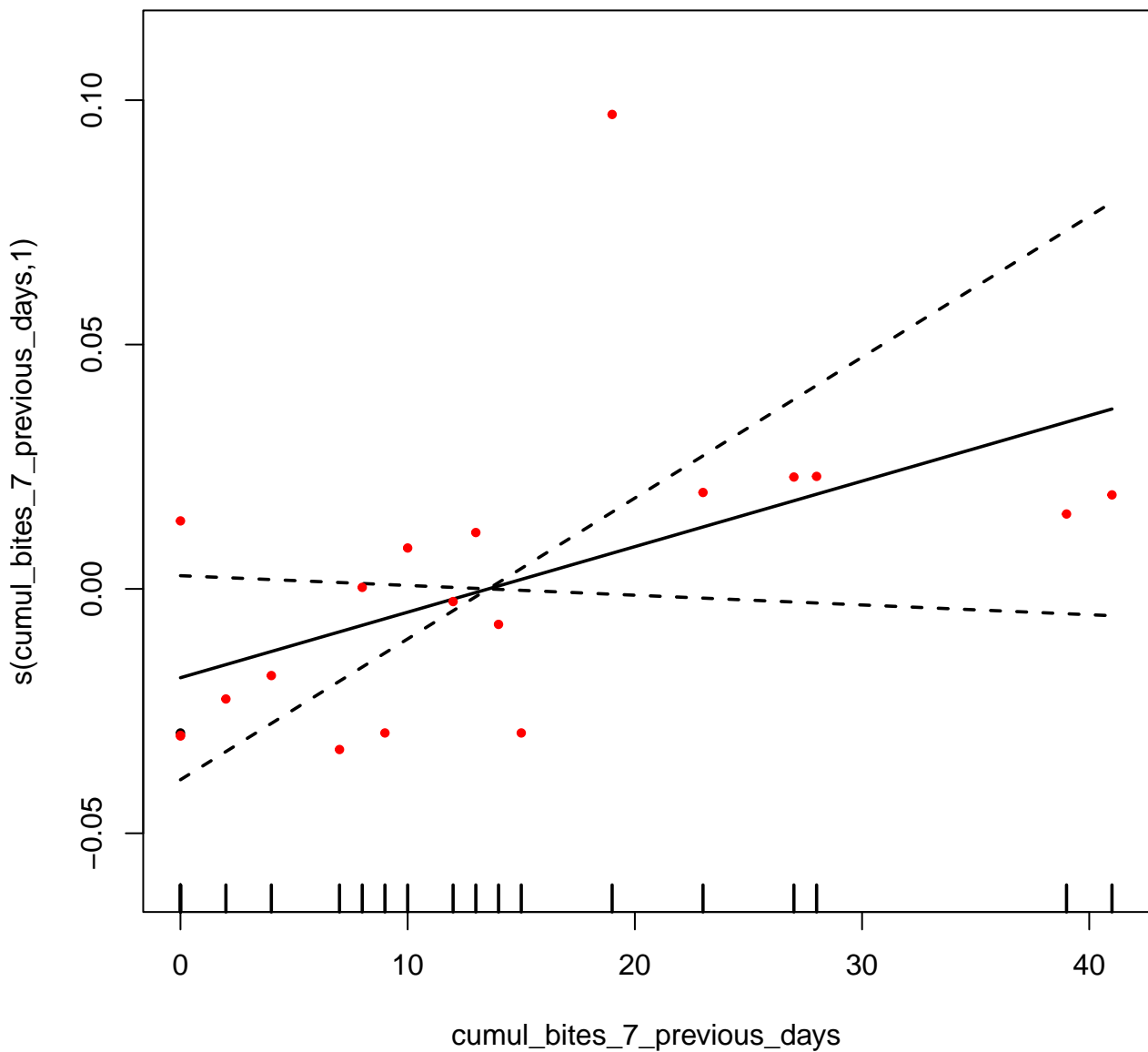
R-sq.(adj) = 0.766 Deviance explained = 79.9%
-ML = -30.177 Scale est. = 0.0080576 n = 36

AICc [1] -59.89258

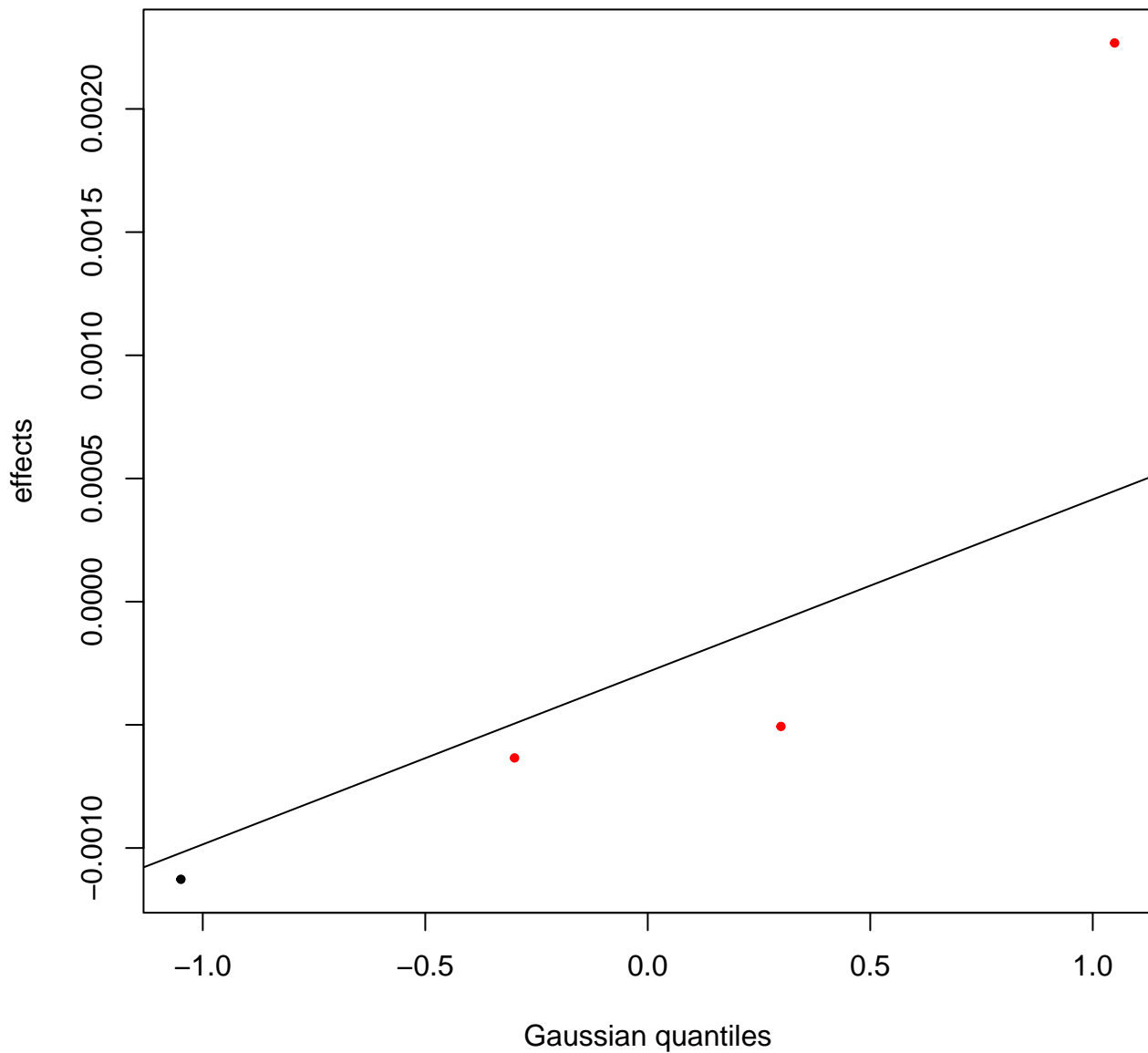
Bites in squirrel

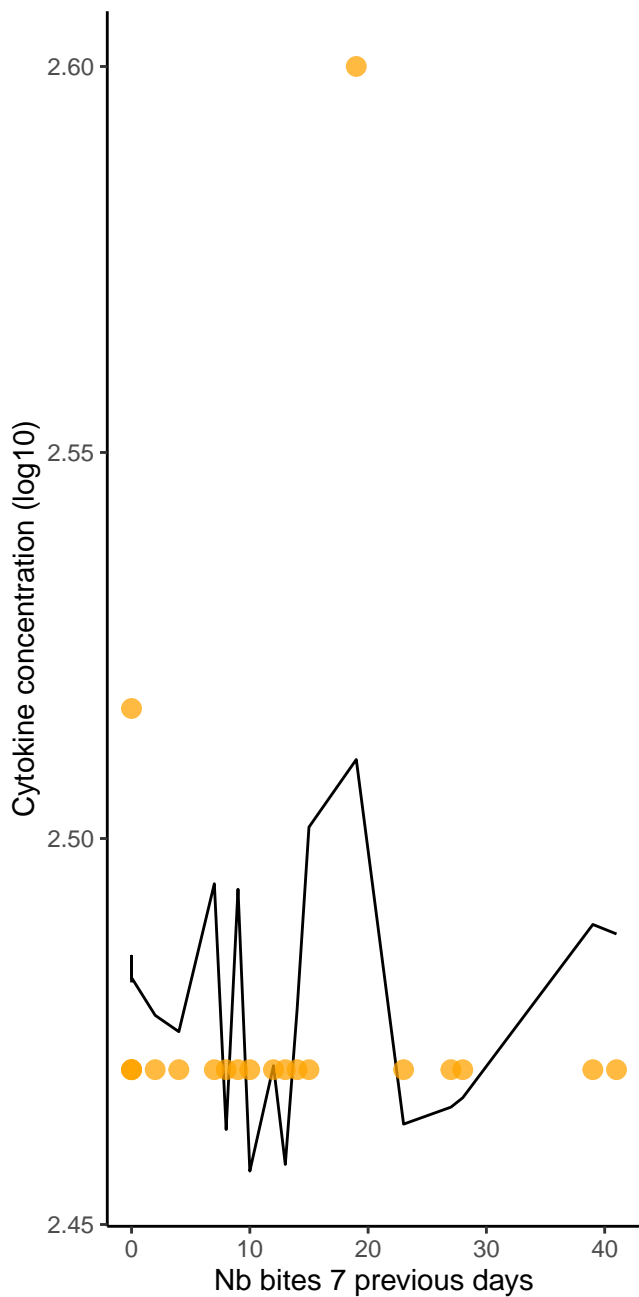
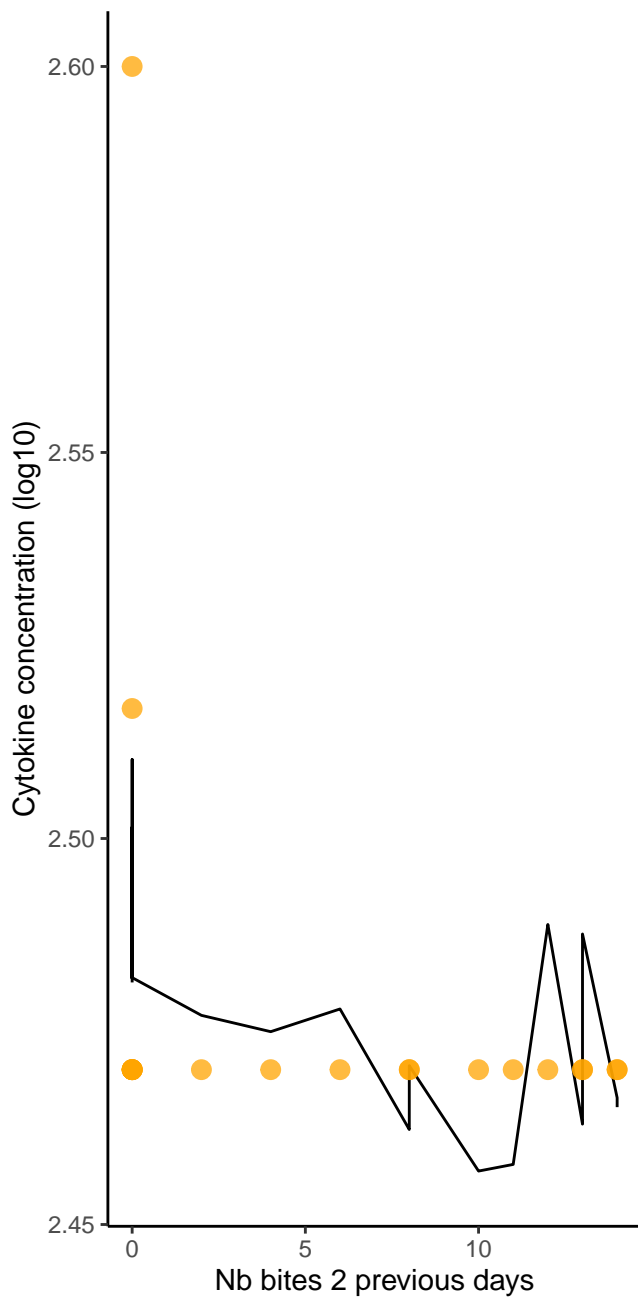
Nb obs : 20

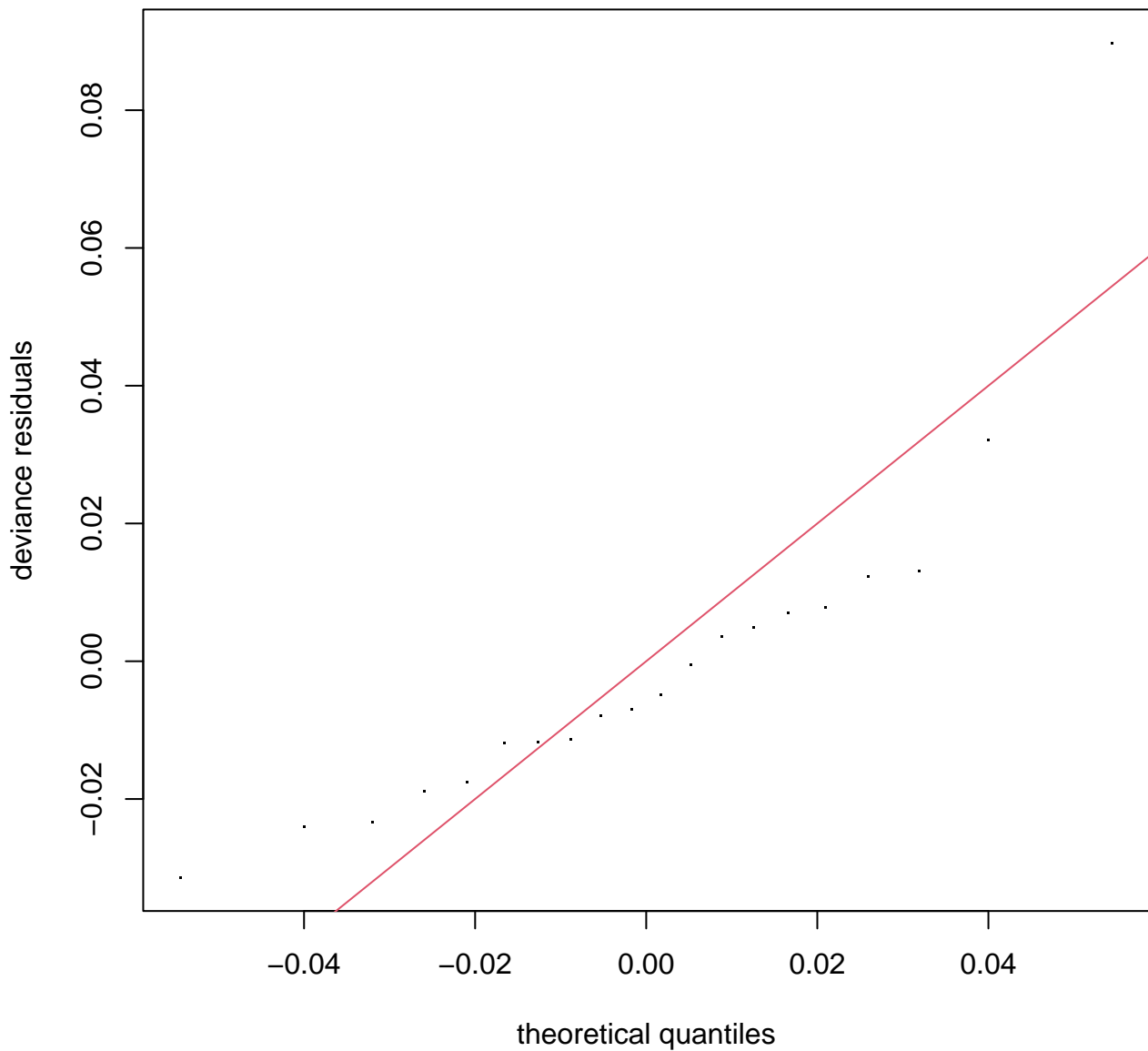




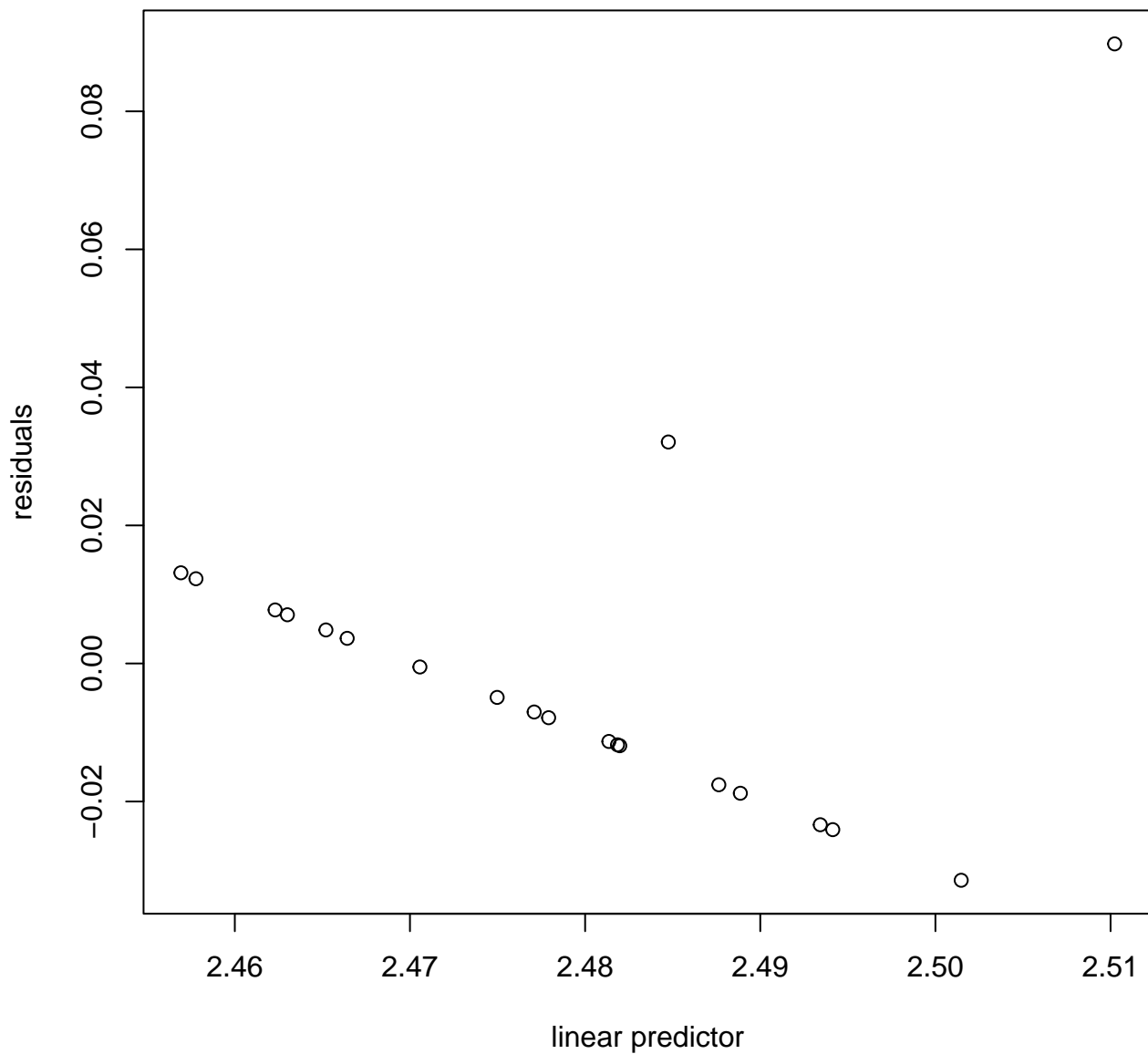
s(ID,0.31)



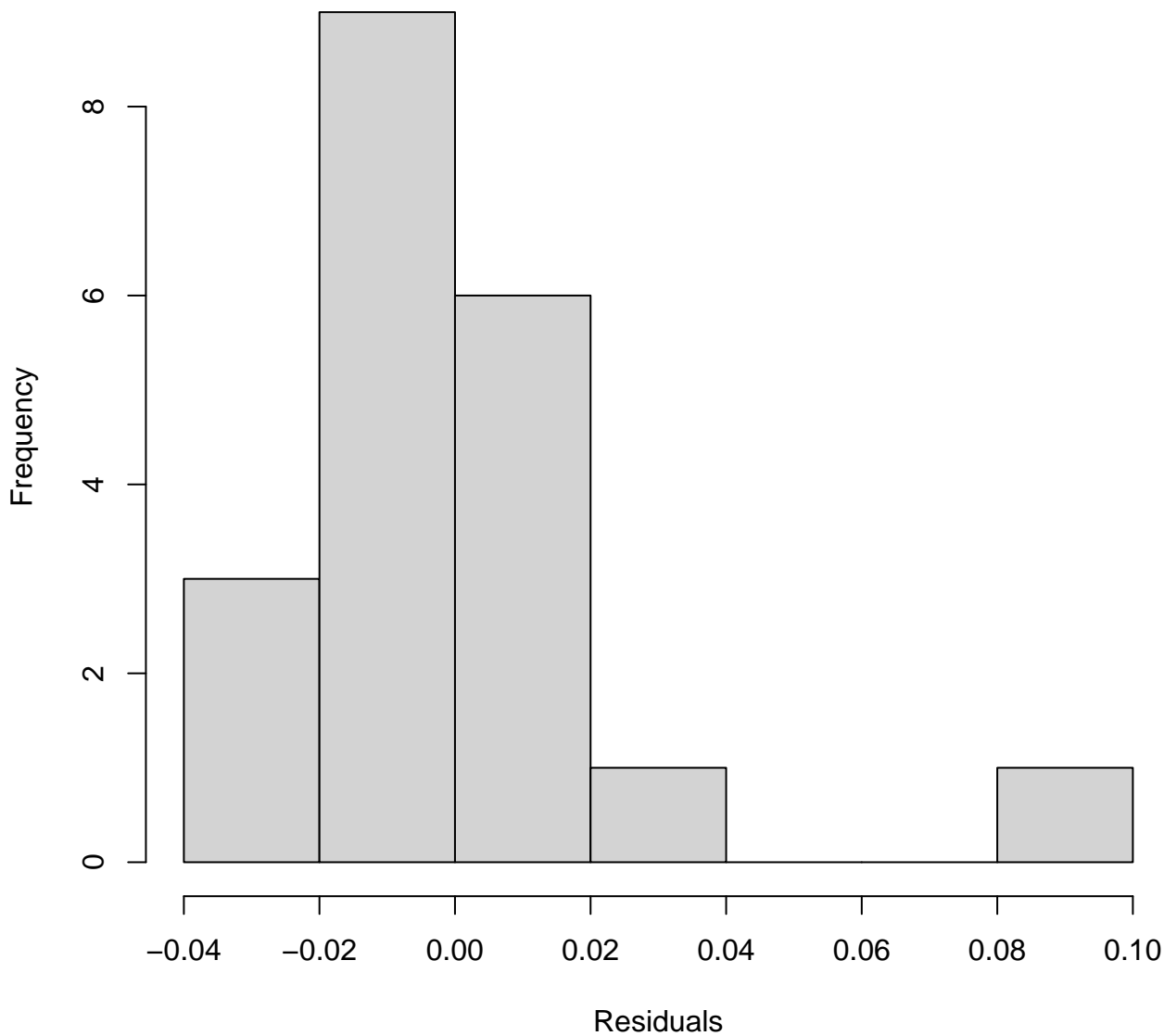




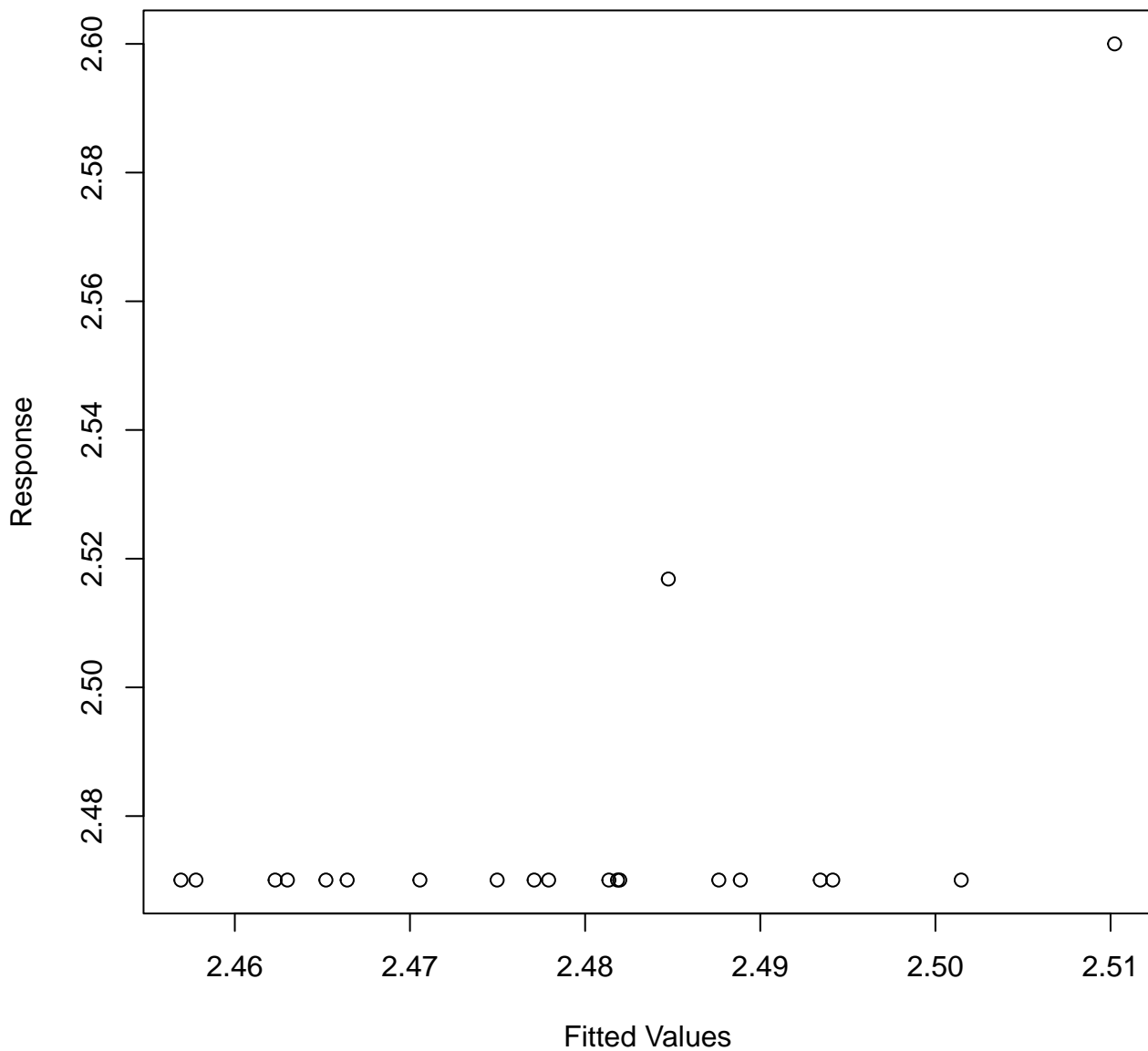
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 10 iterations.
 Gradient range [-2.677535e-05,1.873333e-06]
 (score -44.64763 & scale 0.0007716068).
 Hessian positive definite, eigenvalue range [6.938894e-07,10.00479].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.000	1.000	1.32	0.94
s(cumul_bites_7_previous_days)	3.000	1.000	1.26	0.84
s(ID)	4.000	0.309	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 14.99]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.01]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.478894	0.006582	376.6	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.0000	1	4.955	0.0398 *
s(cumul_bites_7_previous_days)	1.0000	1	3.030	0.0998 .
s(ID)	0.3094	3	0.138	0.2939

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

R-sq.(adj) = 0.163 Deviance explained = 26.5%

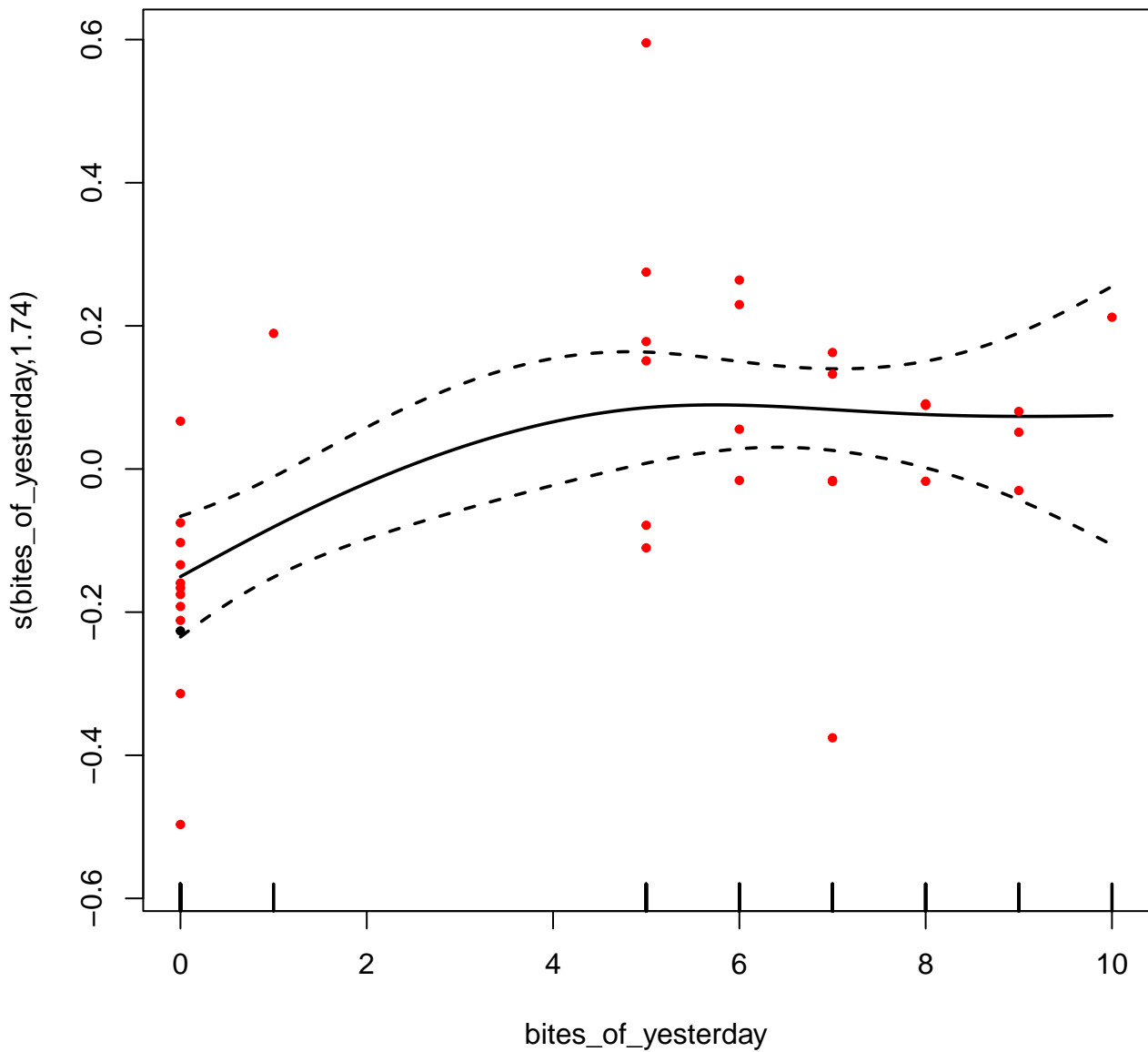
-ML = -44.648 Scale est. = 0.00077161 n = 20

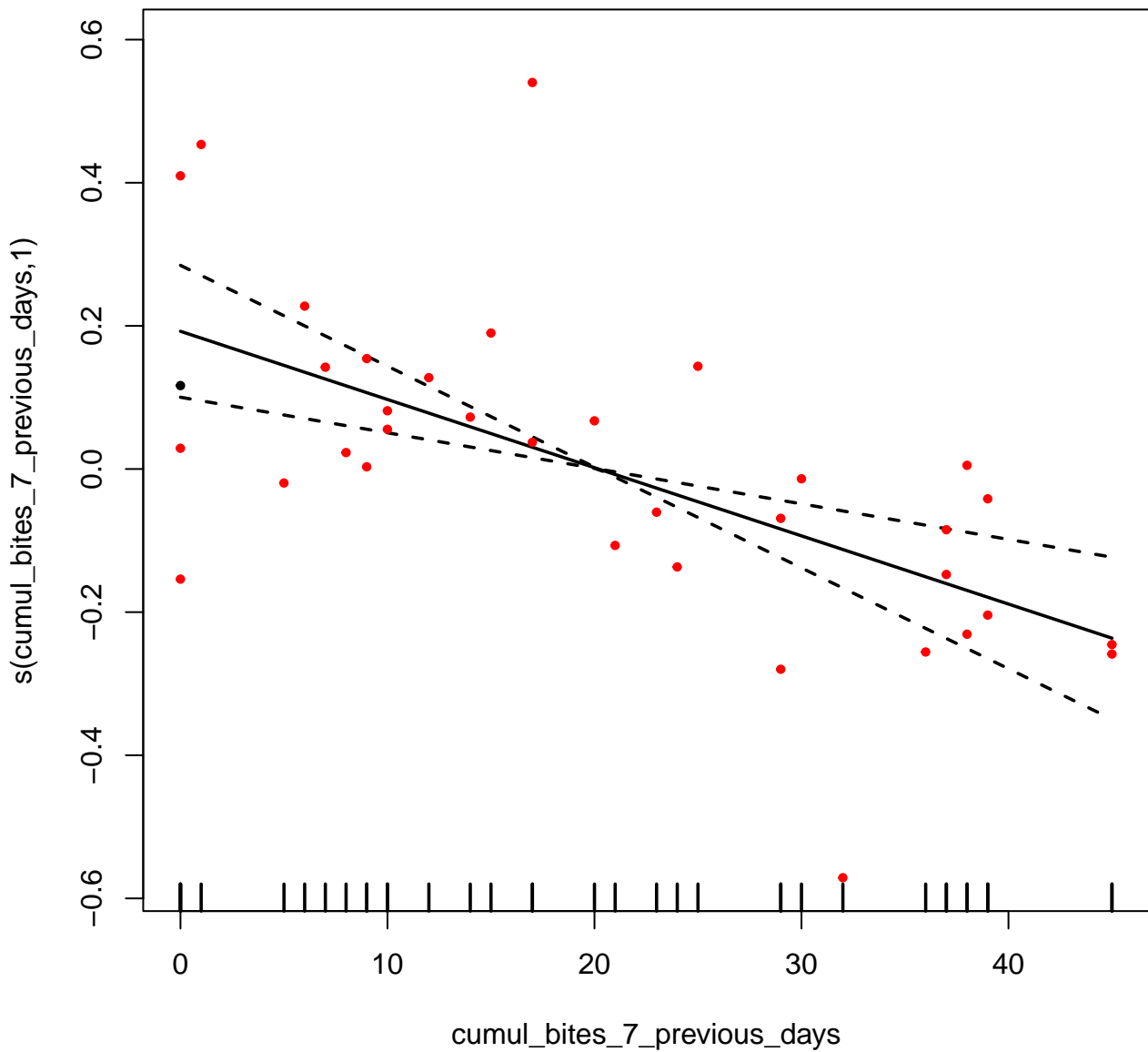
AICc [1] -77.47212

MIF

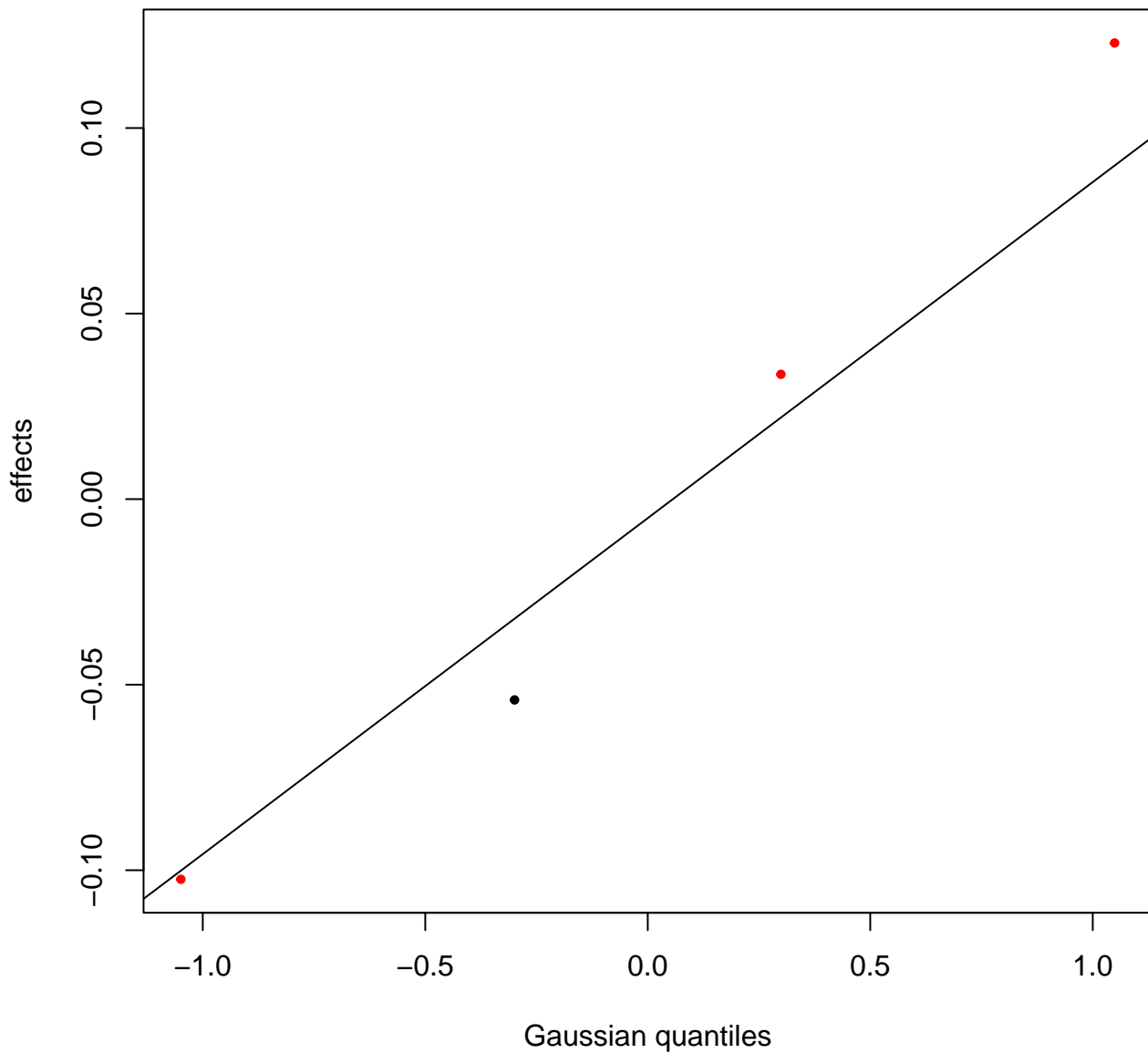
Bites in cyno

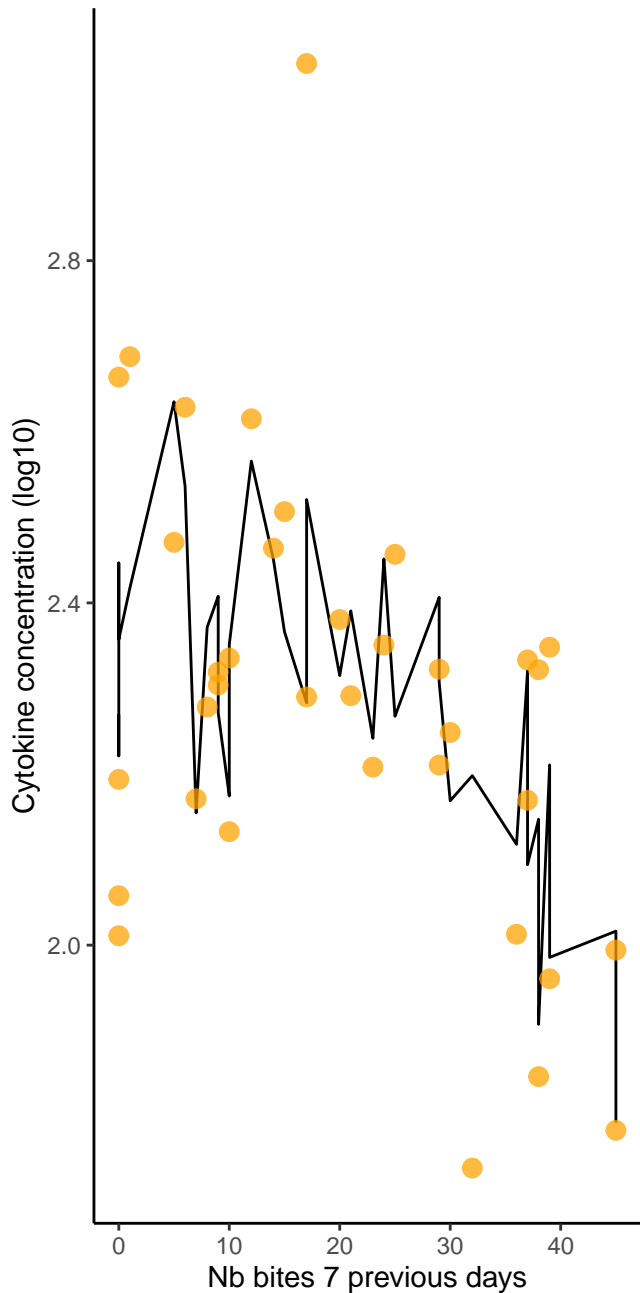
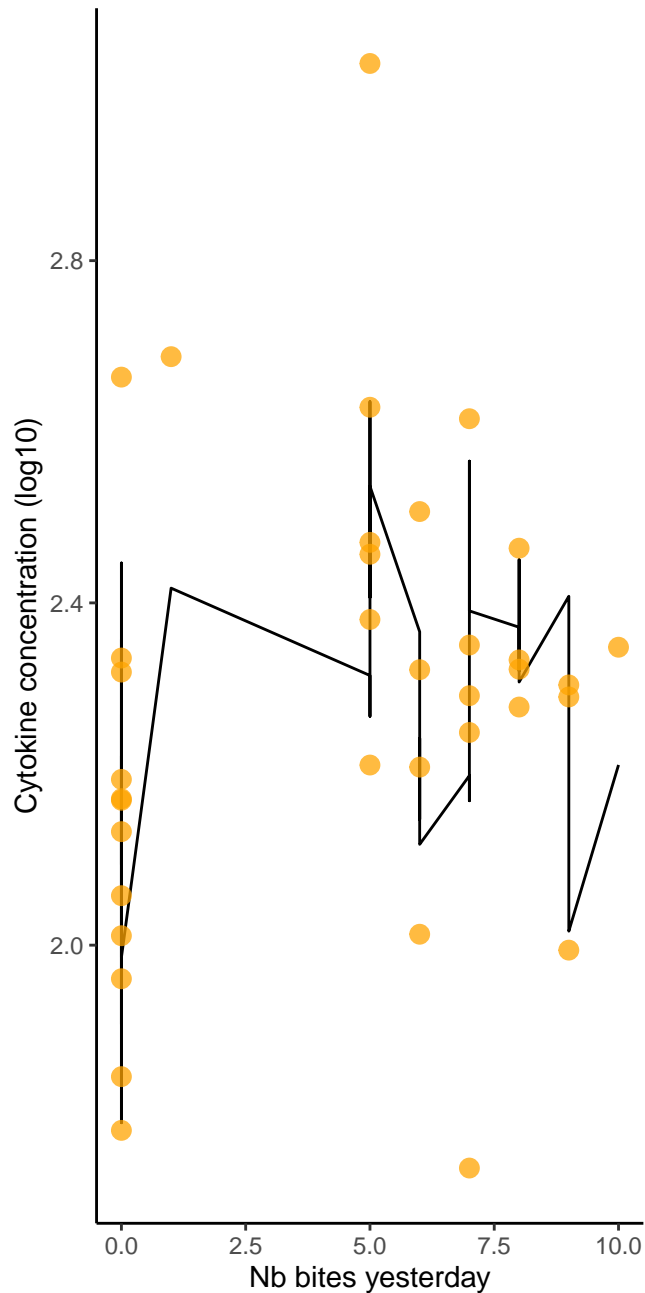
Nb obs : 36

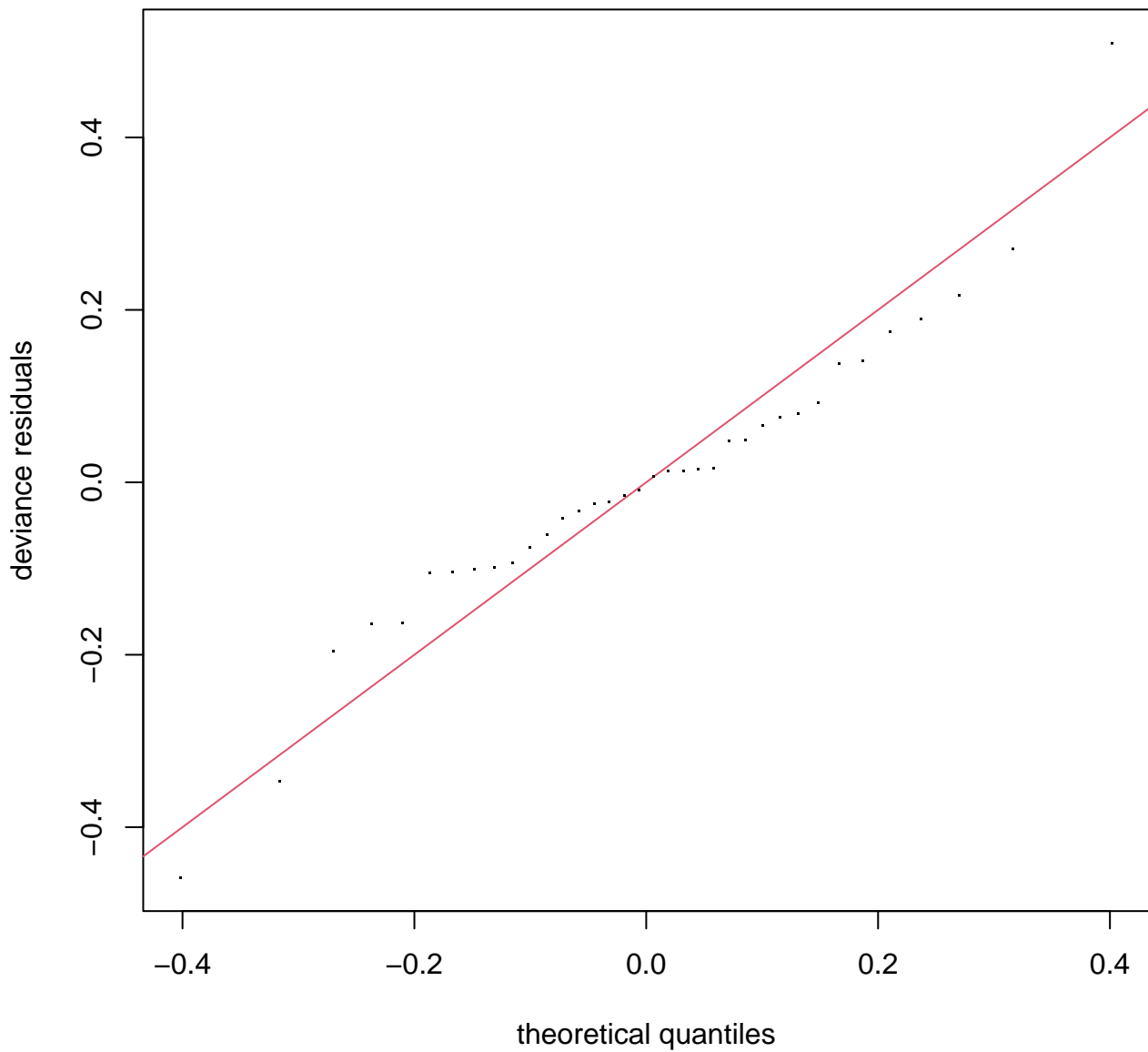




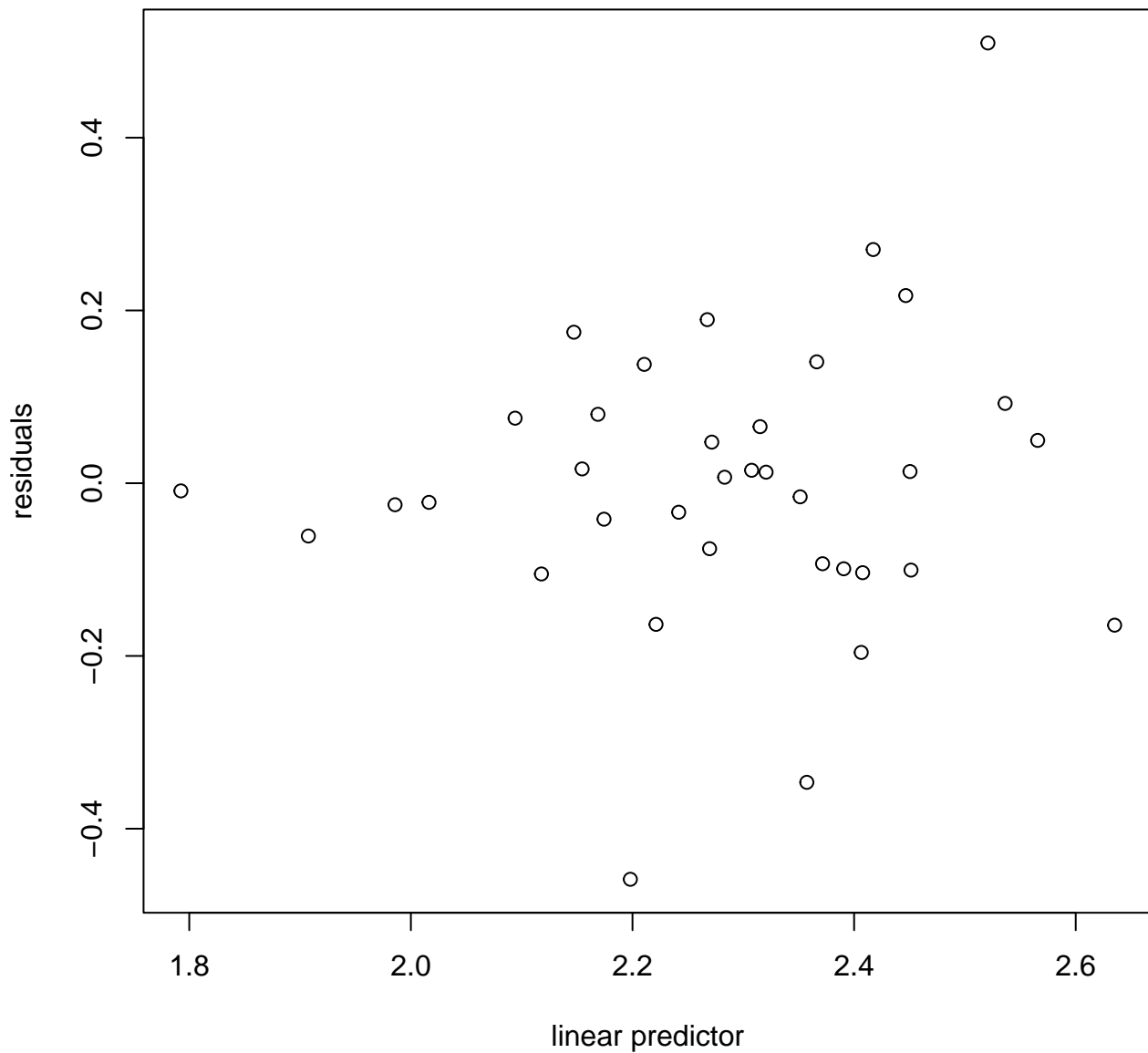
s(ID,2.2)



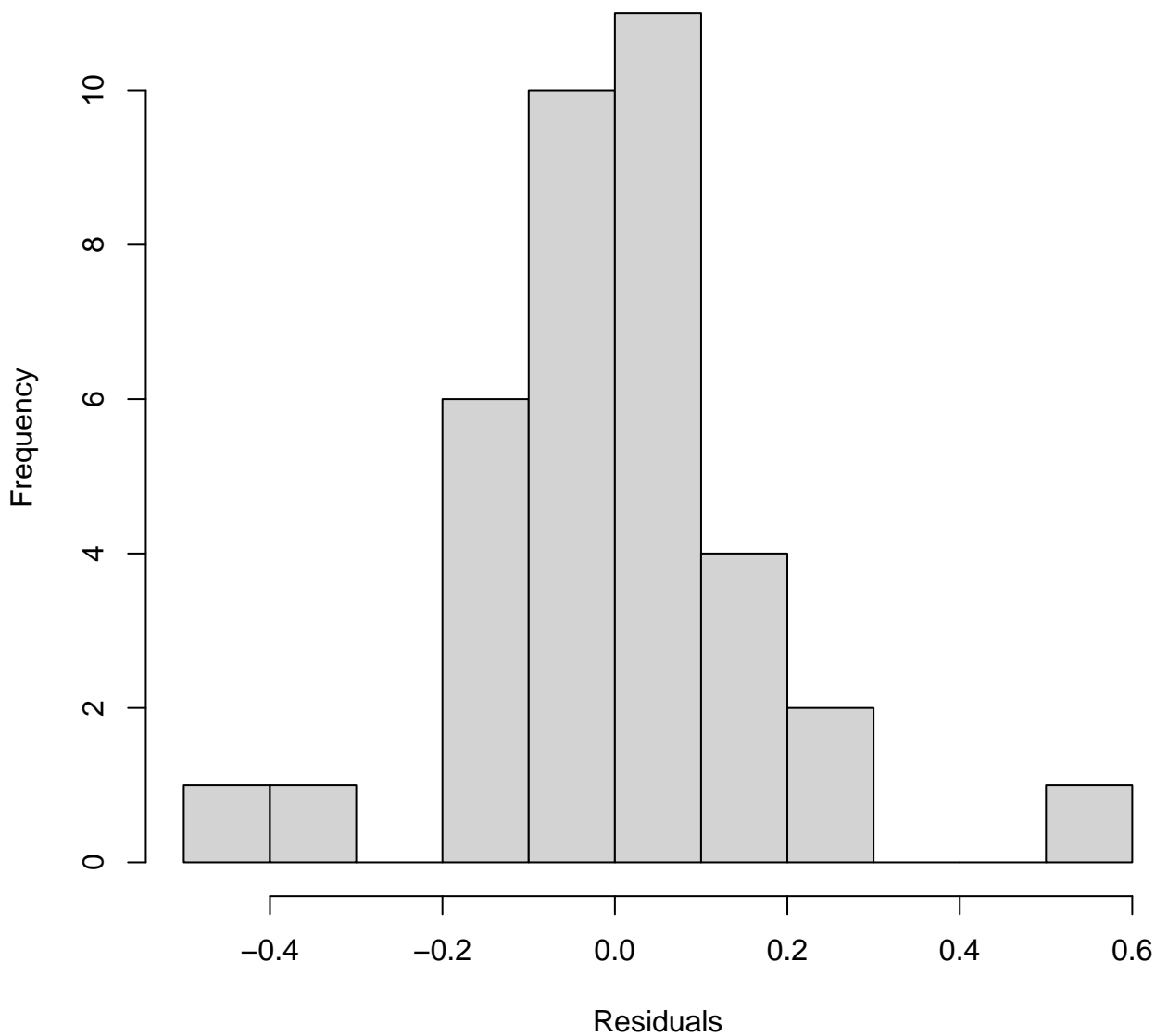




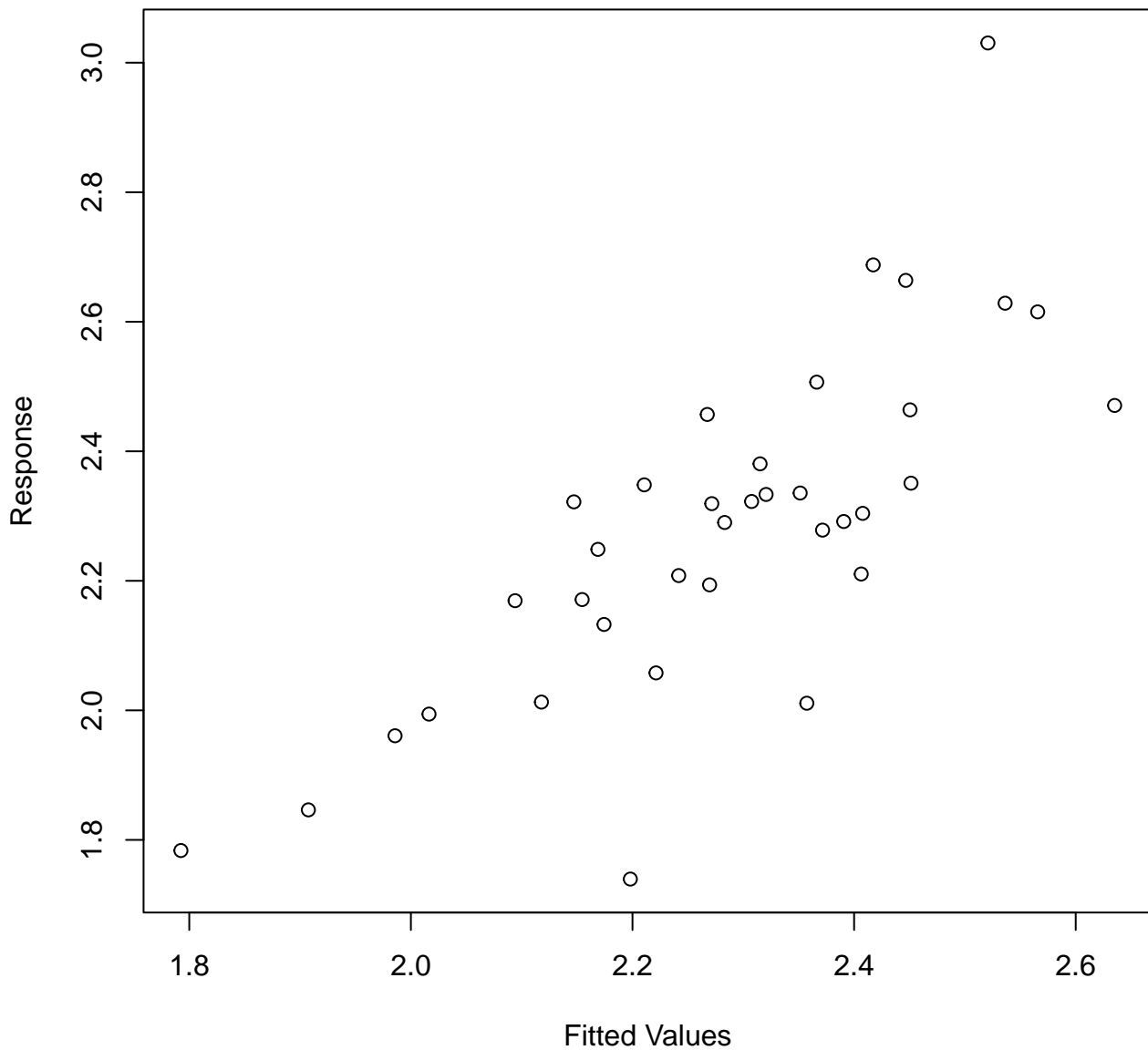
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
full convergence after 13 iterations.
Gradient range [-5.379547e-06,8.8966e-07]
(score -6.750531 & scale 0.03333811).
Hessian positive definite, eigenvalue range [5.379494e-06,18.1585].
Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.74	1.21	0.90
s(cumul_bites_7_previous_days)	3.00	1.00	1.30	0.95
s(ID)	4.00	2.20	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_7_previous_days, k = 4)	2.42	[1.68, 3.95]	1.56	0.41	[0.25, 0.59]	

Moderate Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	7.01	[4.35, 11.80]	2.65	0.14	[0.08, 0.23]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.28167	0.05973	38.2	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.736	2.052	6.168	0.004766 **
s(cumul_bites_7_previous_days)	1.000	1.000	17.447	0.000235 ***
s(ID)	2.202	3.000	3.533	0.007181 **

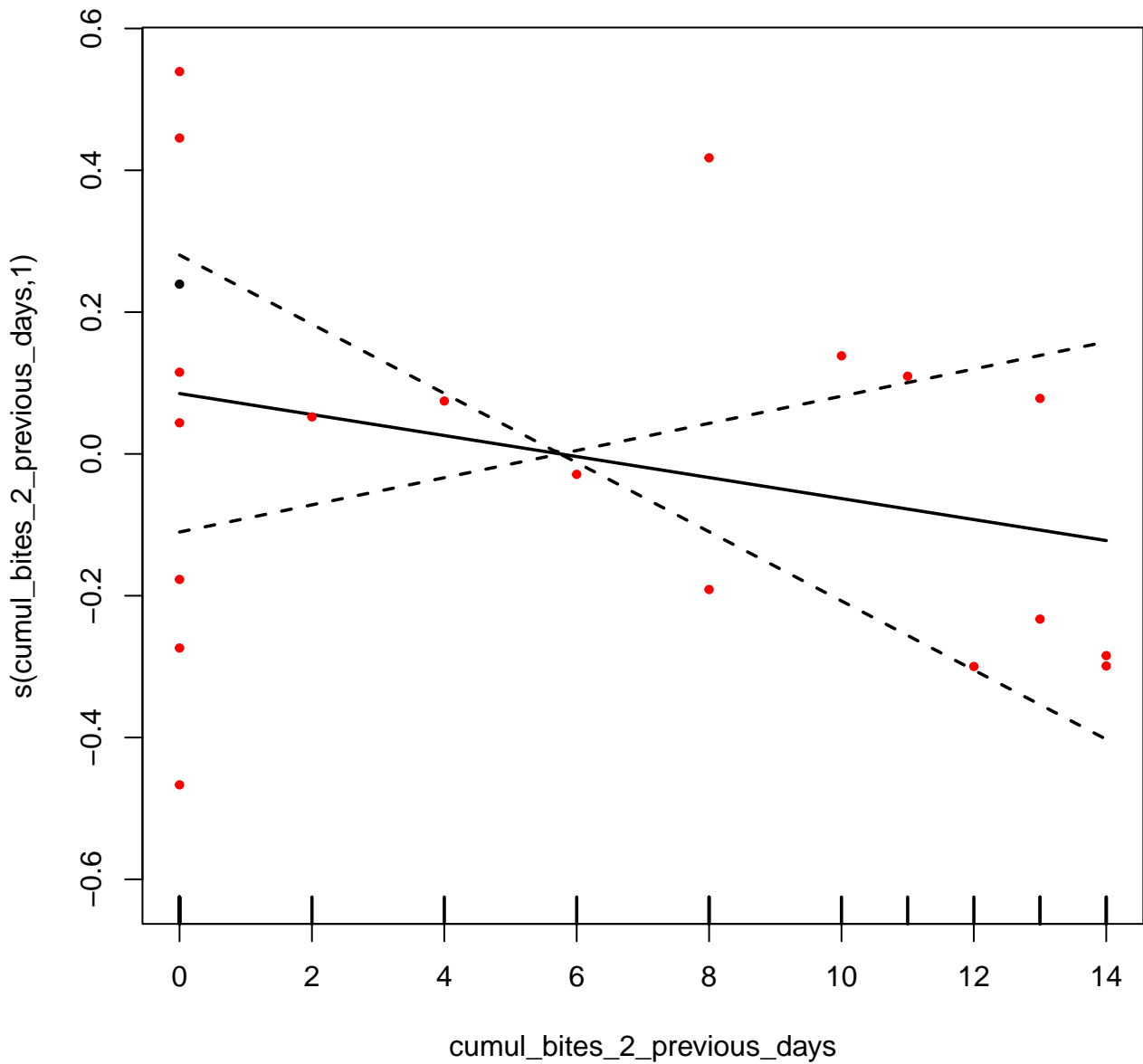
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

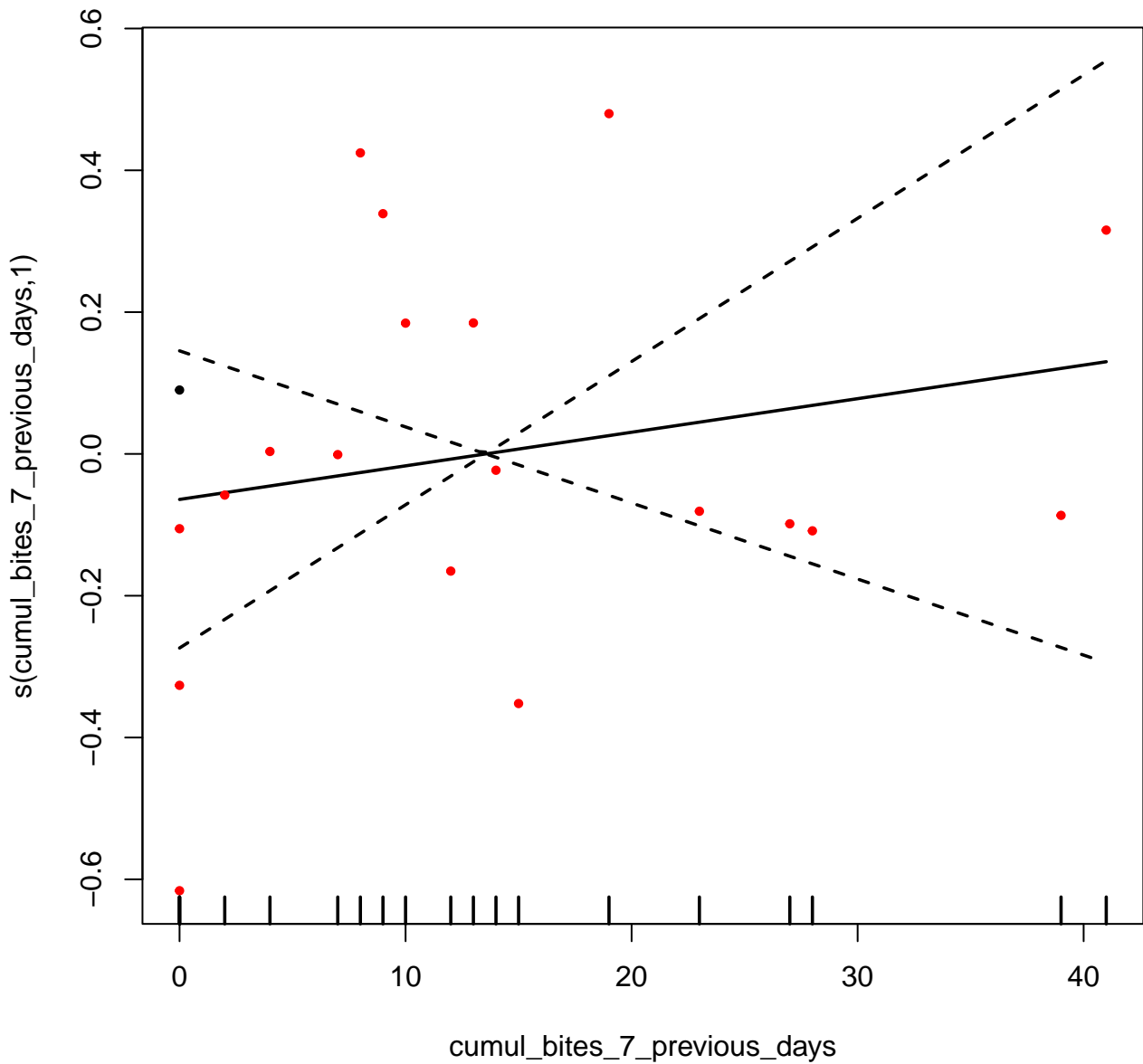
R-sq.(adj) = 0.526 Deviance explained = 59.3%
-ML = -6.7505 Scale est. = 0.033338 n = 36

AICc [1] -5.998823

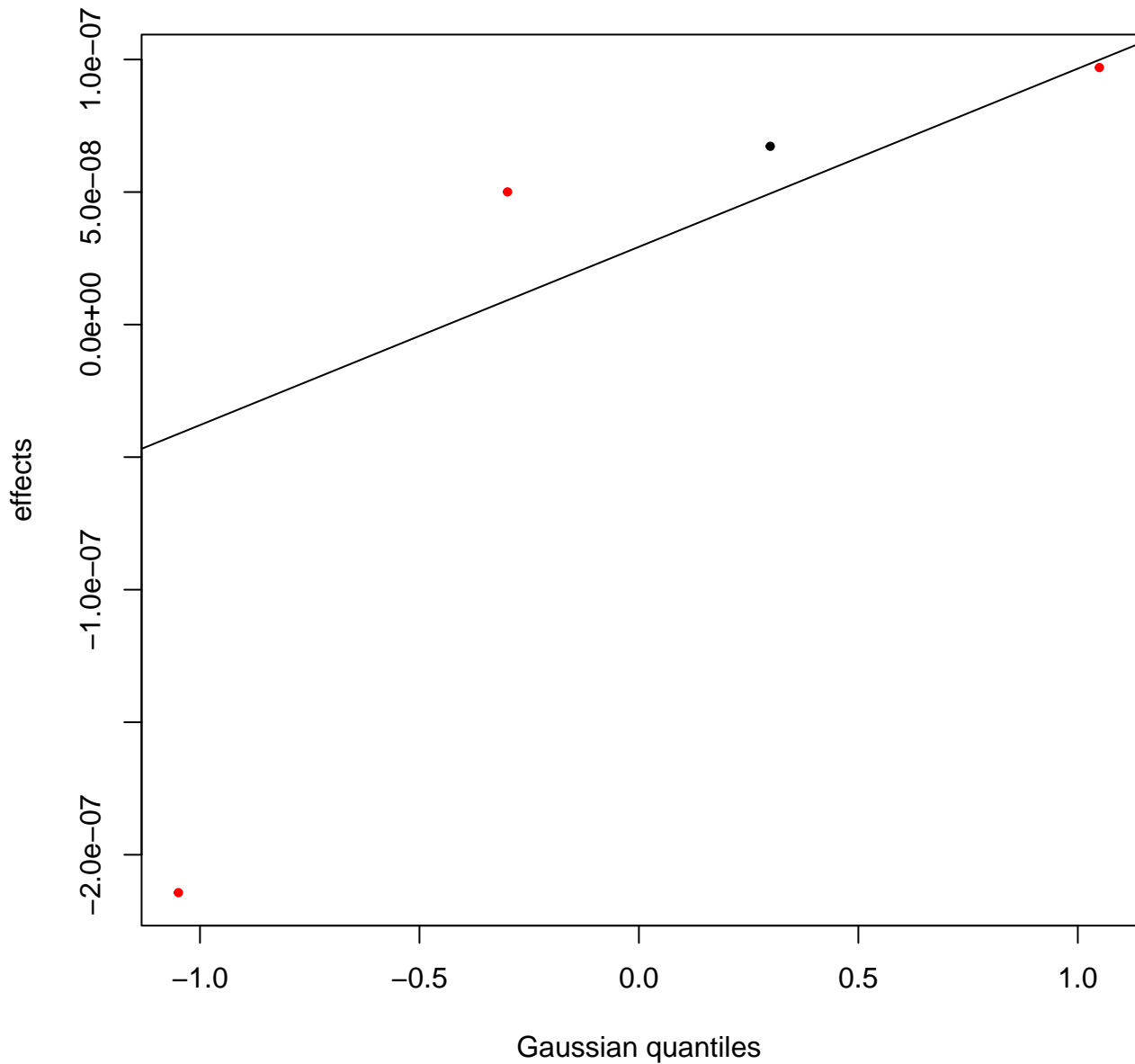
Bites in squirrel

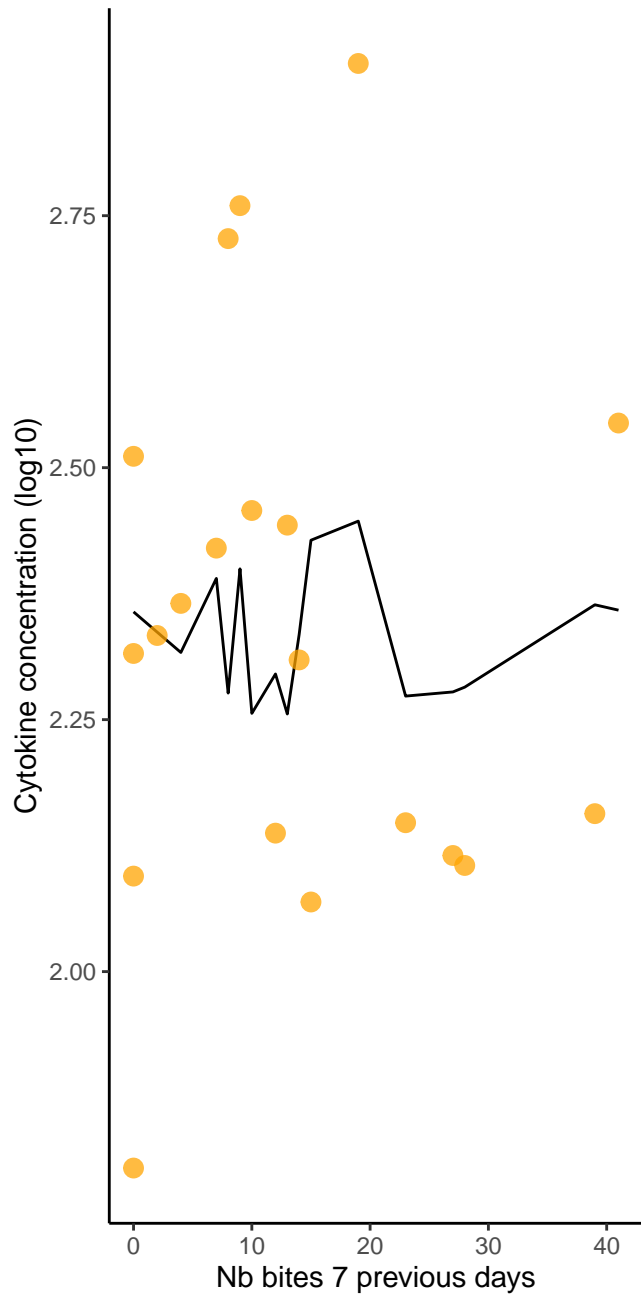
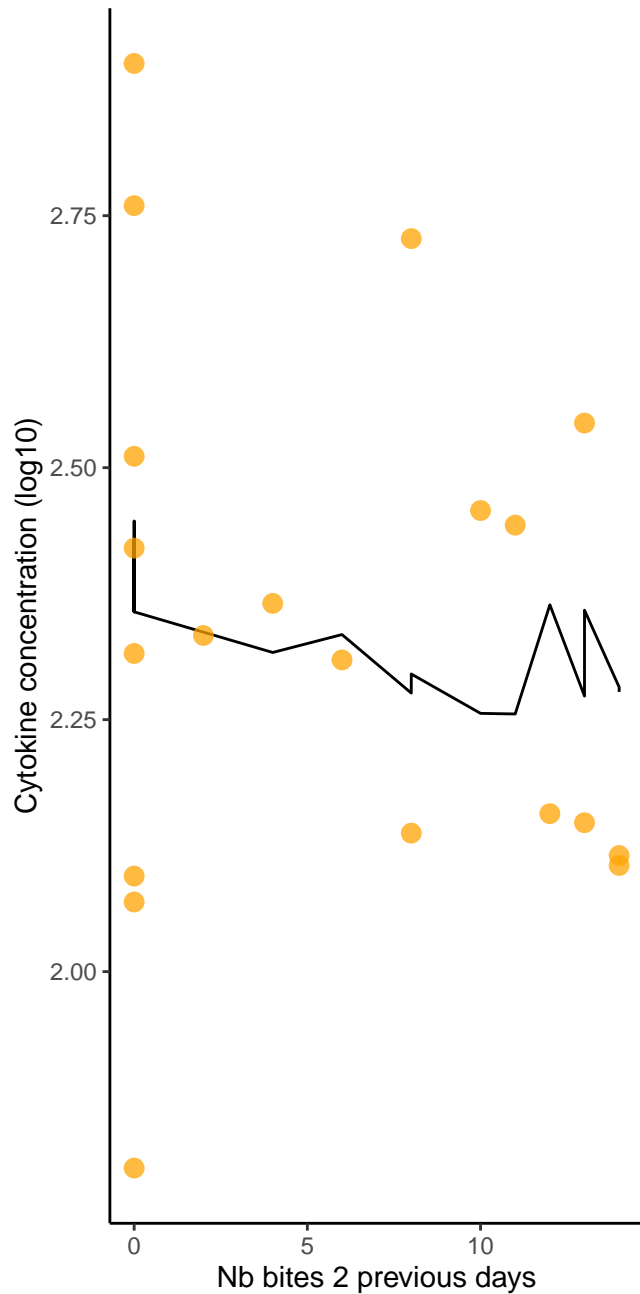
Nb obs : 20

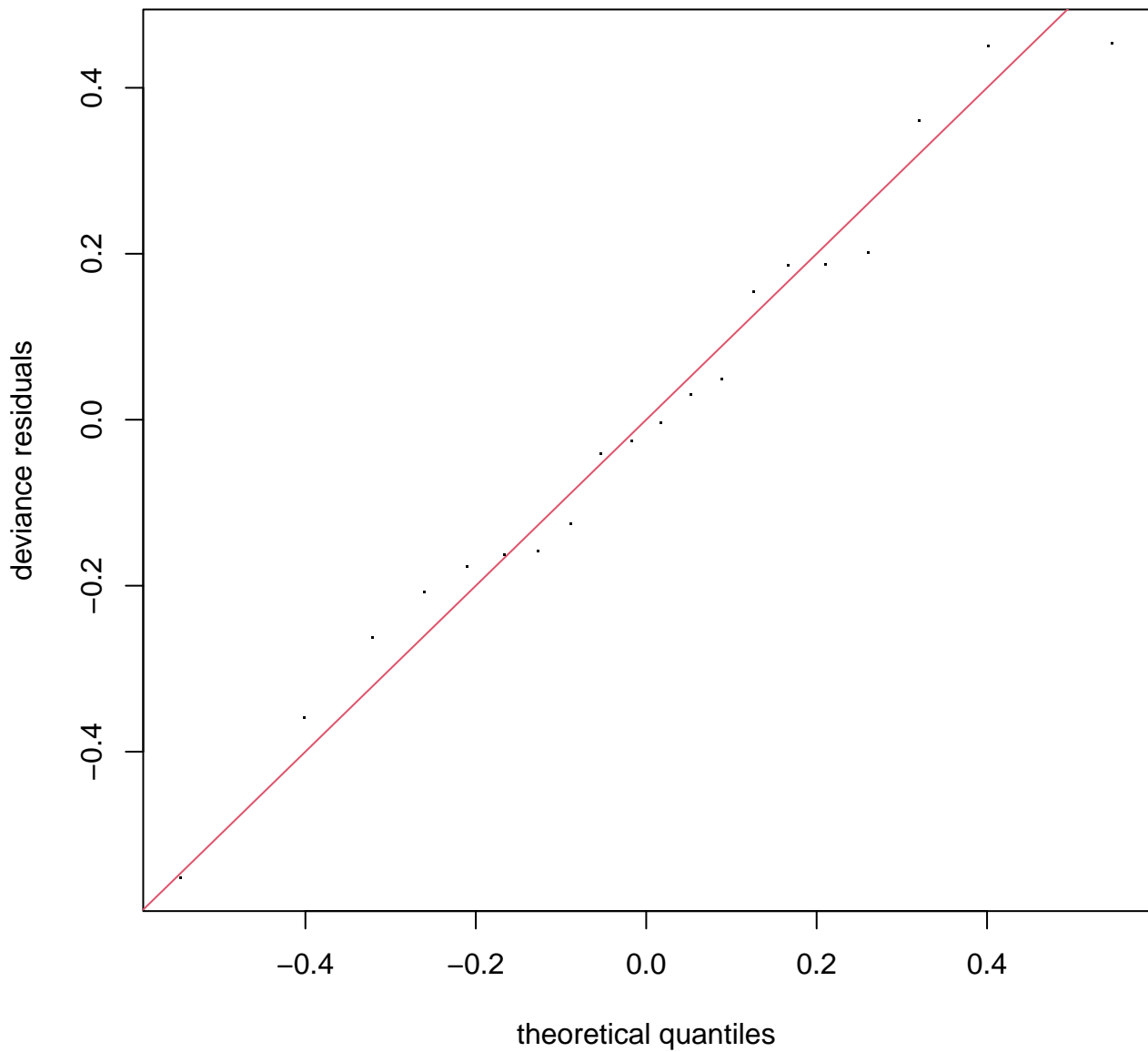




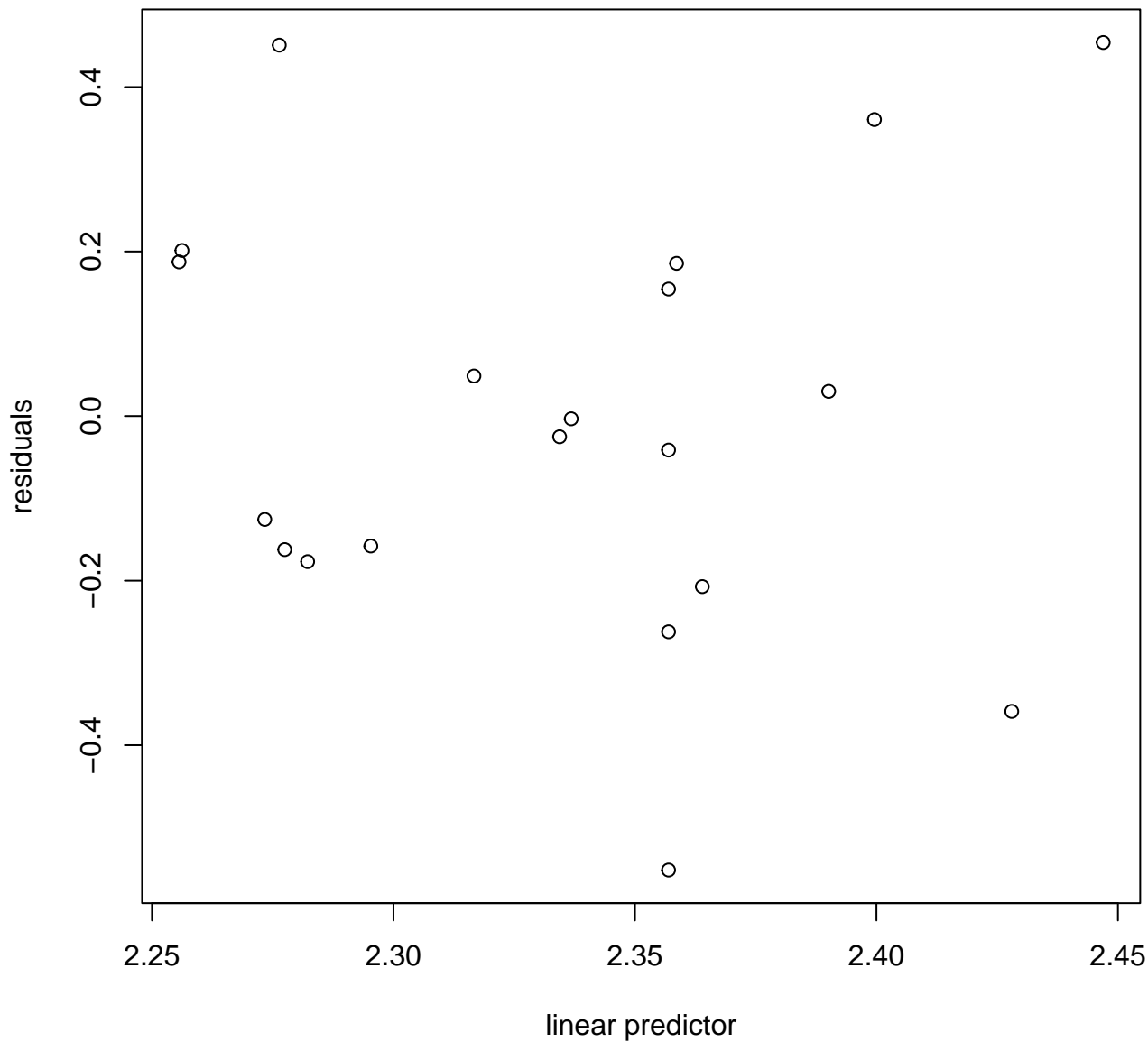
s(ID,0)



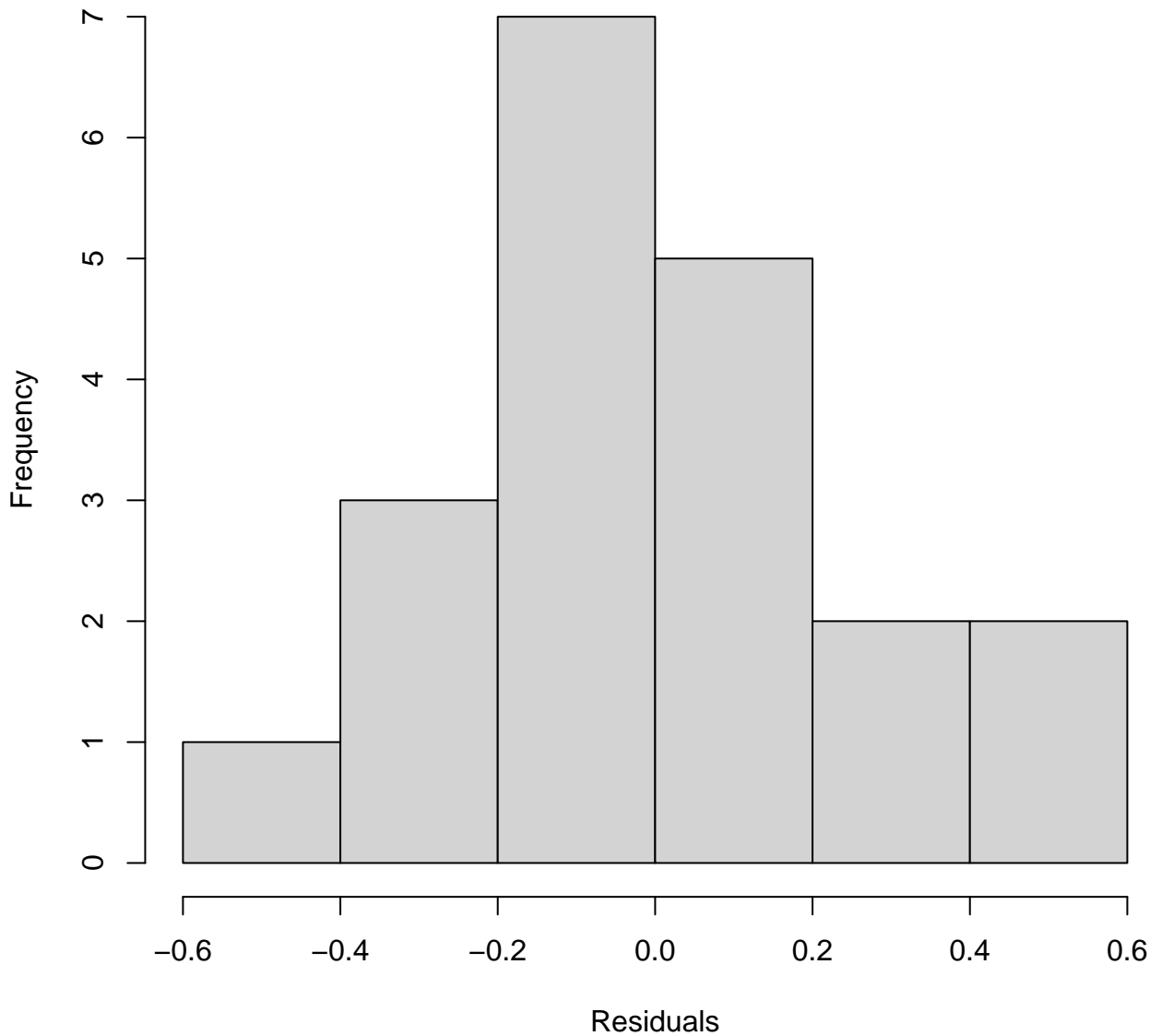




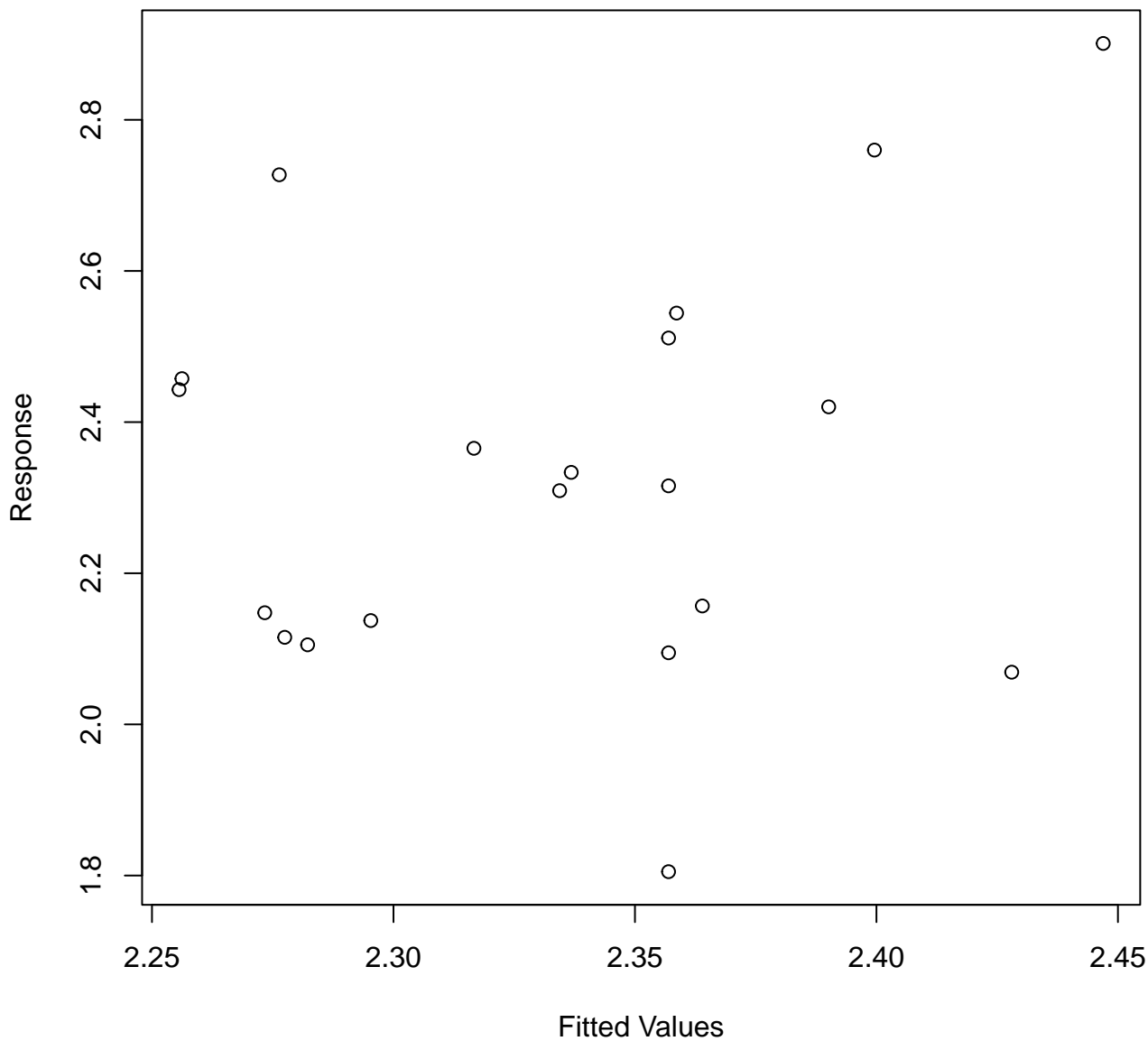
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 15 iterations.
 Gradient range [-1.283981e-06,2.041458e-06]
 (score 1.215388 & scale 0.07778399).
 Hessian positive definite, eigenvalue range [3.105068e-07,9.999998].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.00e+00	1.00e+00	1.29	0.83
s(cumul_bites_7_previous_days)	3.00e+00	1.00e+00	1.02	0.38
s(ID)	4.00e+00	4.09e-06	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	2.33597	0.06236	37.46	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.000e+00	1	0.760	0.395
s(cumul_bites_7_previous_days)	1.000e+00	1	0.375	0.548
s(ID)	4.086e-06	3	0.000	0.578

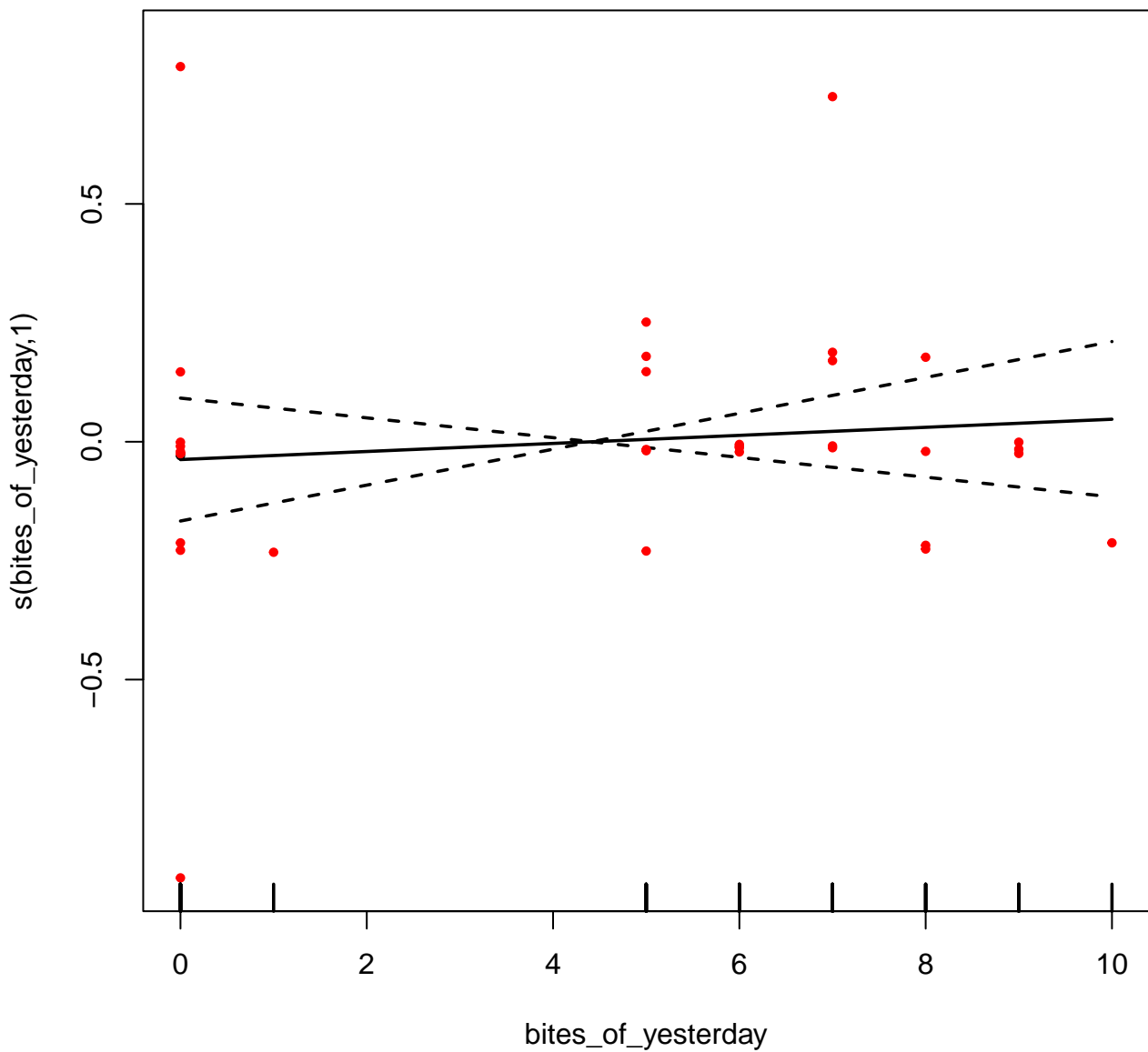
R-sq.(adj) = -0.0696 Deviance explained = 4.3%
-ML = 1.2154 Scale est. = 0.077784 n = 20

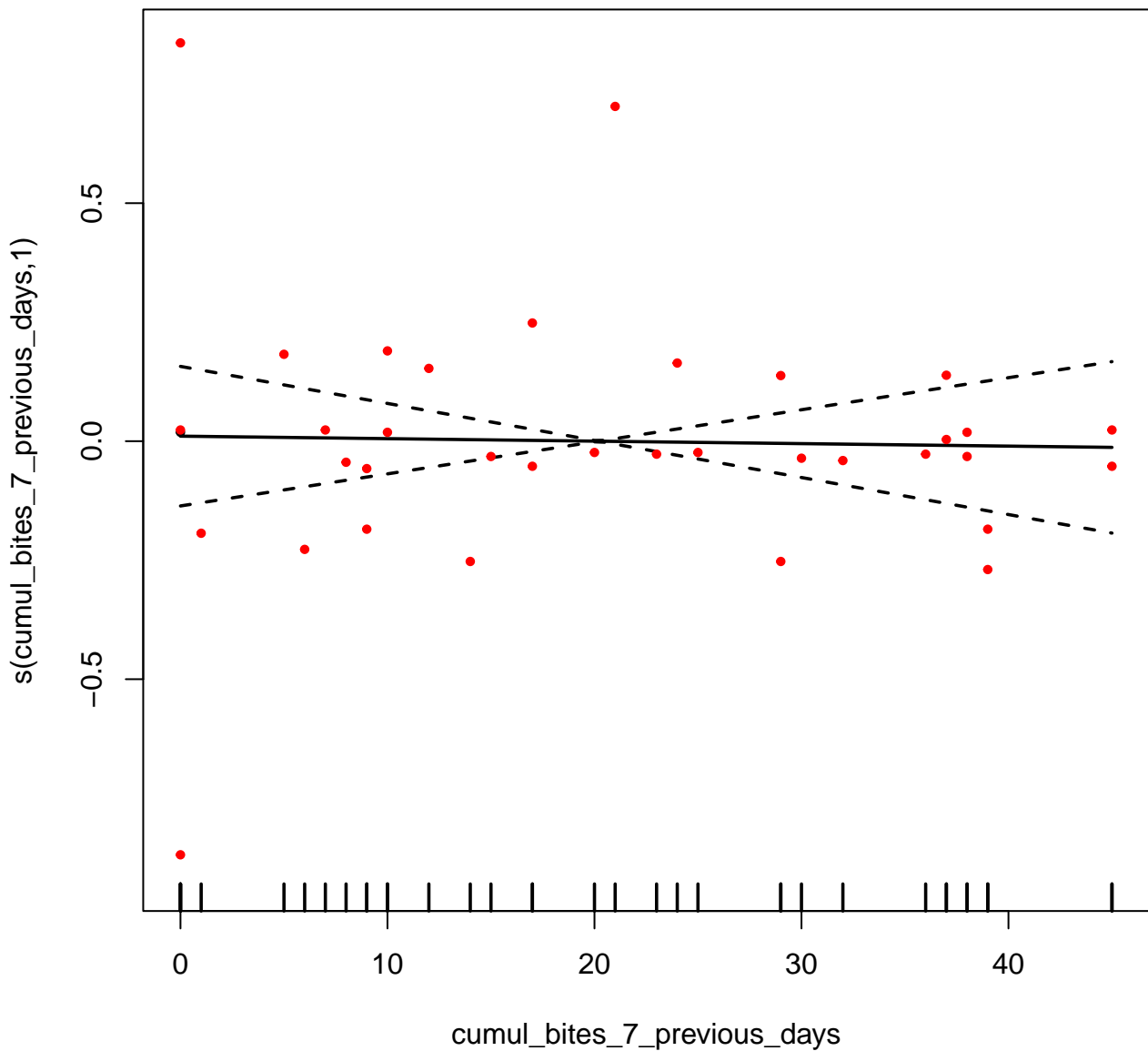
```
AICc [1] 13.09746
```

MIG

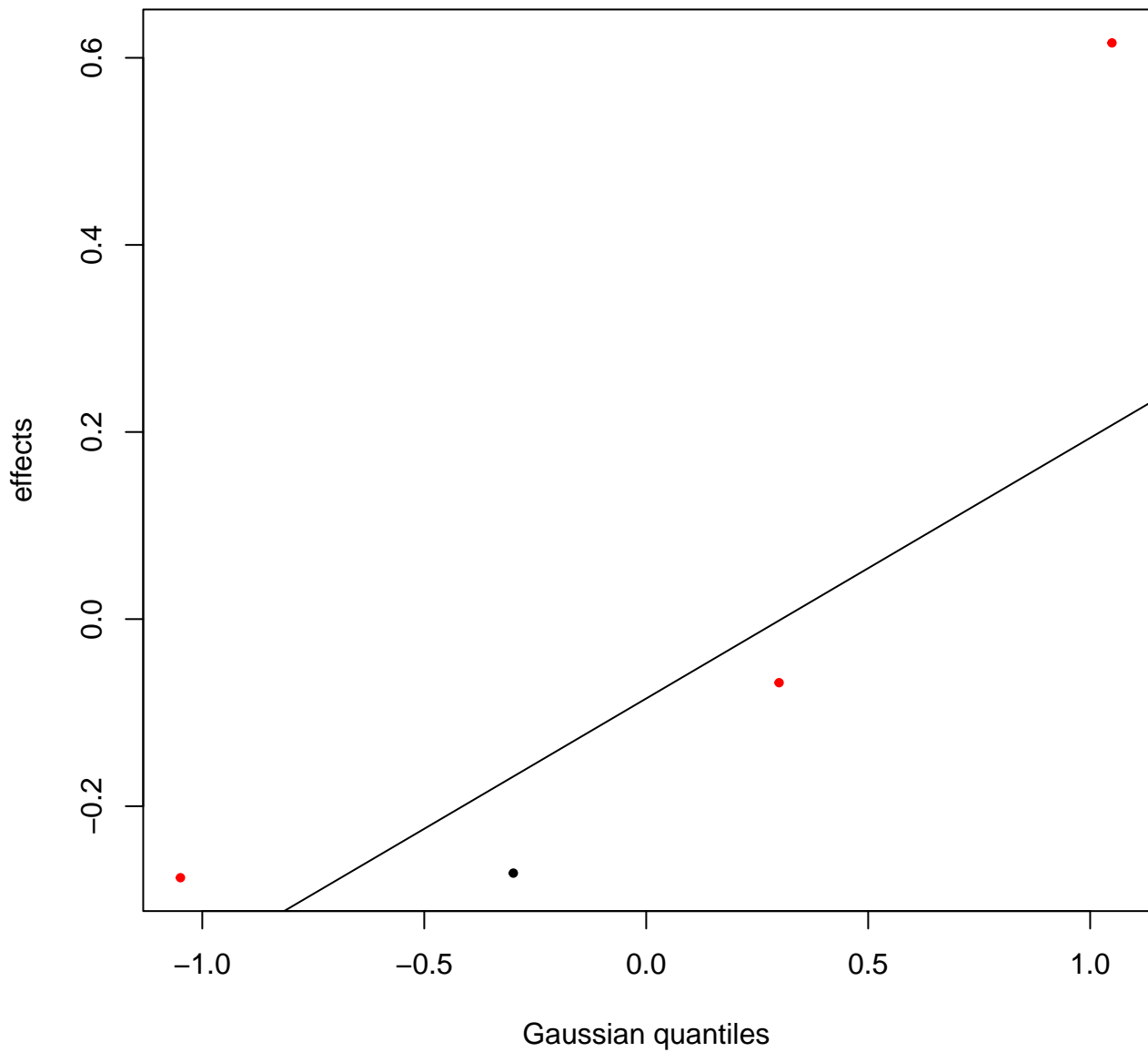
Bites in cyno

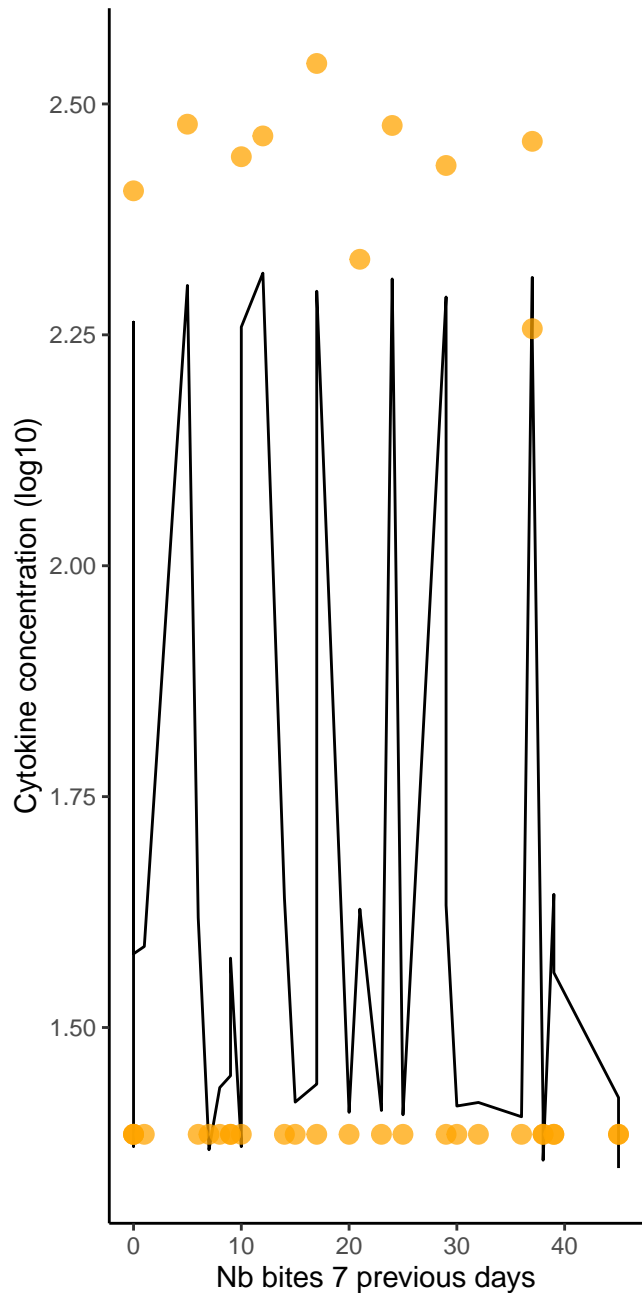
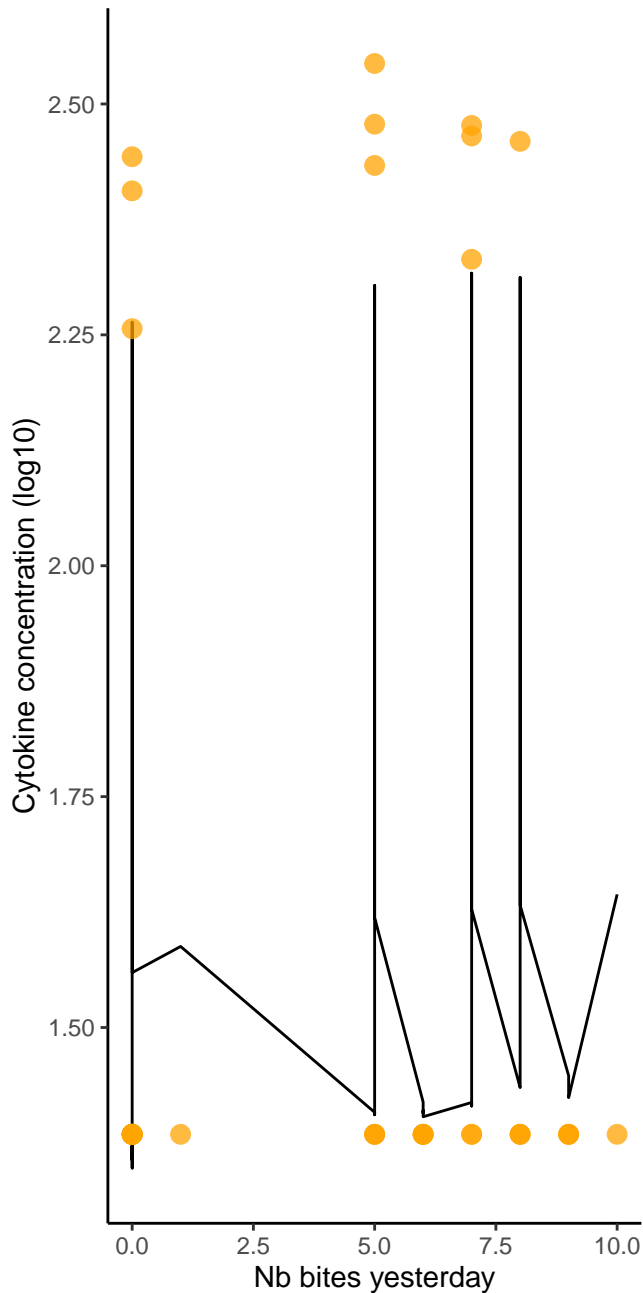
Nb obs : 36

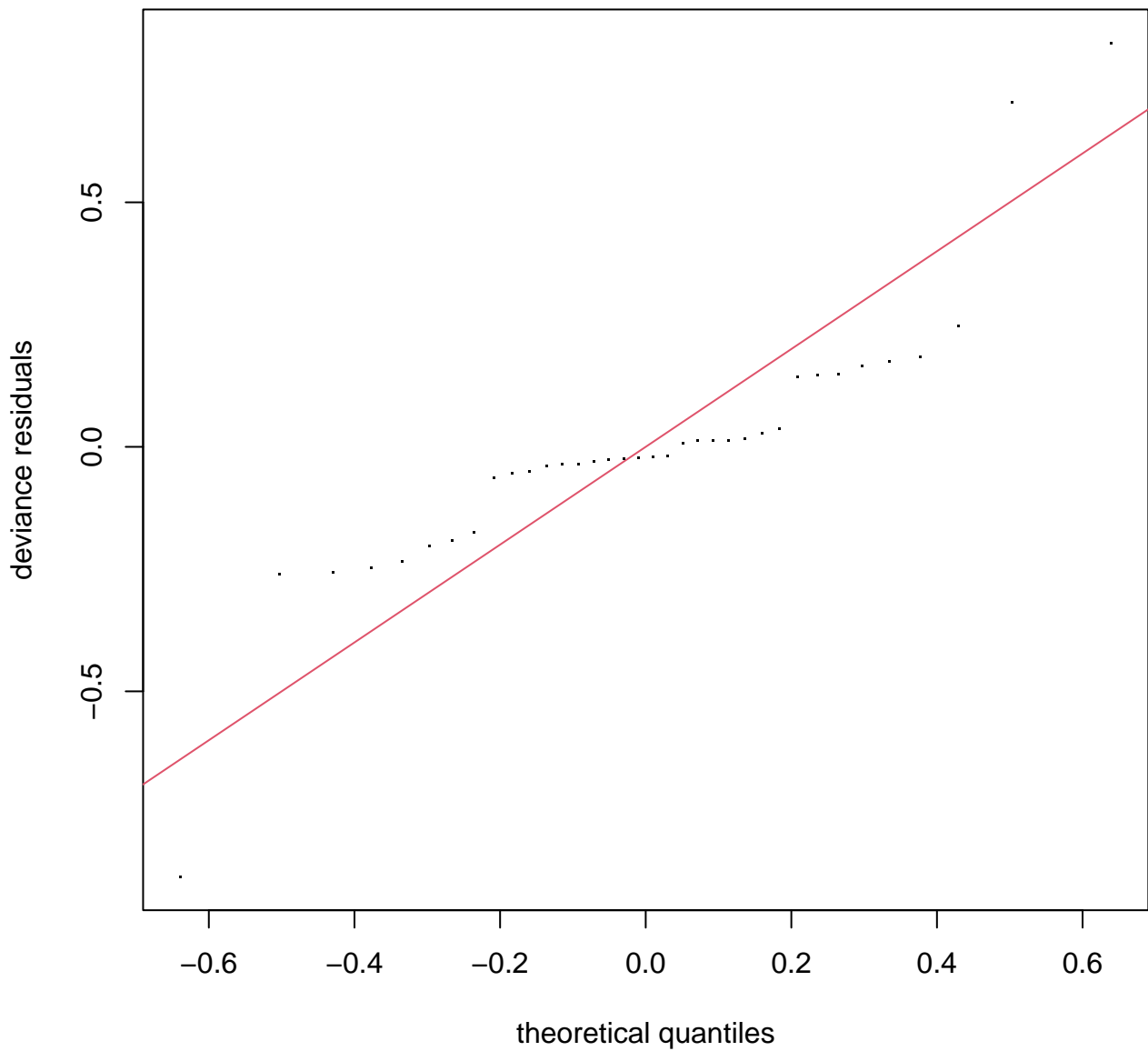




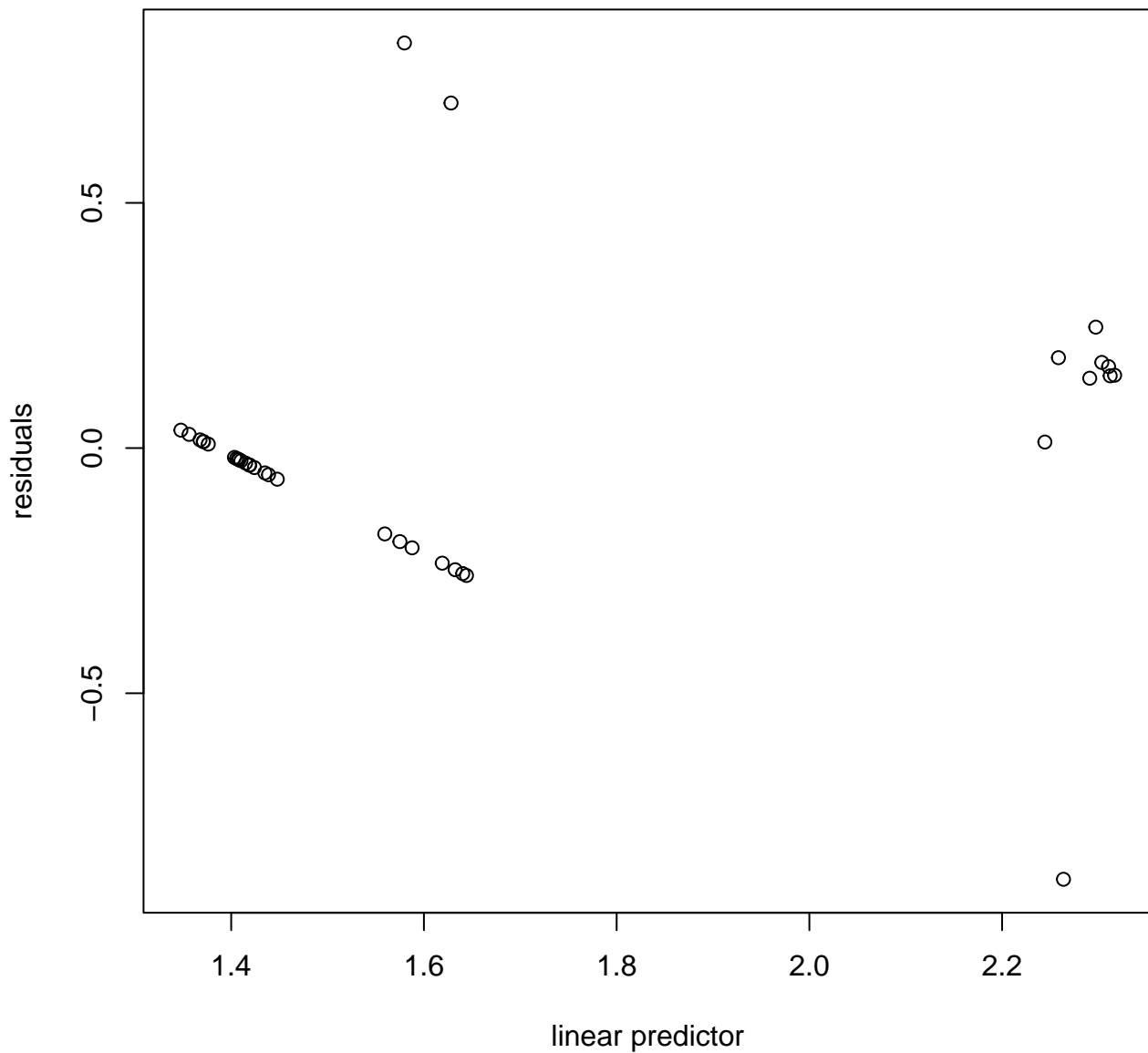
s(ID,2.82)



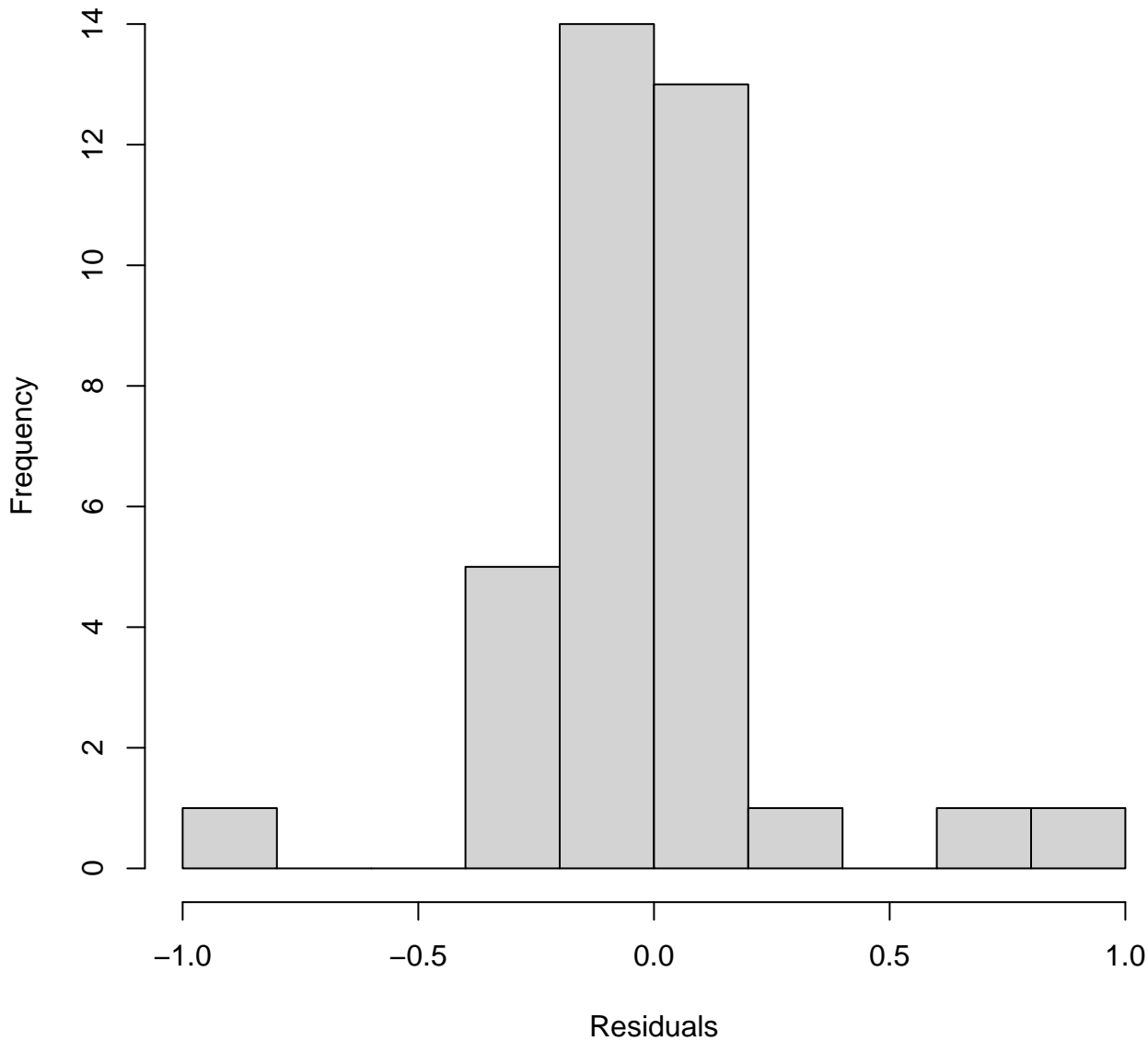




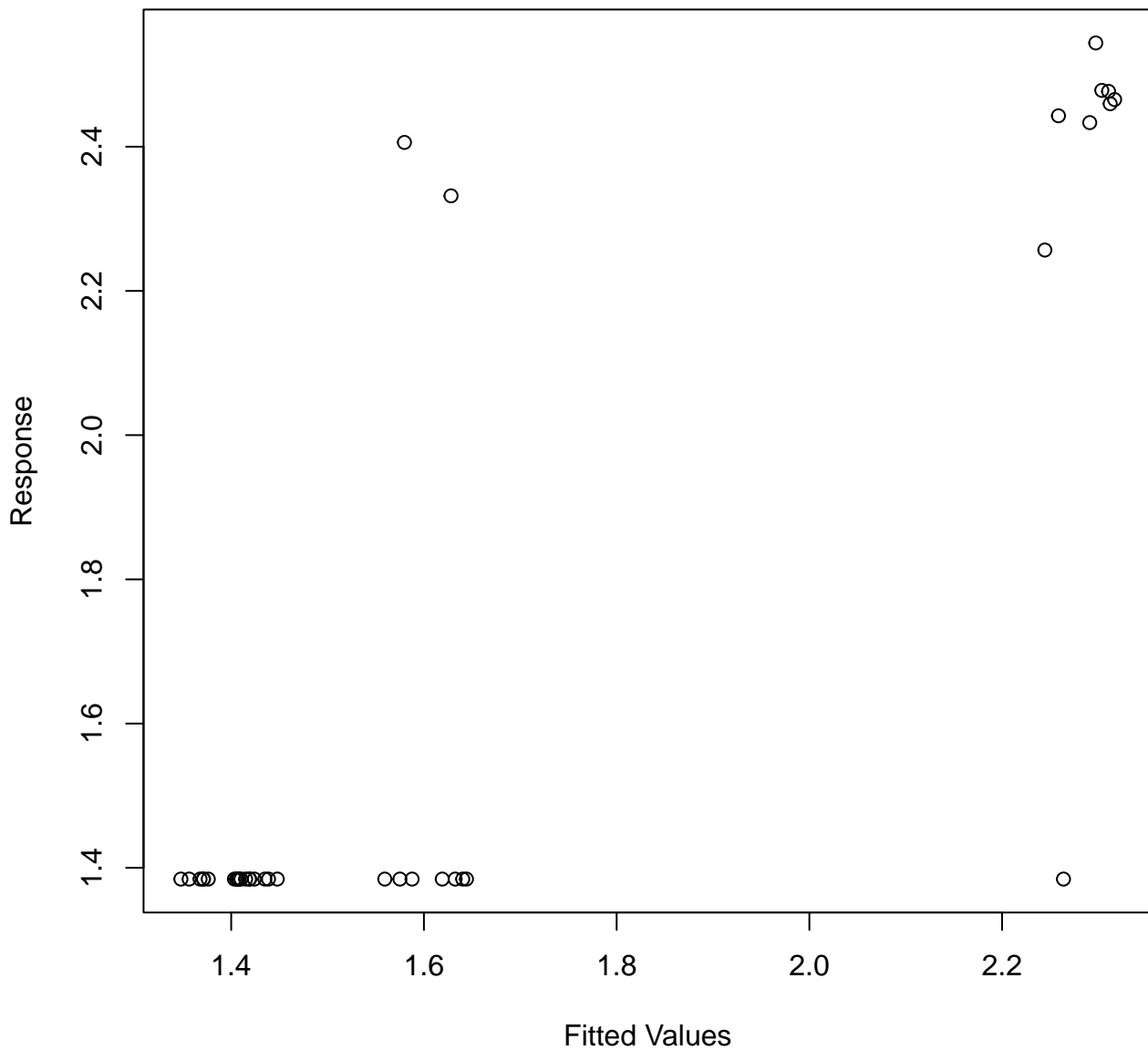
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 14 iterations.
 Gradient range [-2.216911e-06,1.165602e-06]
 (score 11.07436 & scale 0.0843709).
 Hessian positive definite, eigenvalue range [1.868586e-06,18.21573].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.04	0.54
s(cumul_bites_7_previous_days)	3.00	1.00	1.44	0.99
s(ID)	4.00	2.82	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.6747	0.2005	8.351	2.43e-09 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.336	0.567
s(cumul_bites_7_previous_days)	1.000	1	0.021	0.886
s(ID)	2.824	3	20.030	<2e-16 ***

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

R-sq.(adj) = 0.628 Deviance explained = 68%
-ML = 11.074 Scale est. = 0.084371 n = 36

AICc [1] 24.6907

Bites in squirrel

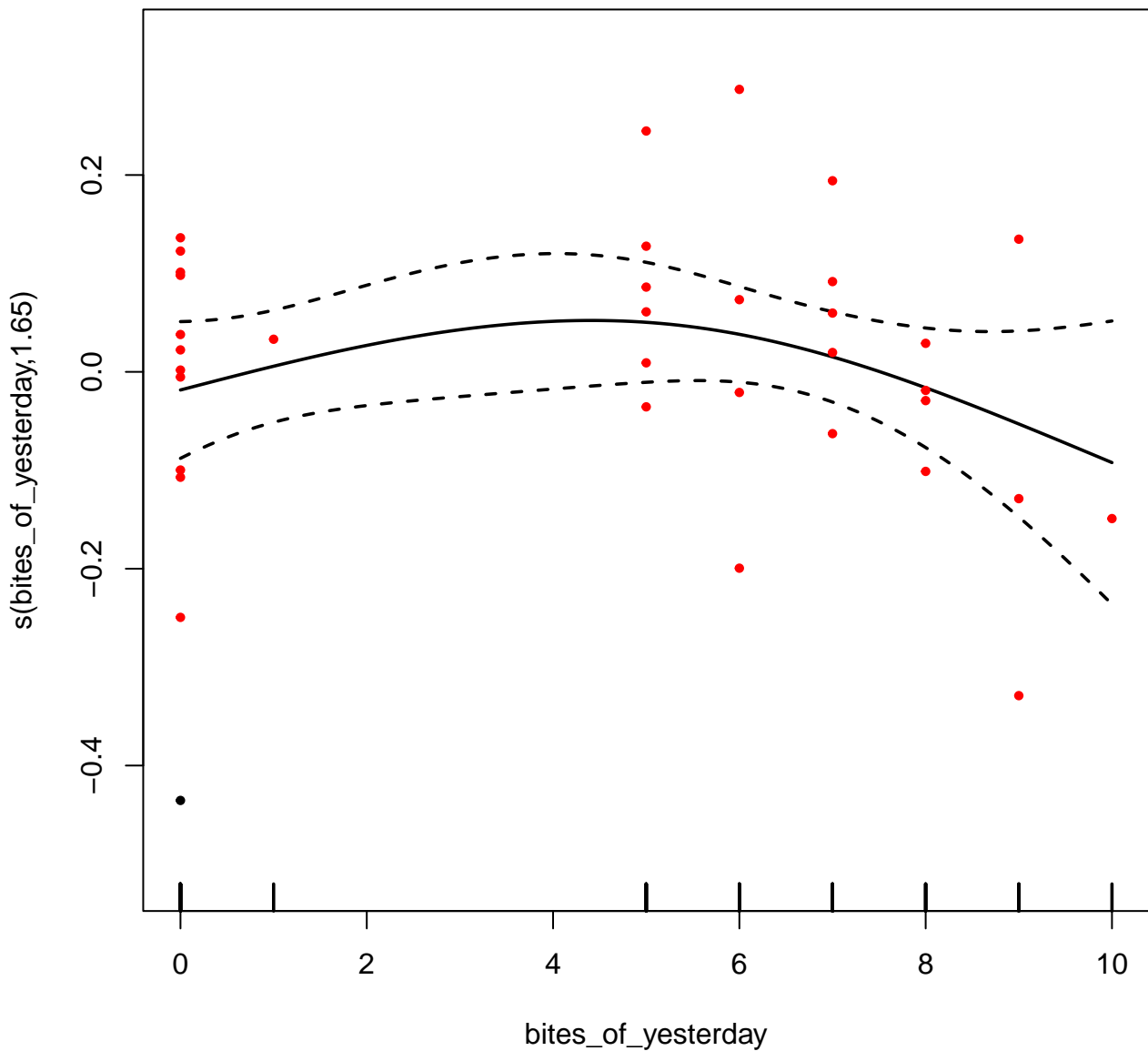
Nb obs : 20

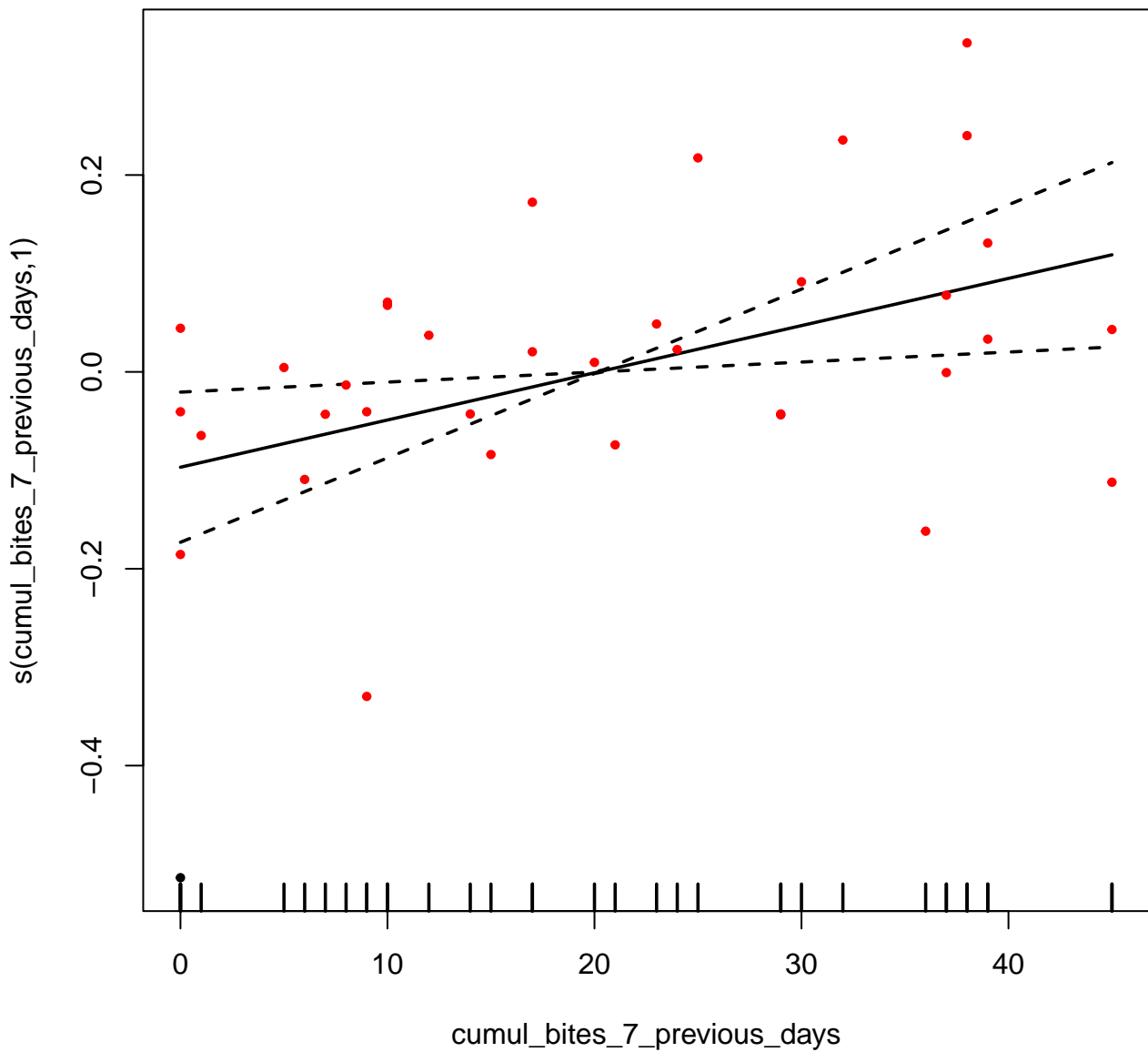
MIG ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

MIP.1a

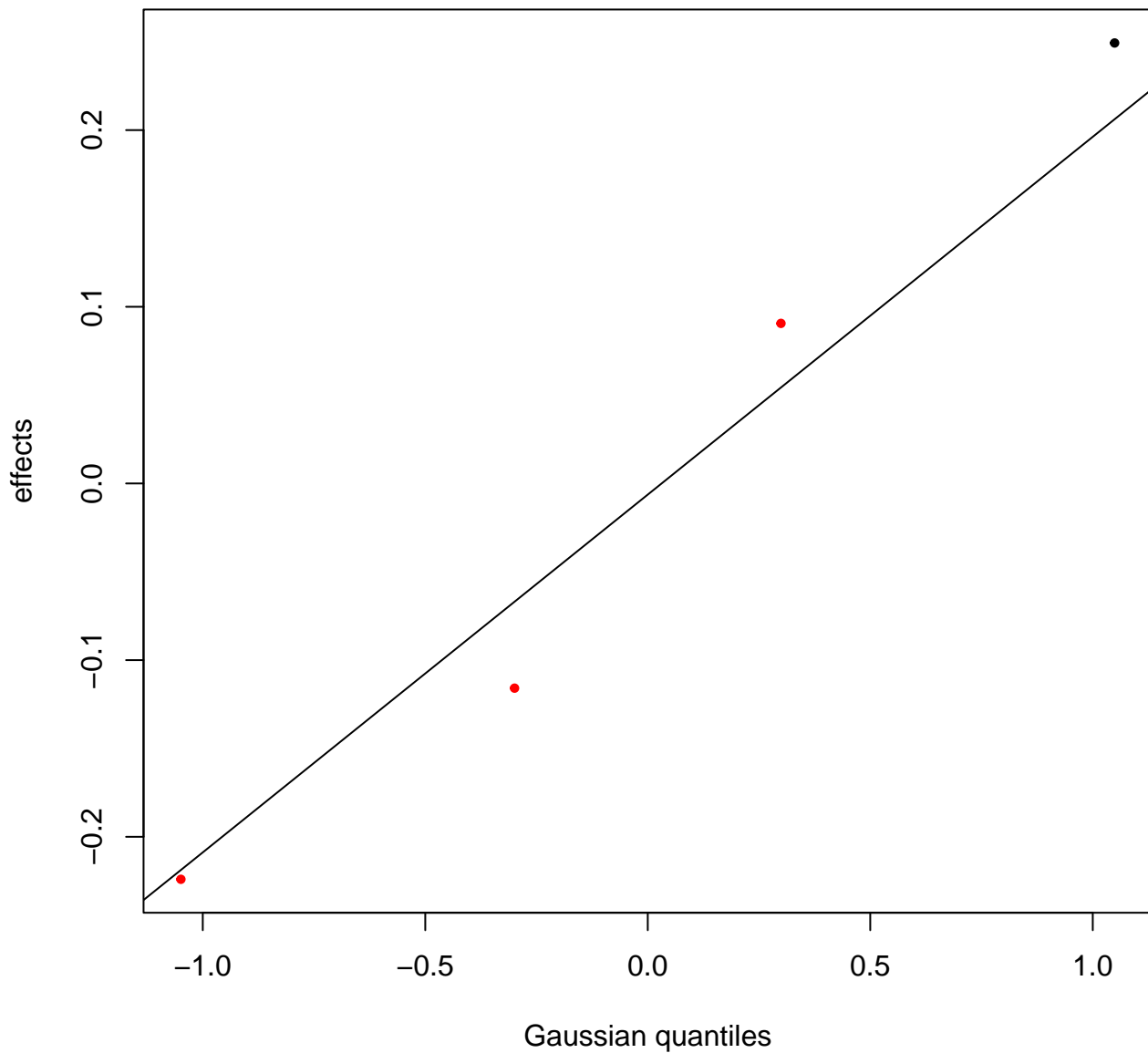
Bites in cyno

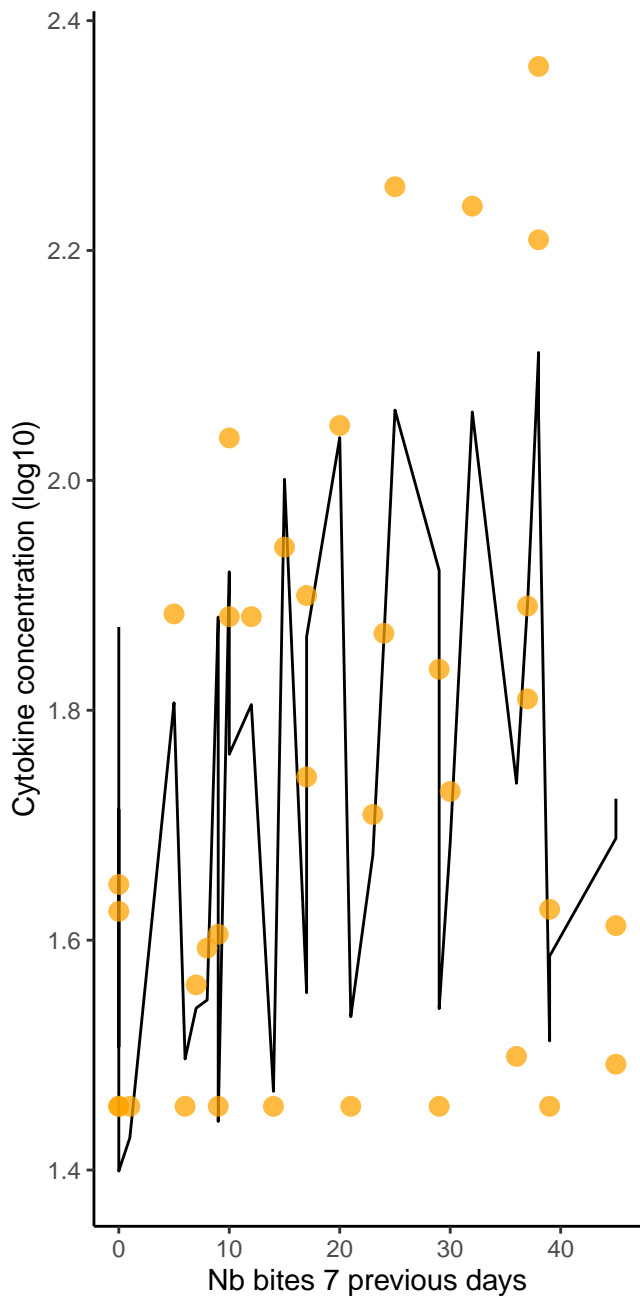
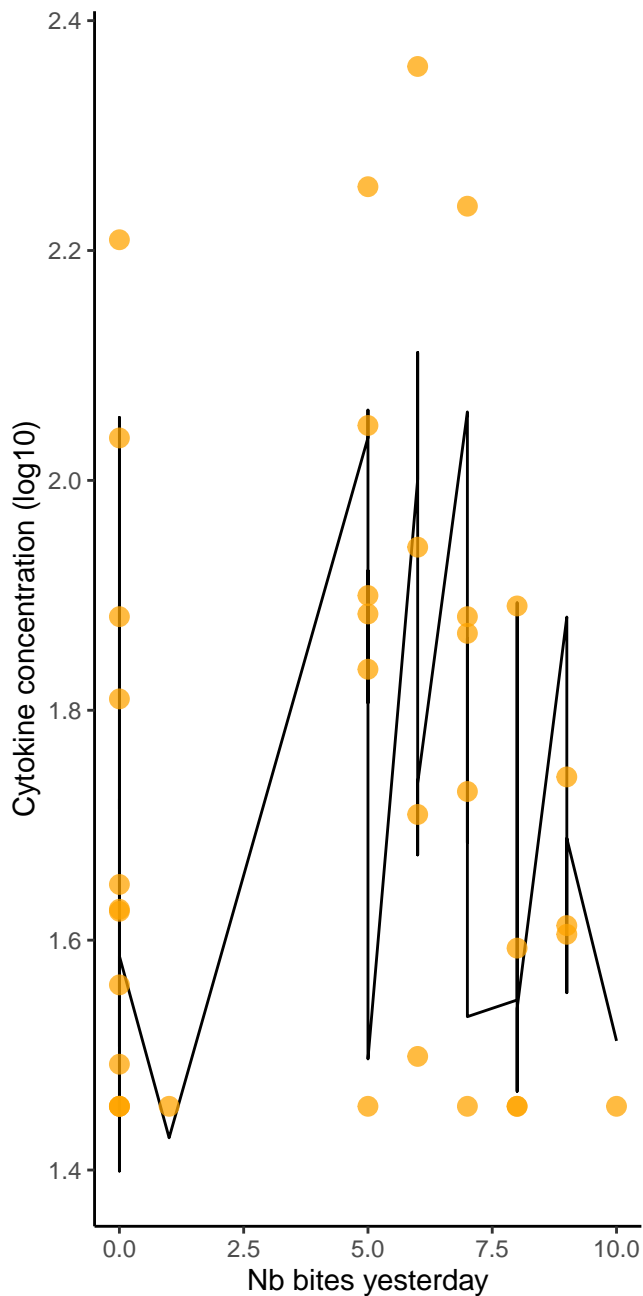
Nb obs : 36

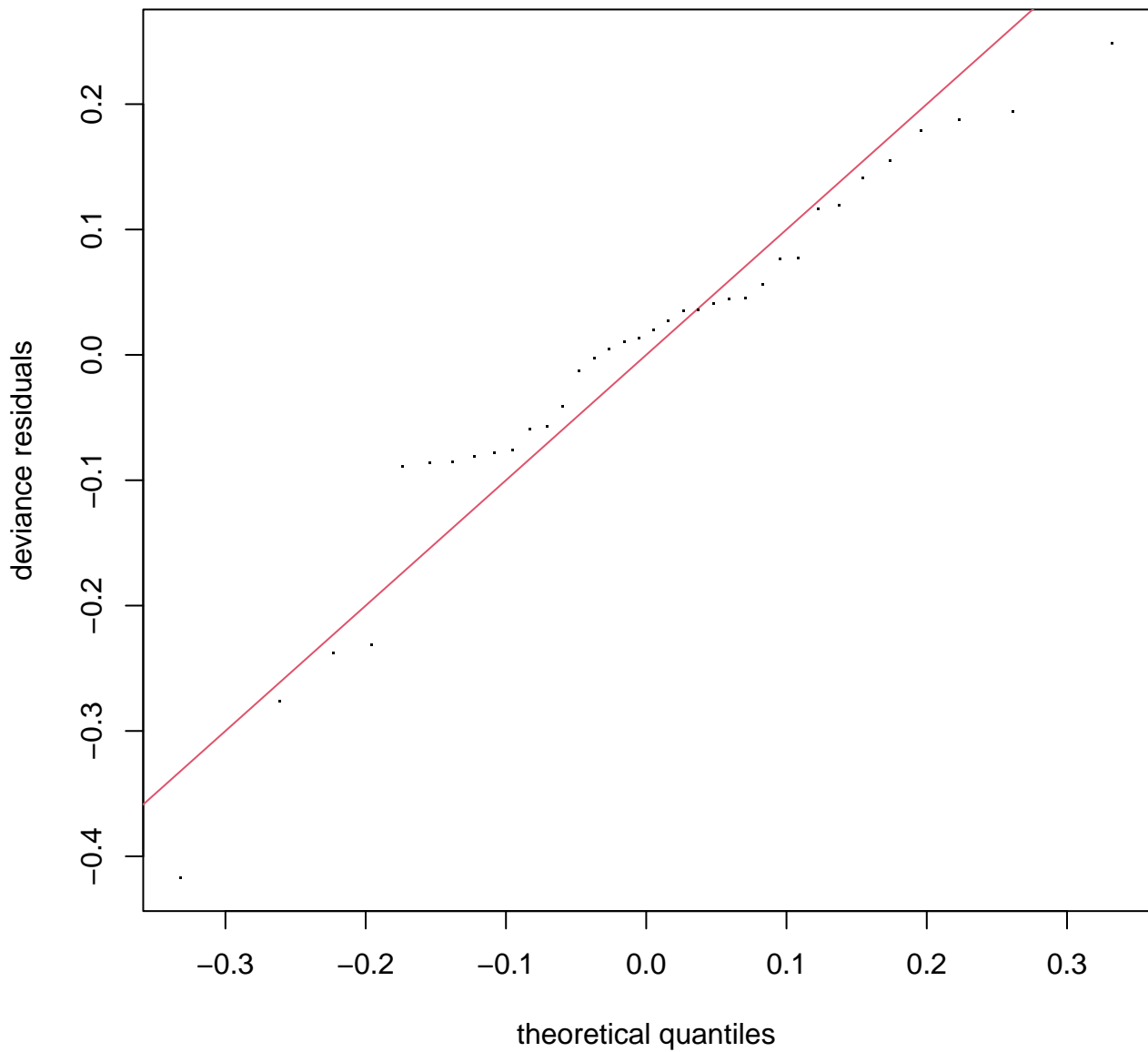




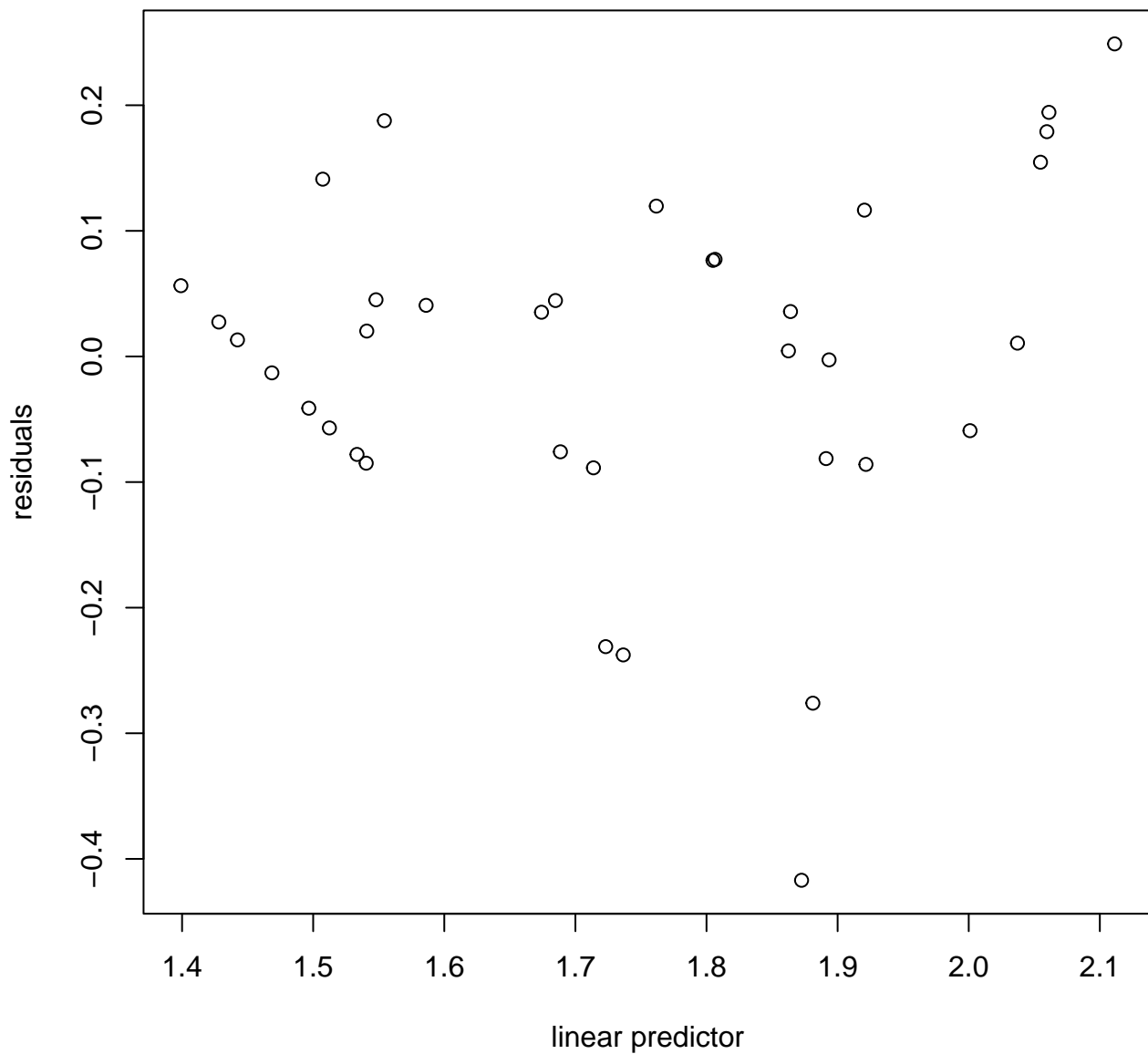
s(ID,2.8)



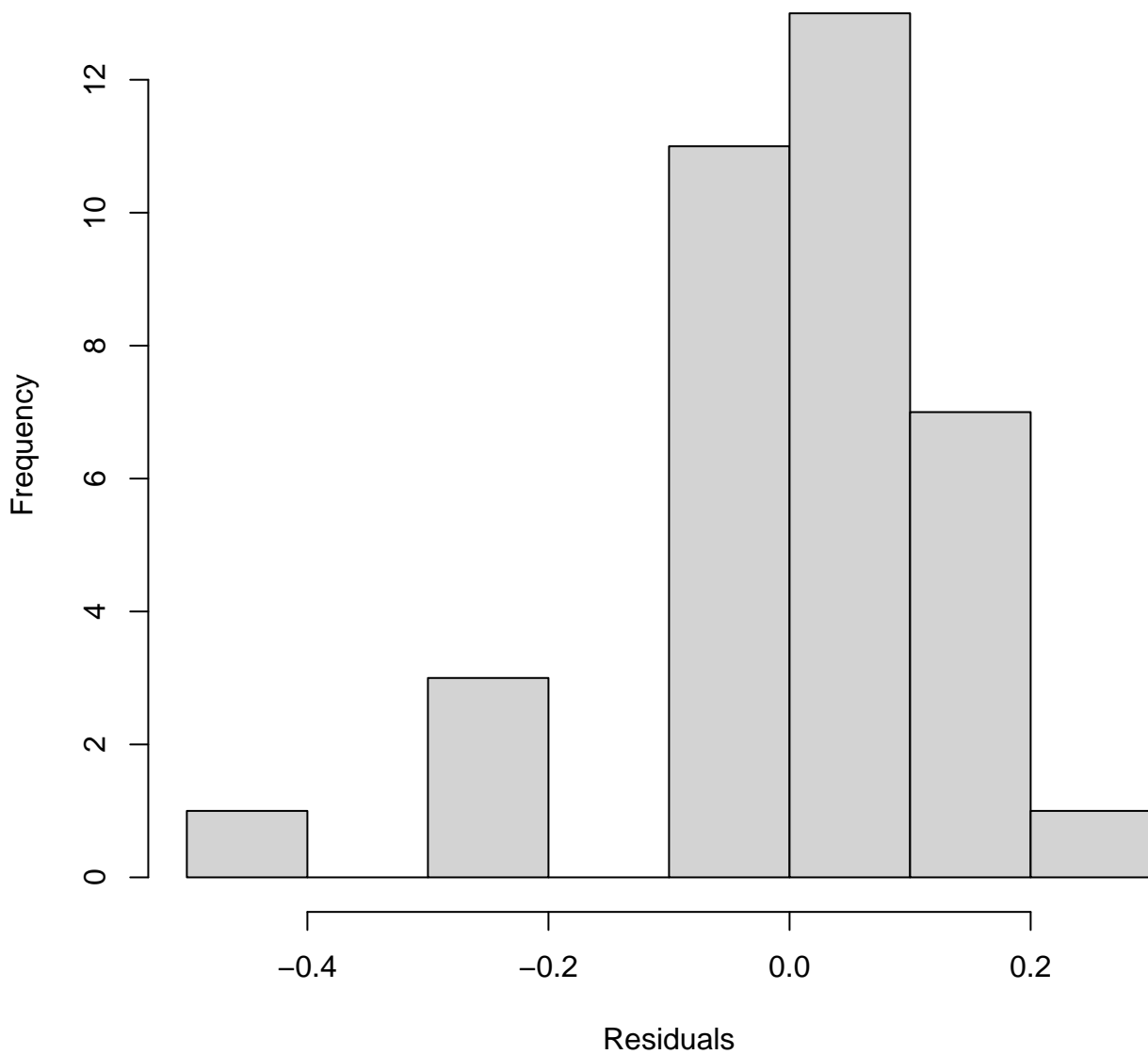




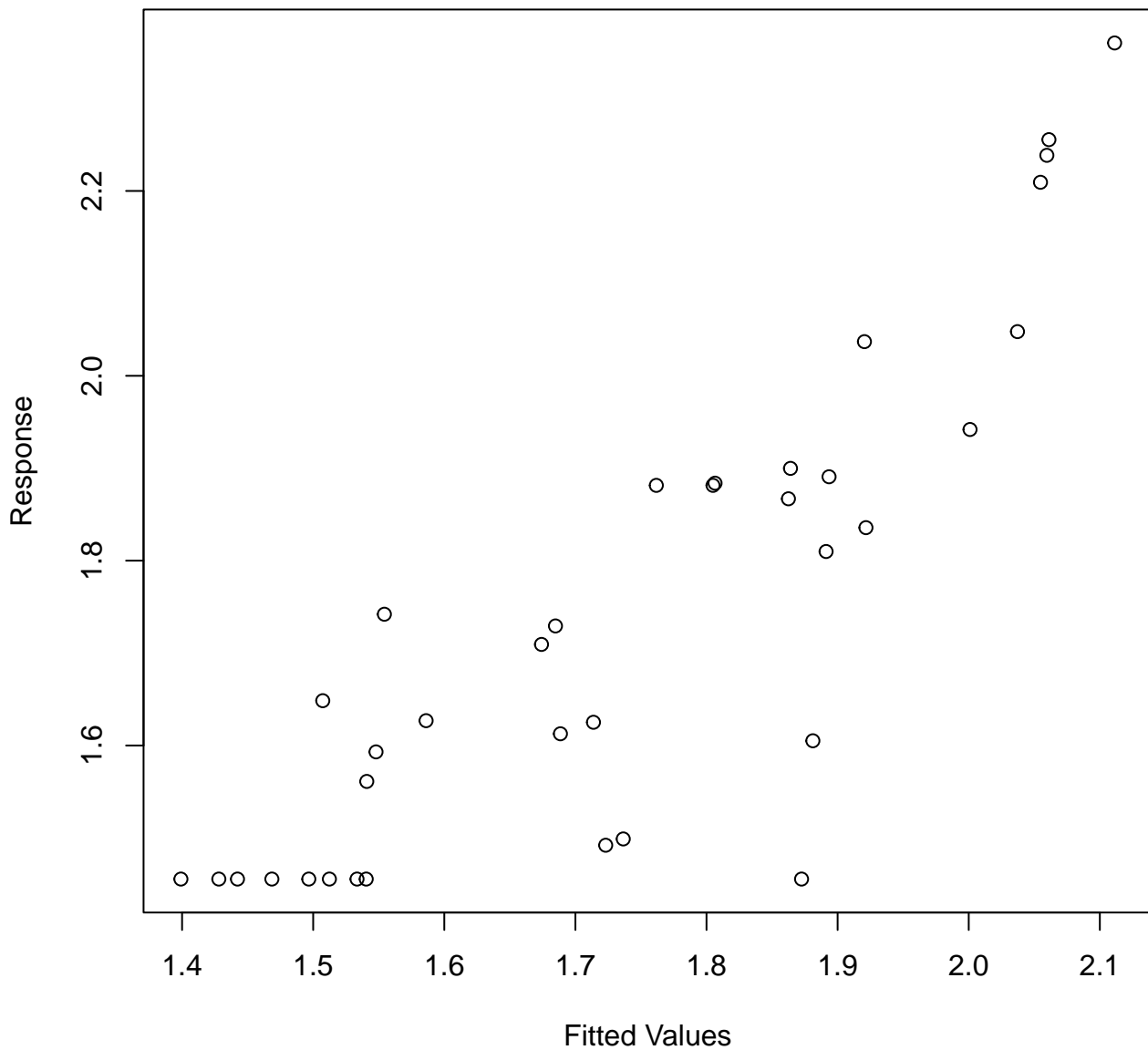
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 13 iterations.
 Gradient range [-6.020544e-06,8.576643e-06]
 (score -10.89495 & scale 0.02277159).
 Hessian positive definite, eigenvalue range [6.020313e-06,18.24009].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.65	1.01	0.44
s(cumul_bites_7_previous_days)	3.00	1.00	1.01	0.41
s(ID)	4.00	2.80	NA	NA

```
# Check for Multicollinearity
```

```
Low Correlation
```

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_7_previous_days, k = 4)	2.32	[1.62, 3.78]	1.52	0.43	[0.26, 0.62]	

```
Moderate Correlation
```

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	5.80	[3.64, 9.72]	2.41	0.17	[0.10, 0.27]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.73842	0.09991	17.4	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.647	1.963	1.506	0.2350
s(cumul_bites_7_previous_days)	1.000	1.000	6.446	0.0165 *
s(ID)	2.804	3.000	17.914	7.71e-07 ***

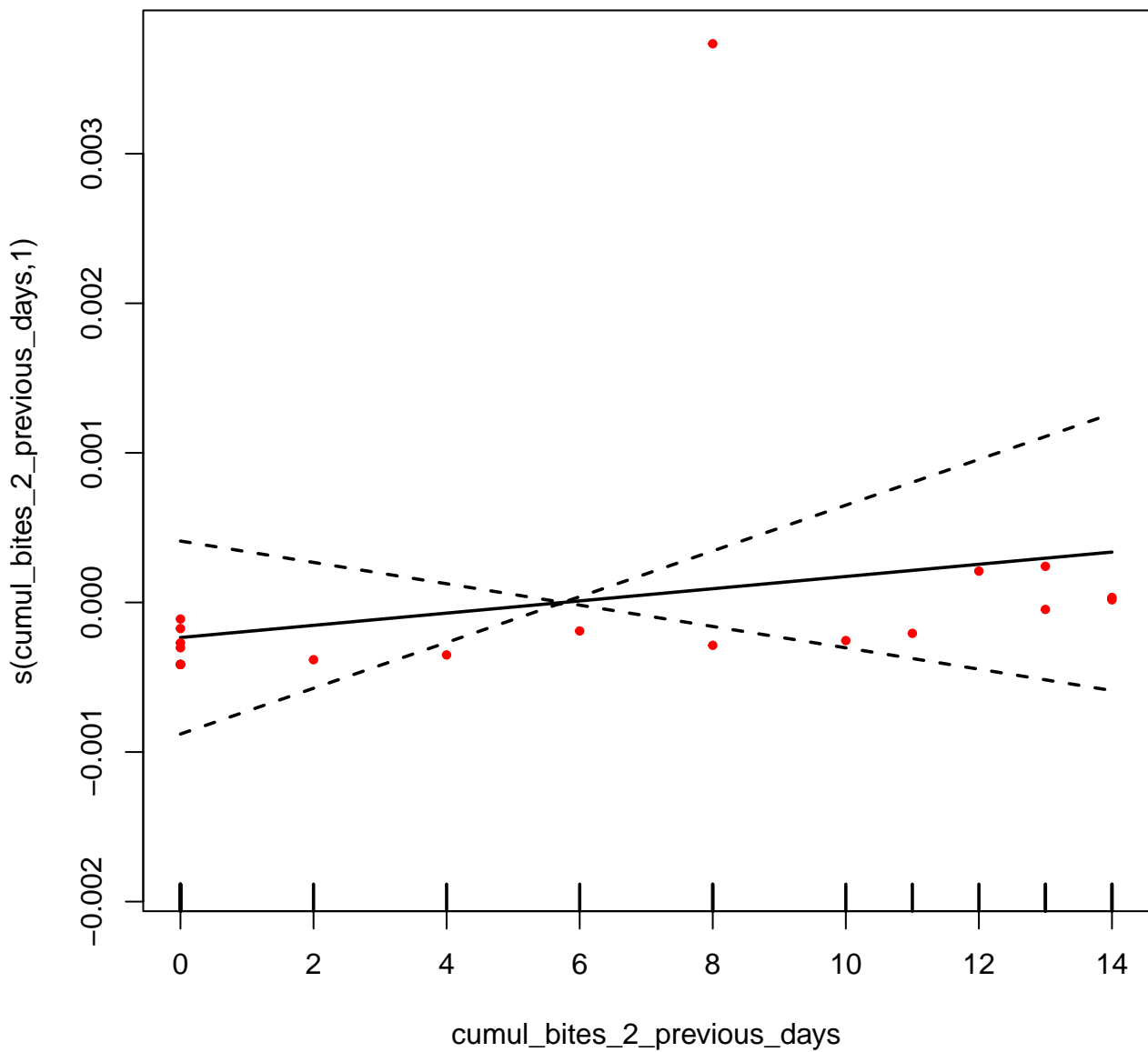
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

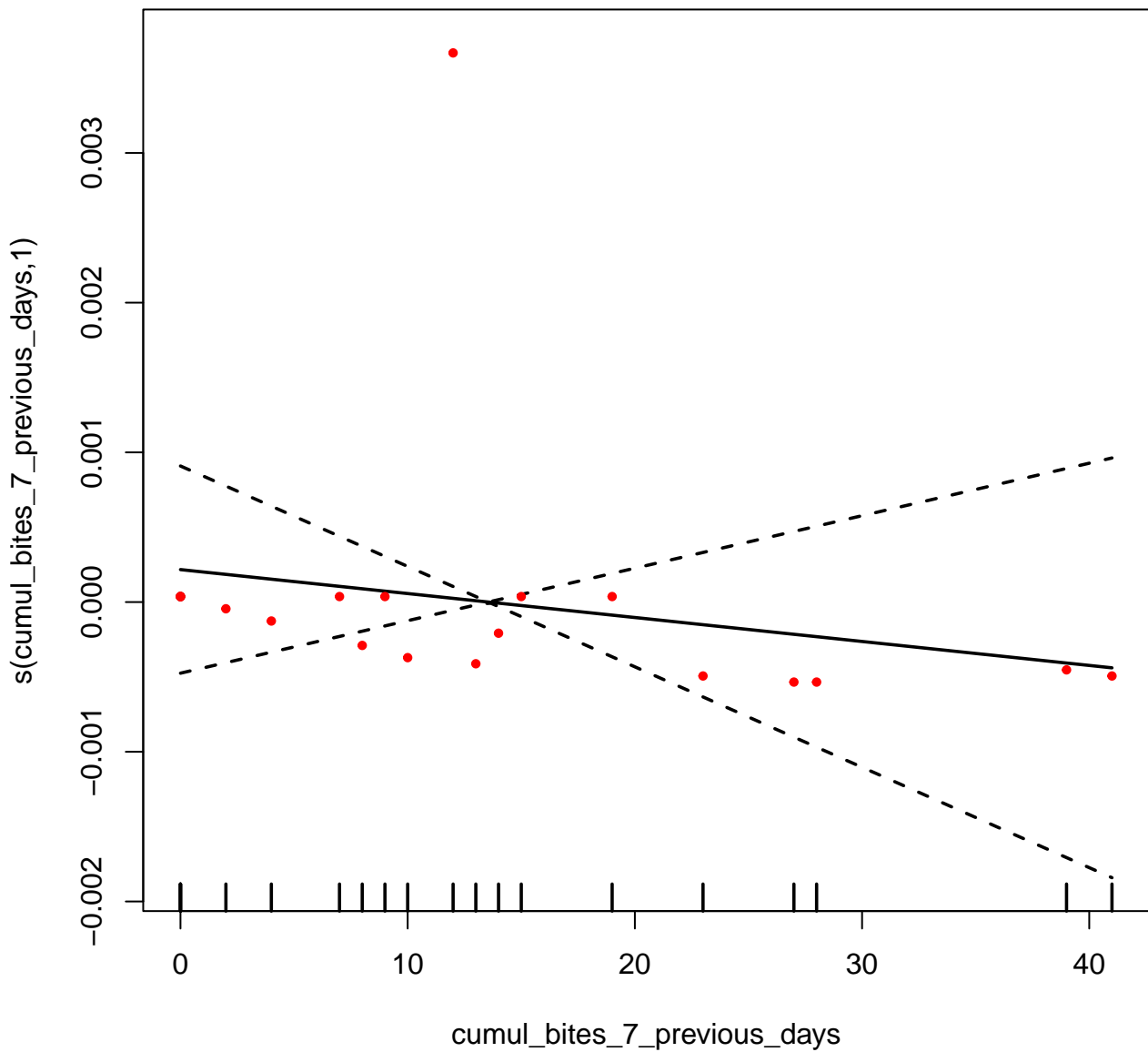
R-sq.(adj) = 0.675 Deviance explained = 72.6%
-ML = -10.895 Scale est. = 0.022772 n = 36

AICc [1] -19.95167

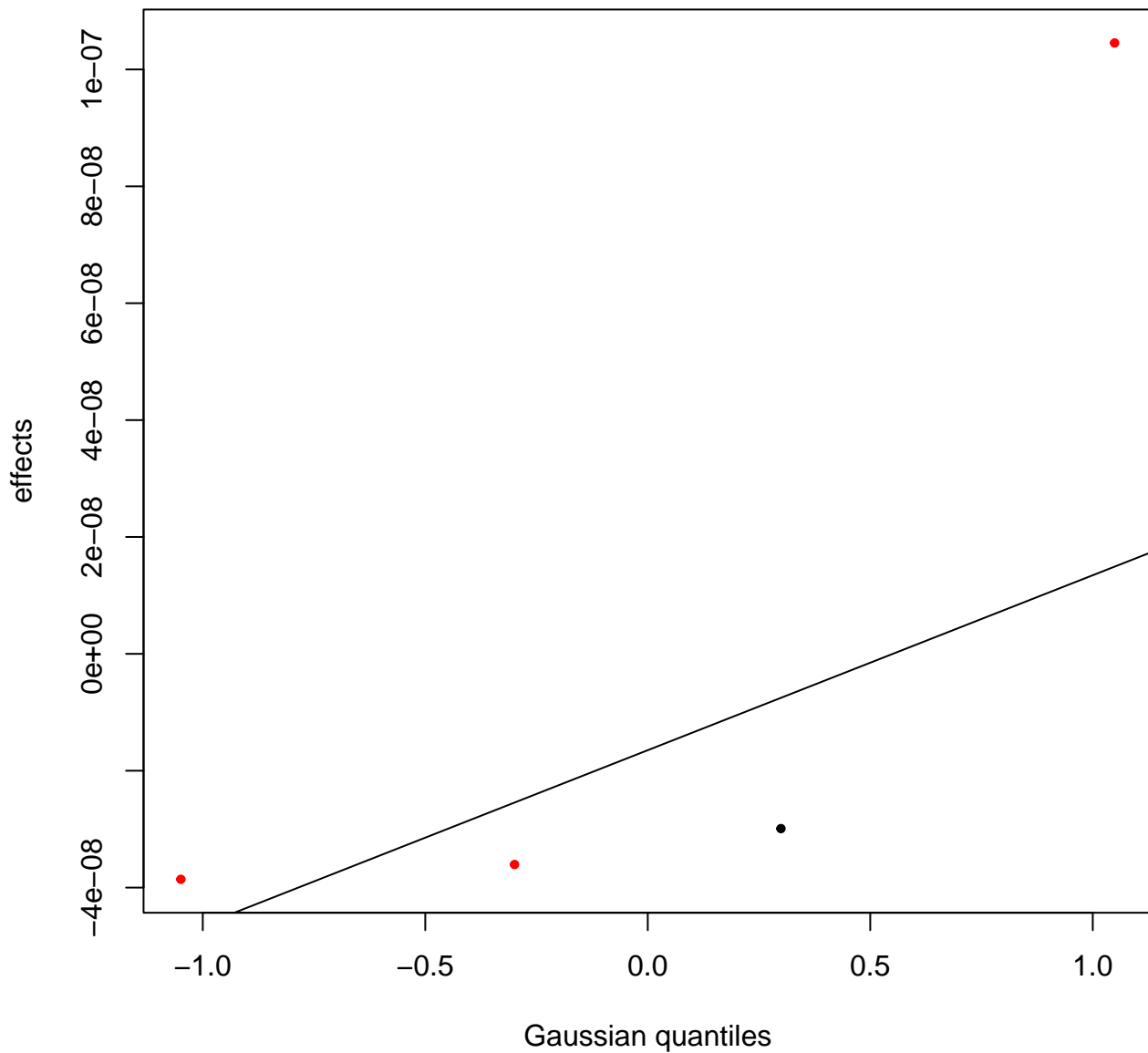
Bites in squirrel

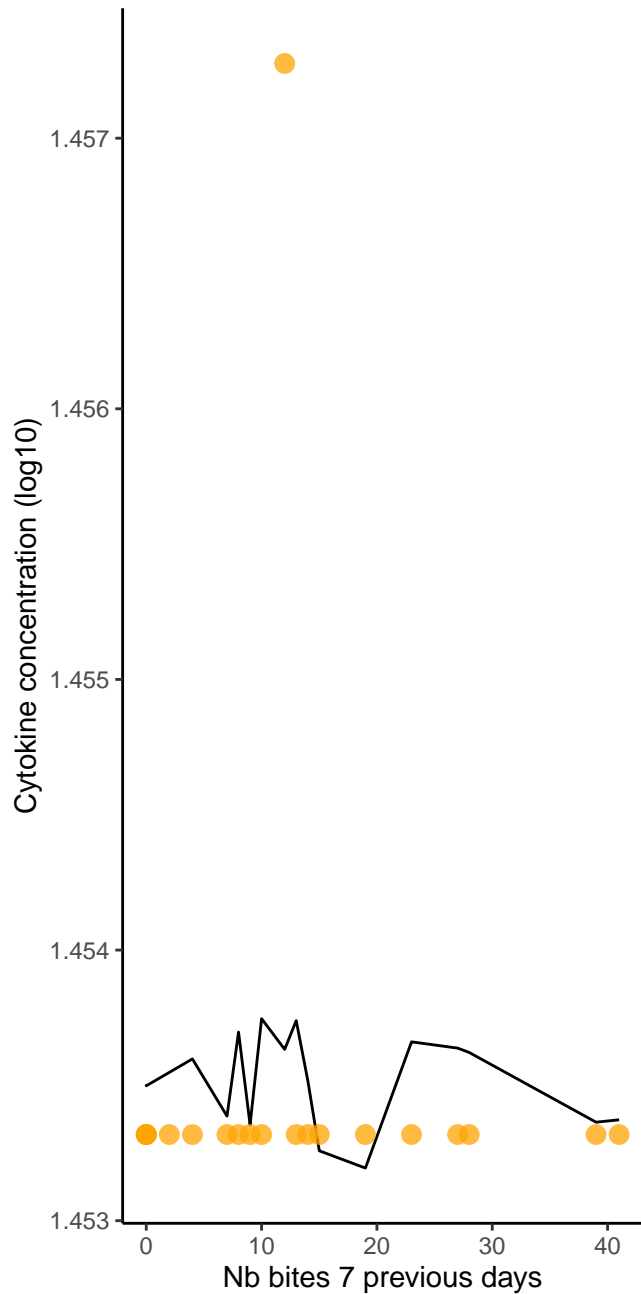
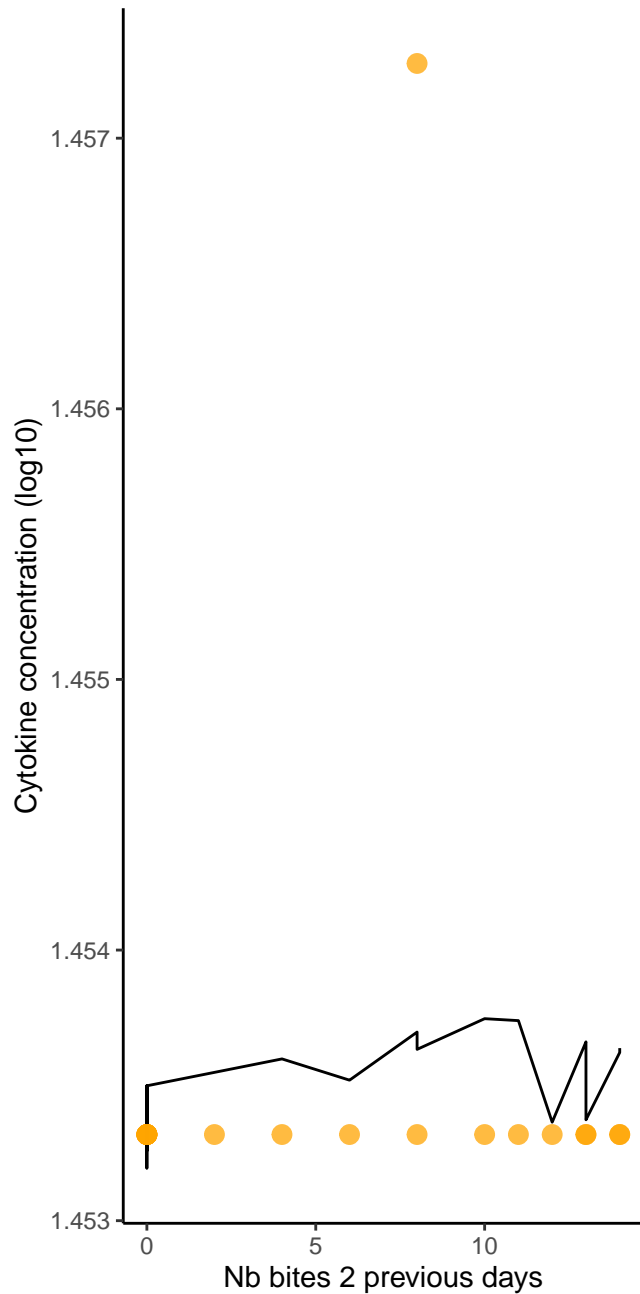
Nb obs : 20

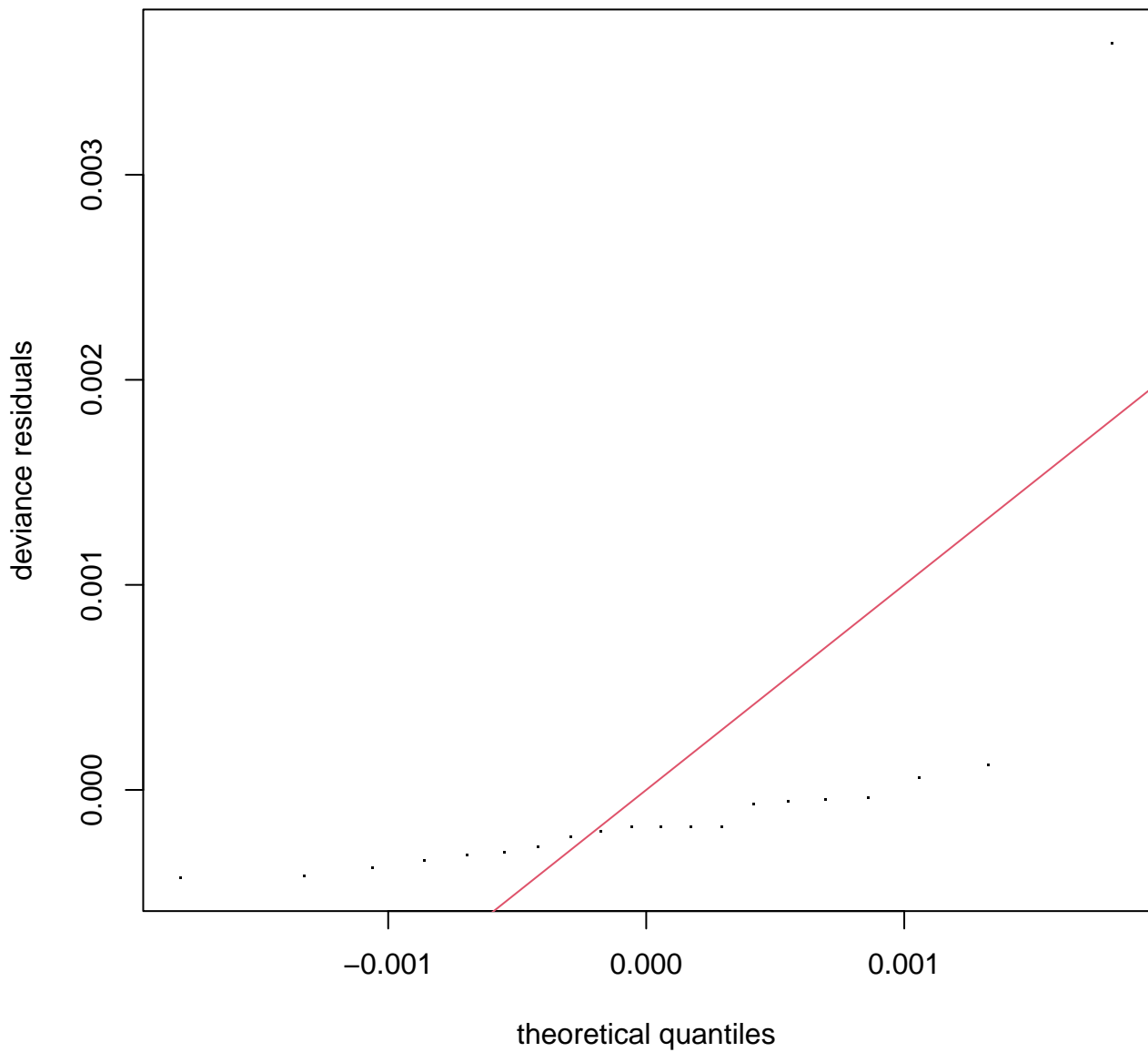




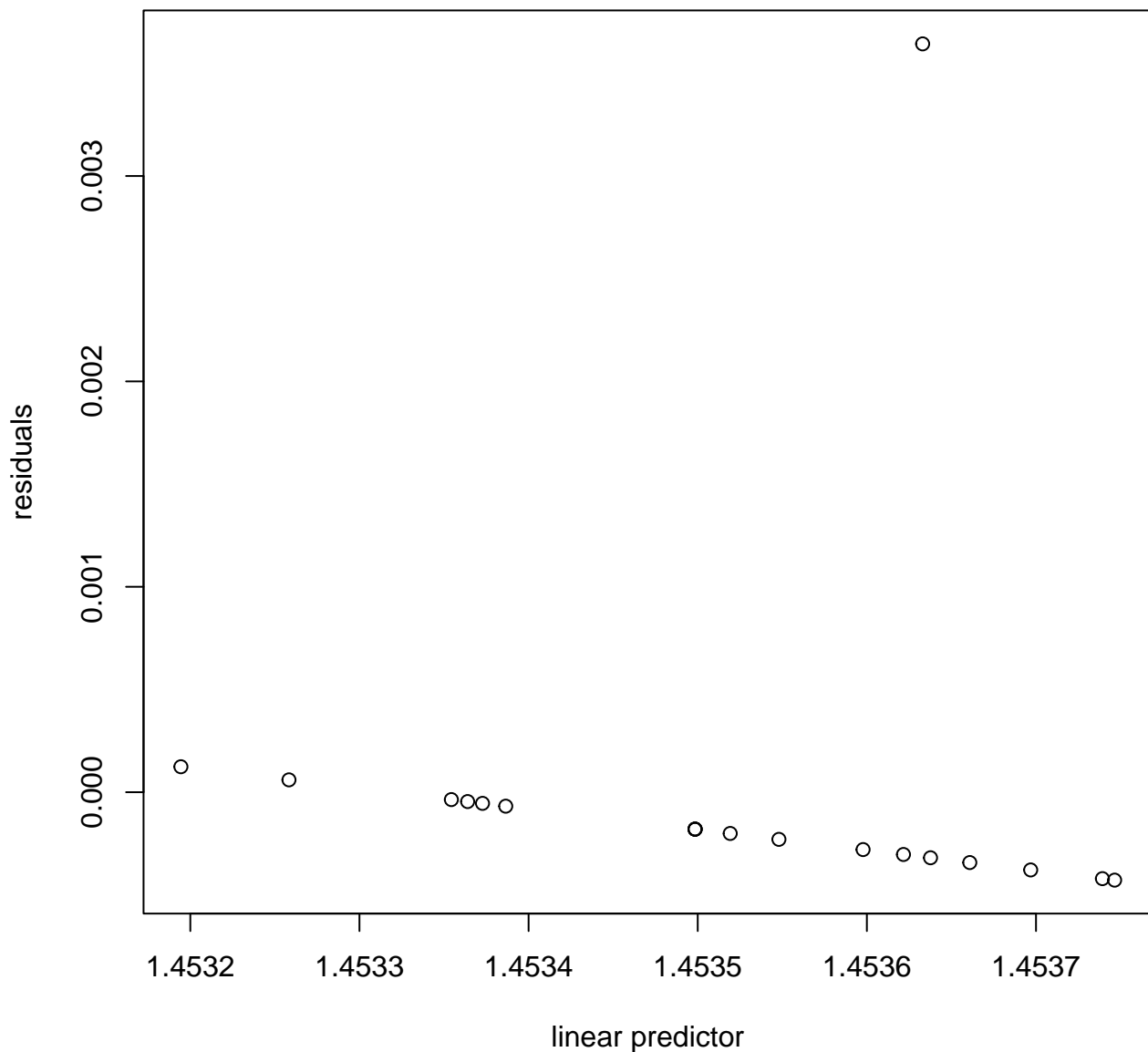
$s(\text{ID},0)$



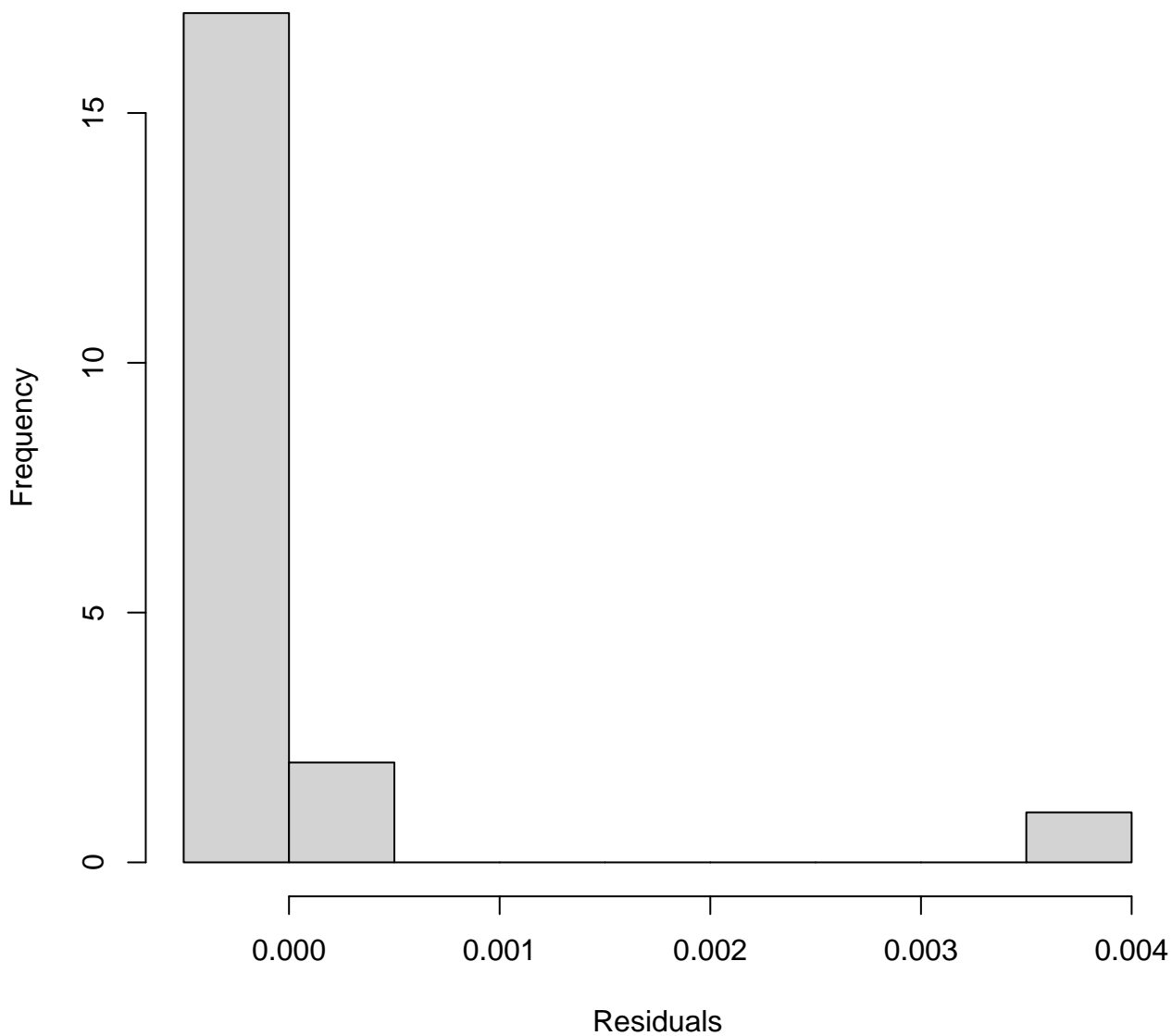




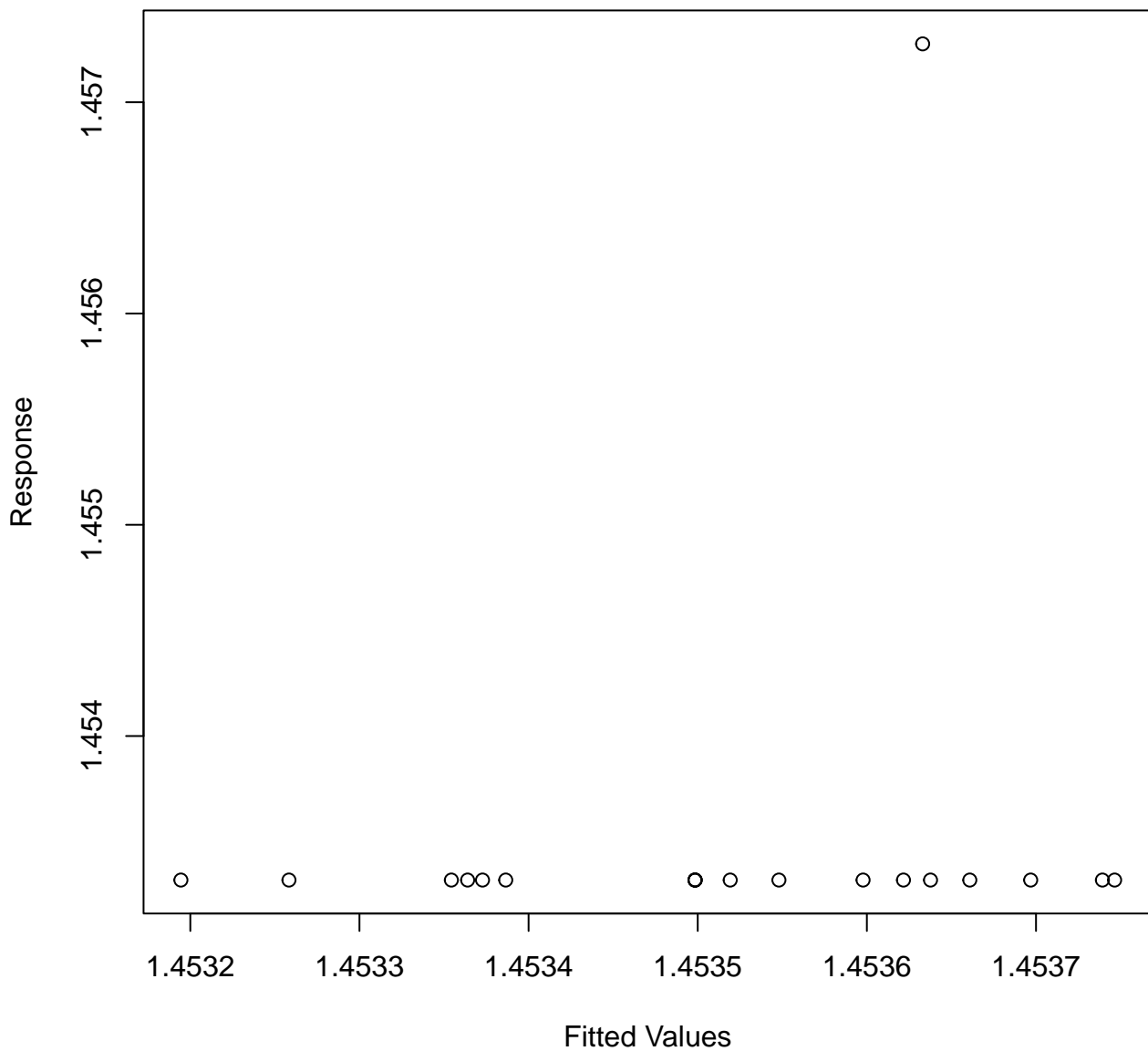
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 13 iterations.
 Gradient range [-1.067915e-05,0.0003045789]
 (score -113.0477 & scale 8.481872e-07).
 Hessian positive definite, eigenvalue range [8.705866e-06,9.999695].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.000000	1.000007	1.22	0.98
s(cumul_bites_7_previous_days)	3.000000	1.000011	1.24	1.00
s(ID)	4.000000	0.000454	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 15.00]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.01]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:

log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.453516	0.000206	7058	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.0000071	1	0.529	0.477
s(cumul_bites_7_previous_days)	1.0000108	1	0.393	0.539
s(ID)	0.0004536	3	0.000	0.347

R-sq.(adj) = -0.0829 Deviance explained = 3.11%

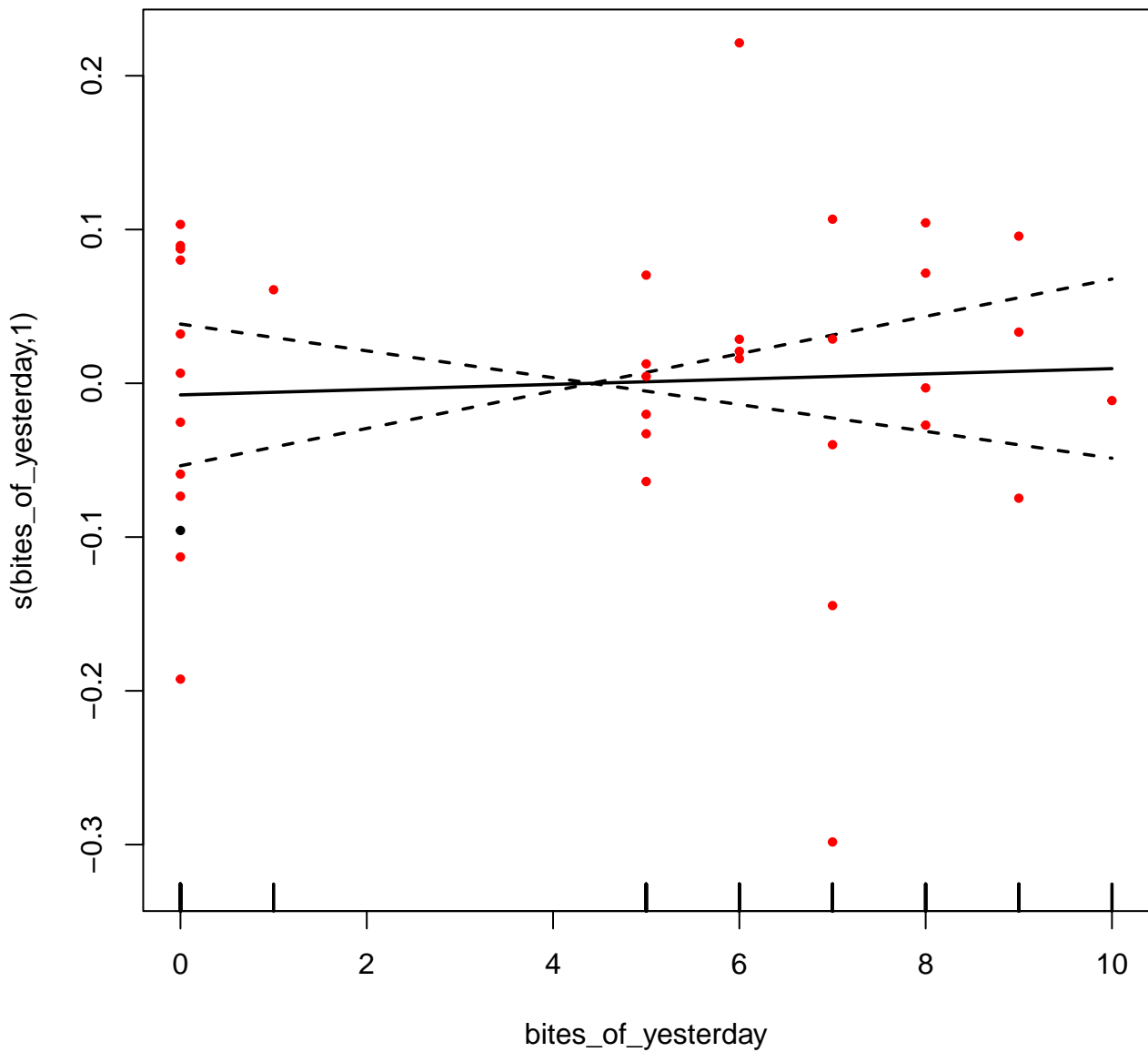
-ML = -113.05 Scale est. = 8.4819e-07 n = 20

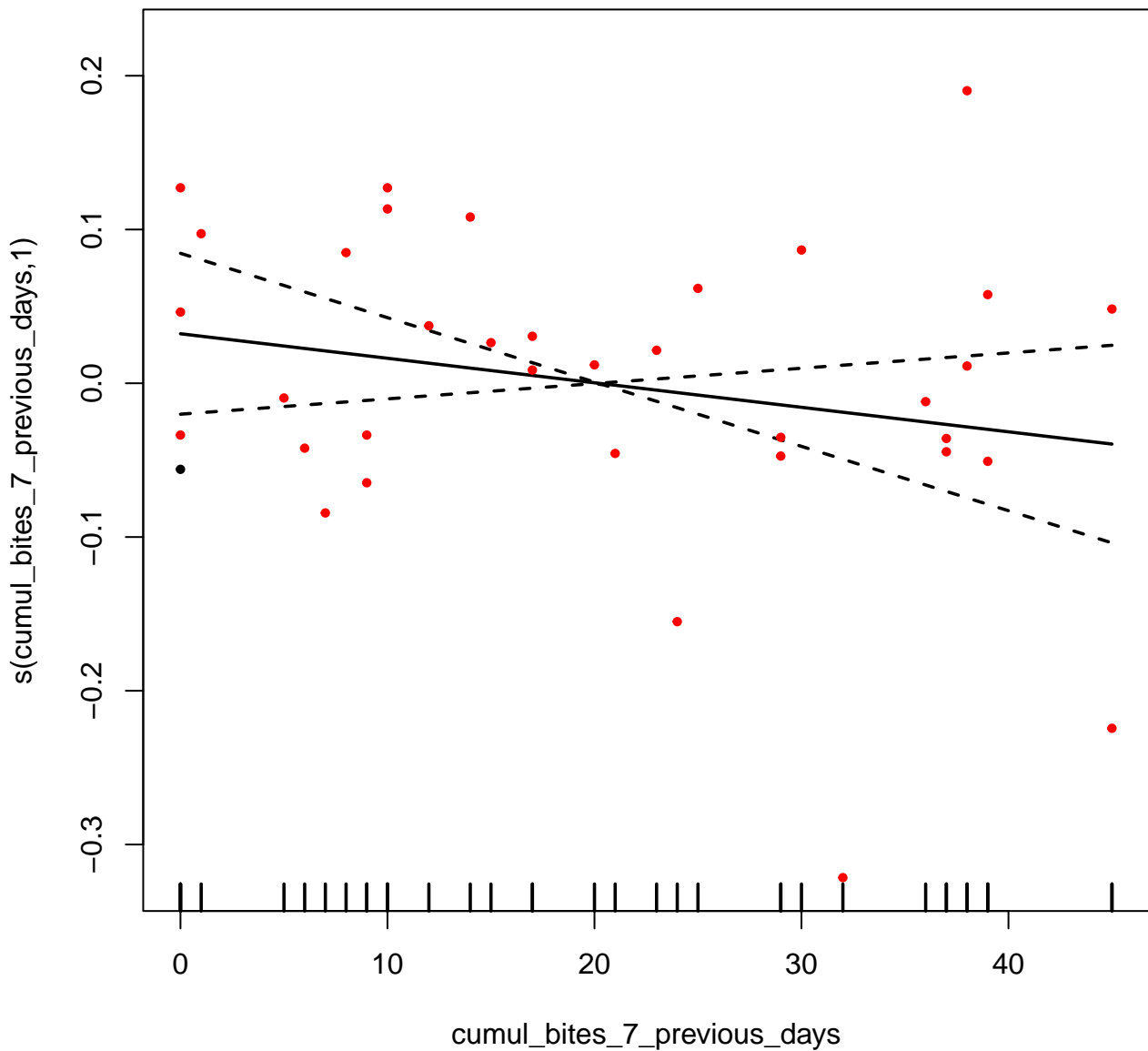
AICc [1] -215.4268

MIP.1B

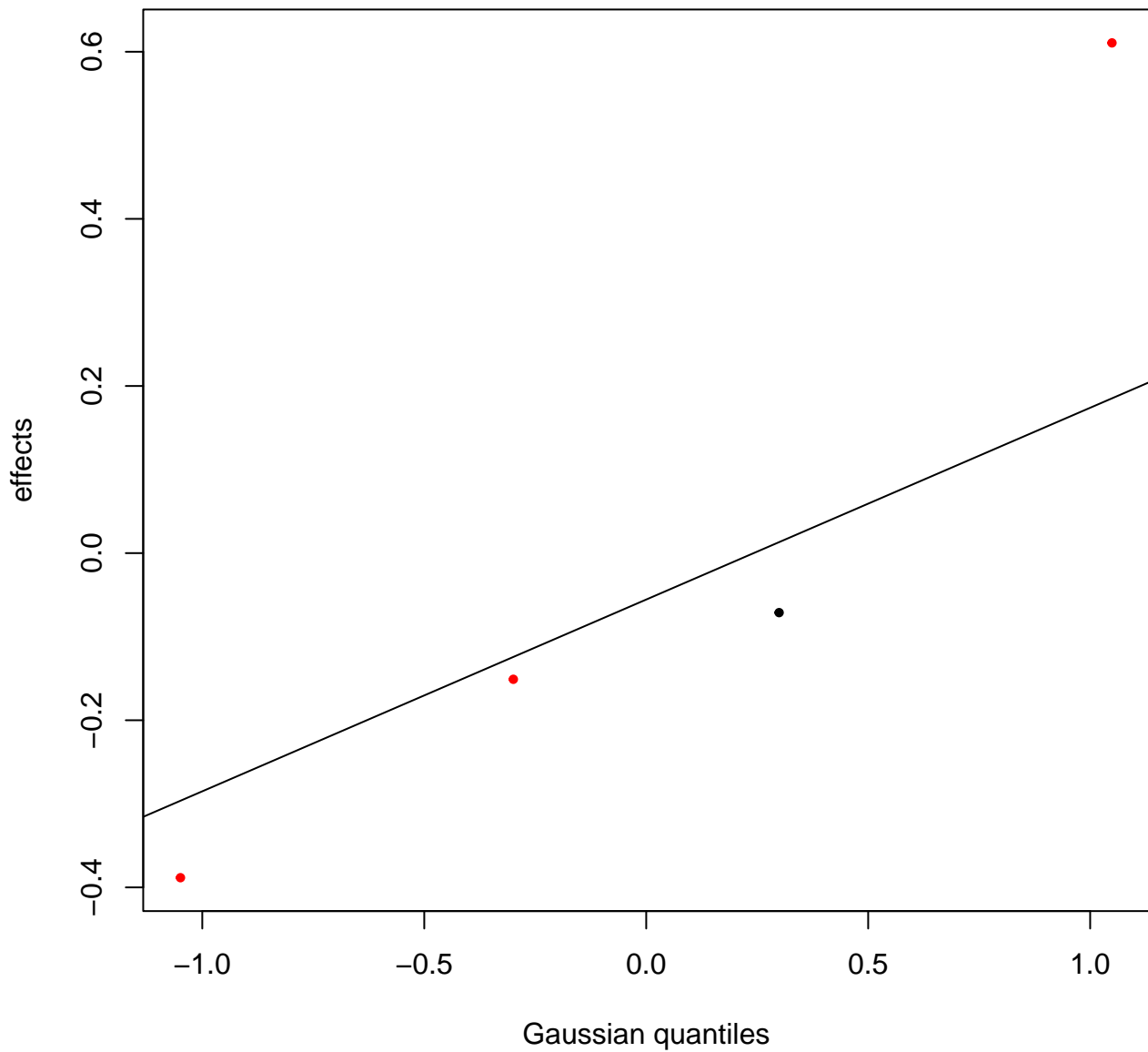
Bites in cyno

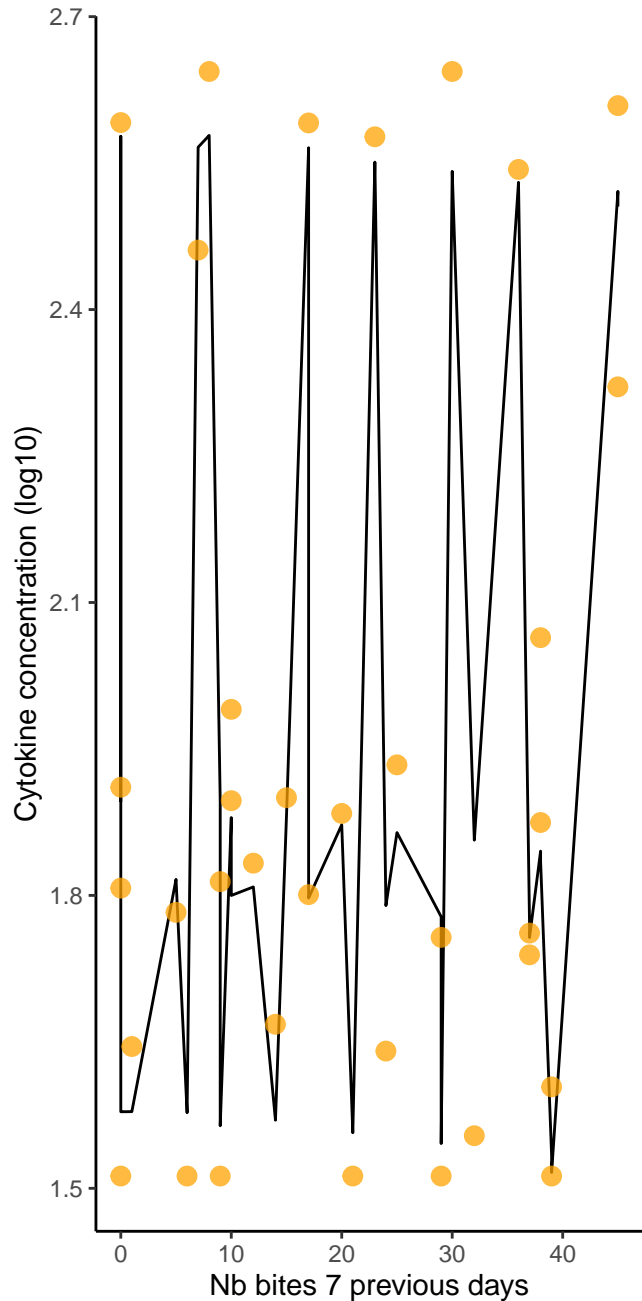
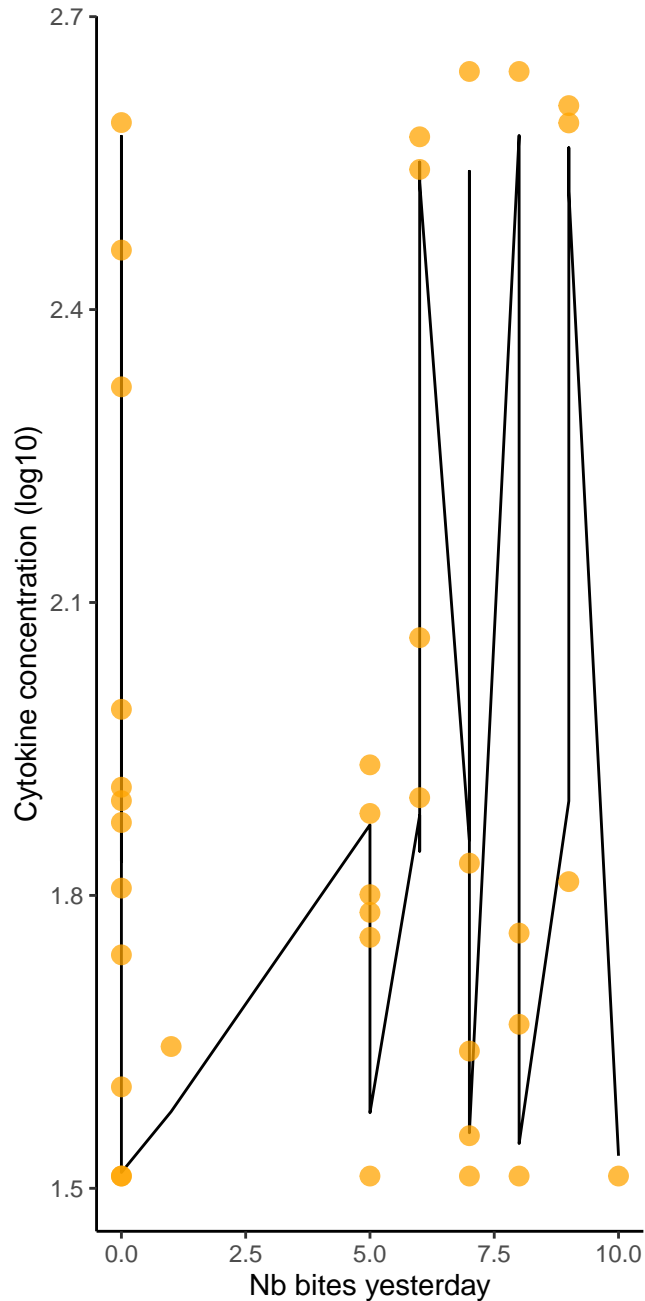
Nb obs : 36

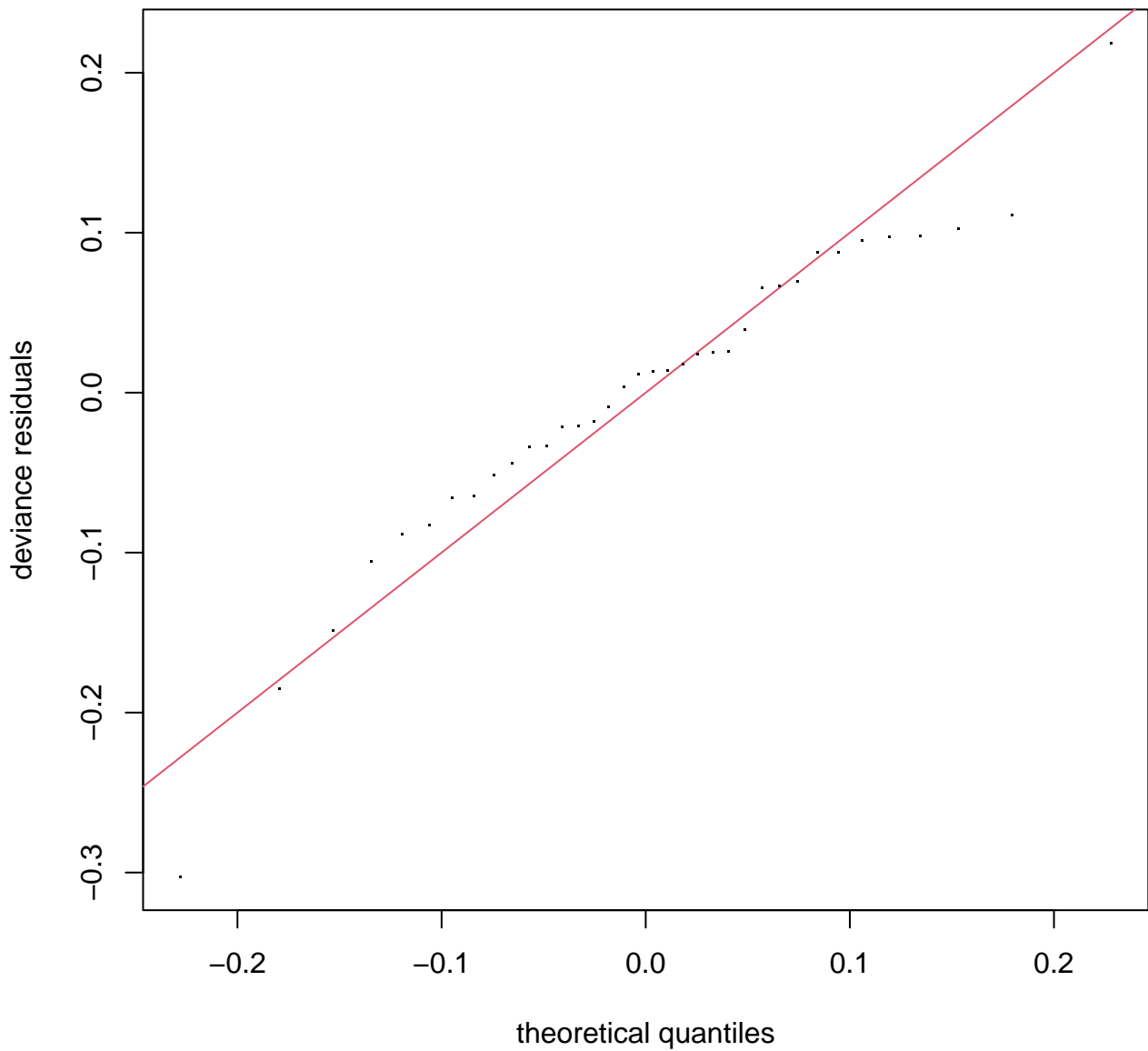




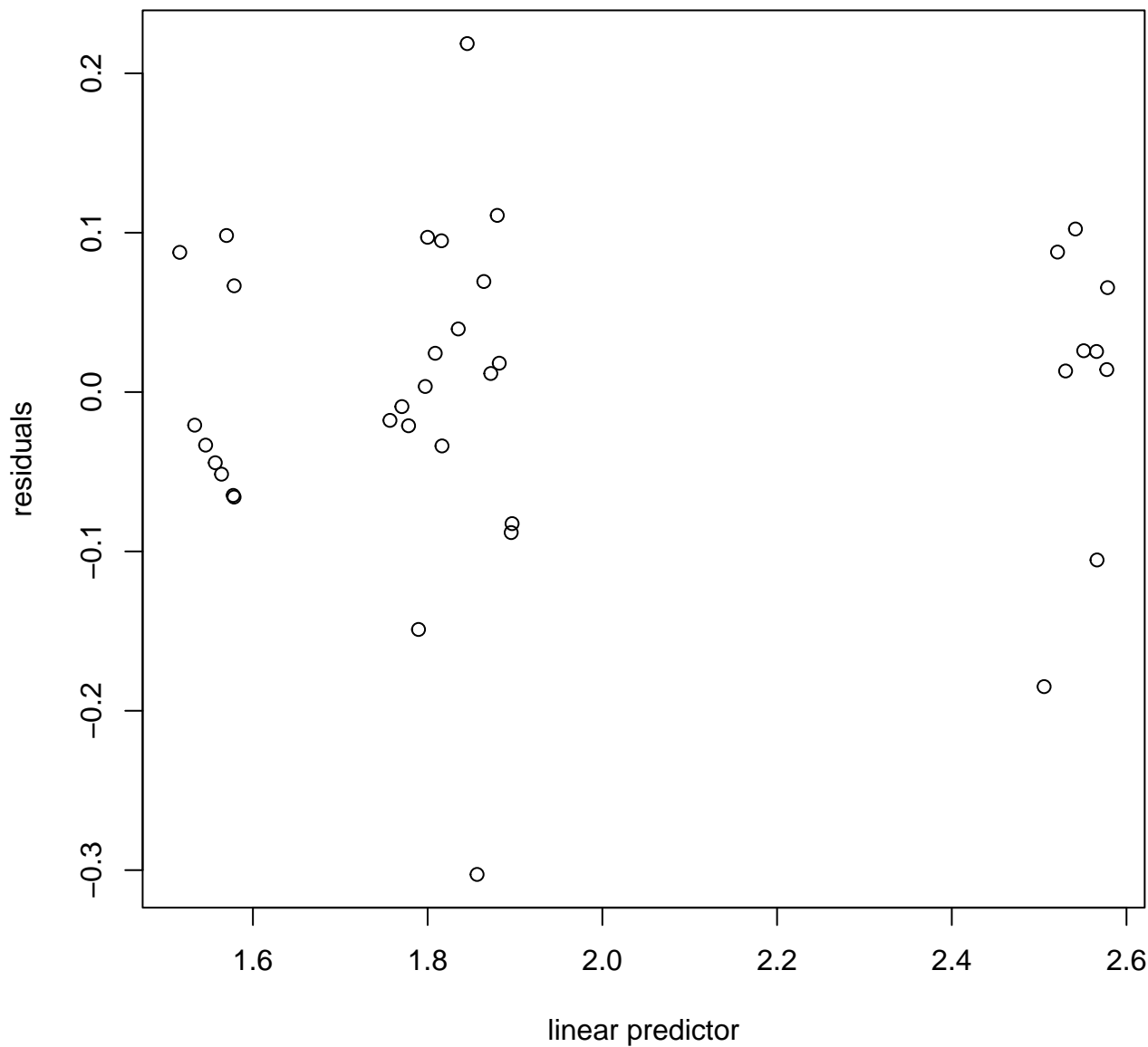
s(ID,2.98)



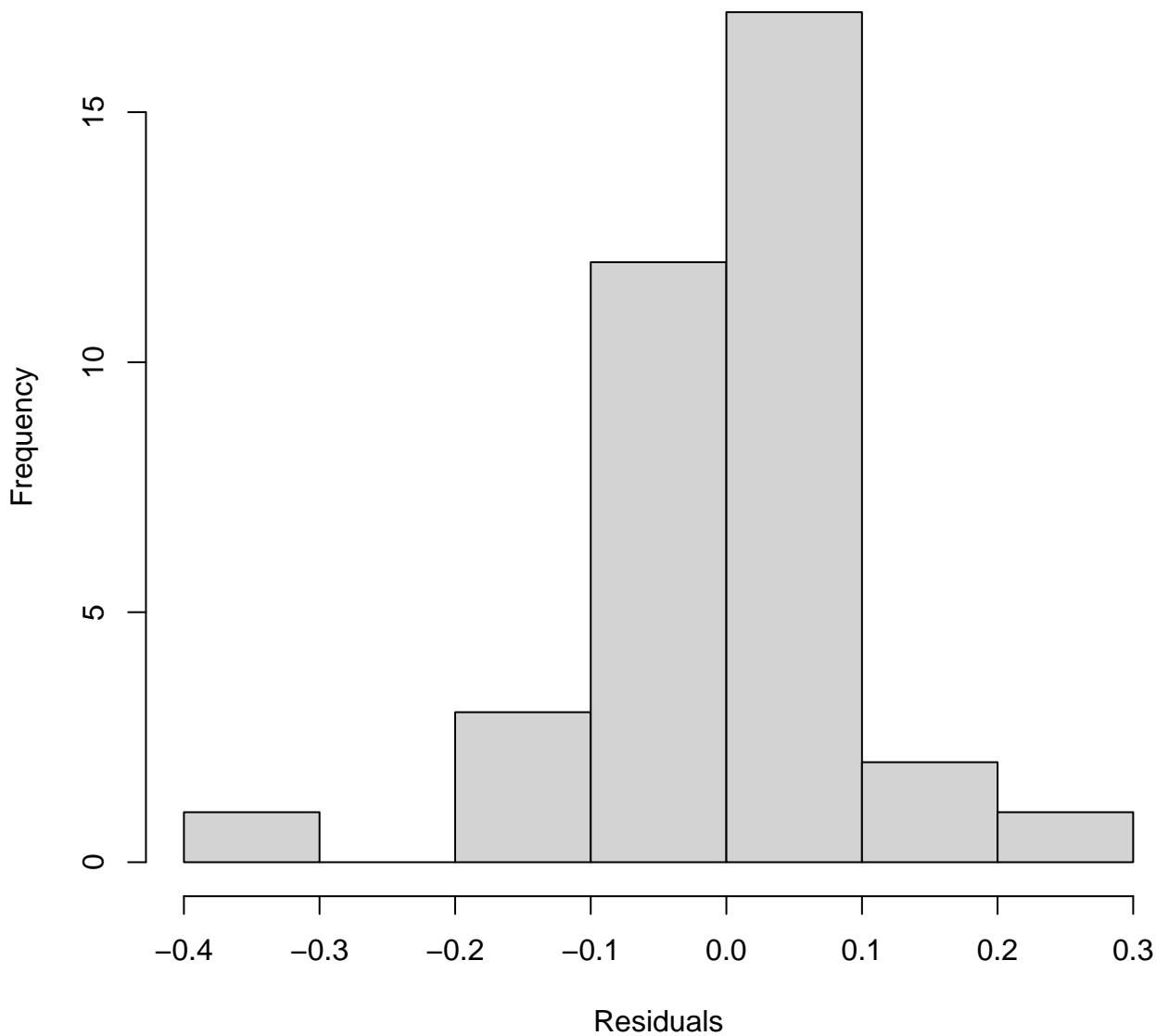




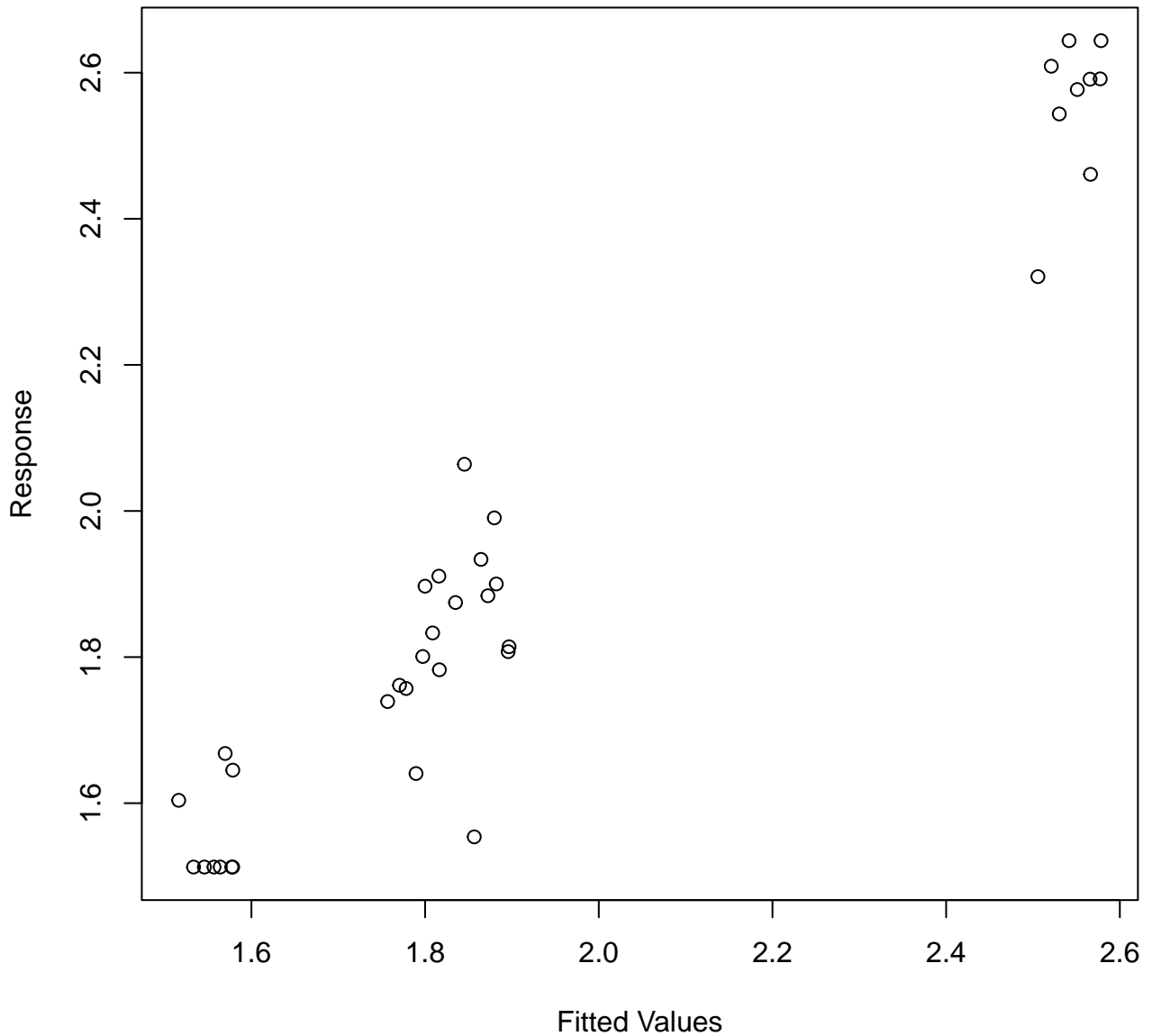
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 10 iterations.
 Gradient range [-9.868043e-06,8.447574e-08]
 (score -22.03727 & scale 0.01073548).
 Hessian positive definite, eigenvalue range [7.793722e-07,18.24188].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.07	0.56
s(cumul_bites_7_previous_days)	3.00	1.00	1.16	0.79
s(ID)	4.00	2.98	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.9422	0.1933	10.05	4.07e-11 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.107	0.746
s(cumul_bites_7_previous_days)	1.000	1	1.516	0.228
s(ID)	2.976	3	151.612	<2e-16 ***

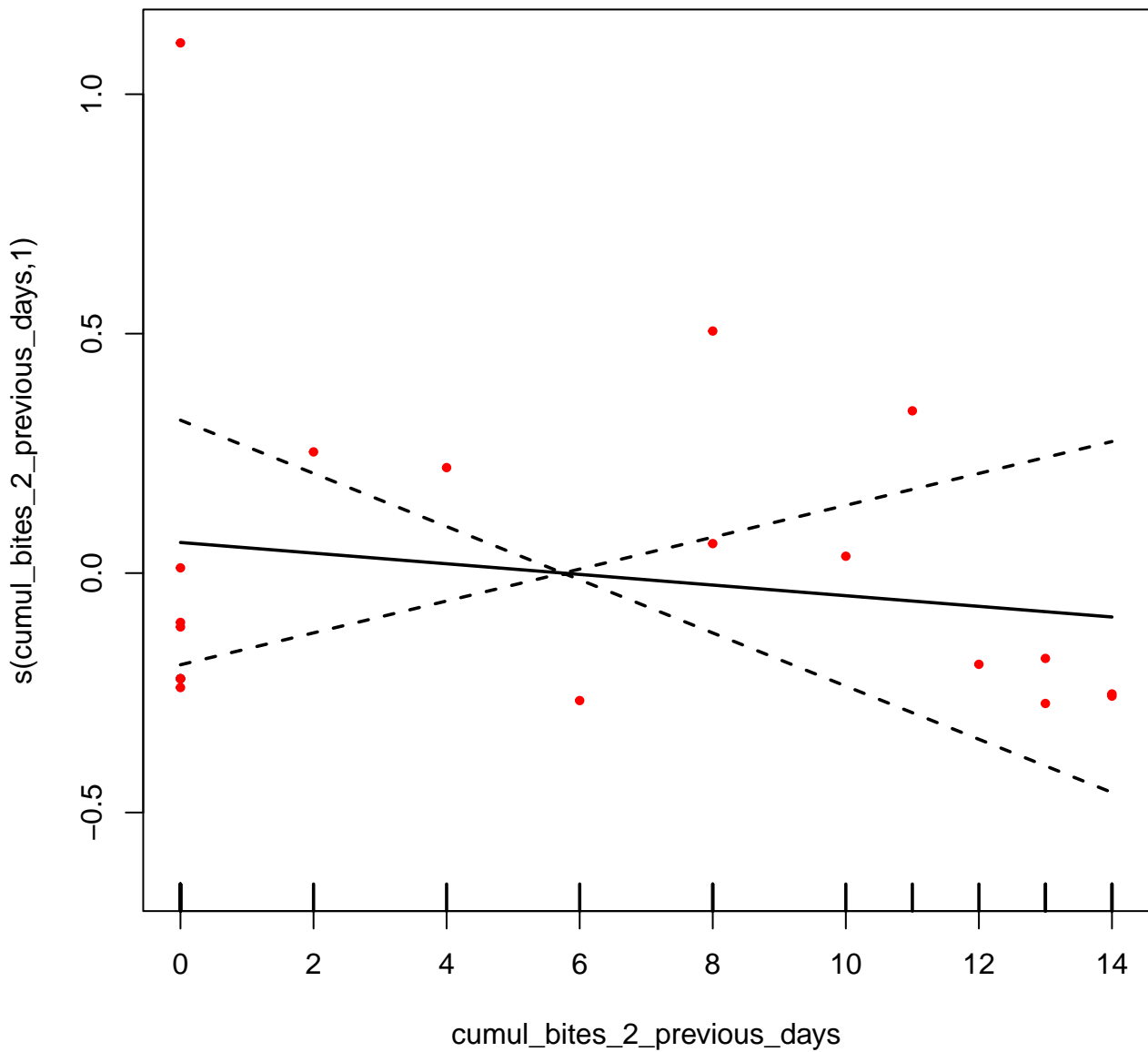
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

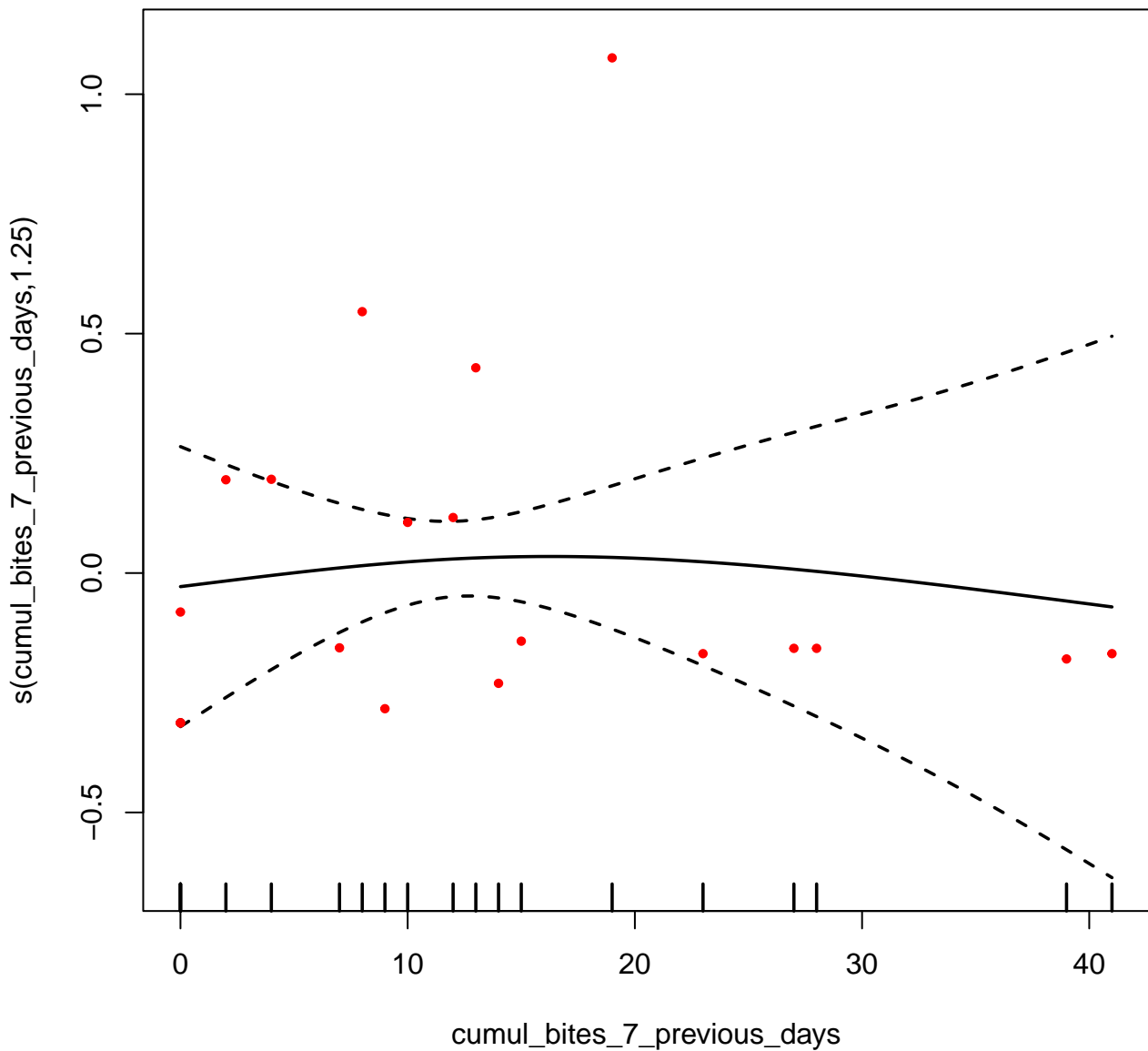
R-sq.(adj) = 0.929 Deviance explained = 93.9%
-ML = -22.037 Scale est. = 0.010735 n = 36

AICc [1] -49.61434

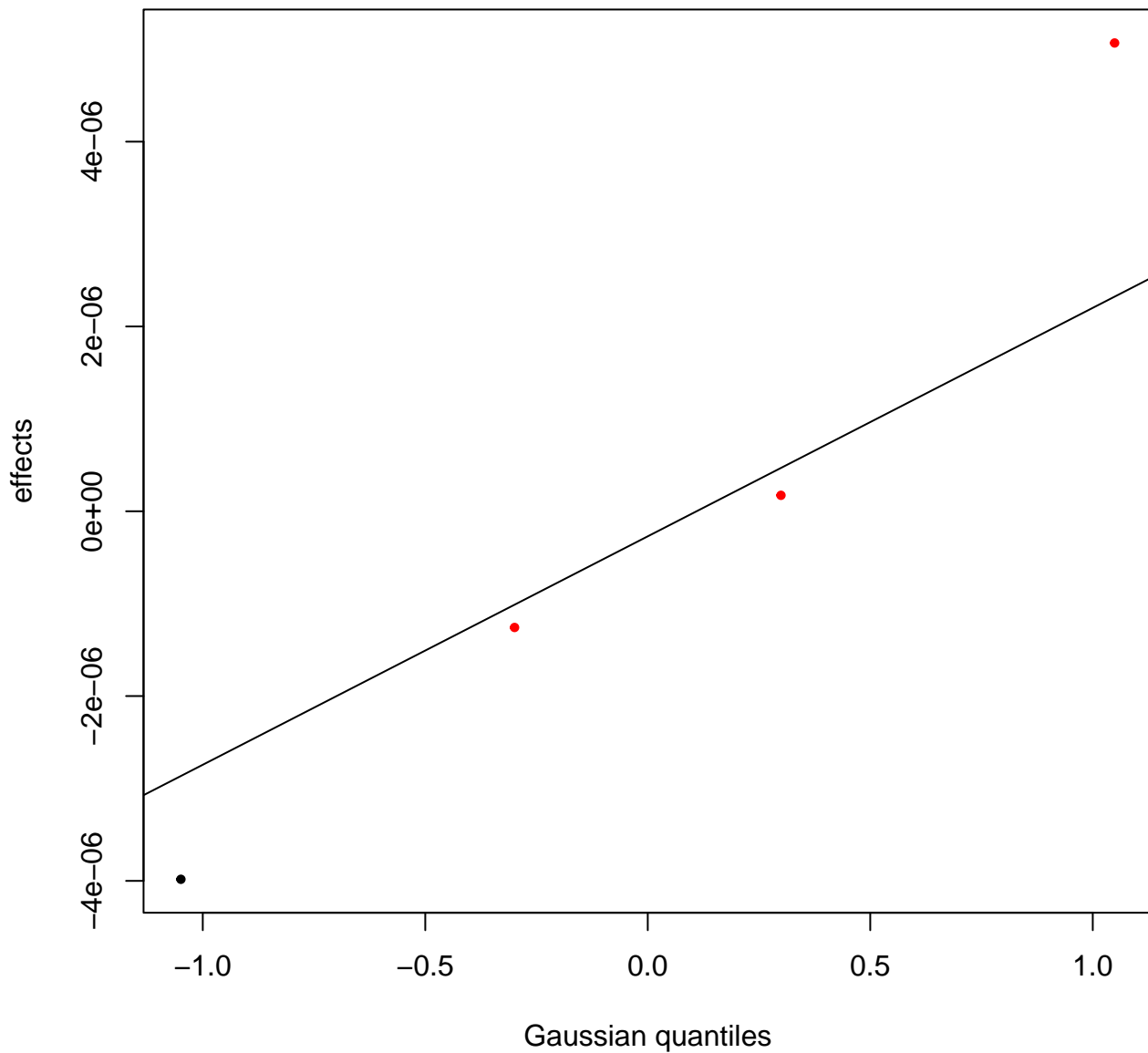
Bites in squirrel

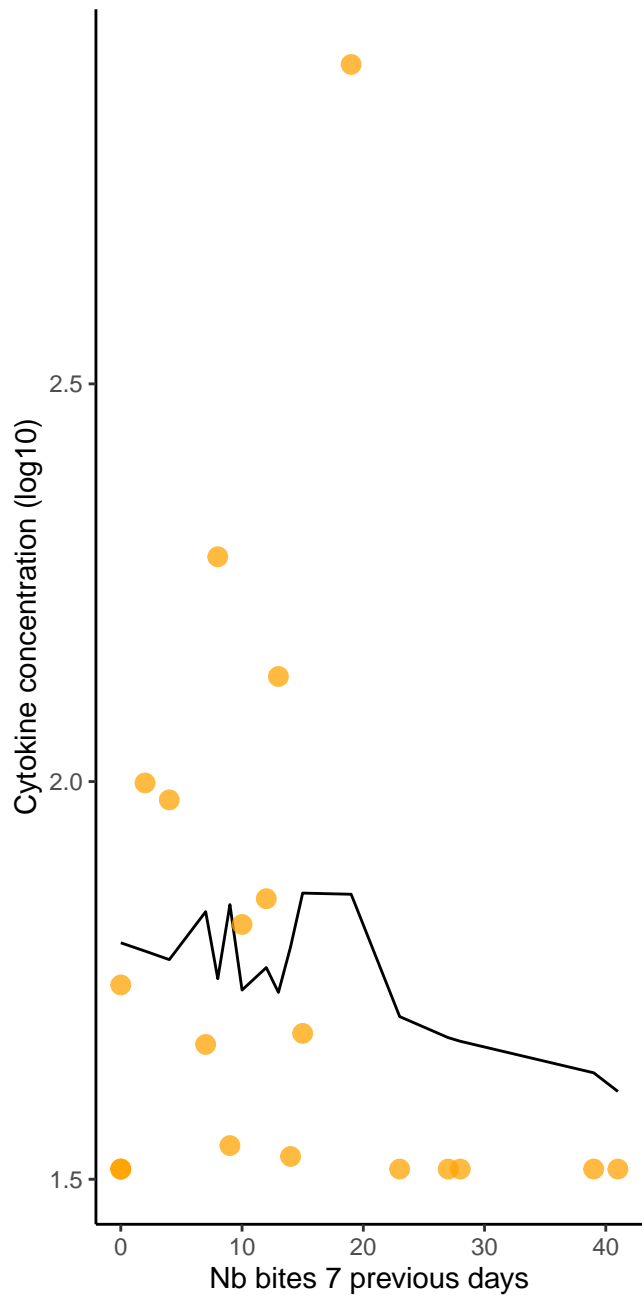
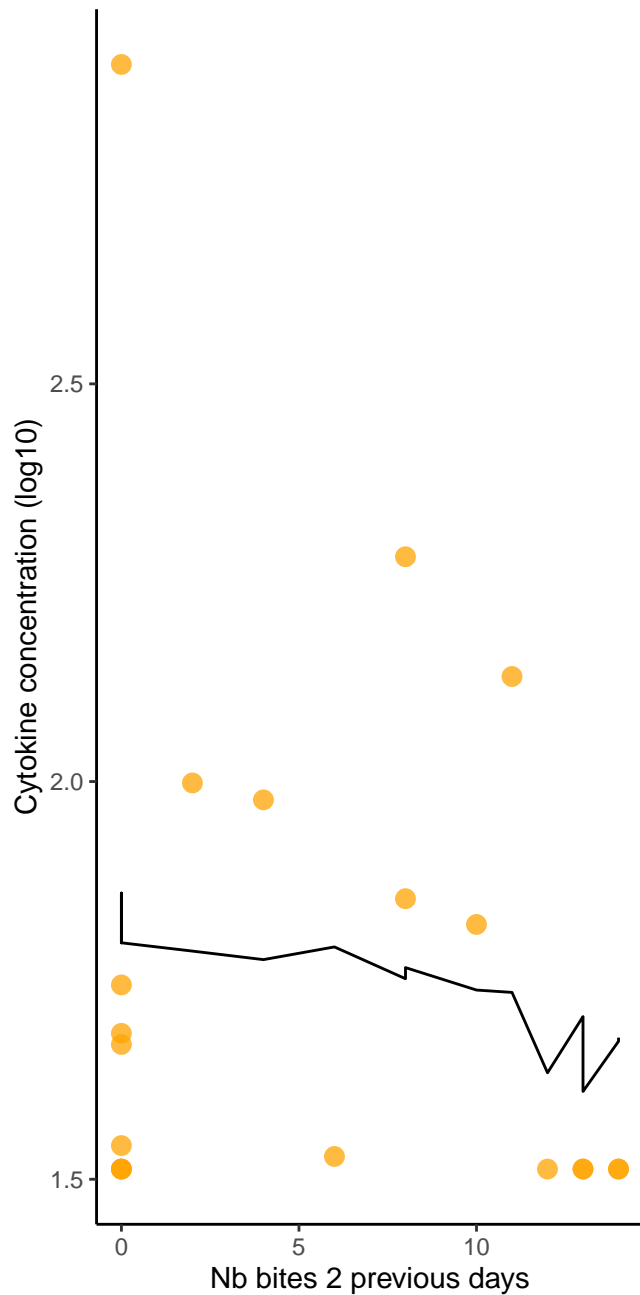
Nb obs : 20

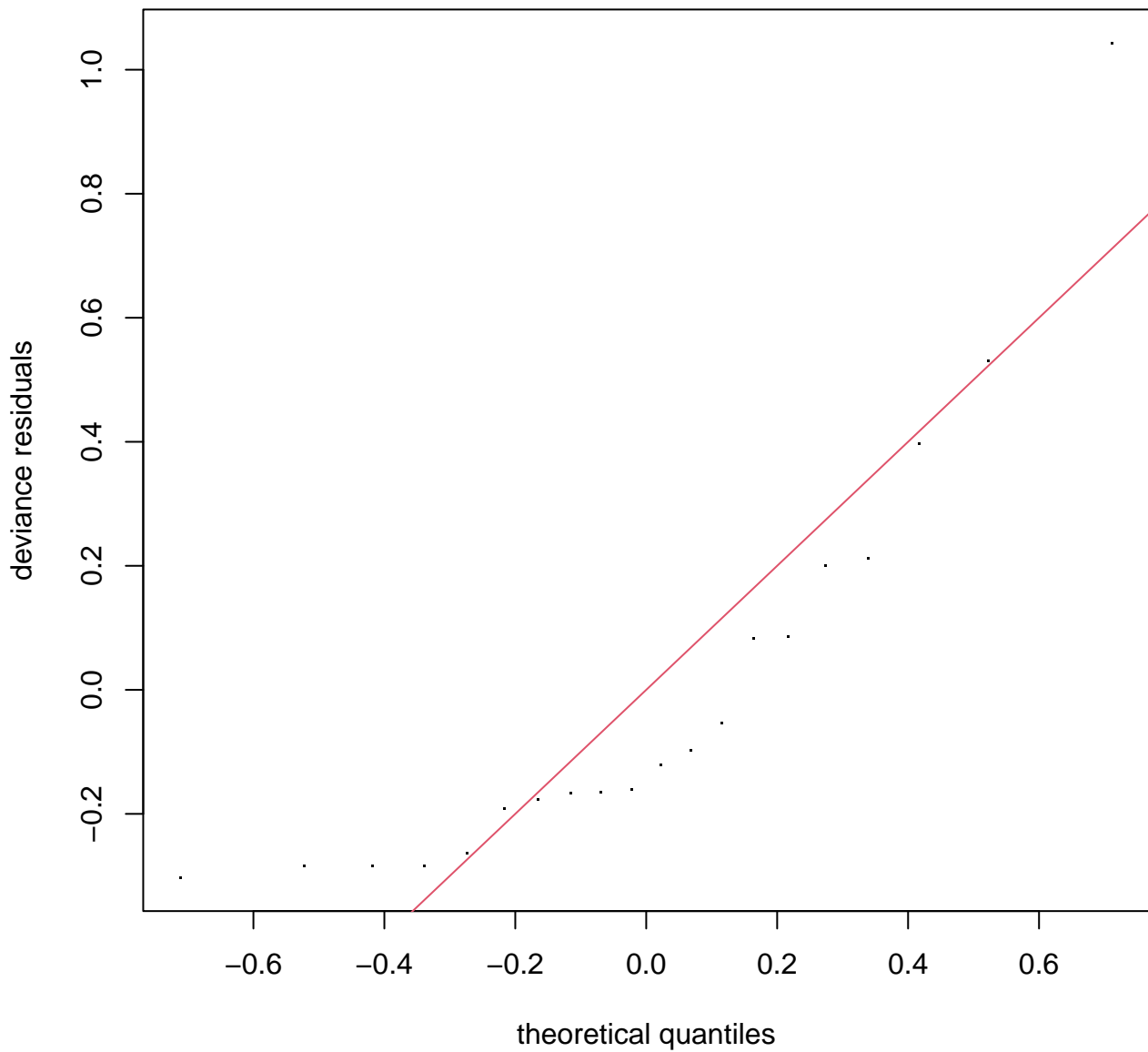




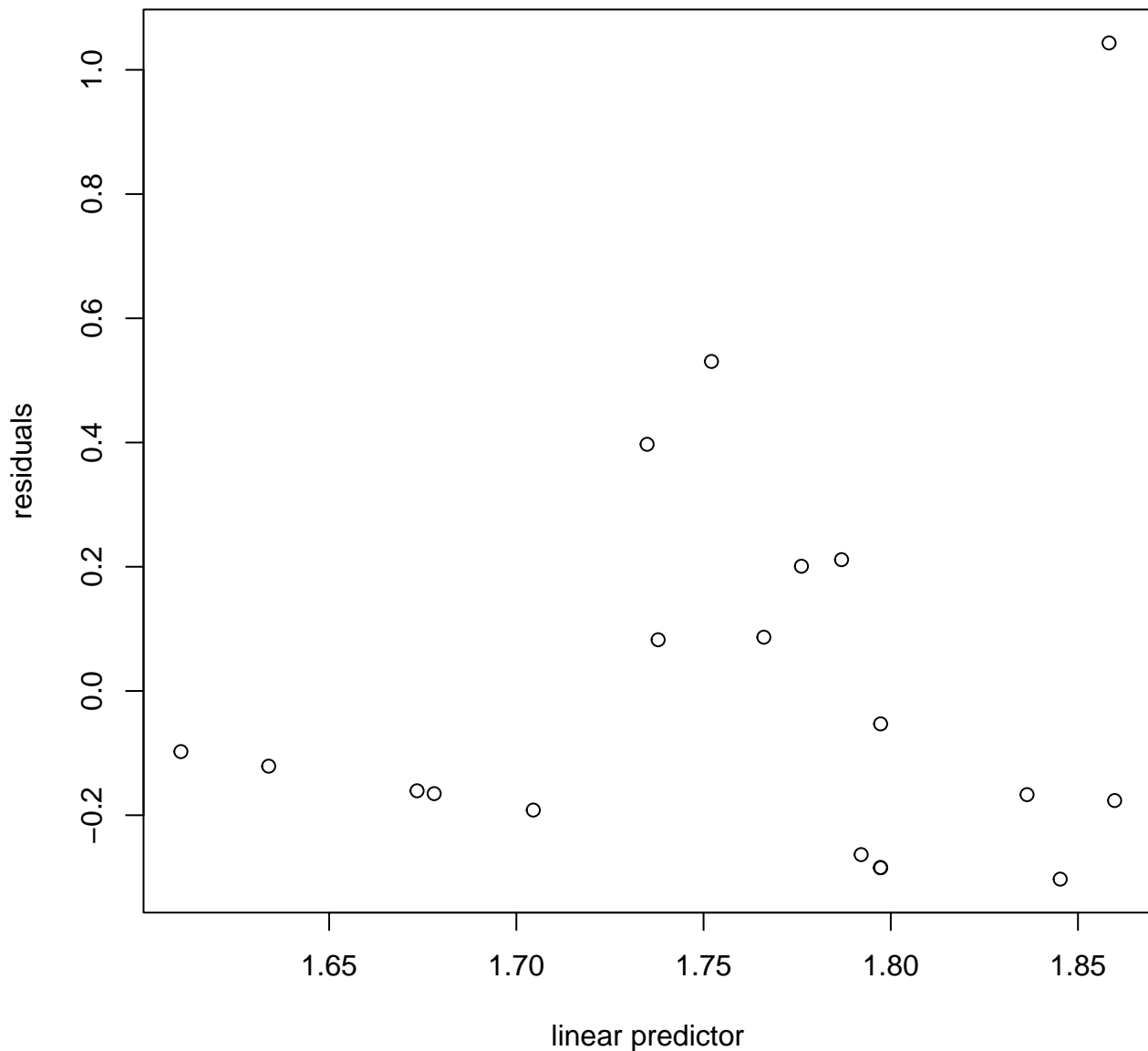
s(ID,0)



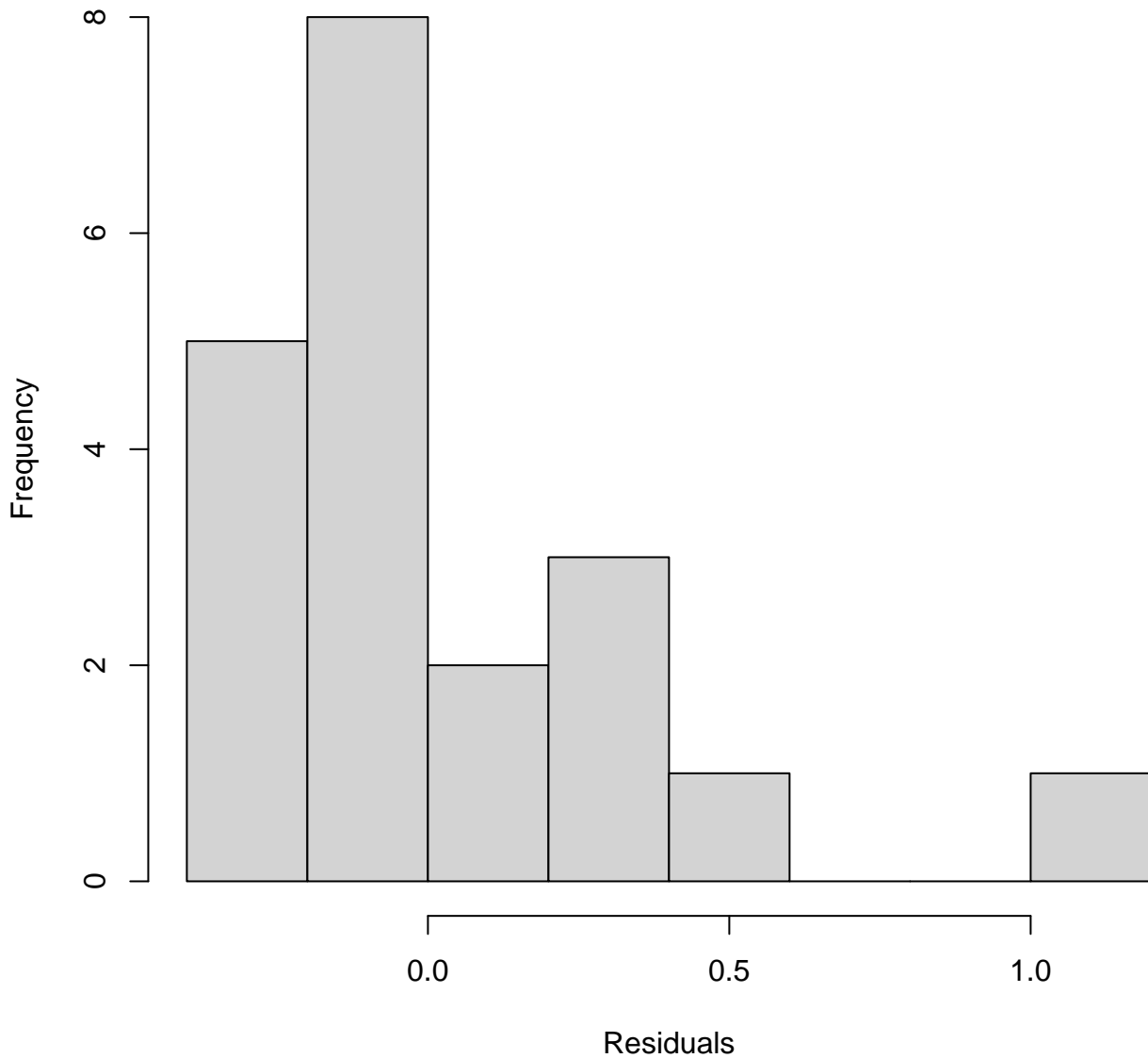




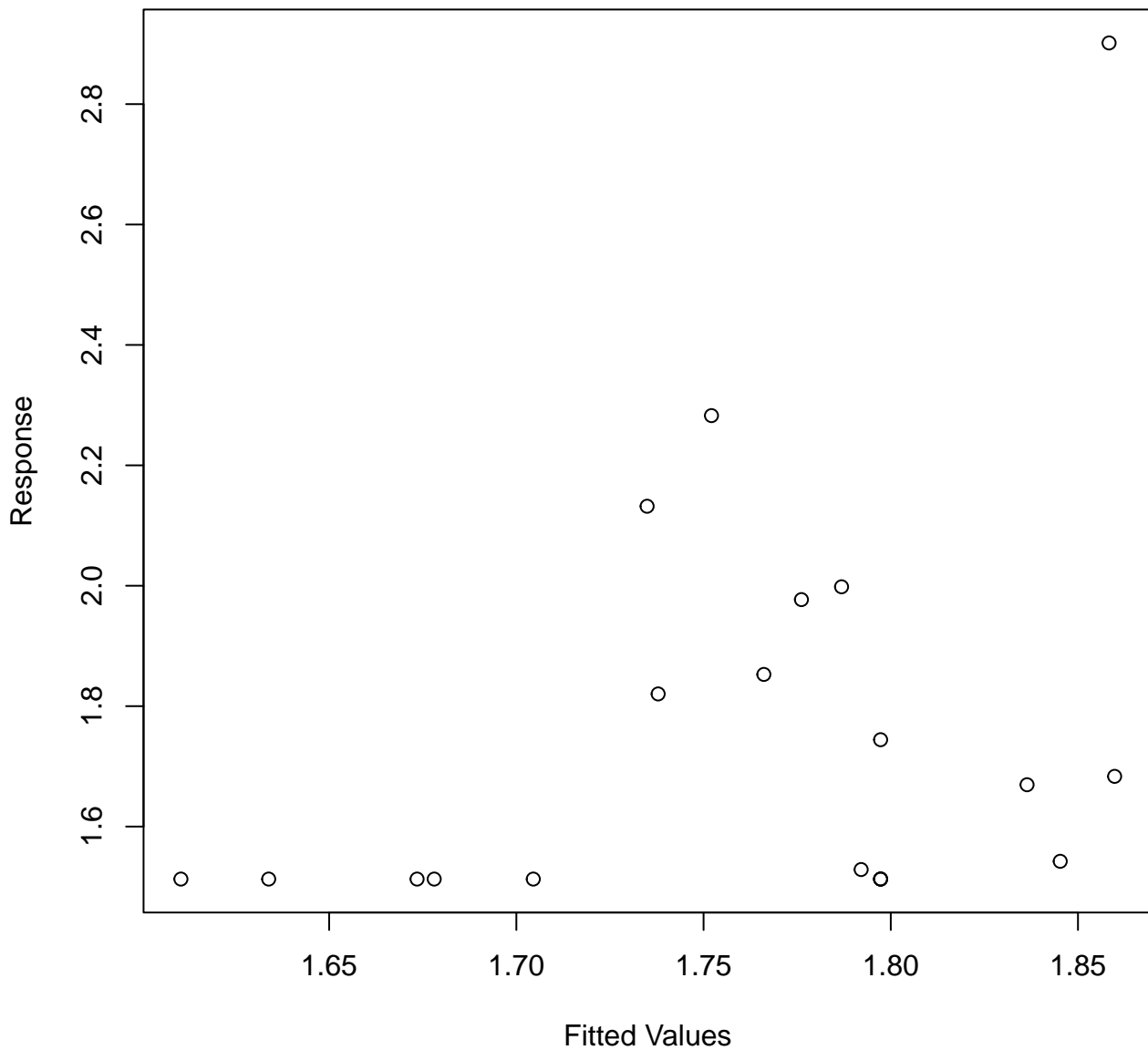
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
full convergence after 14 iterations.
Gradient range [-3.310148e-06,4.22303e-05]
(score 6.973644 & scale 0.1317552).
Hessian positive definite, eigenvalue range [5.617811e-07,10.0083].
Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.00e+00	1.00e+00	1.19	0.72
s(cumul_bites_7_previous_days)	3.00e+00	1.25e+00	1.28	0.90
s(ID)	4.00e+00	6.34e-05	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.76176	0.08117	21.71	1.07e-13 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.000e+00	1.000	0.251	0.623
s(cumul_bites_7_previous_days)	1.252e+00	1.455	0.212	0.790
s(ID)	6.343e-05	3.000	0.000	0.360

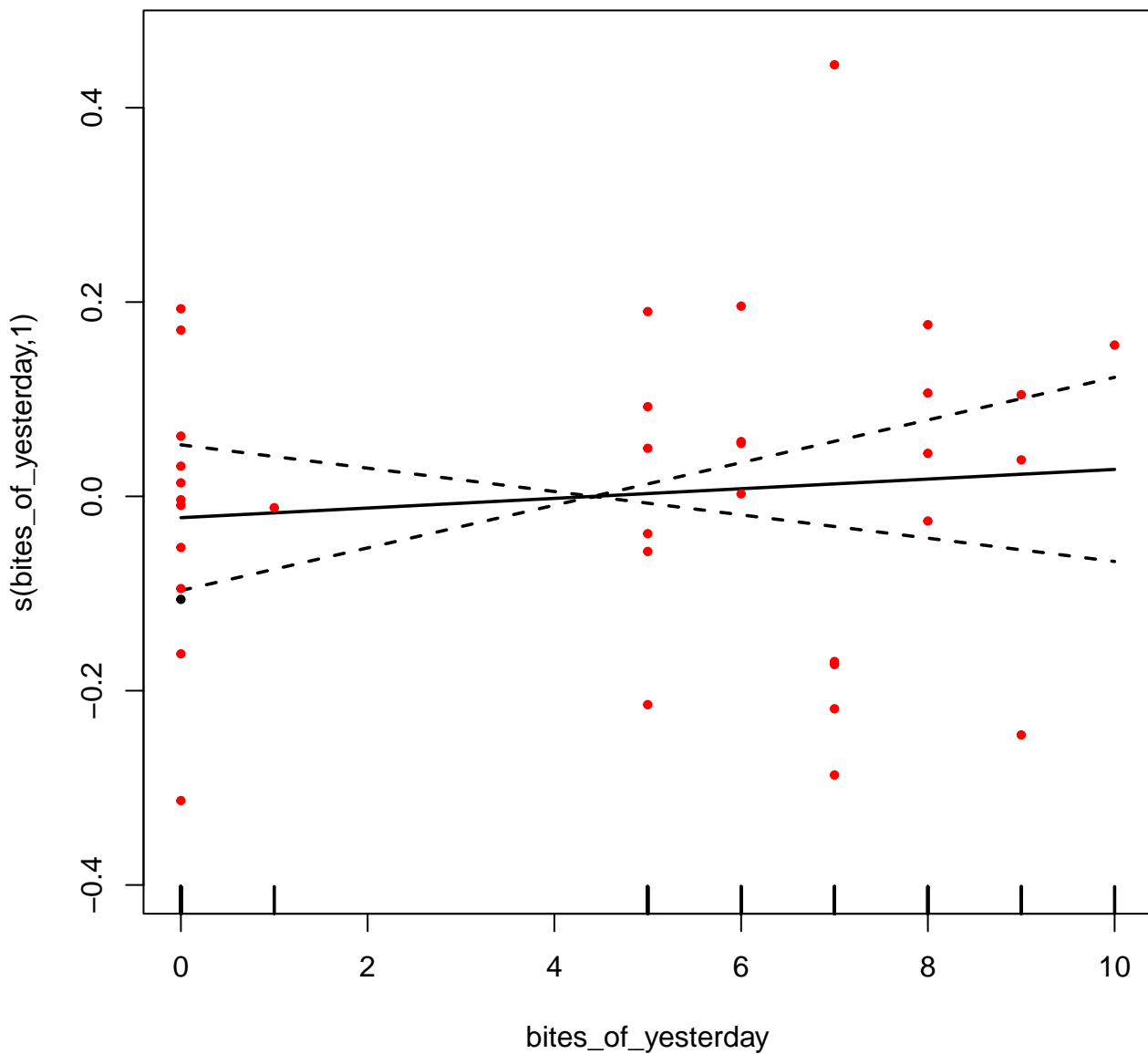
R-sq.(adj) = -0.0282 Deviance explained = 9.37%
-ML = 6.9736 Scale est. = 0.13176 n = 20

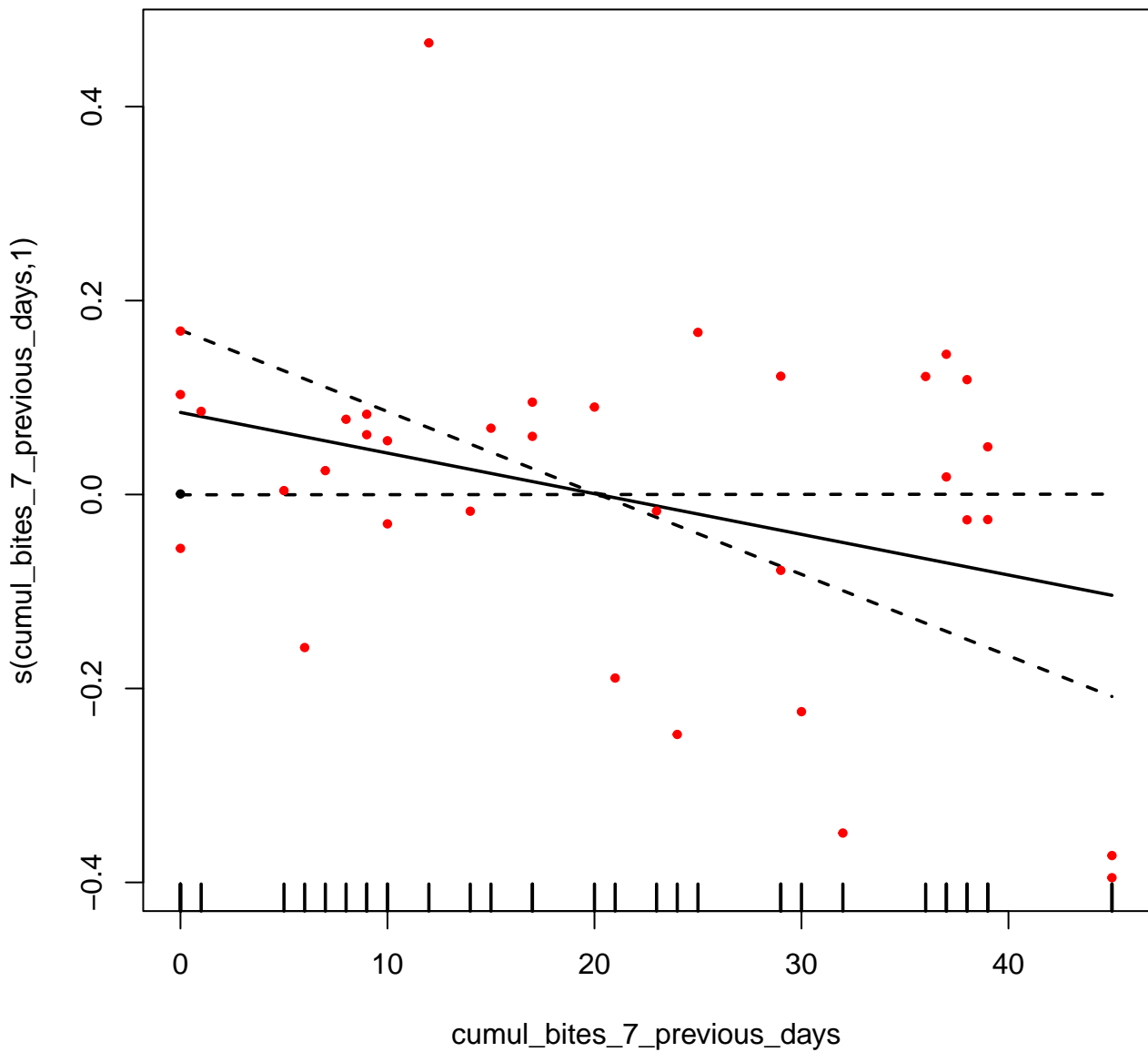
```
AICc [1] 24.92604
```


RANTES

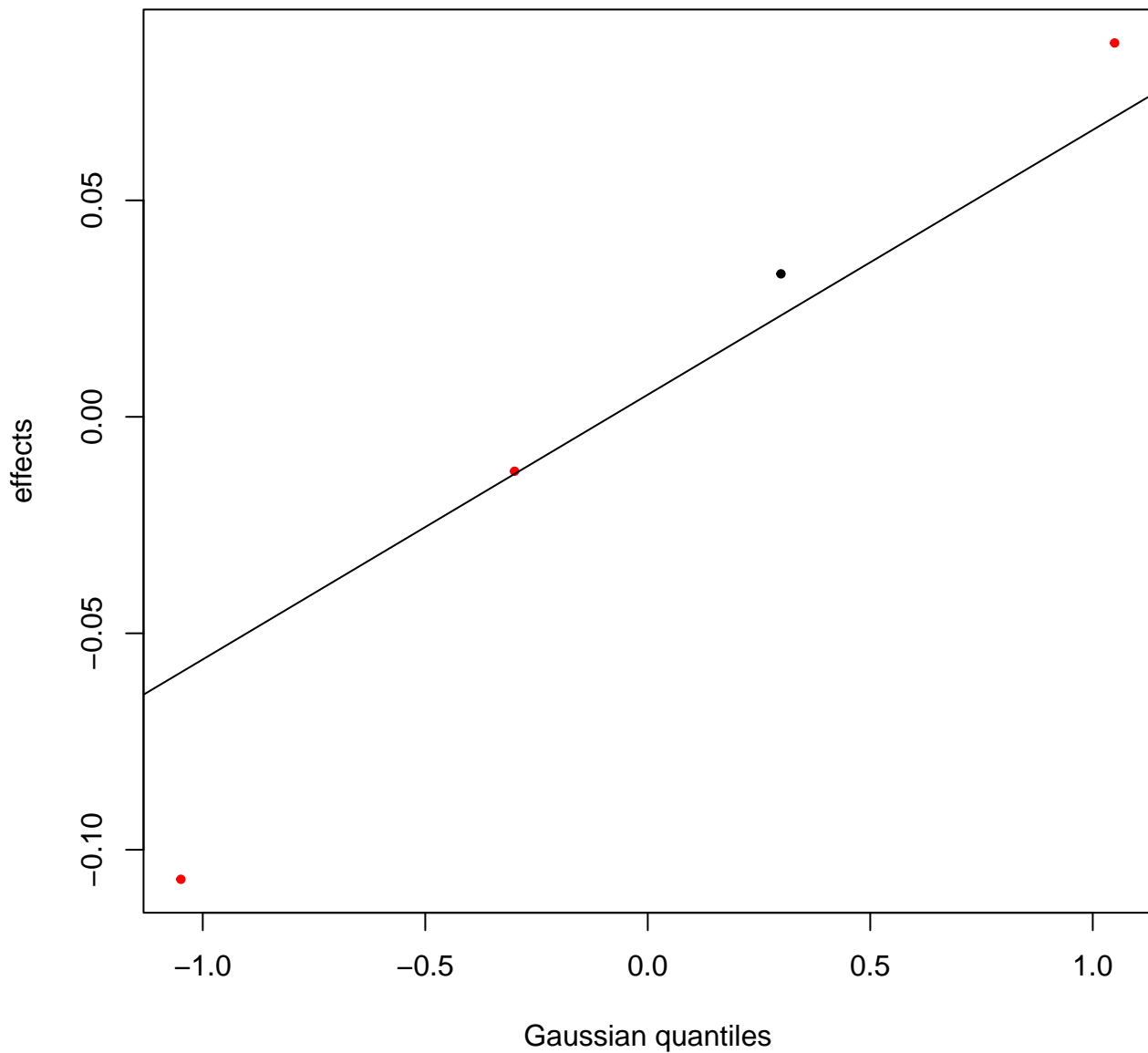
Bites in cyno

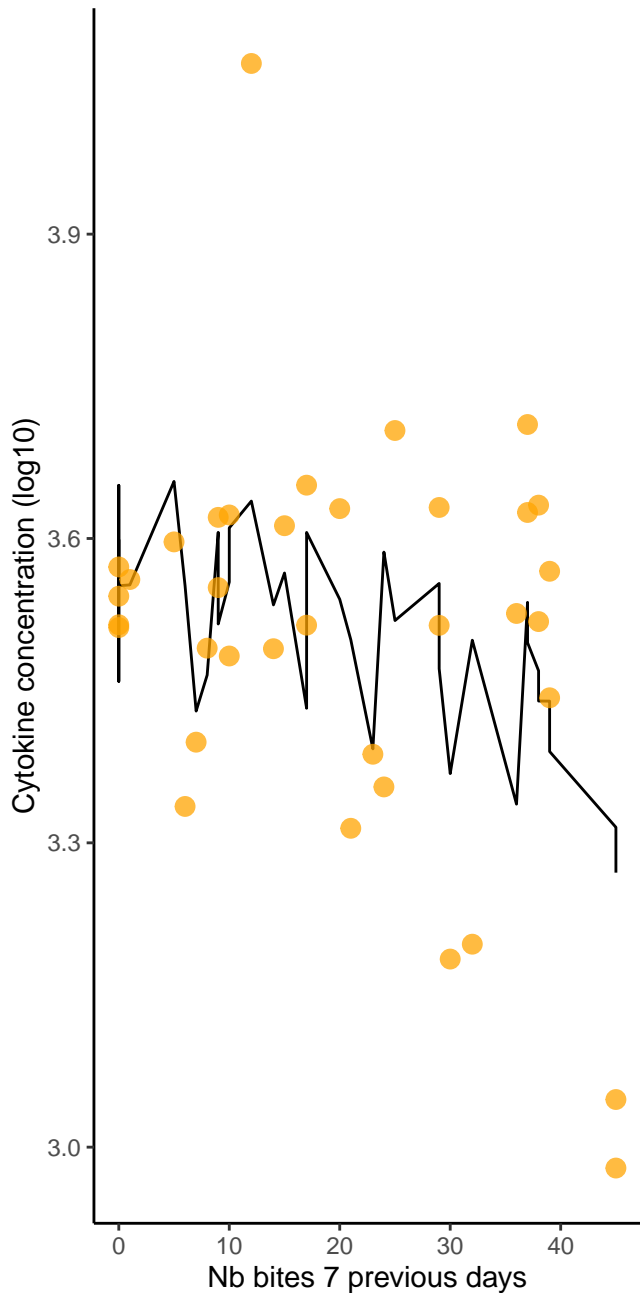
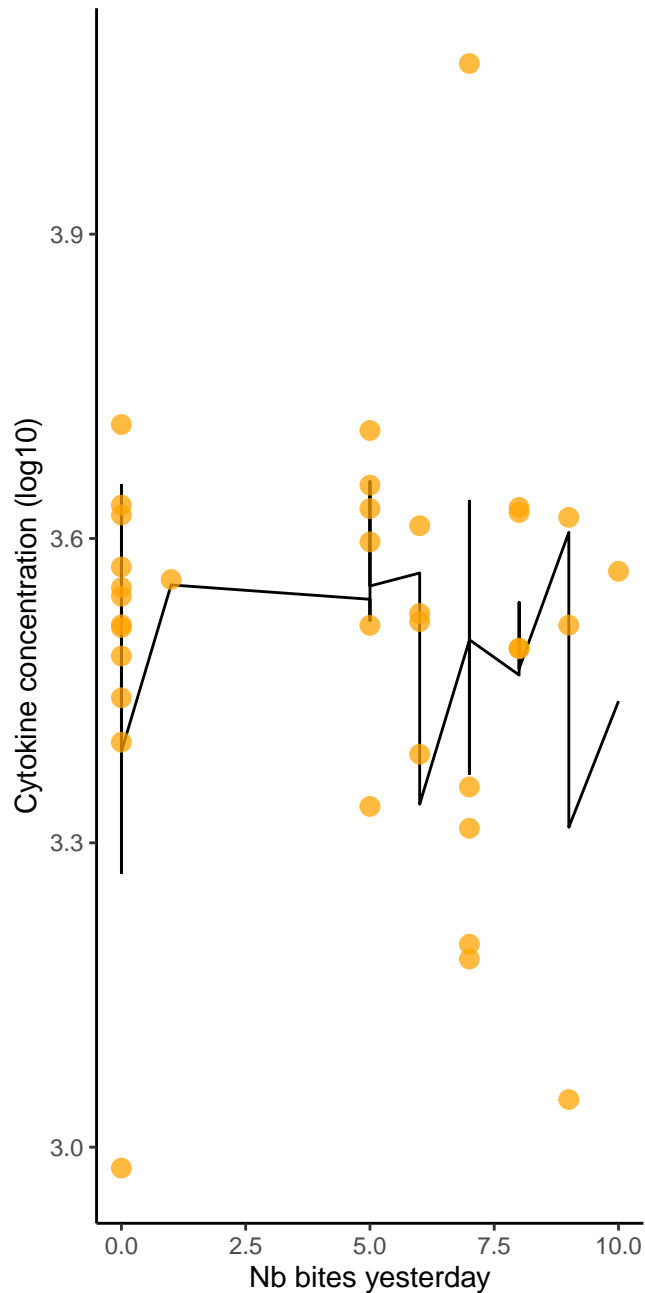
Nb obs : 36

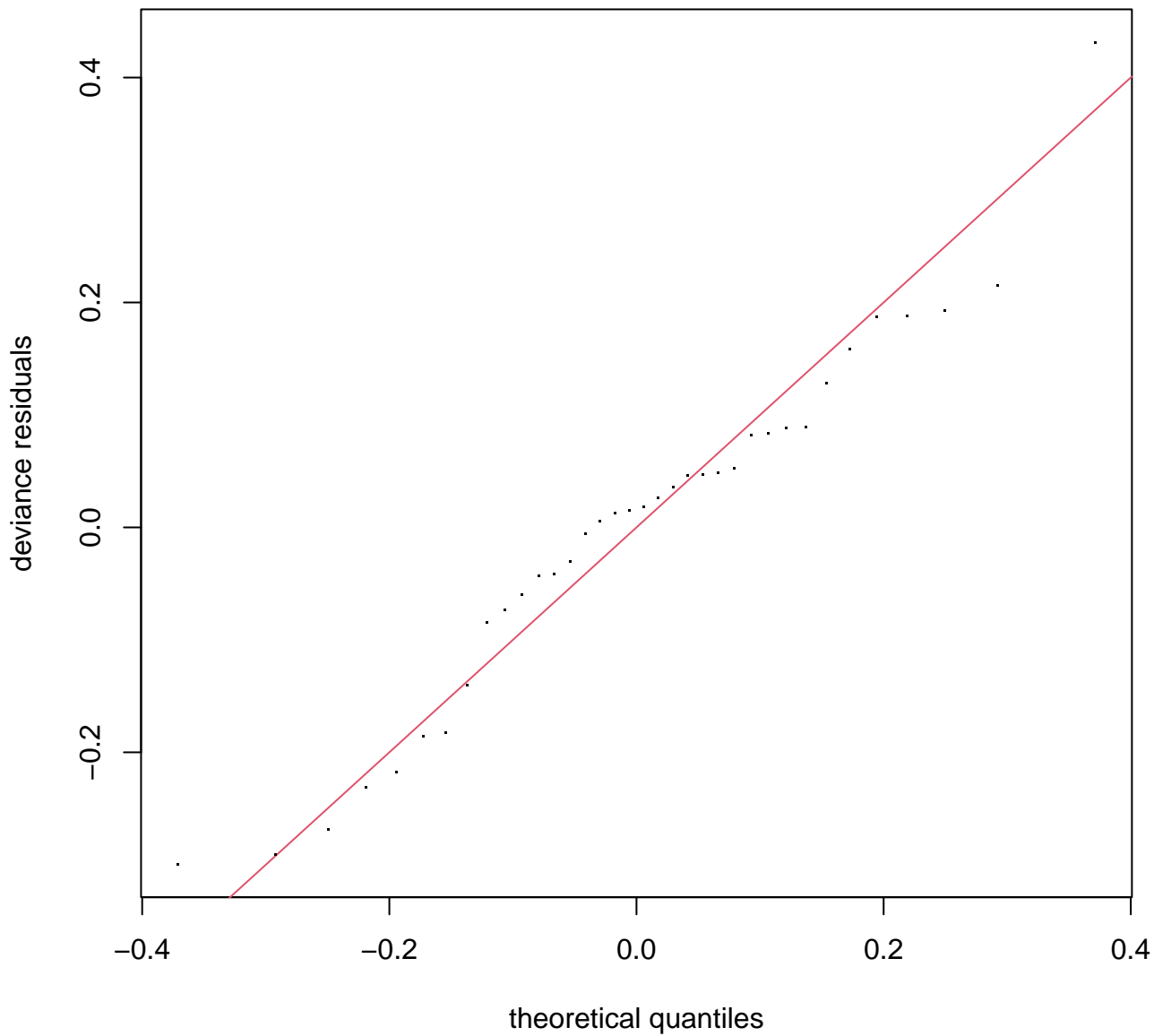




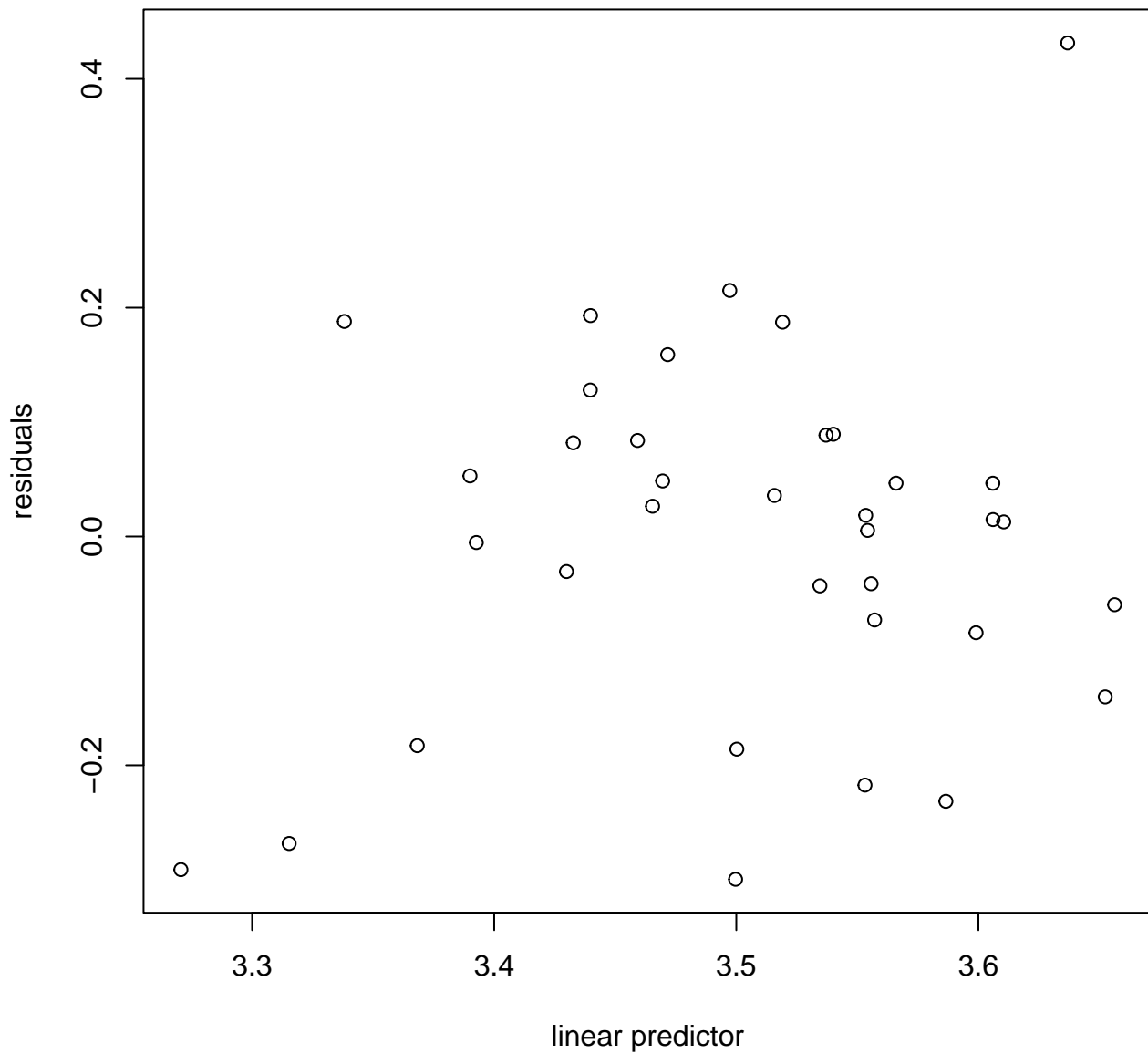
s(ID,2.12)



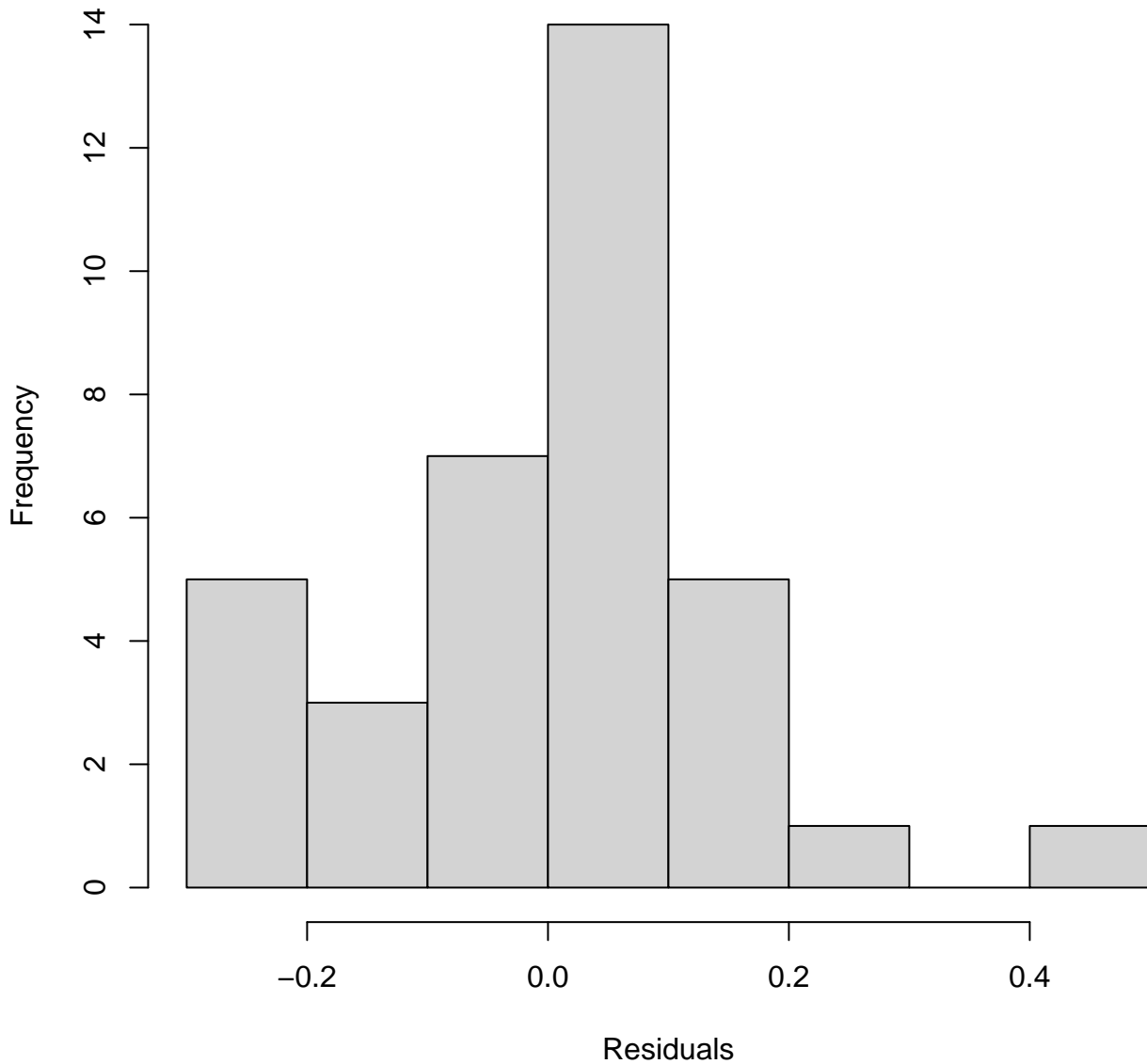




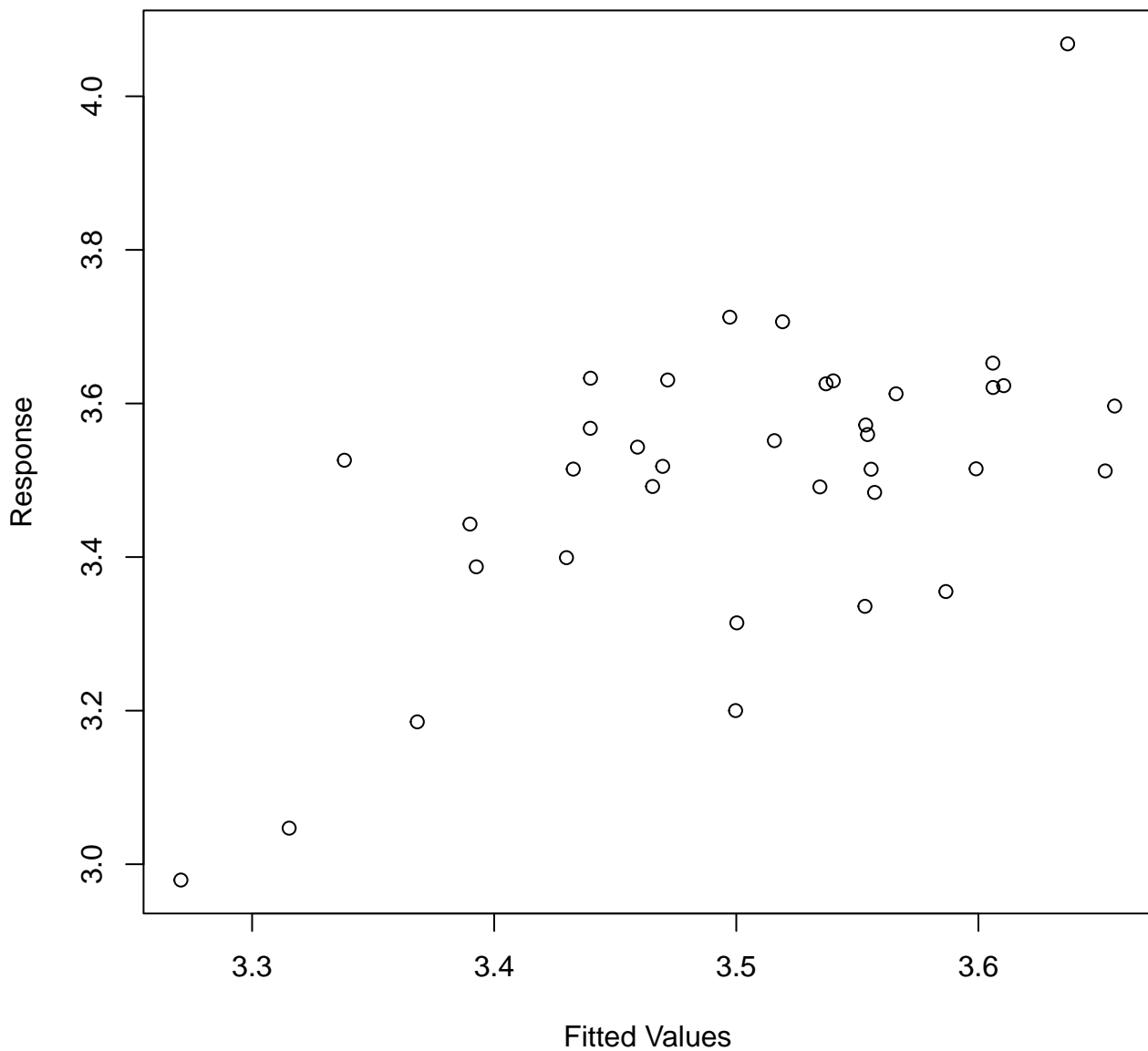
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 13 iterations.
 Gradient range [-3.764127e-06,6.881425e-07]
 (score -11.81336 & scale 0.02846092).
 Hessian positive definite, eigenvalue range [1.894229e-06,18.11682].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.18	0.80
s(cumul_bites_7_previous_days)	3.00	1.00	0.93	0.28
s(ID)	4.00	2.12	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	3.50332	0.05196	67.42	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.343	0.5626
s(cumul_bites_7_previous_days)	1.000	1	3.972	0.0551 .
s(ID)	2.115	3	2.968	0.0131 *

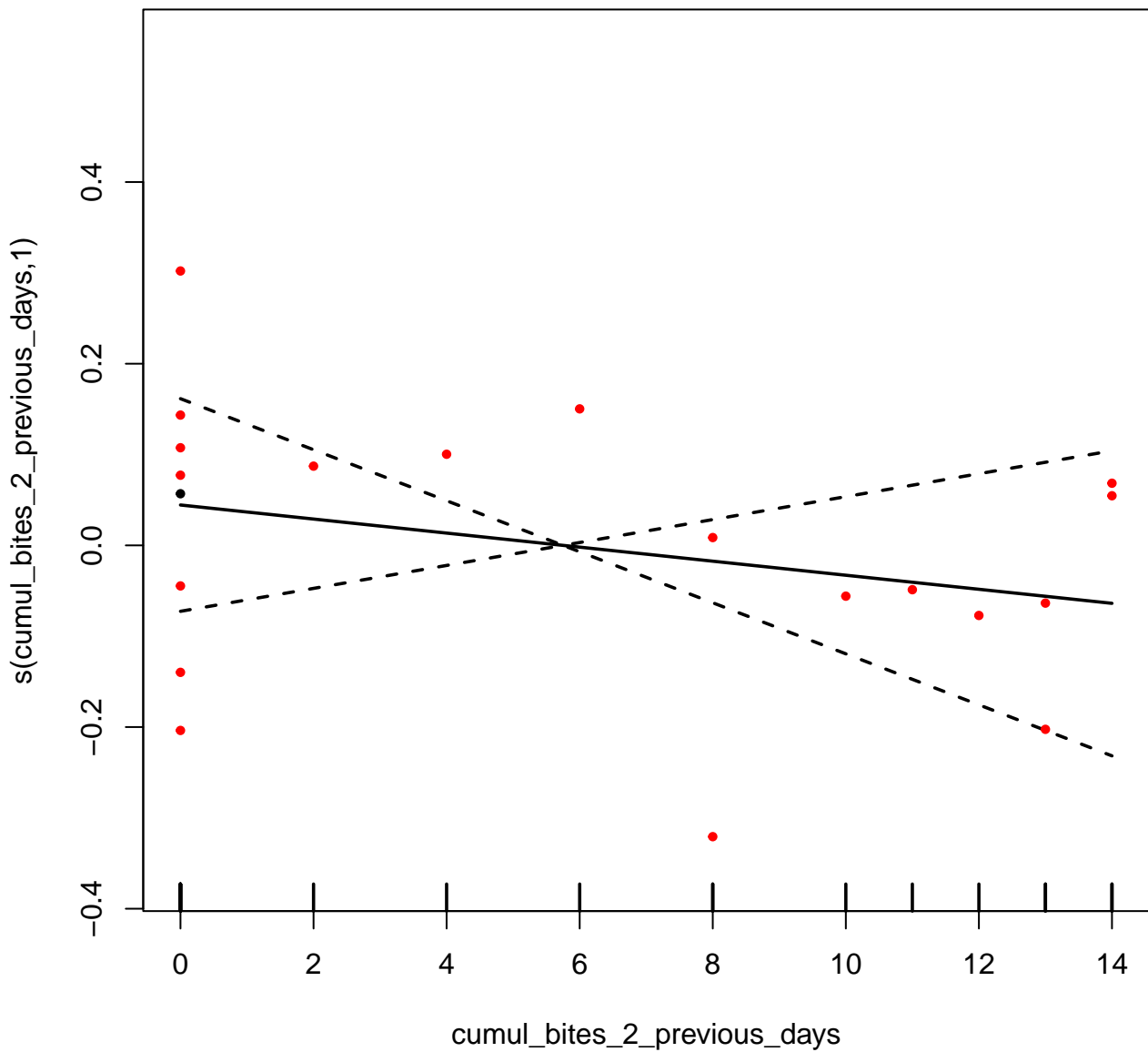
Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

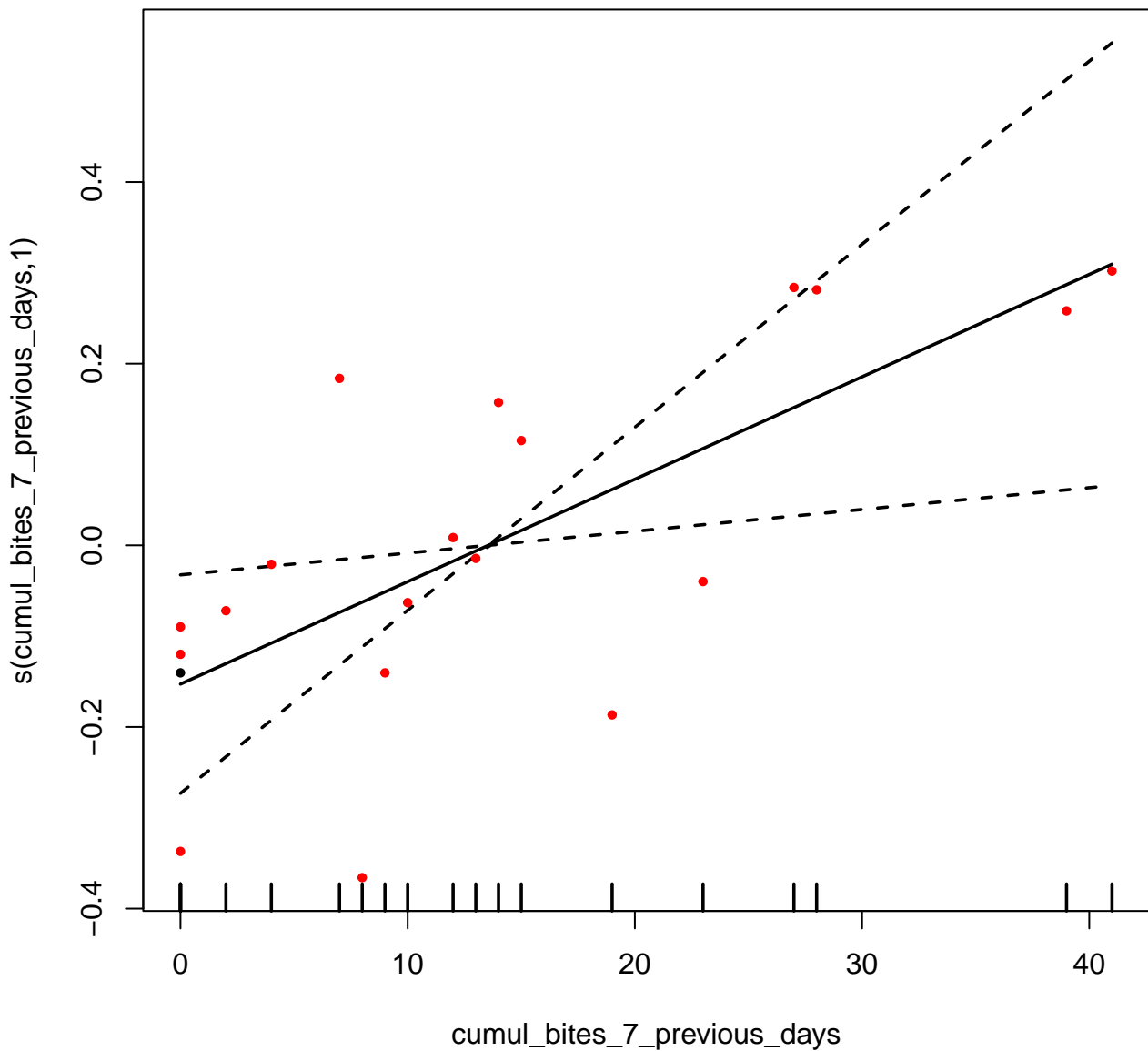
R-sq.(adj) = 0.26 Deviance explained = 34.7%
-ML = -11.813 Scale est. = 0.028461 n = 36

AICc [1] -14.31658

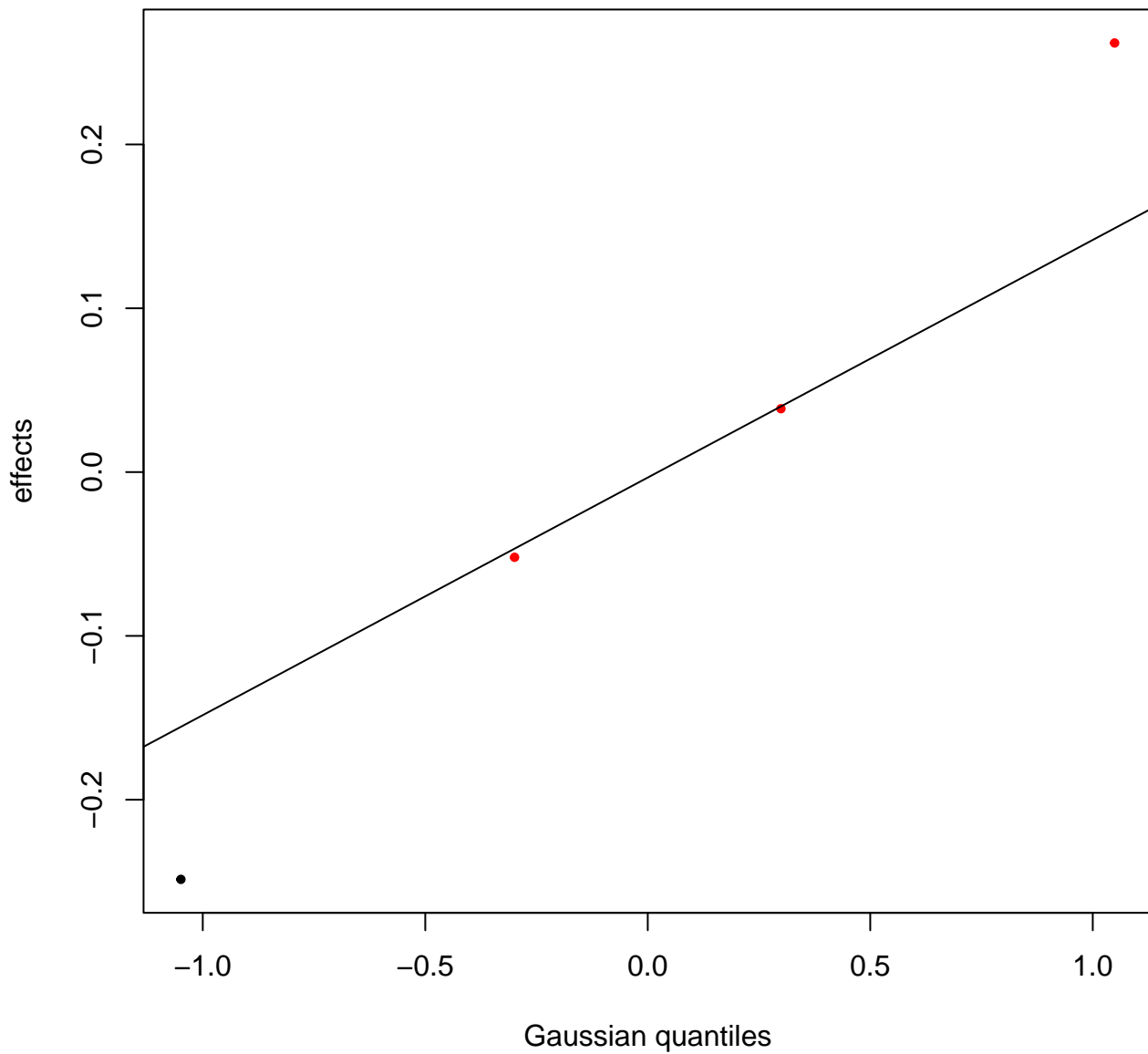
Bites in squirrel

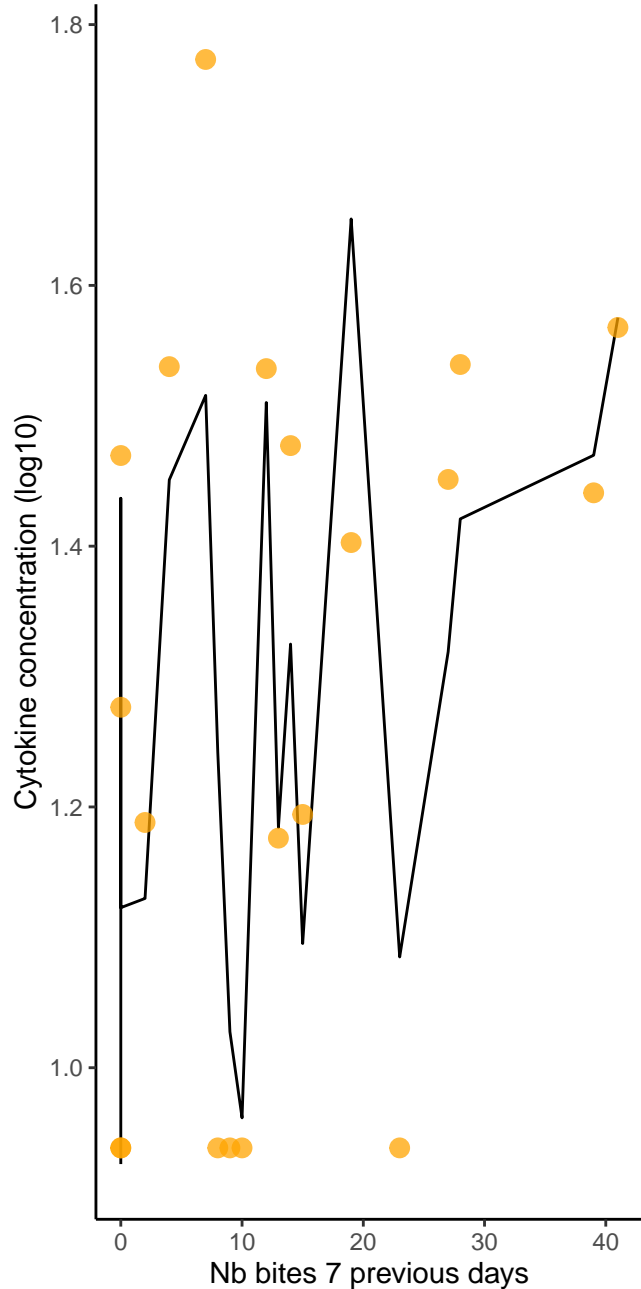
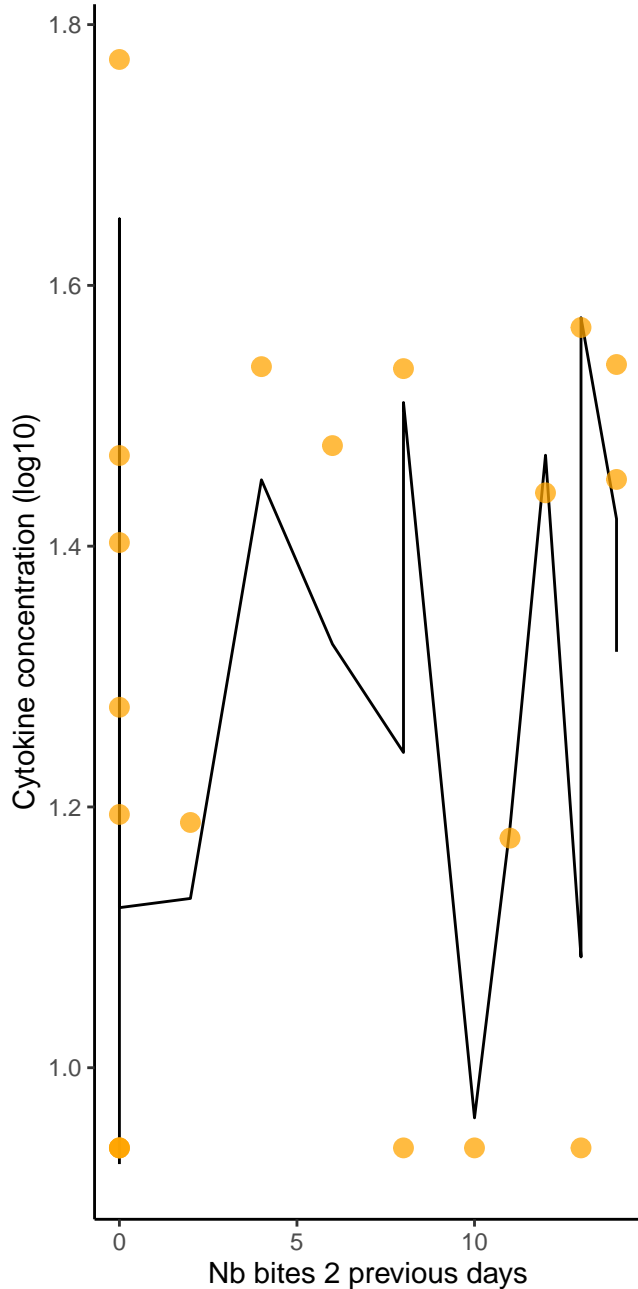
Nb obs : 20

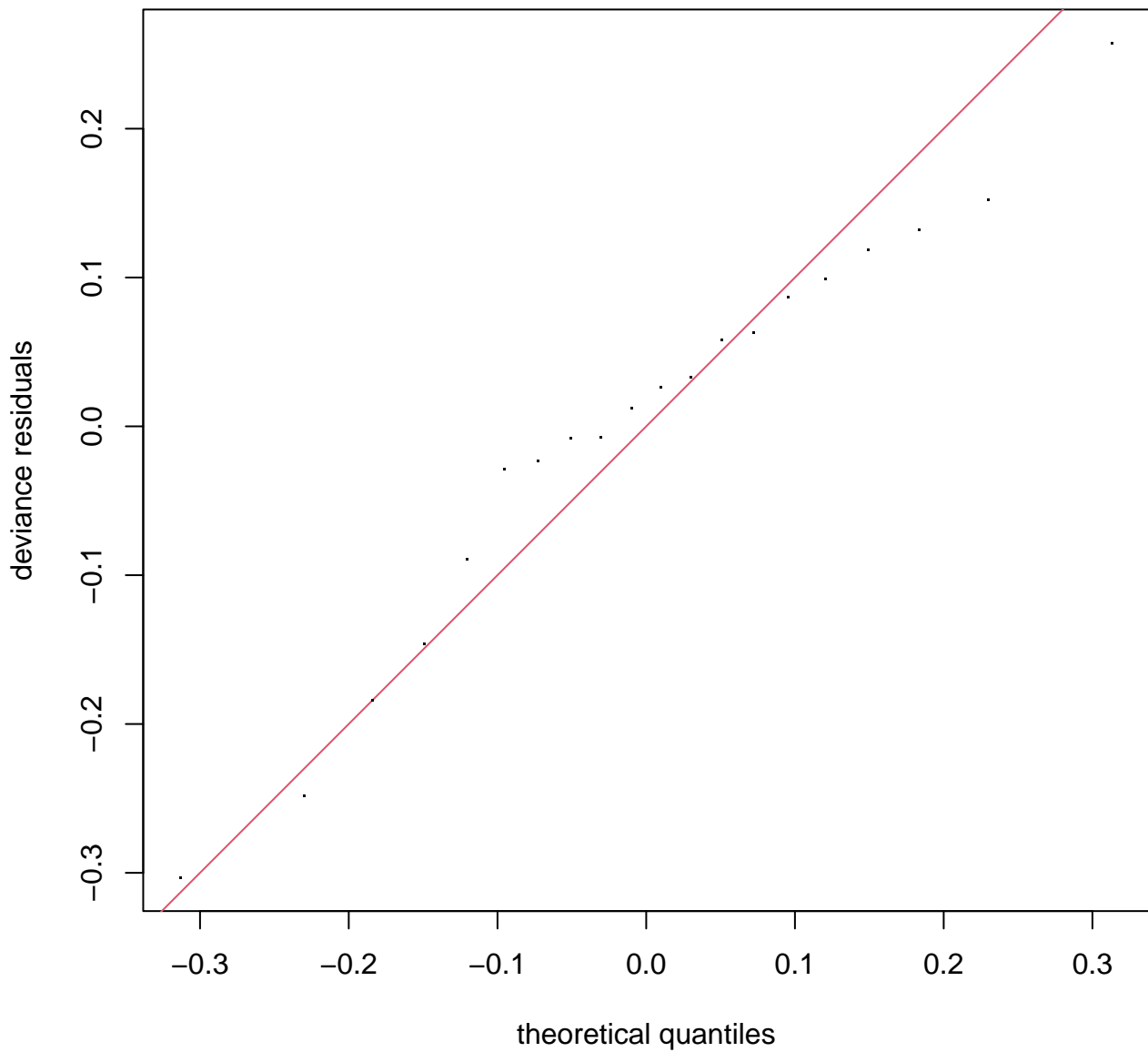




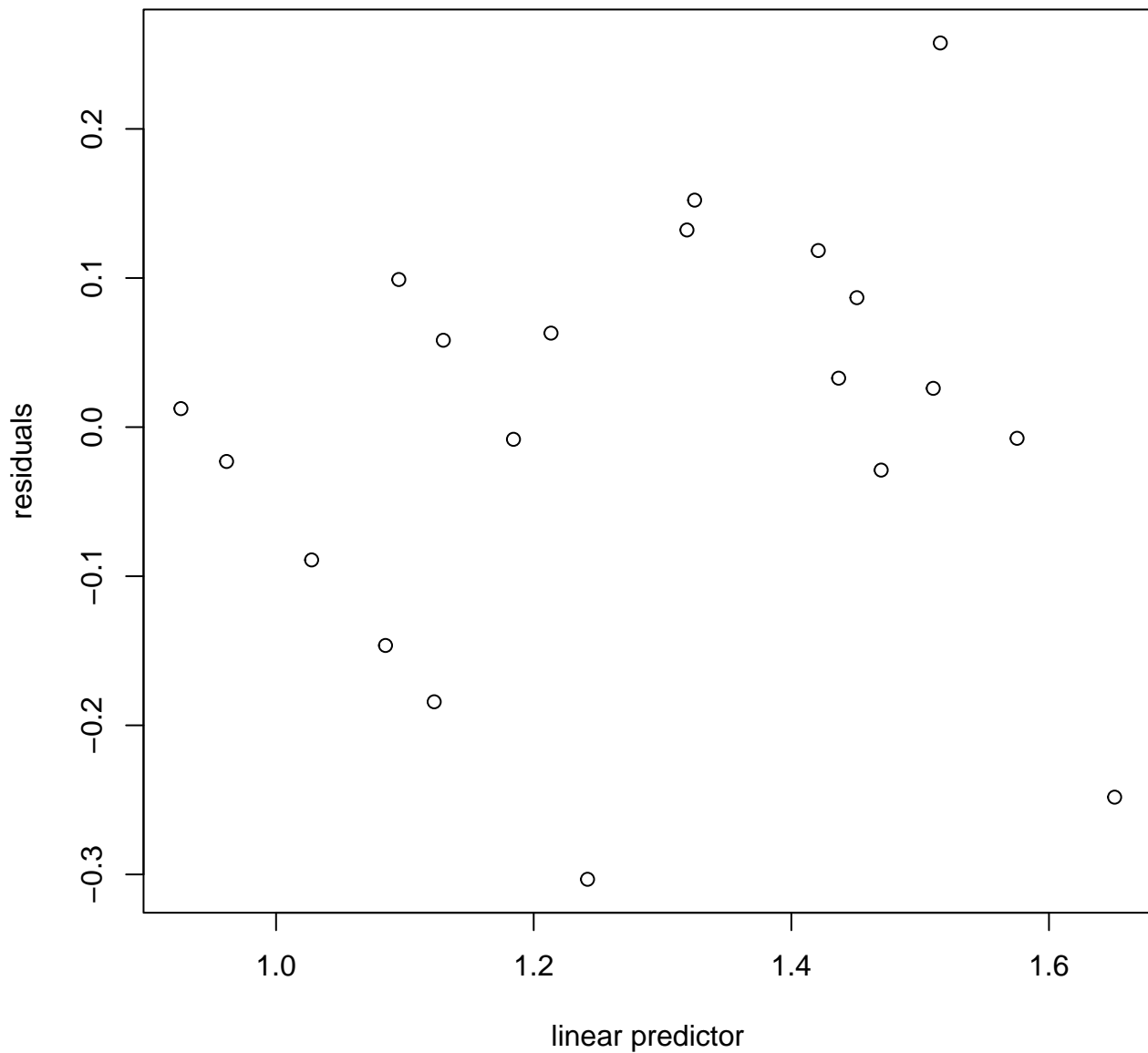
s(ID,2.66)



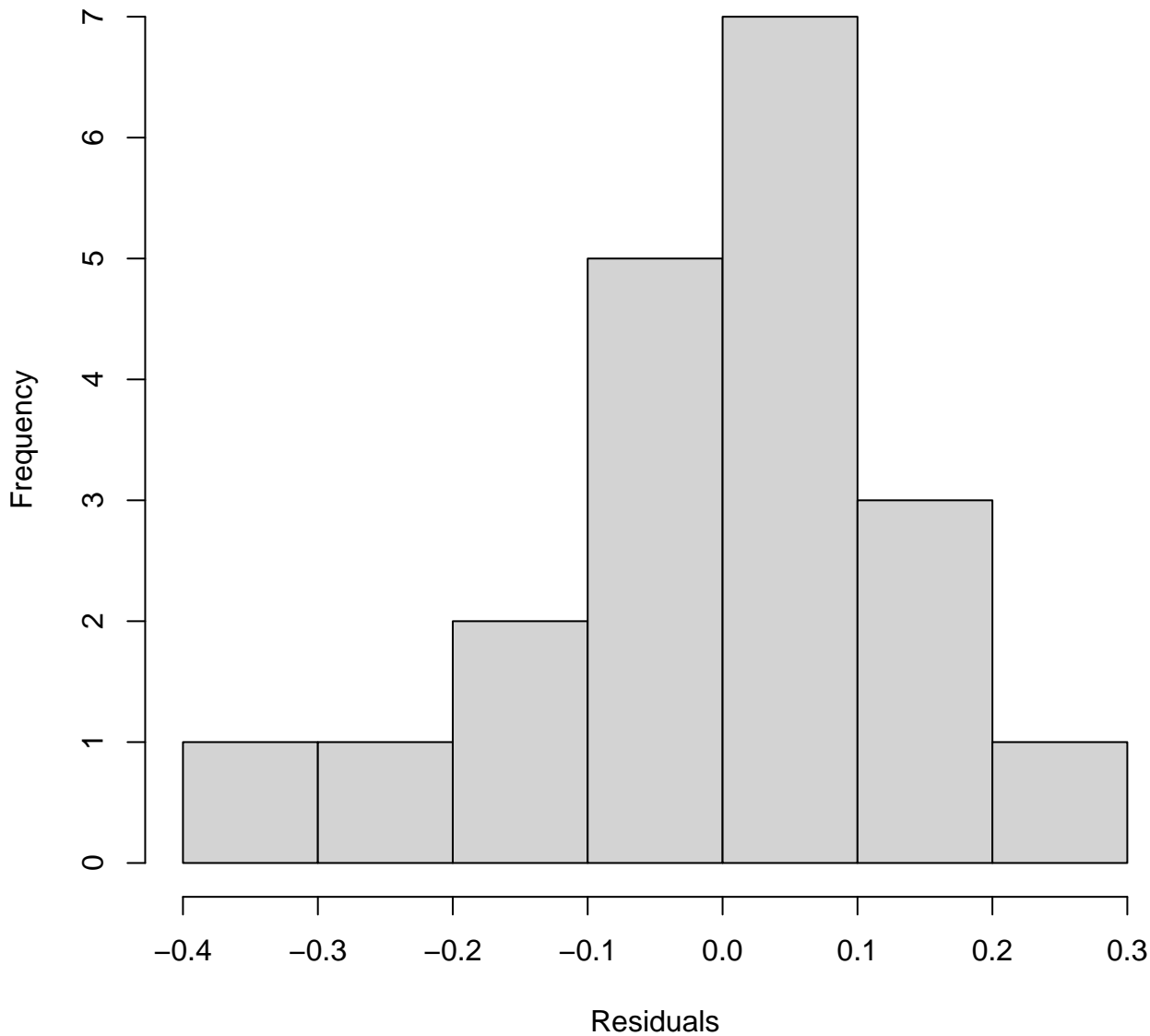




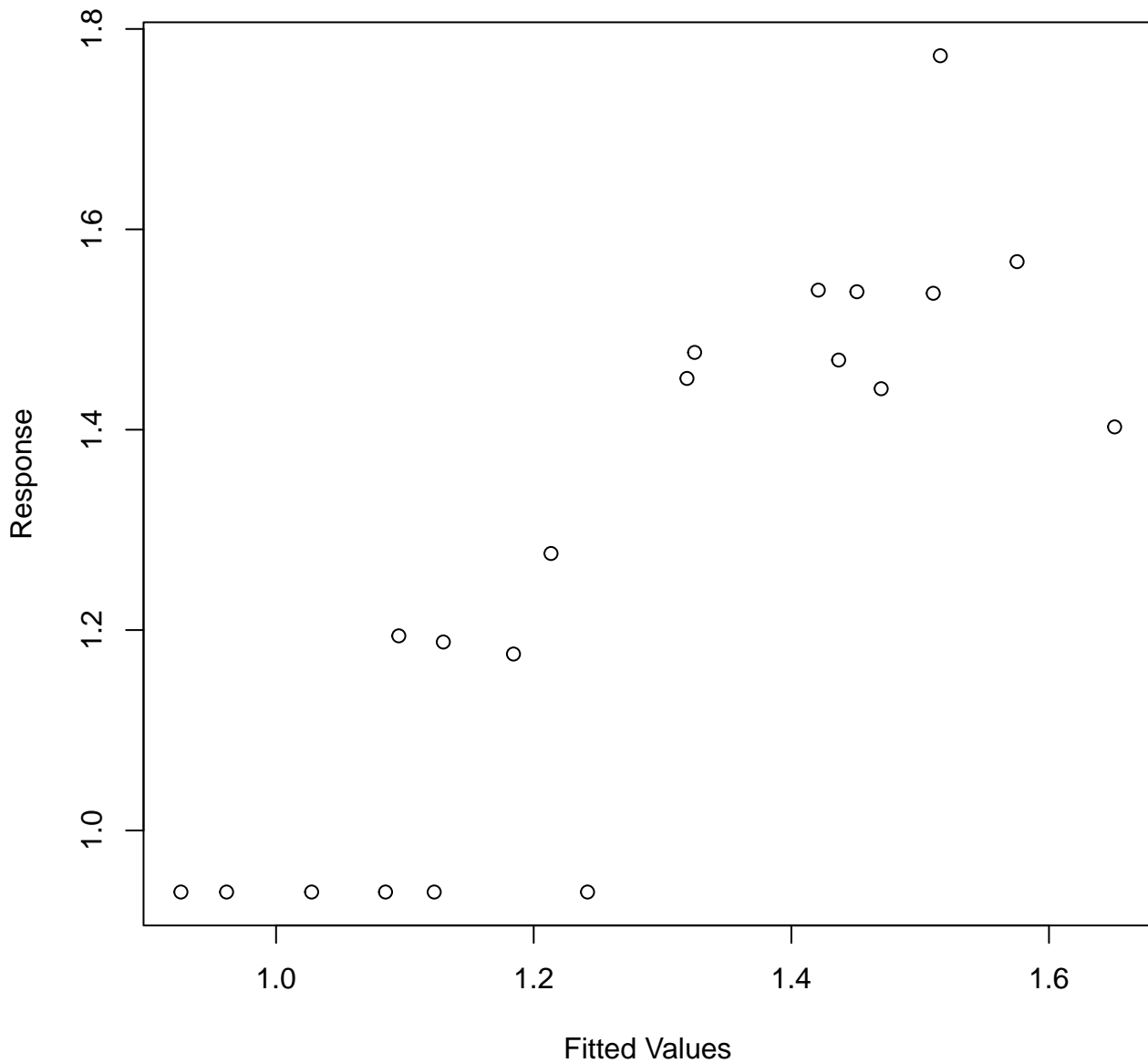
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 13 iterations.
 Gradient range [-2.979423e-06,1.534391e-07]
 (score -5.167904 & scale 0.02552625).
 Hessian positive definite, eigenvalue range [1.344597e-06,10.36444].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(cumul_bites_2_previous_days)	3.00	1.00	1.14	0.60
s(cumul_bites_7_previous_days)	3.00	1.00	1.10	0.56
s(ID)	4.00	2.66	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(cumul_bites_2_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.06	[1.00, 15.02]	1.03	0.94	[0.07, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(cumul_bites_2_previous_days, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.2831	0.1098	11.69	1.02e-08 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(cumul_bites_2_previous_days)	1.000	1	0.577	0.460048
s(cumul_bites_7_previous_days)	1.000	1	6.455	0.023541 *
s(ID)	2.661	3	9.627	0.000602 ***

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

R-sq.(adj) = 0.653 Deviance explained = 73.8%

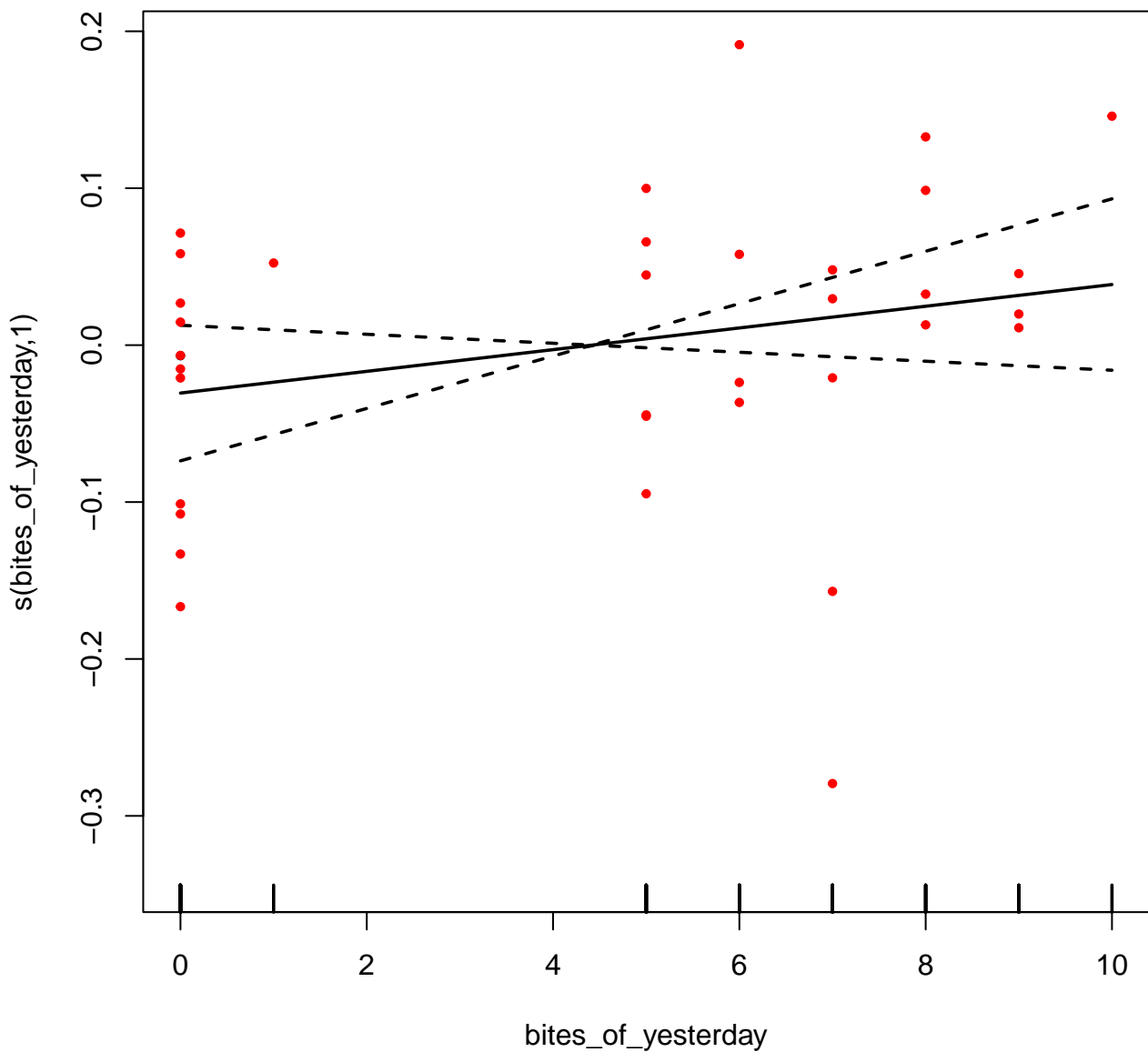
-ML = -5.1679 Scale est. = 0.025526 n = 20

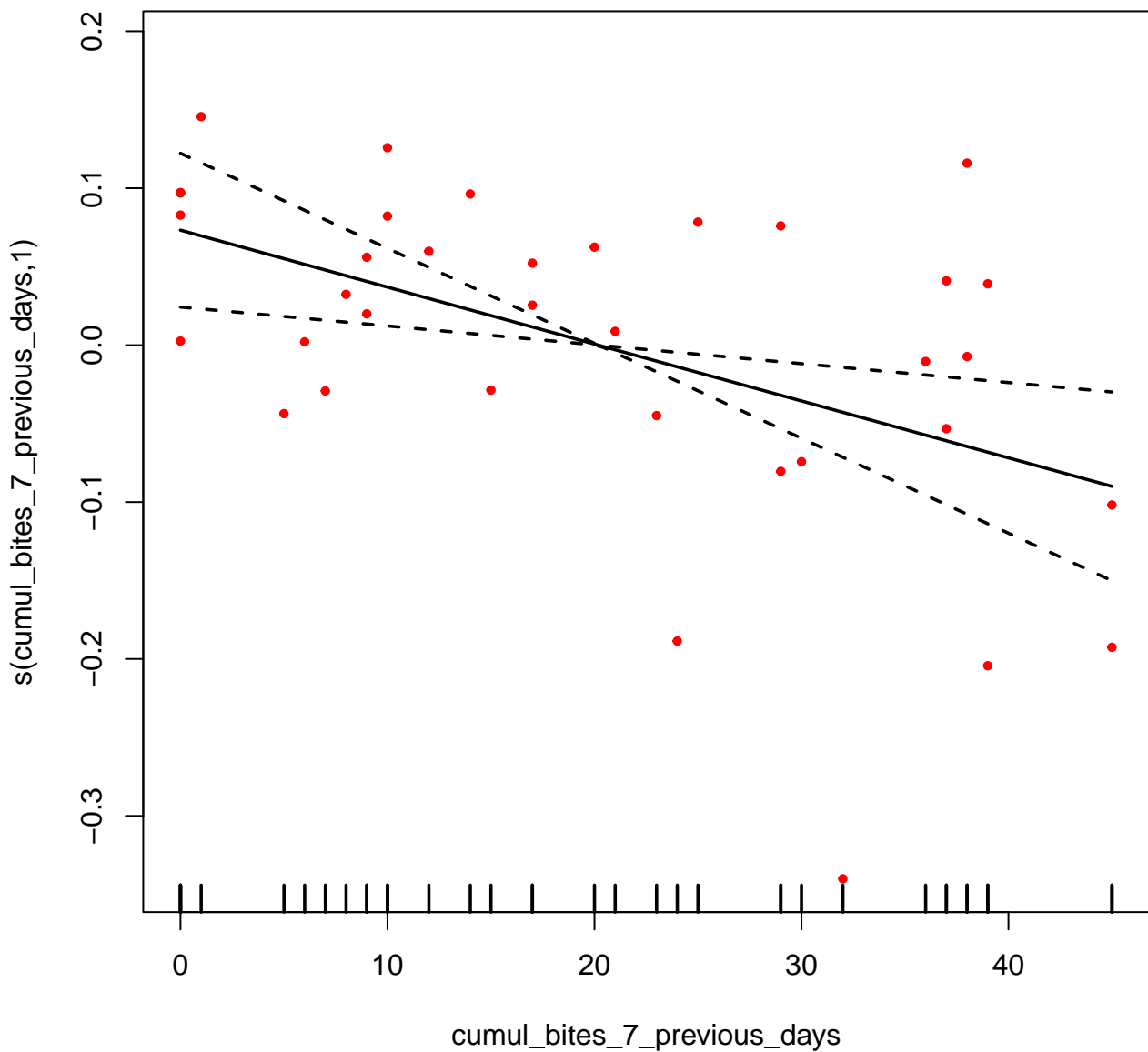
AICc [1] -0.2788531

TGFbeta

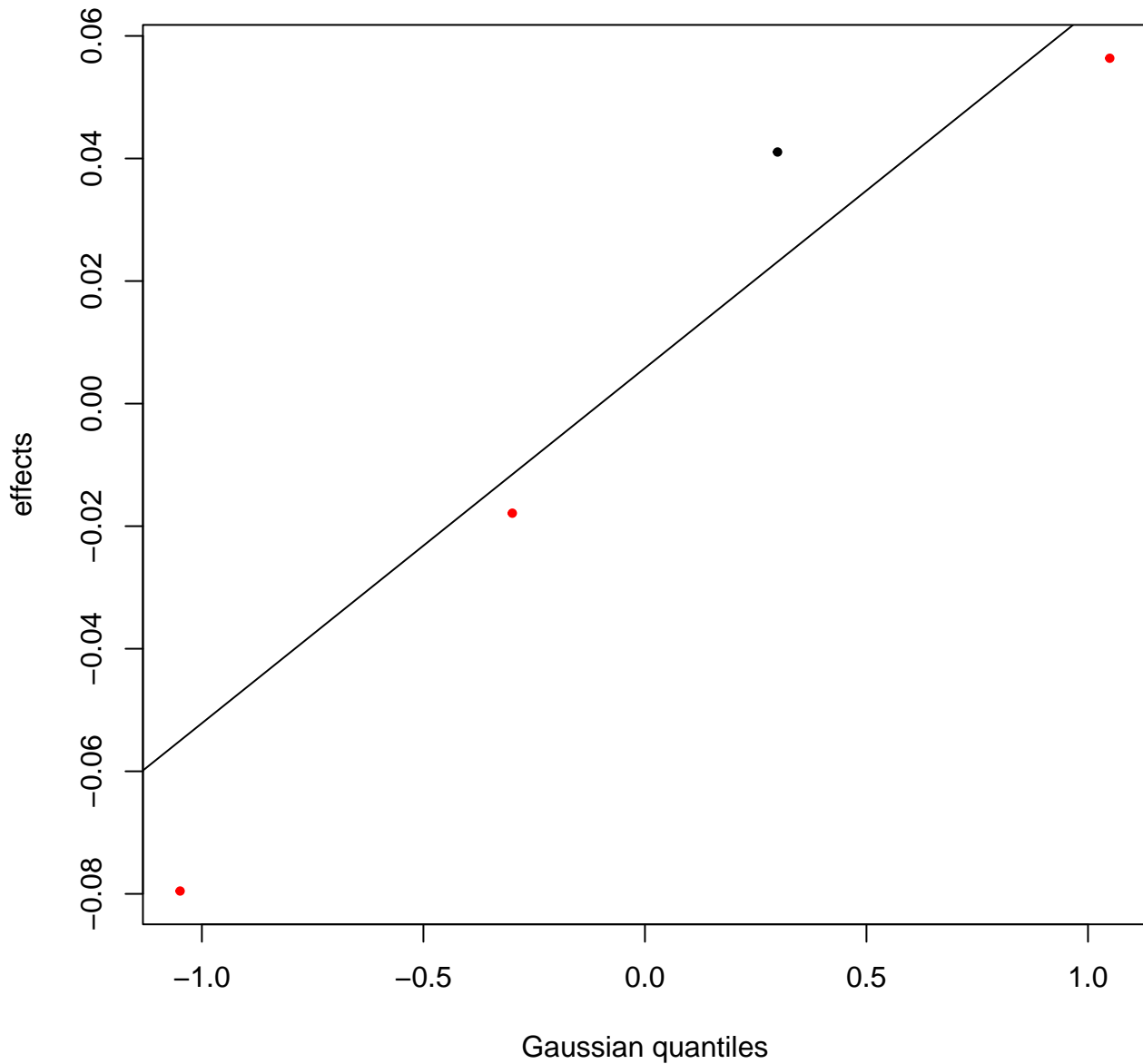
Bites in cyno

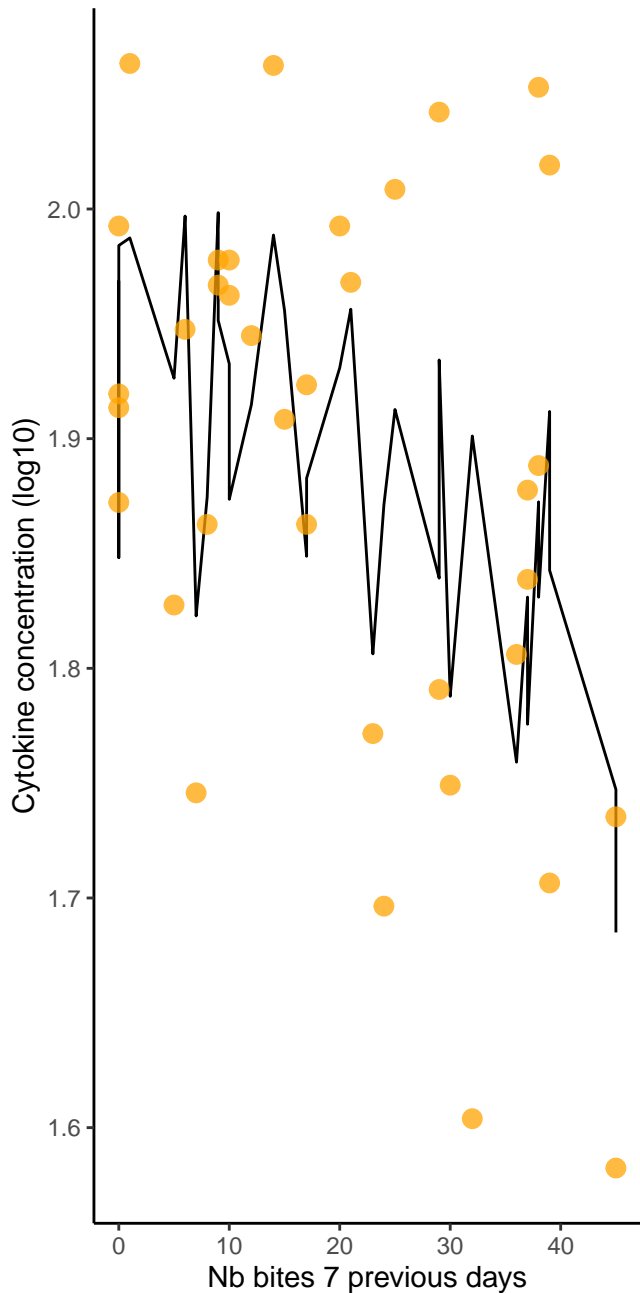
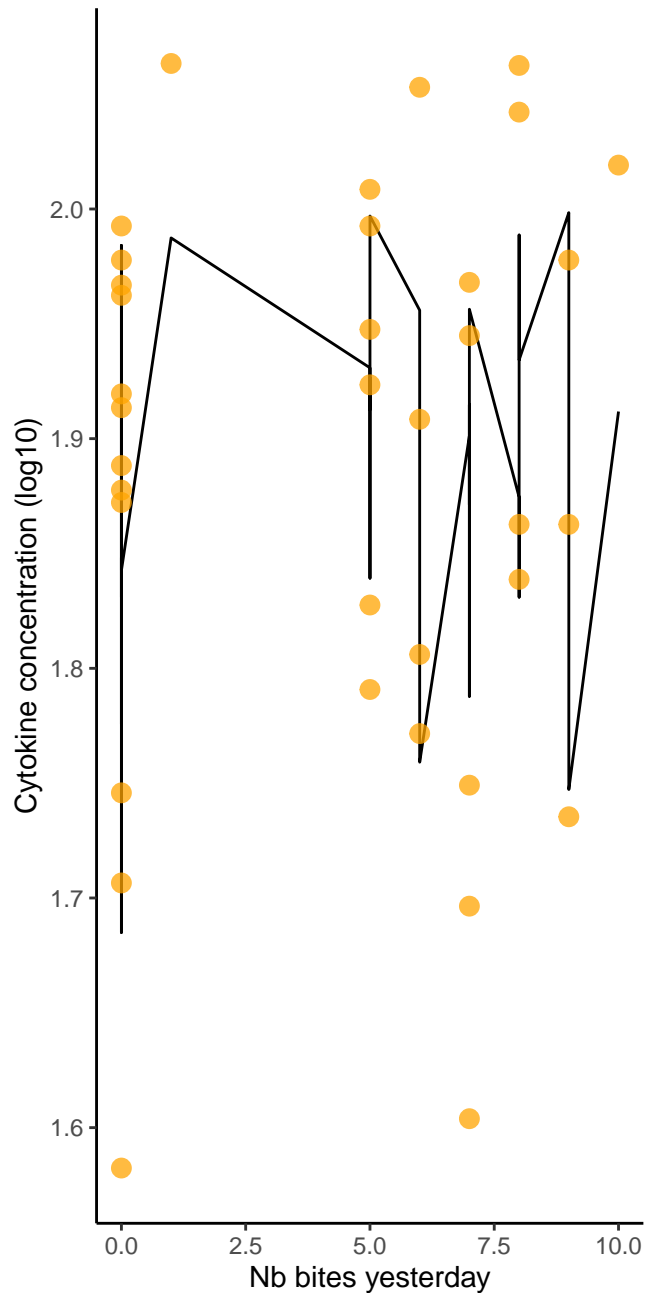
Nb obs : 36

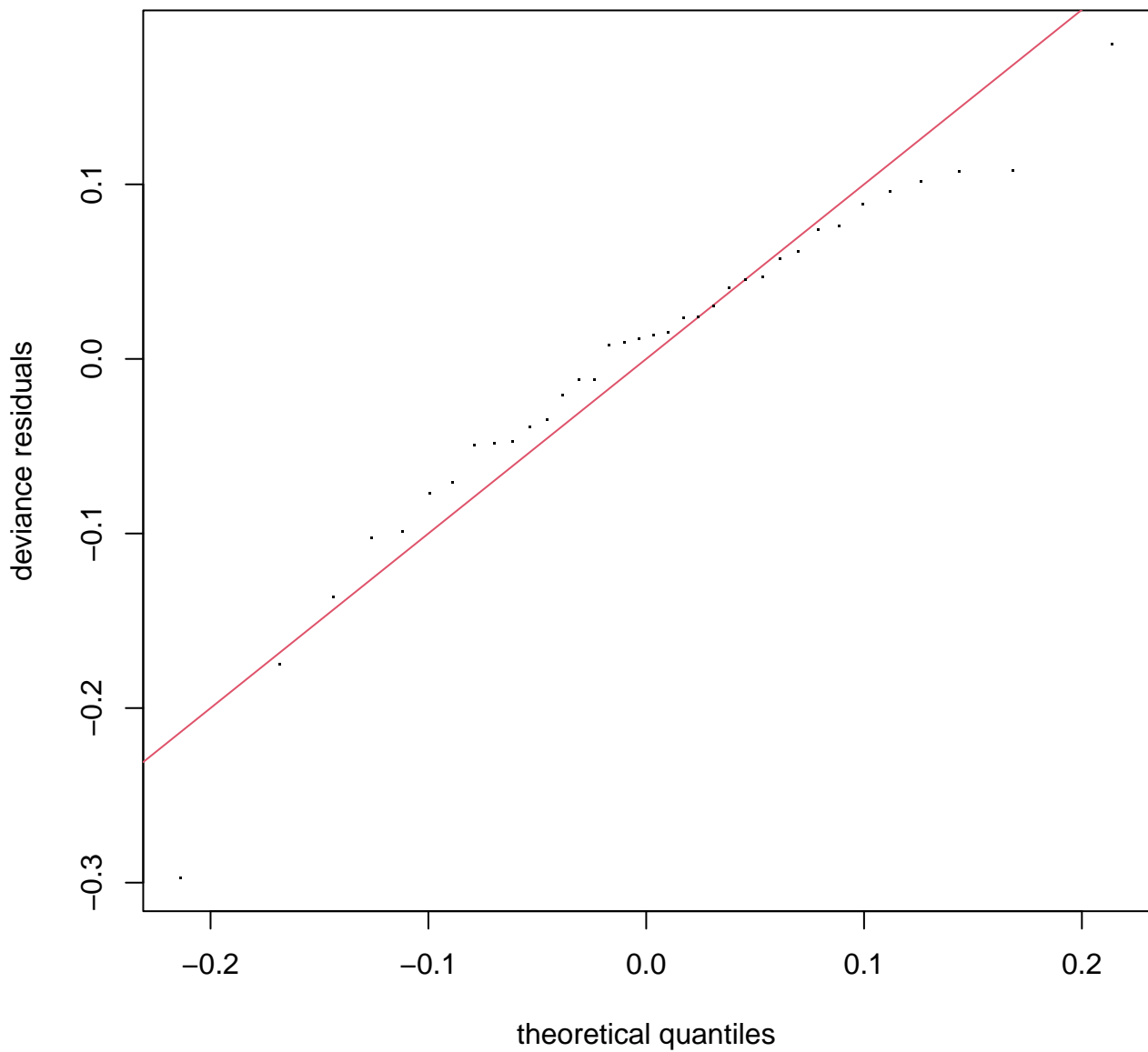




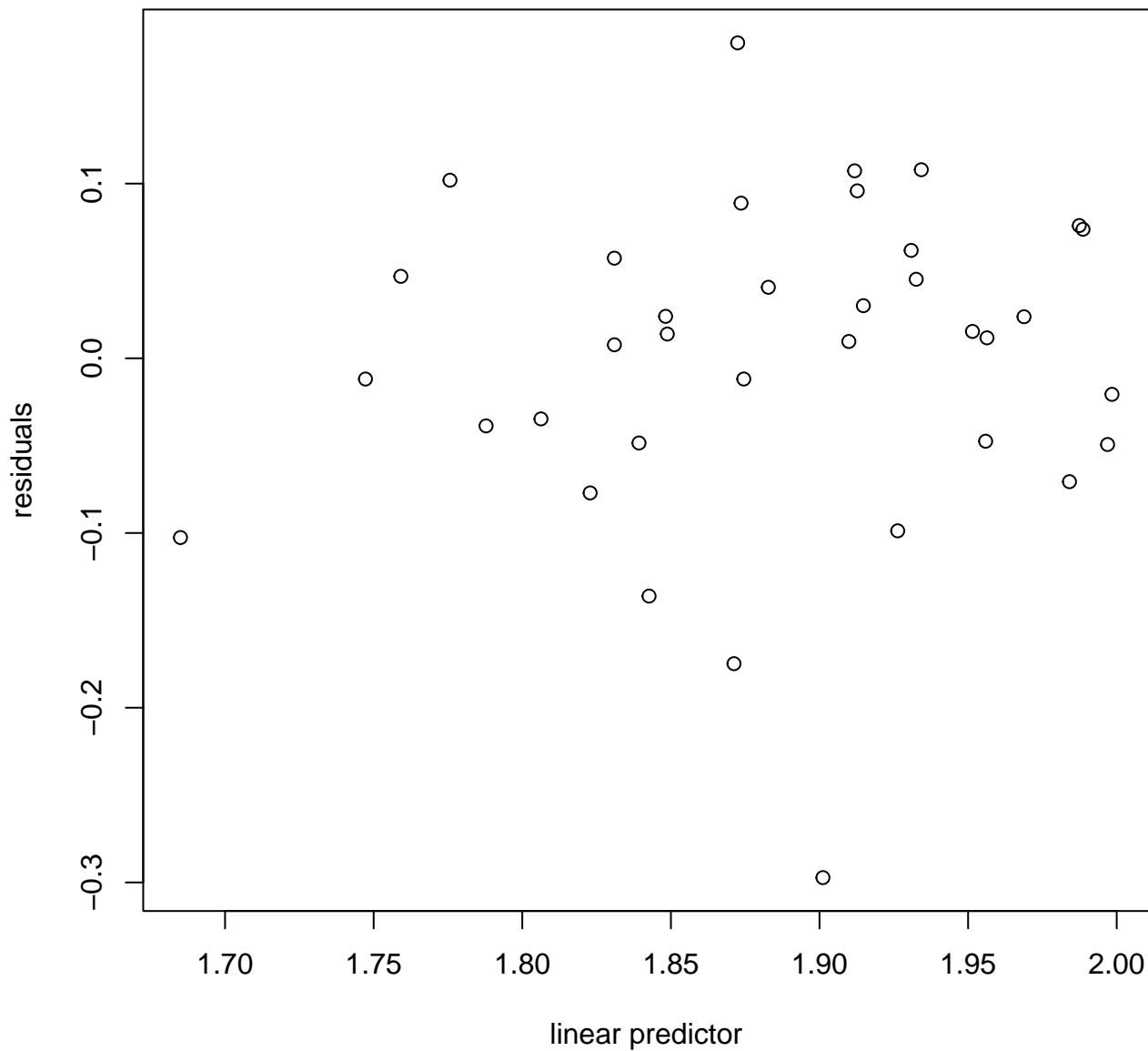
s(ID,2.36)



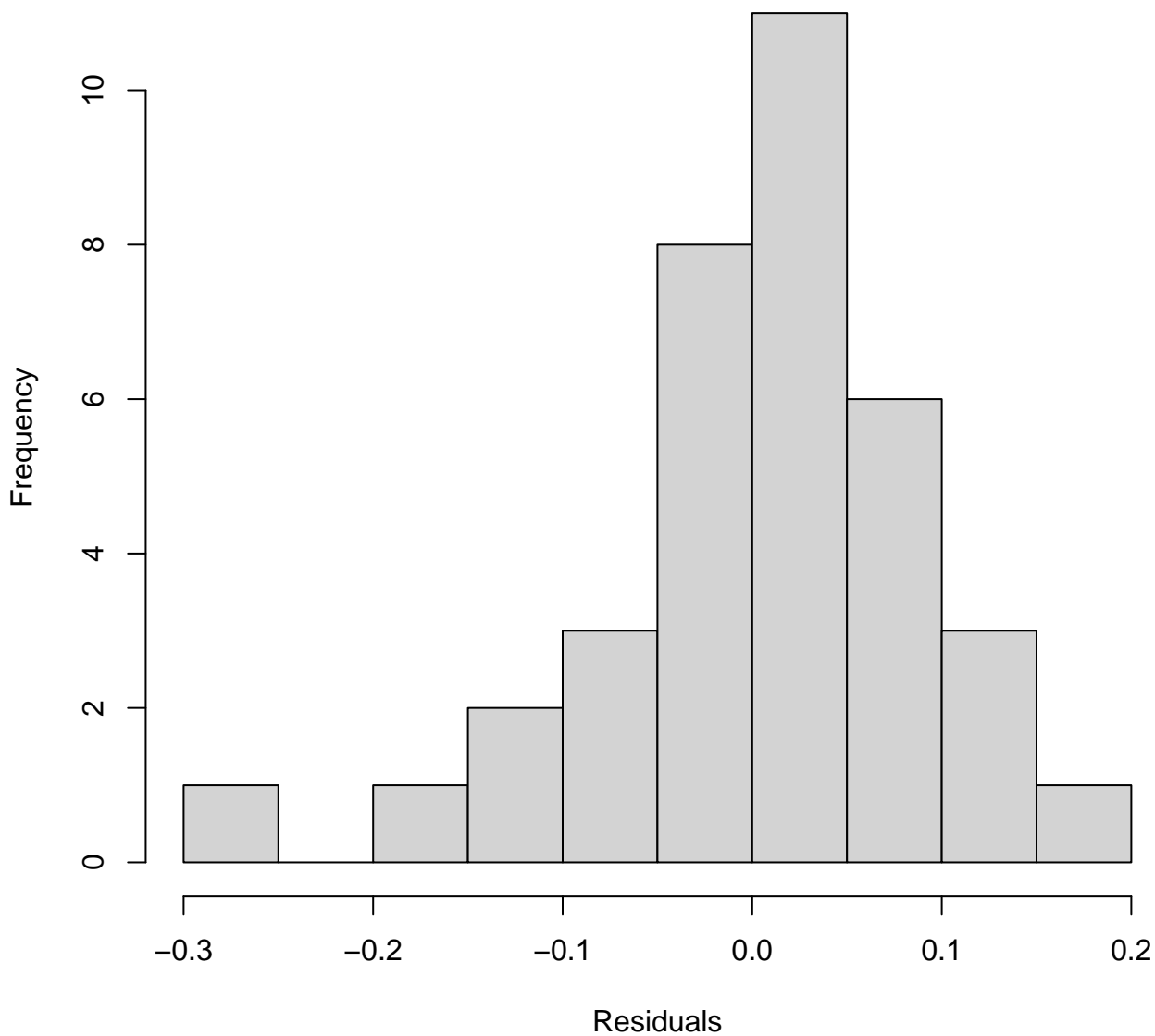




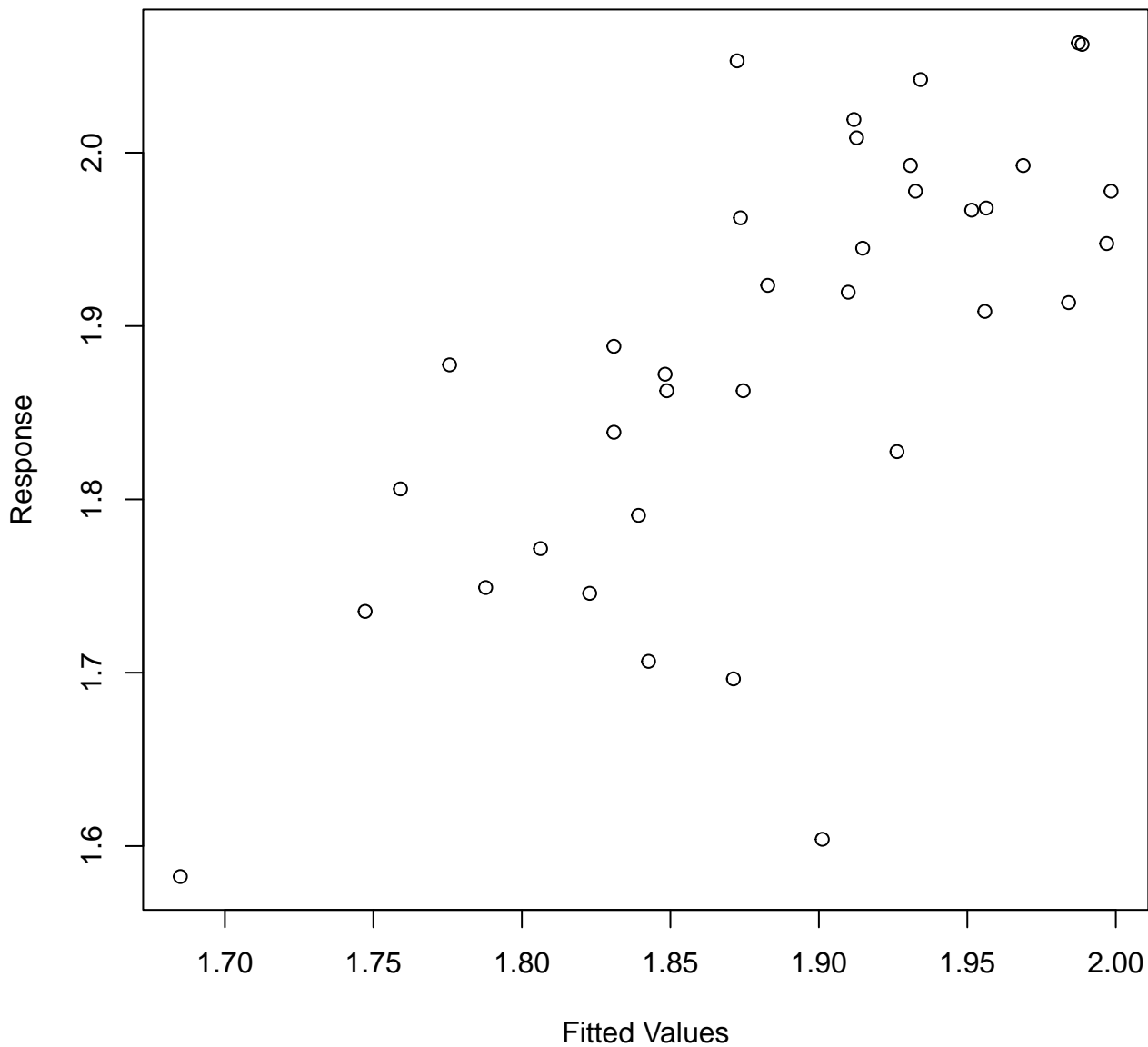
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 12 iterations.
 Gradient range [-6.829766e-06,4.496022e-07]
 (score -30.98978 & scale 0.009441773).
 Hessian positive definite, eigenvalue range [3.872079e-06,18.14705].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	1.09	0.66
s(cumul_bites_7_previous_days)	3.00	1.00	1.00	0.37
s(ID)	4.00	2.36	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.88505	0.03522	53.53	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	2.000	0.16727
s(cumul_bites_7_previous_days)	1.000	1	8.954	0.00539 **
s(ID)	2.361	3	4.580	0.00282 **

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

R-sq.(adj) = 0.403 Deviance explained = 47.8%
-ML = -30.99 Scale est. = 0.0094418 n = 36

AICc [1] -53.93073

Bites in squirrel

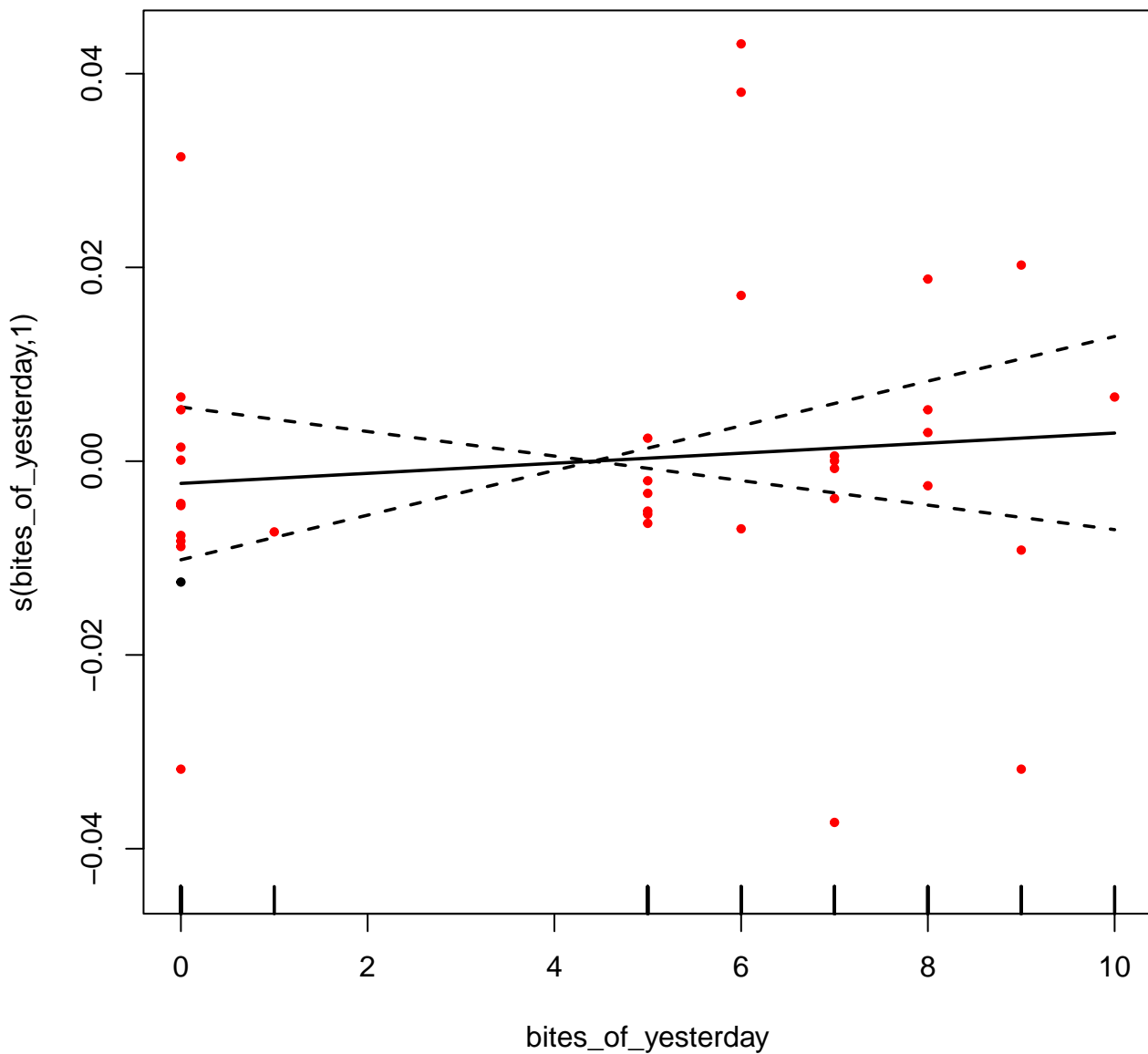
Nb obs : 20

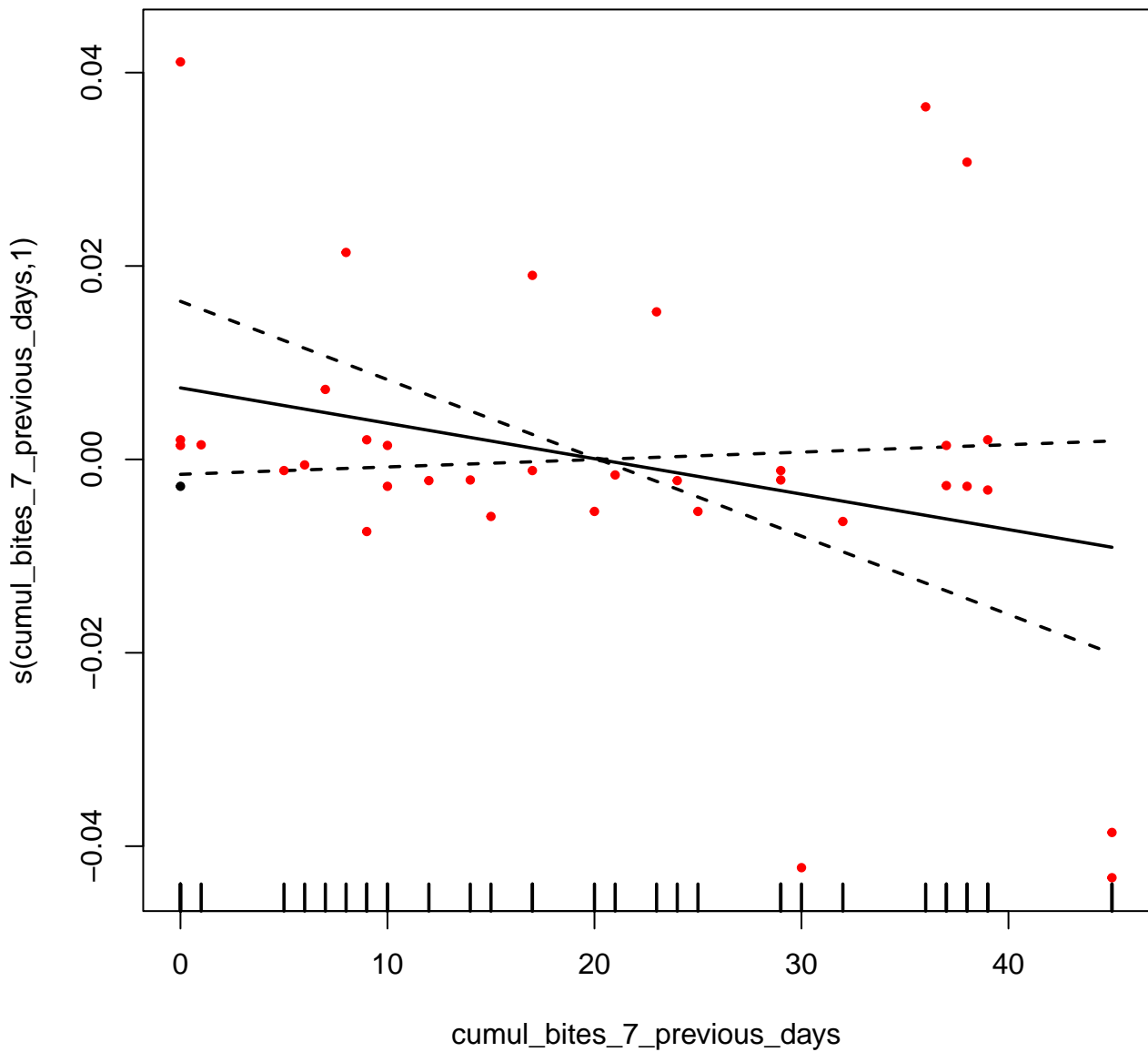
TGFbeta ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

TNF. *alpha*

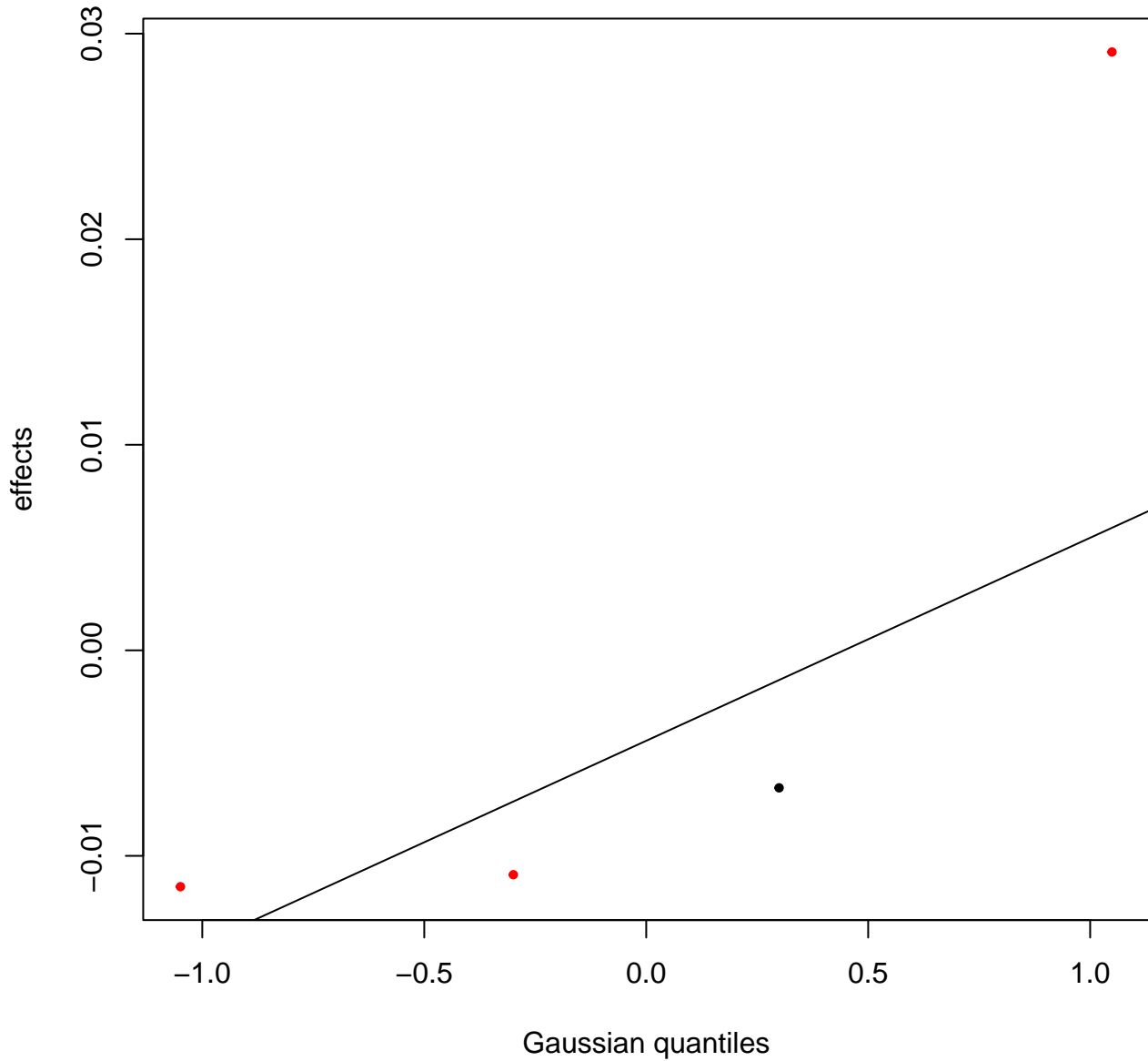
Bites in cyno

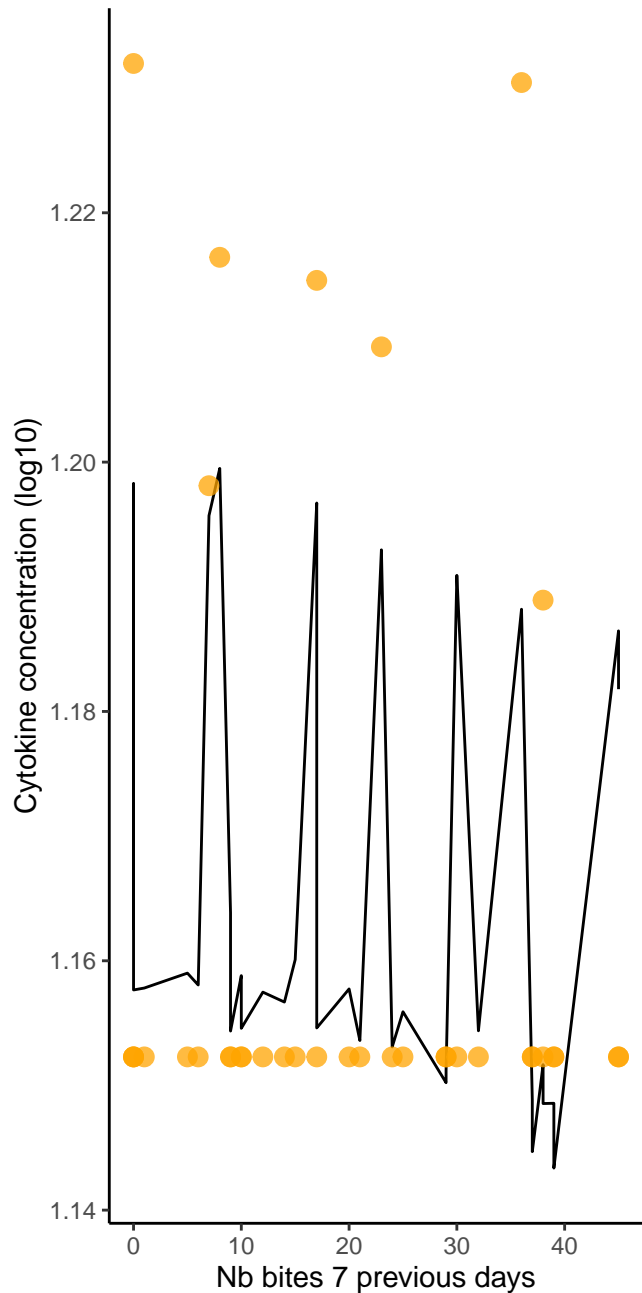
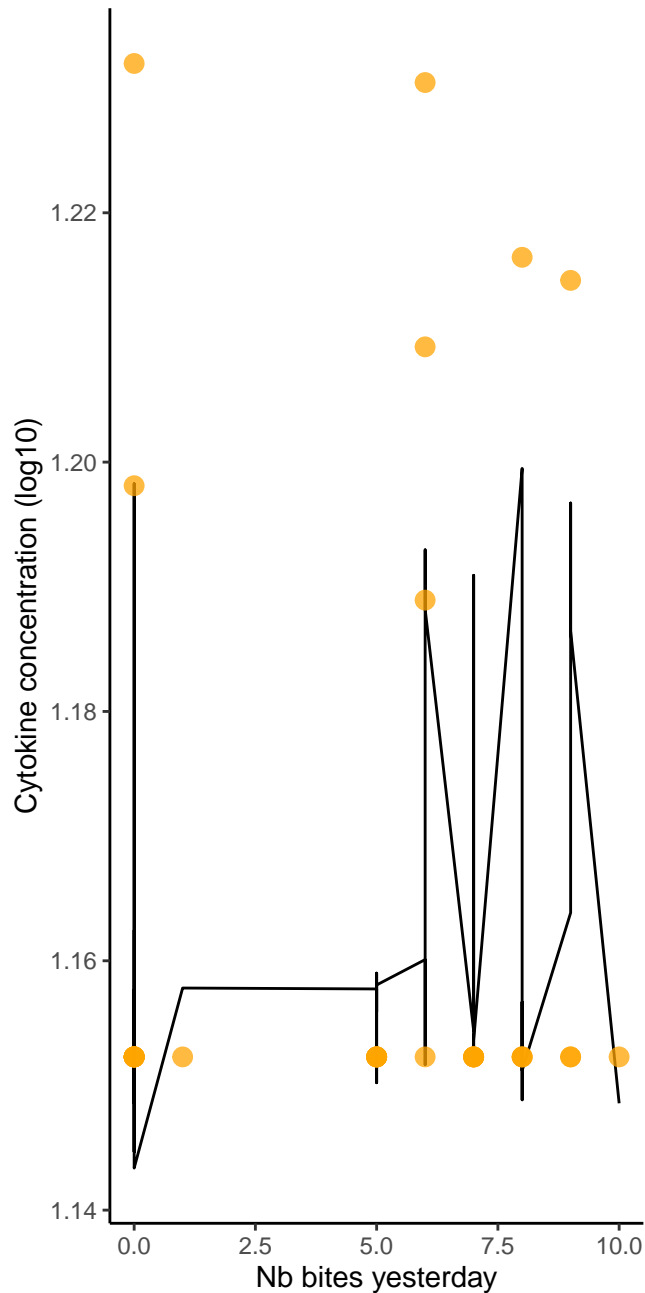
Nb obs : 36

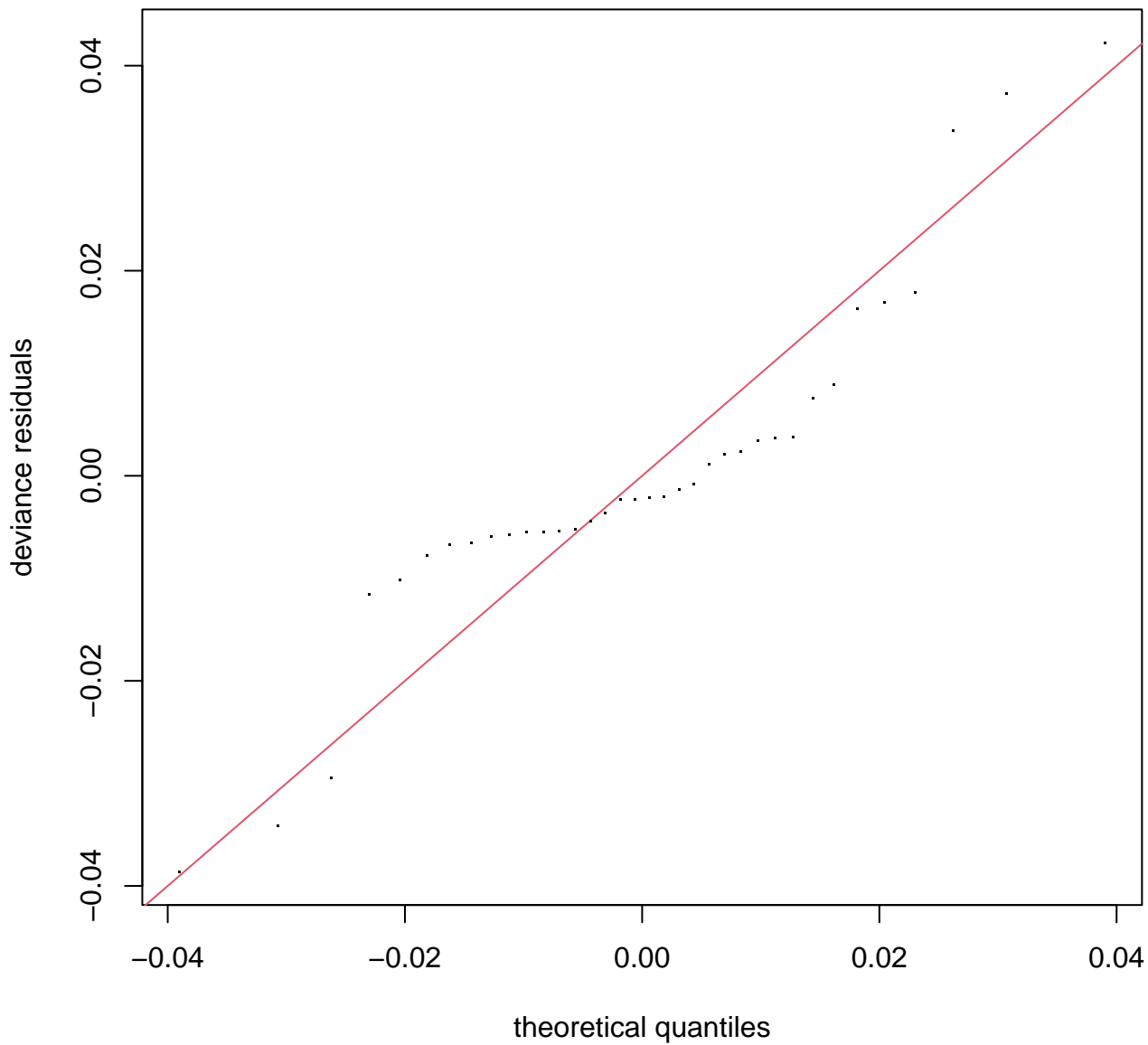




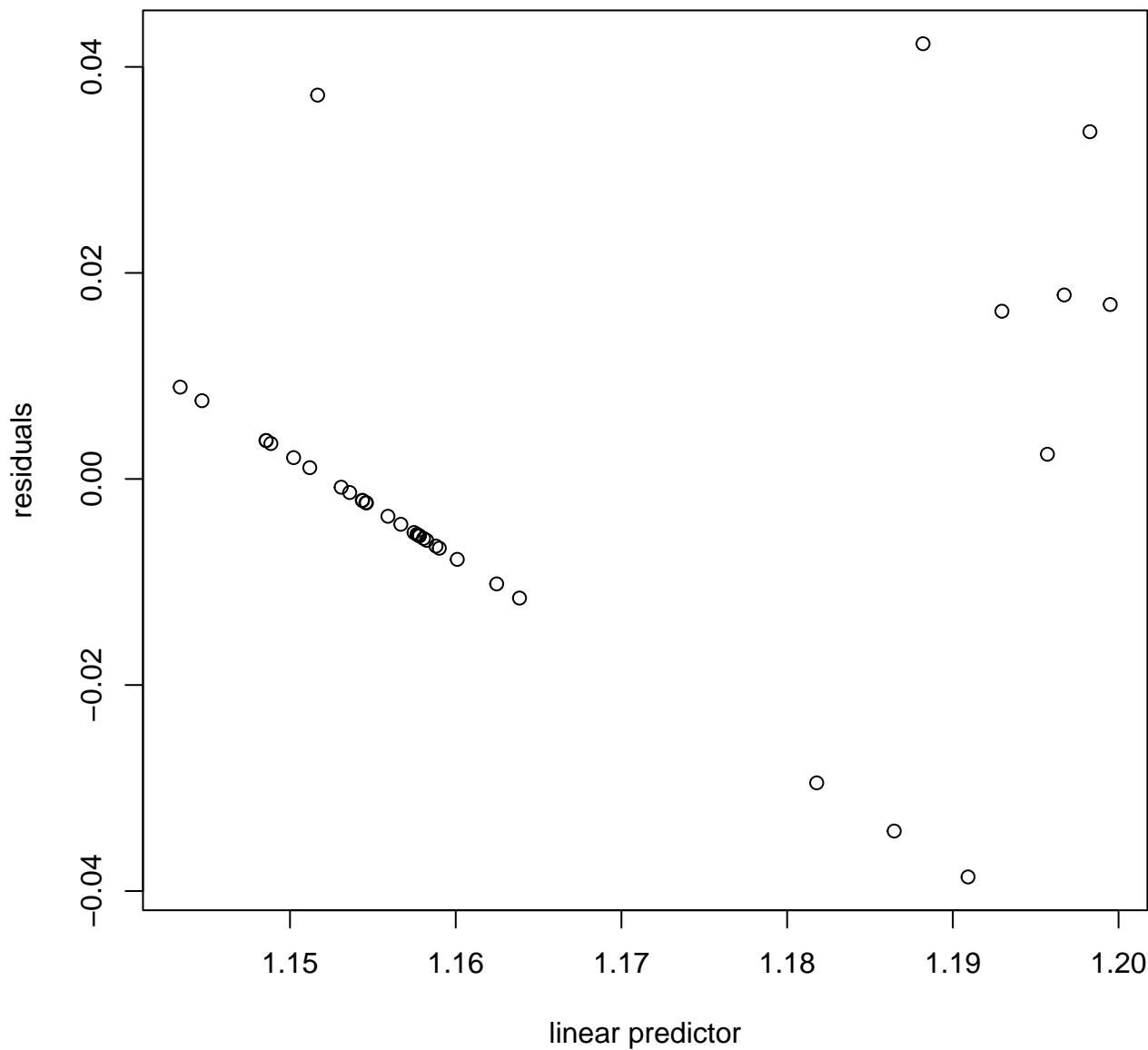
s(ID,2.72)



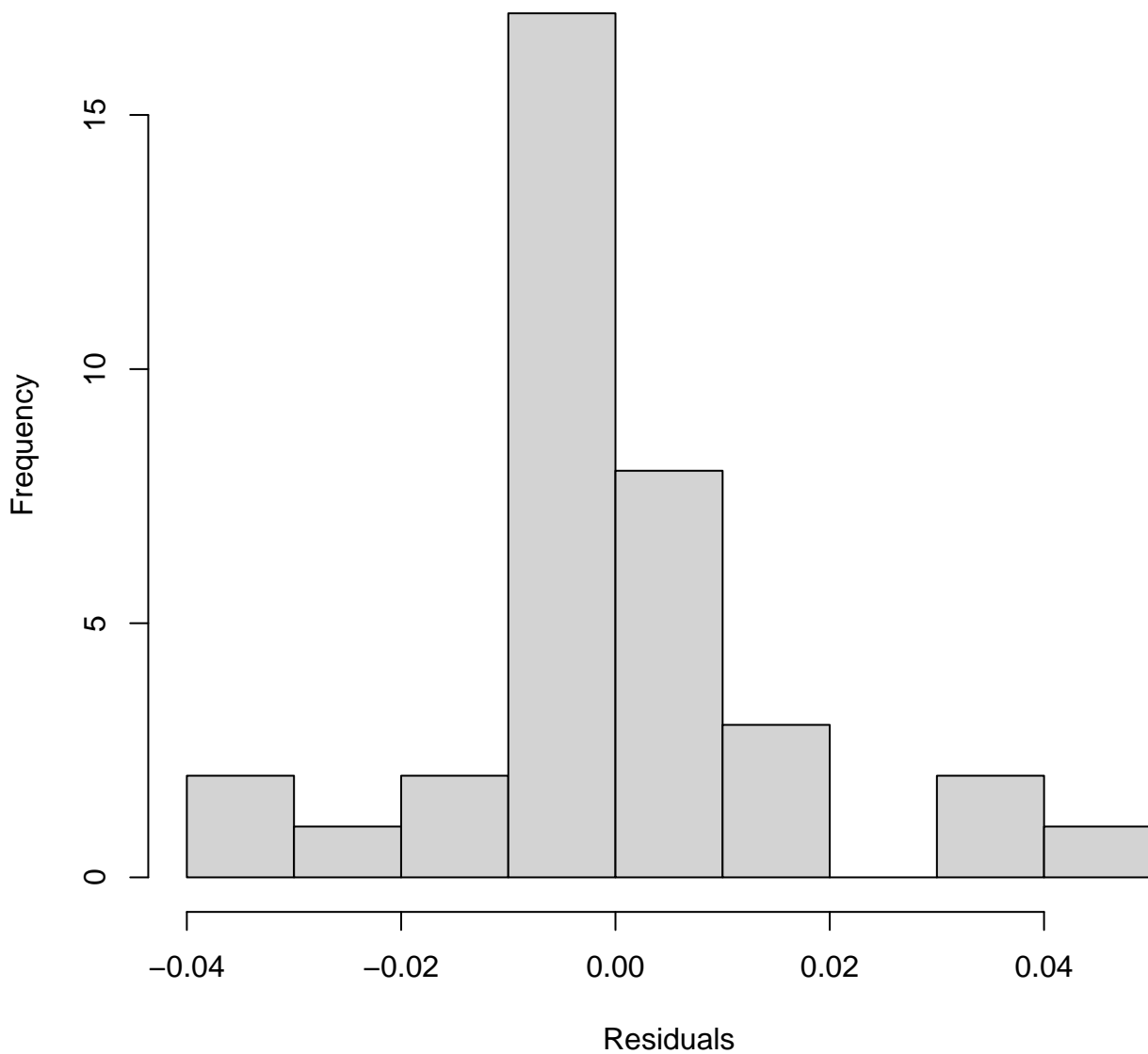




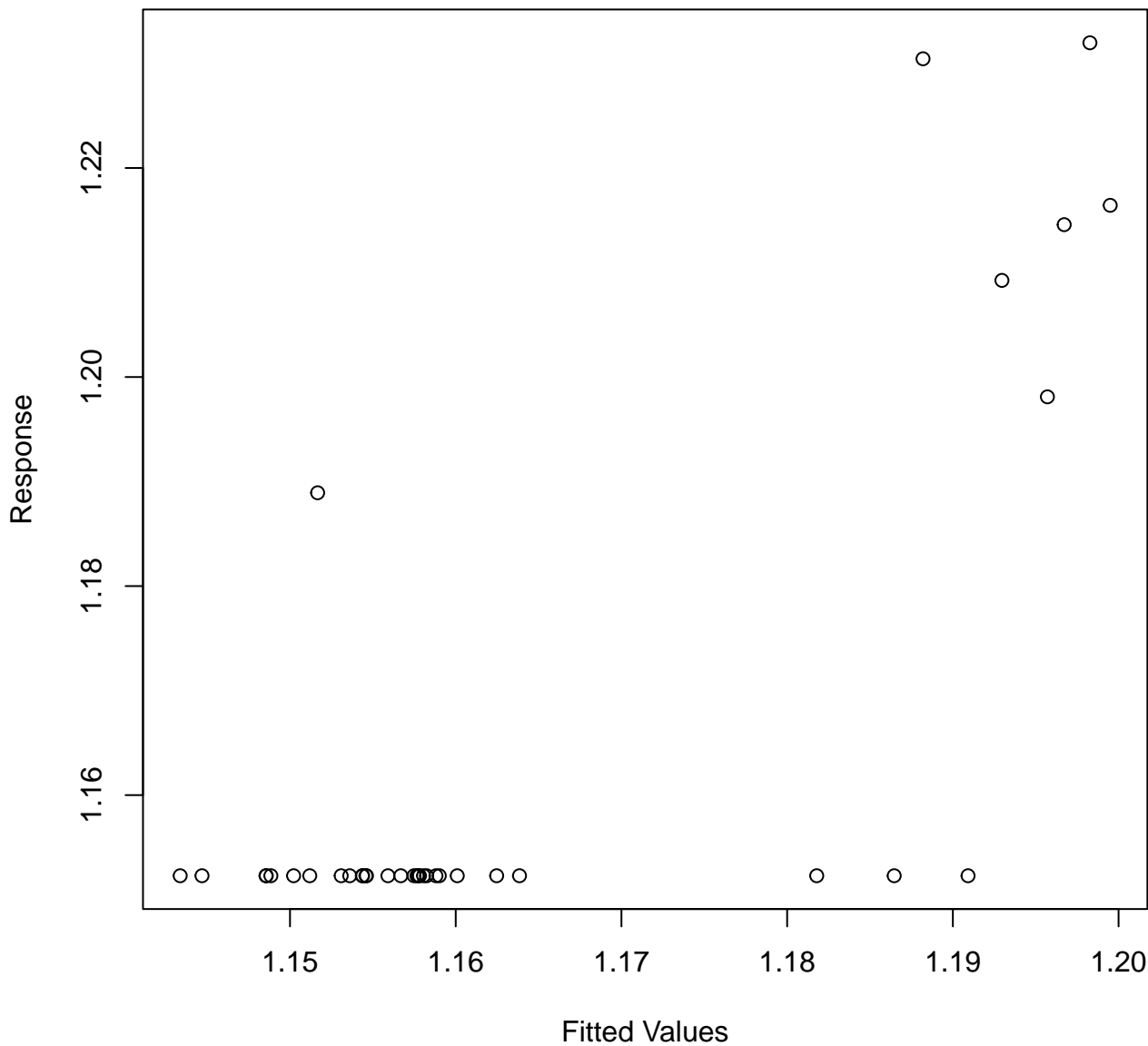
Resids vs. linear pred.



Histogram of residuals



Response vs. Fitted Values



Method: ML Optimizer: outer newton
 full convergence after 12 iterations.
 Gradient range [-1.86098e-05,4.695873e-06]
 (score -90.55096 & scale 0.0003144821).
 Hessian positive definite, eigenvalue range [1.685682e-05,18.19828].
 Model rank = 11 / 11

Basis dimension (k) checking results. Low p-value (k-index<1) may
 indicate that k is too low, especially if edf is close to k'.

	k'	edf	k-index	p-value
s(bites_of_yesterday)	3.00	1.00	0.95	0.34
s(cumul_bites_7_previous_days)	3.00	1.00	0.91	0.28
s(ID)	4.00	2.72	NA	NA

Check for Multicollinearity

Low Correlation

	Term	VIF	VIF 95% CI	Increased SE	Tolerance	Tolerance 95% CI
s(bites_of_yesterday, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	
s(cumul_bites_7_previous_days, k = 4)	1.11	[1.00, 3.31]	1.05	0.90	[0.30, 1.00]	

Family: gaussian
Link function: identity

Formula:
log10(value) ~ s(bites_of_yesterday, k = 4) + s(cumul_bites_7_previous_days,
k = 4) + s(ID, bs = "re", k = 2)

Parametric coefficients:

	Estimate	Std. Error	t value	Pr(> t)
(Intercept)	1.164058	0.009647	120.7	<2e-16 ***

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

Approximate significance of smooth terms:

	edf	Ref.df	F	p-value
s(bites_of_yesterday)	1.000	1	0.339	0.565
s(cumul_bites_7_previous_days)	1.000	1	2.736	0.109
s(ID)	2.716	3	11.791	1.32e-05 ***

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

R-sq.(adj) = 0.503 Deviance explained = 57%
-ML = -90.551 Scale est. = 0.00031448 n = 36

AICc [1] -176.5597

Bites in squirrel

Nb obs : 20

TNF.alpha ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

VEGF

Bites in cyno

Nb obs : 36

VEGF ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)

Bites in squirrel

Nb obs : 20

VEGF ERROR : NA/NaN/Inf dans un appel à une fonction externe (argument 3)