

	Group Name	Mouse	Half Life 1	Half Life 2
1	LSFAHNGS...	1b	38.2664	3.3334
2	LSFAHNGS...	2b	37.0262	3.5280
3	LSFAHNGS...	3b	35.3576	2.7486
4	LSFAHNGS...	4b	30.6655	2.8246
5	LSFAHNGS...	NM	40.0672	3.3074
6	LSFGS4Y	1b	59.9380	2.7207
7	LSFGS4Y	2b	83.2424	3.5127
8	LSFGS4Y	3b	2.8705	63.1411
9	LSFGS4Y	4b	88.5334	4.0006
10	LSFGS4Y	NM	59.0431	2.7626
11	WTGS4Y	1b	89.5932	8.6210
12	WTGS4Y	2b	109.3457	7.9469
13	WTGS4Y	3b	62.8042	5.7484
14	WTGS4Y	4b	107.5943	9.1993
15	WTGS4Y	NM	83.0917	6.4244

Mouse Half Life analysis

Experimenter Name: Dilip

Performed on 4-5-2011

Isotope half-life: 1430.4 hours

Determine Initial Conditions automatically? **yes**

Fit equation:

$$y = 0.01(C_1 C_2 e^{-k_1 t} + C_1 (100 - C_2) e^{-k_2 t})$$

Groups in the study

LSFAHNGS4Y

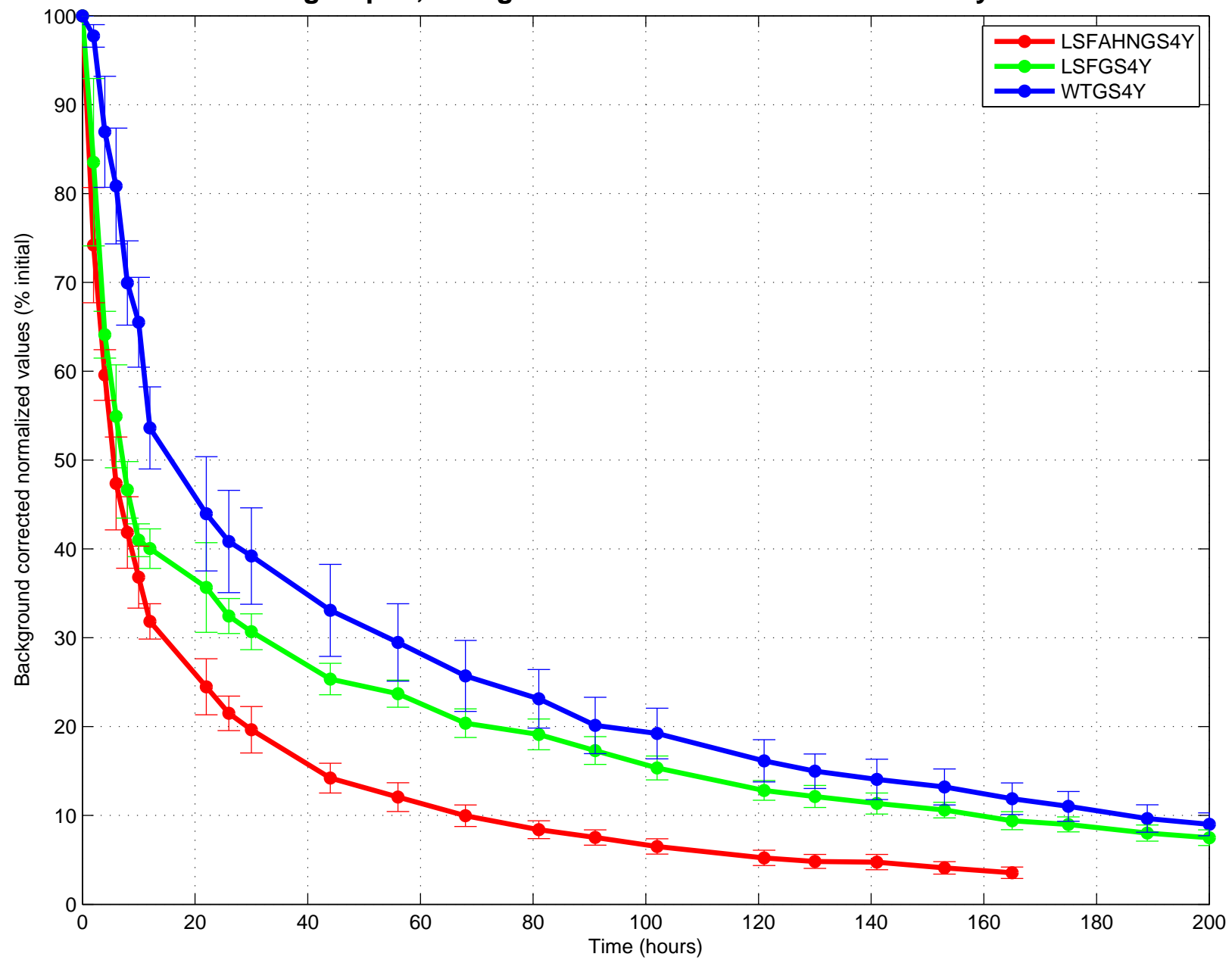
LSFGS4Y

WTGS4Y

Experiment description

Analysis done @ April-28-2011.21.59.57

Plot of grouped, background subtracted normalized decay curves



Original Data analyzed:

Timepoints: 0, 2, 4, 6, 8, 10, 12, 22, 26, 30, 44, 56, 68, 81, 91, 102, 121, 130, 141, 153, 165, 175, 189, 200, hours

Mouse 1b: Group LSFAHNGS4Y

Readings: 43, 33, 25, 24, 19, 18, 15, 13, 10, 10, 7, 6, 5, 4, 4, 3, 3, 3, 3, 2, 2, NaN, NaN, NaN,

Mouse 2b: Group LSFAHNGS4Y

Readings: 82, 56, 53, 35, 35, 27, 25, 17, 15, 13, 10, 8, 7, 6, 5, 5, 4, 3, 3, 3, 2, NaN, NaN, NaN,

Mouse 3b: Group LSFAHNGS4Y

Readings: 62, 43, 36, 28, 23, 22, 19, 14, 13, 12, 10, 7, 6, 5, 5, 4, 3, 3, 3, 2, 2, NaN, NaN, NaN,

Mouse 4b: Group LSFAHNGS4Y

Readings: 63, 46, 36, 30, 30, 25, 21, 16, 14, 13, 8, 8, 6, 5, 5, 4, 3, 3, 3, 2, 2, NaN, NaN, NaN,

Mouse NM: Group LSFAHNGS4Y

Readings: 59, 49, 35, 26, 23, 21, 19, 14, 13, 12, 8, 7, 6, 5, 4, 4, 3, 3, 3, 2, 2, NaN, NaN, NaN,

Mouse 1b: Group LSFGS4Y

Readings: 97, 72, 59, 48, 44, 39, 38, 31, 31, 28, 23, 22, 18, 18, 16, 14, 11, 11, 10, 9, 8, 8, 7, 6,

Mouse 2b: Group LSFGS4Y

Readings: 59, 56, 39, 34, 29, 26, 26, 21, 21, 20, 17, 15, 13, 12, 11, 10, 8, 8, 8, 7, 6, 6, 5, 5,

Mouse 3b: Group LSFGS4Y

Readings: 63, 49, 38, 31, 26, 24, 23, 20, 19, 18, 15, 14, 12, 10, 9, 9, 7, 7, 6, 6, 5, 5, 4, 4,

Mouse 4b: Group LSFGS4Y

Readings: 54, 51, 36, 35, 28, 23, 22, 19, 18, 17, 14, 13, 12, 11, 10, 9, 7, 7, 7, 6, 5, 5, 5, 4,

Mouse NM: Group LSFGS4Y

Readings: 63, 49, 41, 35, 29, 26, 25, 28, 20, 19, 16, 14, 13, 12, 11, 10, 8, 7, 7, 7, 6, 6, 5, 5,

Mouse 1b: Group WTGS4Y

Readings: 57, 56, 49, 50, 41, 41, 34, 30, 26, 25, 21, 19, 17, 15, 13, 12, 10, 10, 9, 8, 8, 7, 6, 6,

Mouse 2b: Group WTGS4Y

Readings: 69, 67, 63, 53, 46, 43, 33, 24, 22, 22, 18, 16, 14, 13, 11, 11, 9, 9, 8, 7, 7, 6, 5, 5,

Mouse 3b: Group WTGS4Y

Readings: 64, 64, 49, 48, 41, 39, 33, 27, 25, 24, 20, 18, 15, 13, 11, 11, 9, 8, 8, 7, 6, 6, 5, 5,

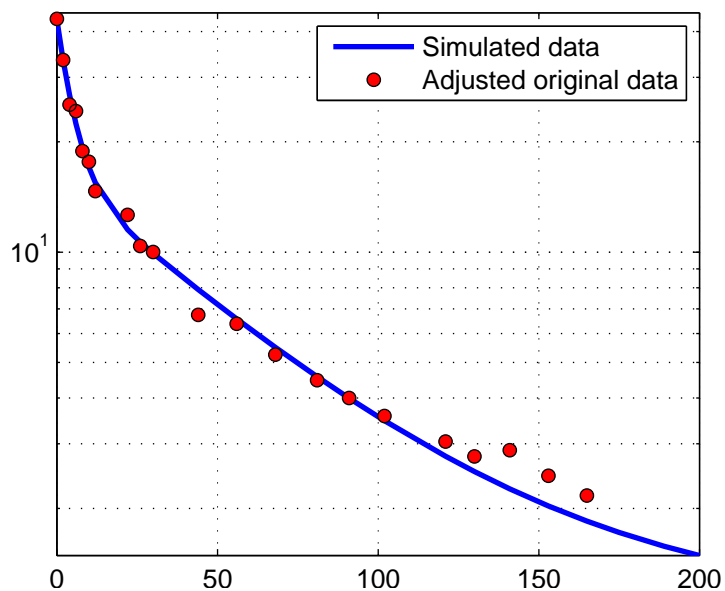
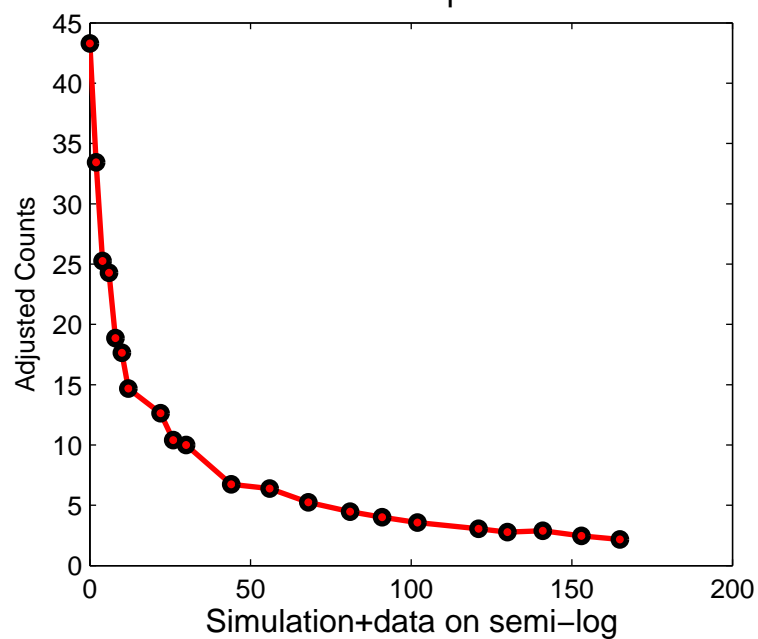
Mouse 4b: Group WTGS4Y

Readings: 62, 61, 57, 55, 47, 43, 34, 28, 26, 24, 21, 19, 17, 15, 12, 12, 11, 10, 9, 9, 8, 7, 7, 6,

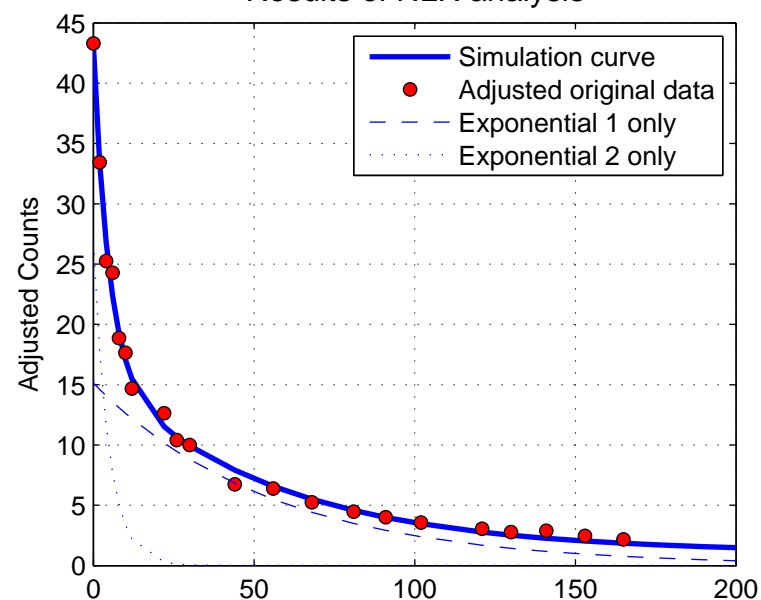
Mouse NM: Group WTGS4Y

Readings: 89, 86, 80, 69, 64, 57, 49, 42, 41, 40, 34, 30, 26, 23, 21, 20, 16, 15, 15, 13, 12, 11, 10, 9,

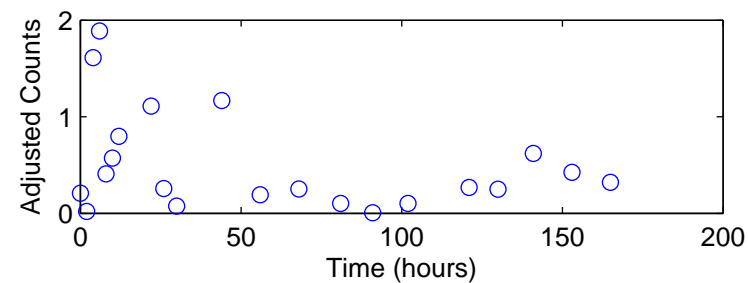
LSFAHNGS4Y | Mouse: 1b



Results of NLR analysis



Residuals



Half Life 1: **38.27 hours**

Half Life 2: **3.333 hours**

Fit Parameters:

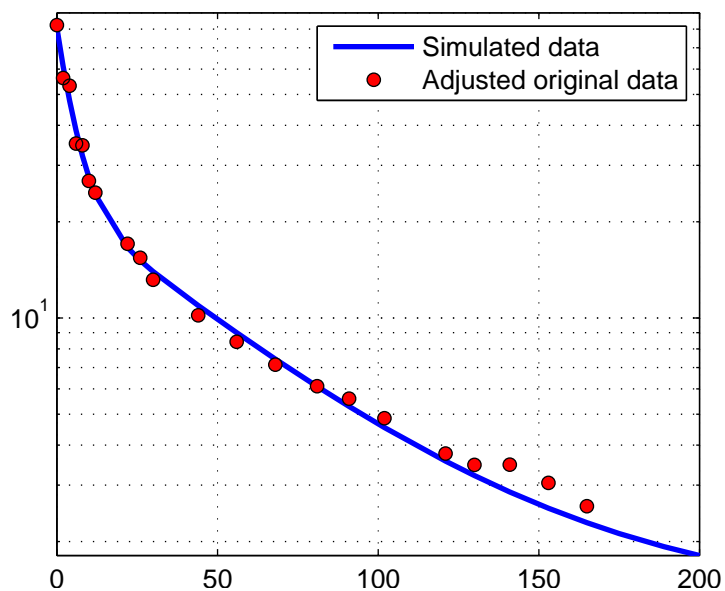
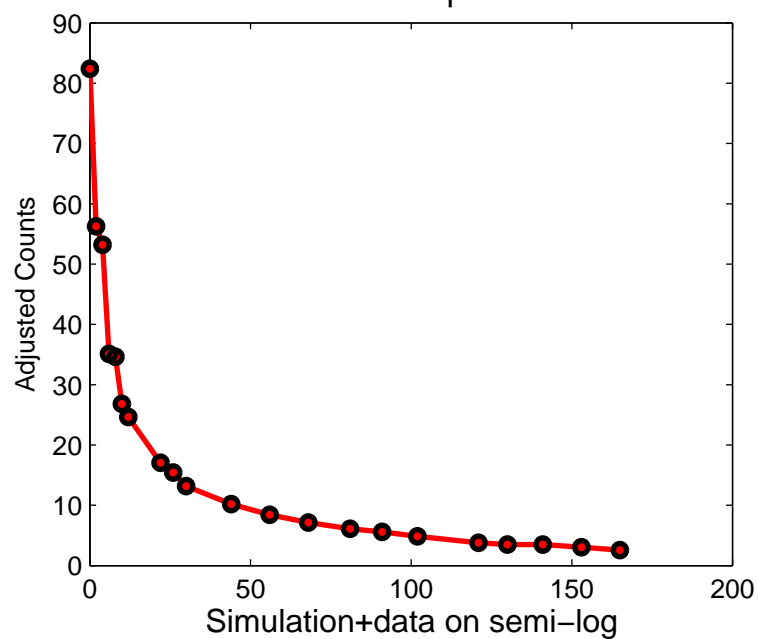
Coefficient 1: 42.01; Coefficient 2: 36.04

k1: 0.018114; k2: 0.20794

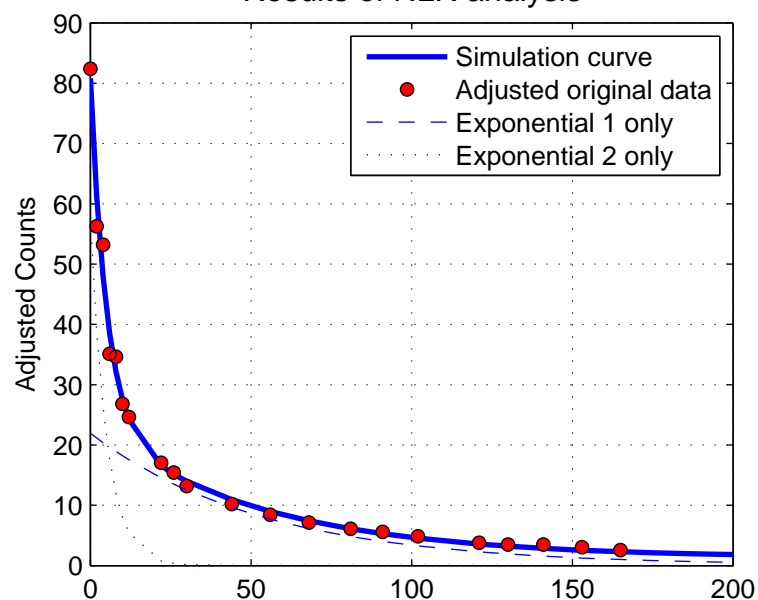
Initial Conditions:

C1: 43.30; k1: 0.0284; C2: 95.00; k2: 0.2843;

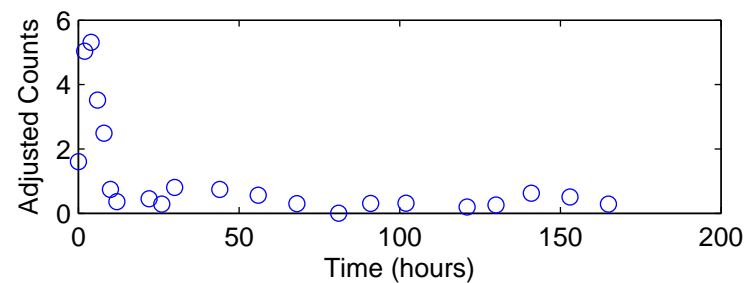
LSFAHNGS4Y | Mouse: 2b



Results of NLR analysis



Residuals



Half Life 1: **37.03 hours**

Half Life 2: **3.528 hours**

Fit Parameters:

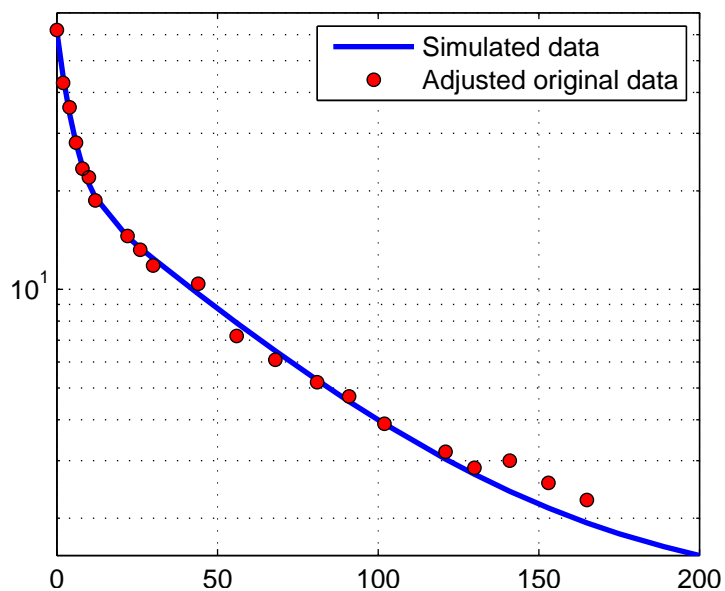
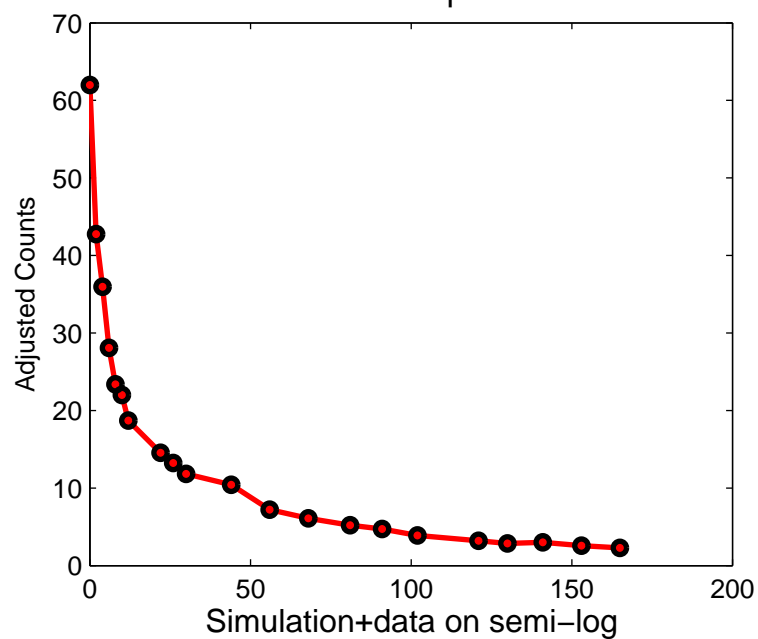
Coefficient 1: 79.5; Coefficient 2: 27.63

k1: 0.01872; k2: 0.19647

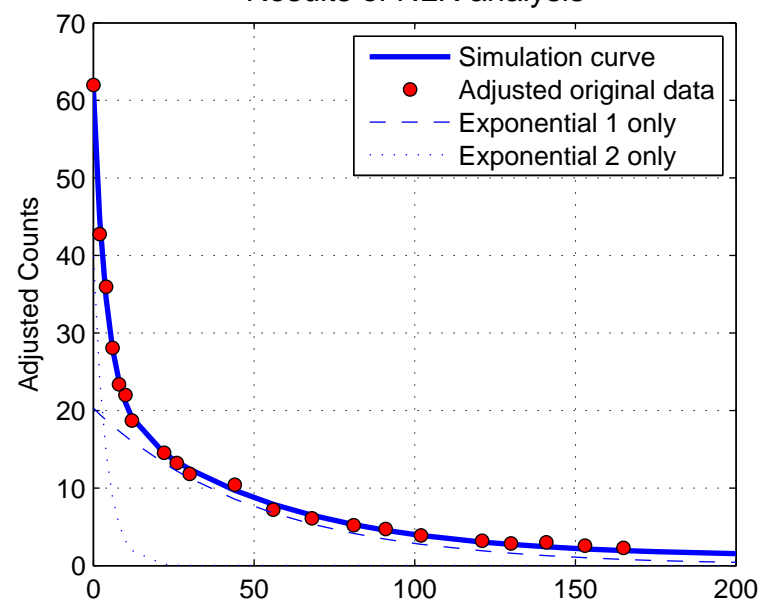
Initial Conditions:

C1: 82.40; k1: 0.0112; C2: 95.00; k2: 0.1117;

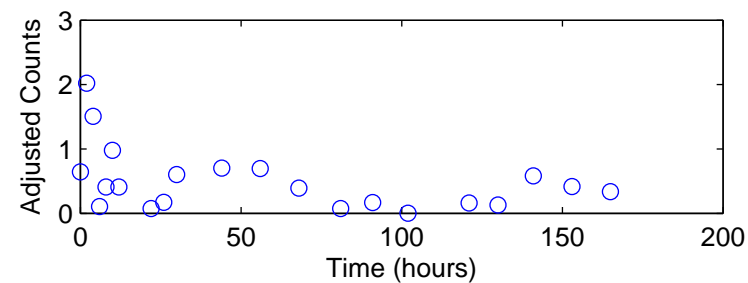
LSFAHNGS4Y | Mouse: 3b



Results of NLR analysis



Residuals



Half Life 1: **35.36 hours**

Half Life 2: **2.749 hours**

Fit Parameters:

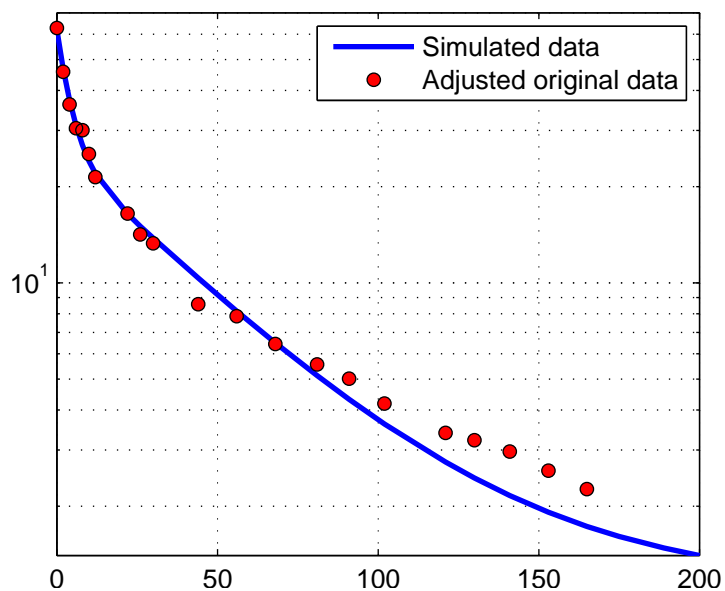
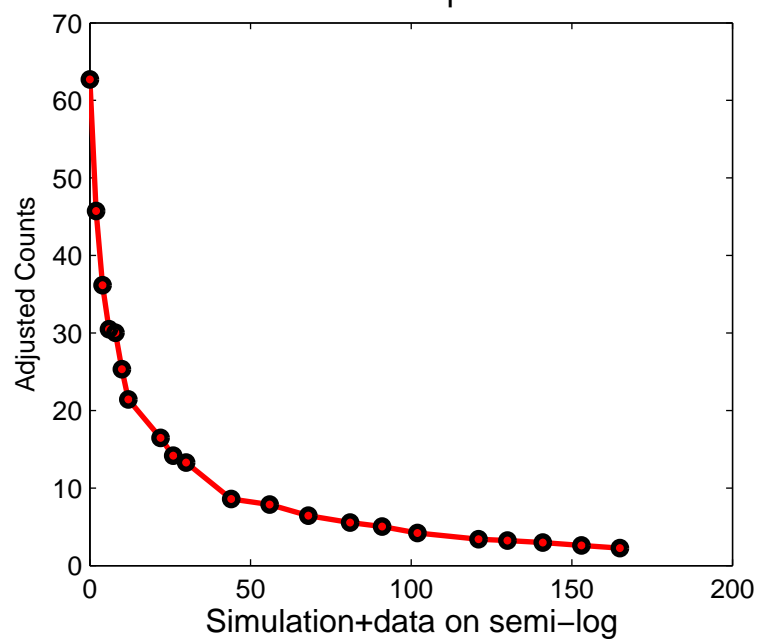
Coefficient 1: 60.22; Coefficient 2: 33.71

k1: 0.019604; k2: 0.25218

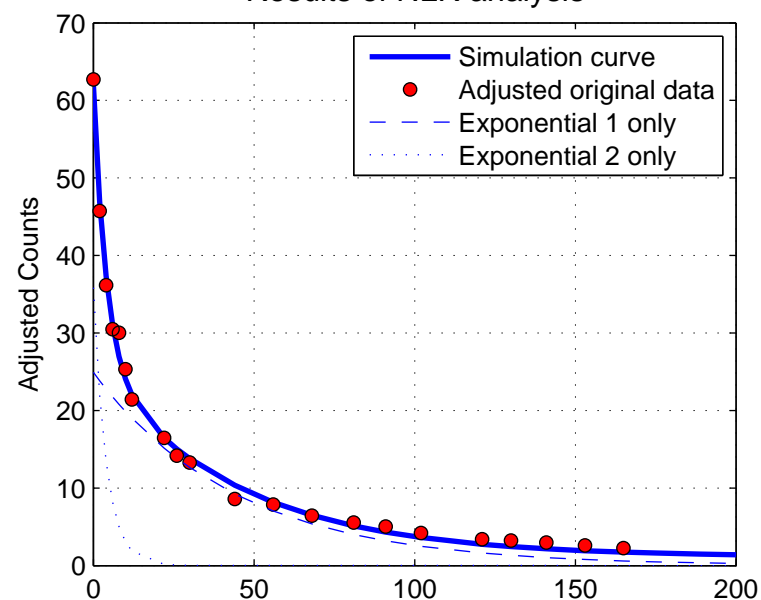
Initial Conditions:

C1: 62.00; k1: -0.0098; C2: 95.00; k2: -0.0982;

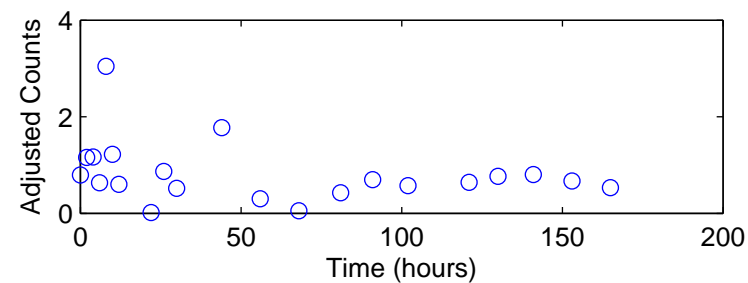
LSFAHNGS4Y | Mouse: 4b



Results of NLR analysis



Residuals



Half Life 1: **30.67 hours**

Half Life 2: **2.825 hours**

Fit Parameters:

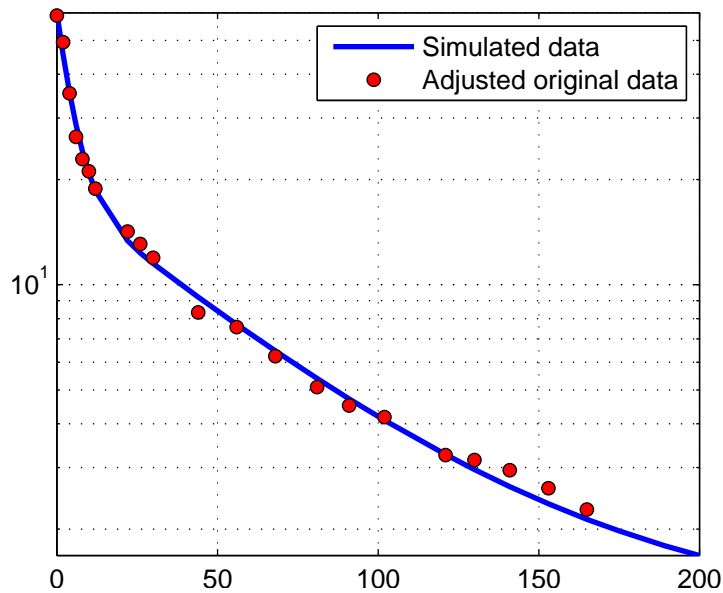
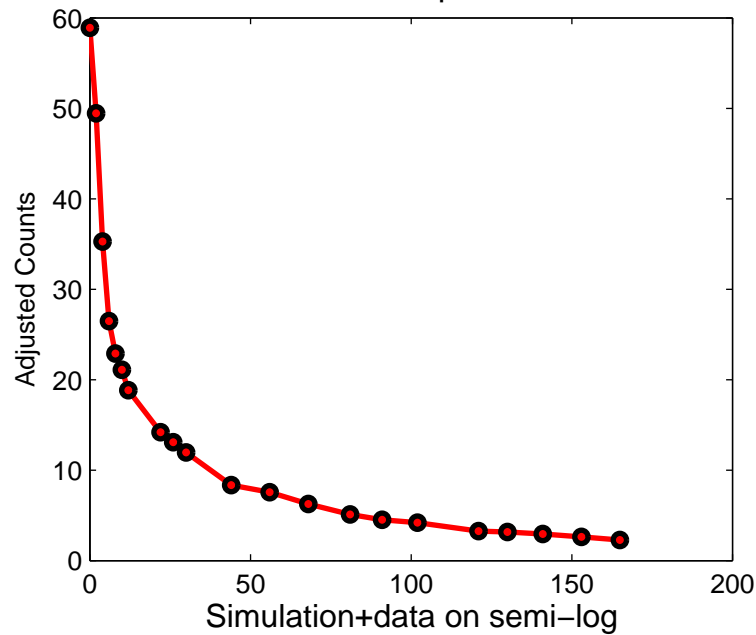
Coefficient 1: 60.77; Coefficient 2: 41.02

k1: 0.022603; k2: 0.24539

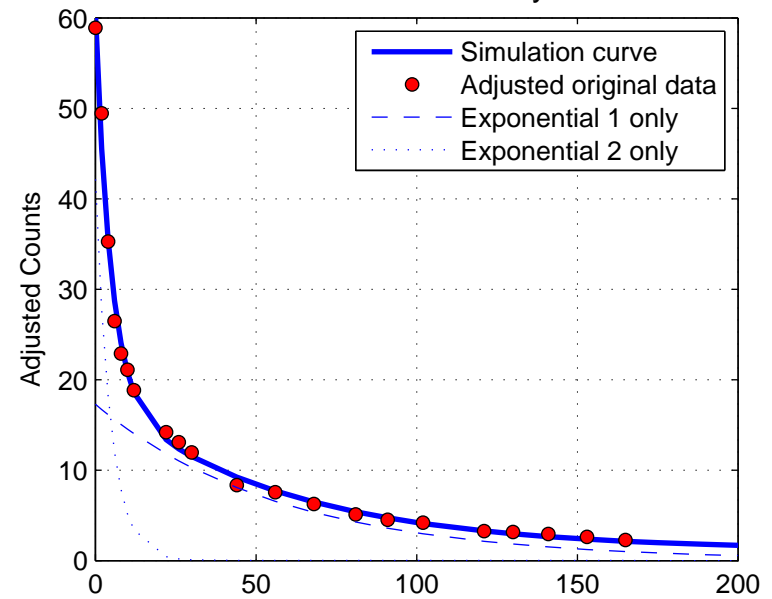
Initial Conditions:

C1: 62.70; k1: 0.0122; C2: 95.00; k2: 0.1224;

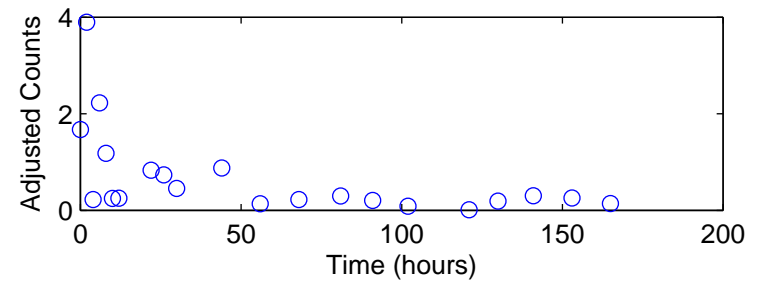
LSFAHNGS4Y | Mouse: NM



Results of NLR analysis



Residuals



Half Life 1: **40.07 hours**

Half Life 2: **3.307 hours**

Fit Parameters:

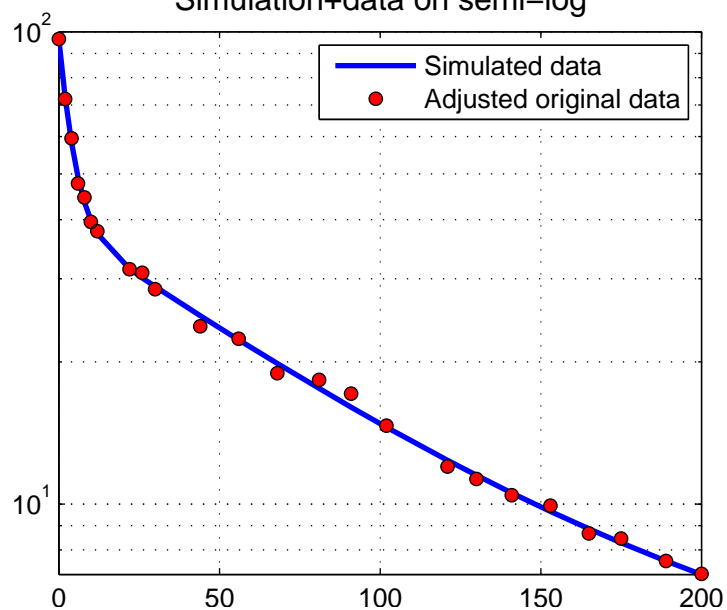
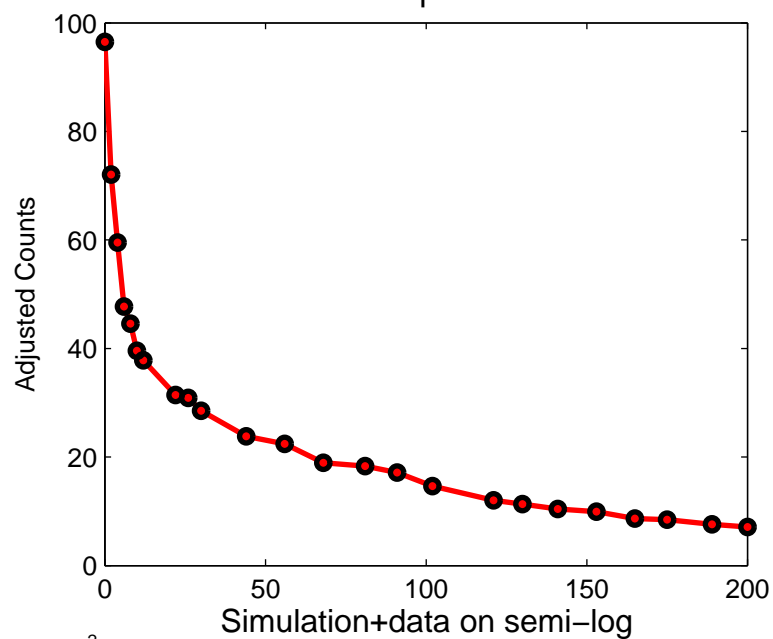
Coefficient 1: 59.44; Coefficient 2: 29.08

k1: 0.0173; k2: 0.20958

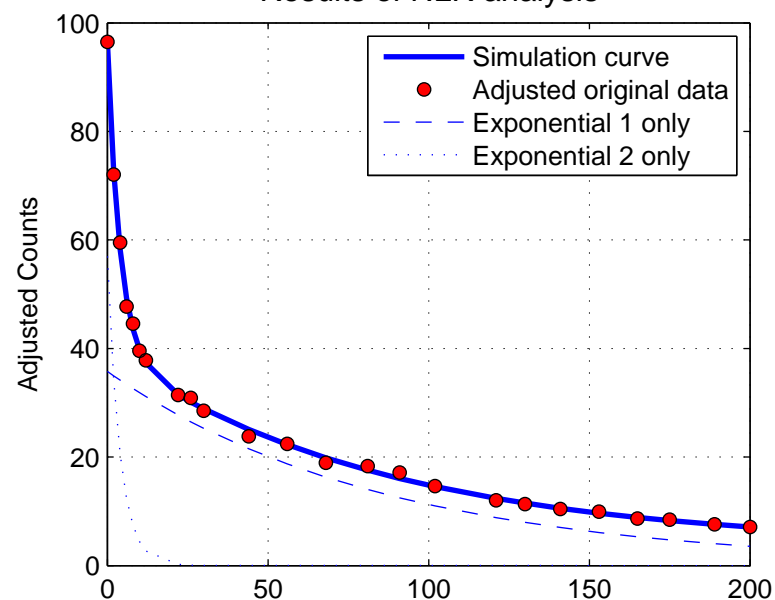
Initial Conditions:

C1: 58.90; k1: -0.0192; C2: 95.00; k2: -0.1924;

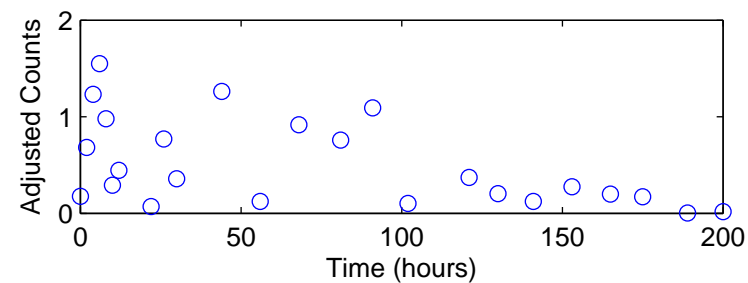
LSFGS4Y | Mouse: 1b



Results of NLR analysis



Residuals



Half Life 1: **59.94 hours**

Half Life 2: **2.721 hours**

Fit Parameters:

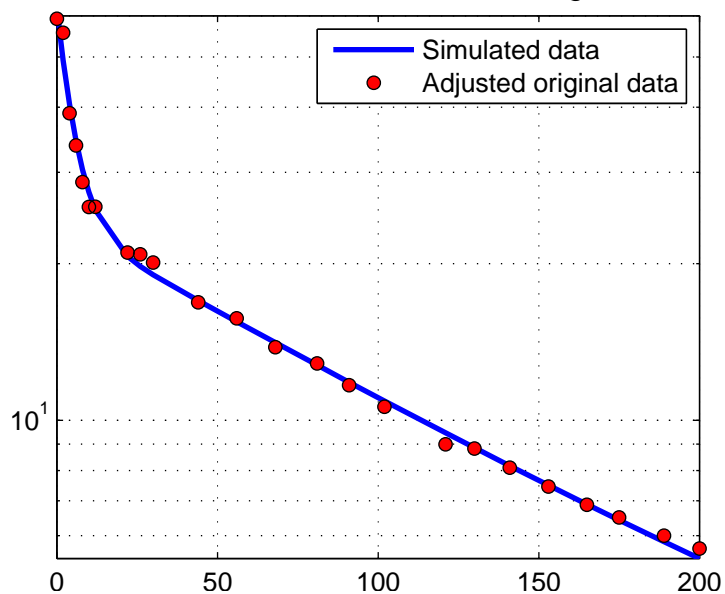
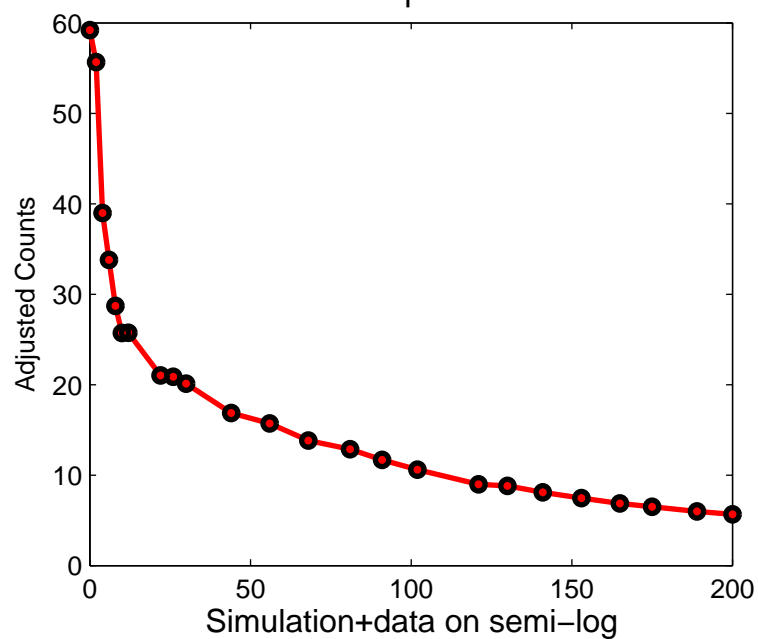
Coefficient 1: 92.77; Coefficient 2: 38.56

k1: 0.011564; k2: 0.25477

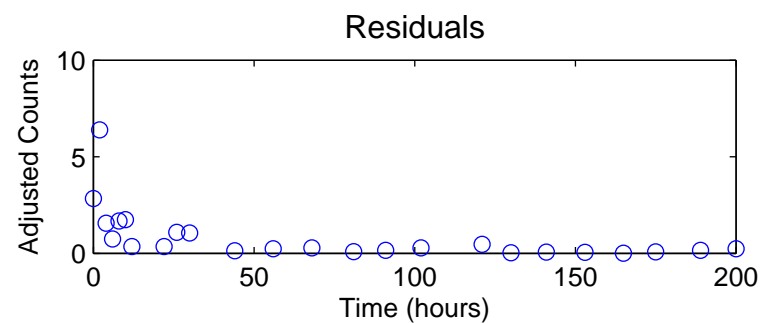
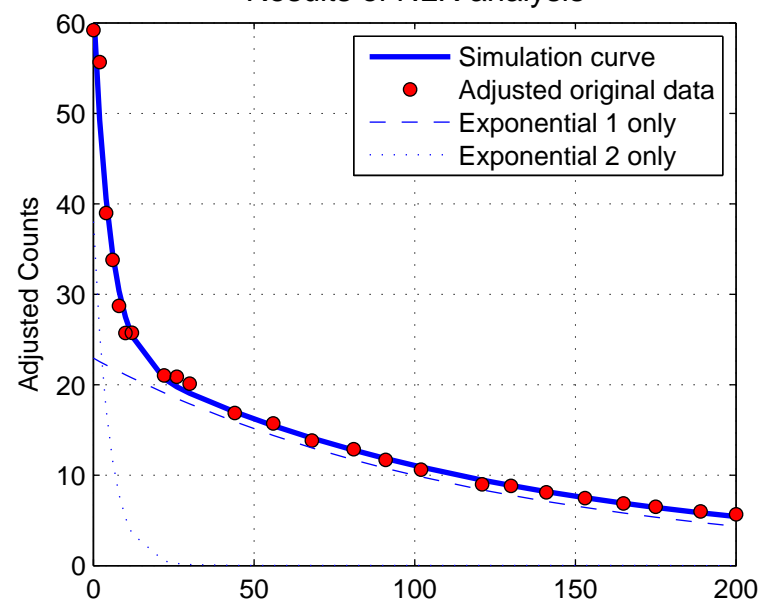
Initial Conditions:

C1: 96.50; k1: -0.0157; C2: 95.00; k2: -0.1567;

LSFGS4Y | Mouse: 2b



Results of NLR analysis



Half Life 1: **83.24 hours**

Half Life 2: **3.513 hours**

Fit Parameters:

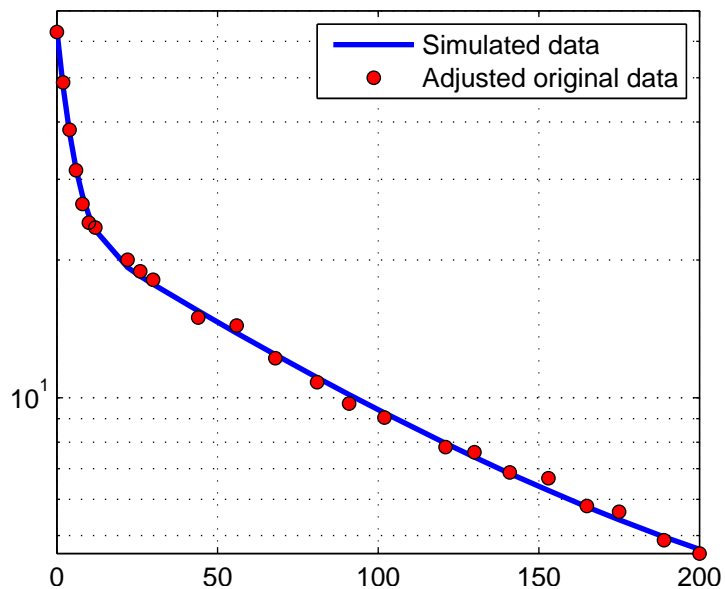
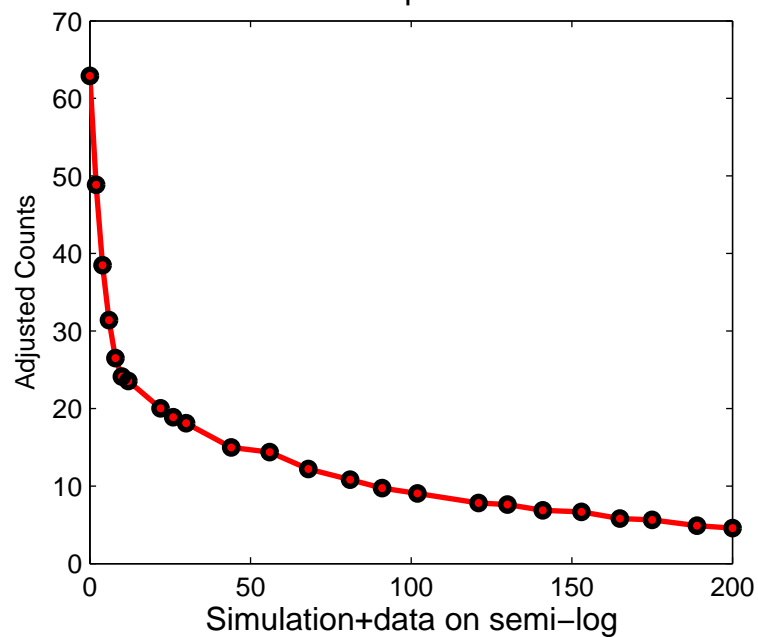
Coefficient 1: 60.95; Coefficient 2: 37.62

k1: 0.0083269; k2: 0.19732

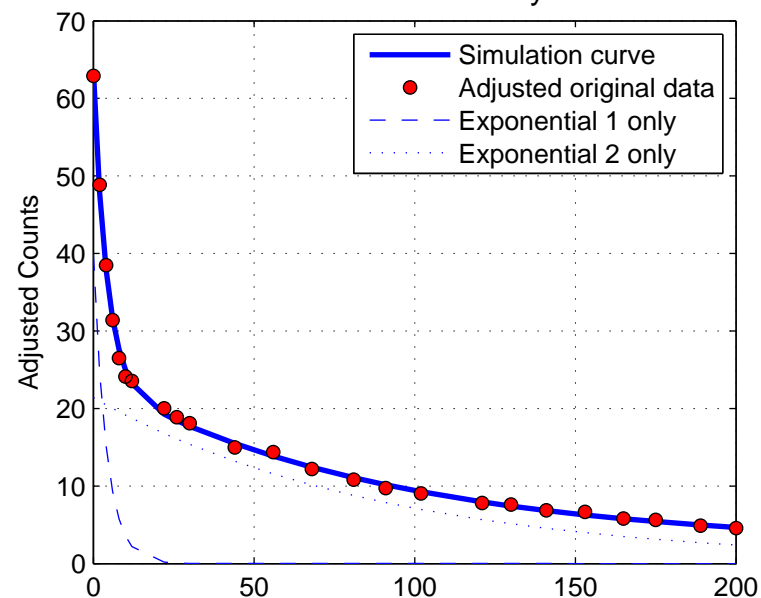
Initial Conditions:

C1: 59.20; k1: -0.0846; C2: 95.00; k2: -0.8461;

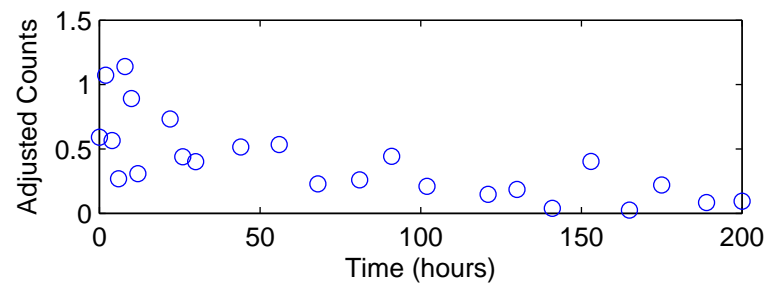
LSFGS4Y | Mouse: 3b



Results of NLR analysis



Residuals



Half Life 1: **2.87 hours**

Half Life 2: **63.14 hours**

Fit Parameters:

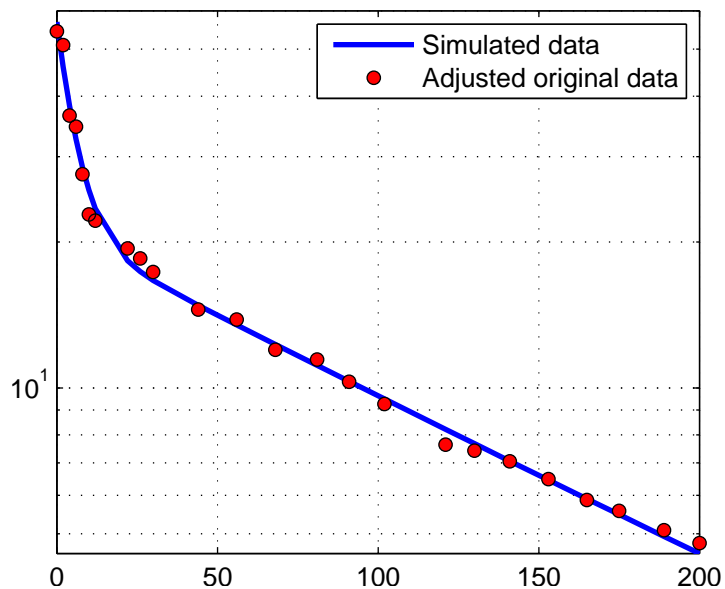
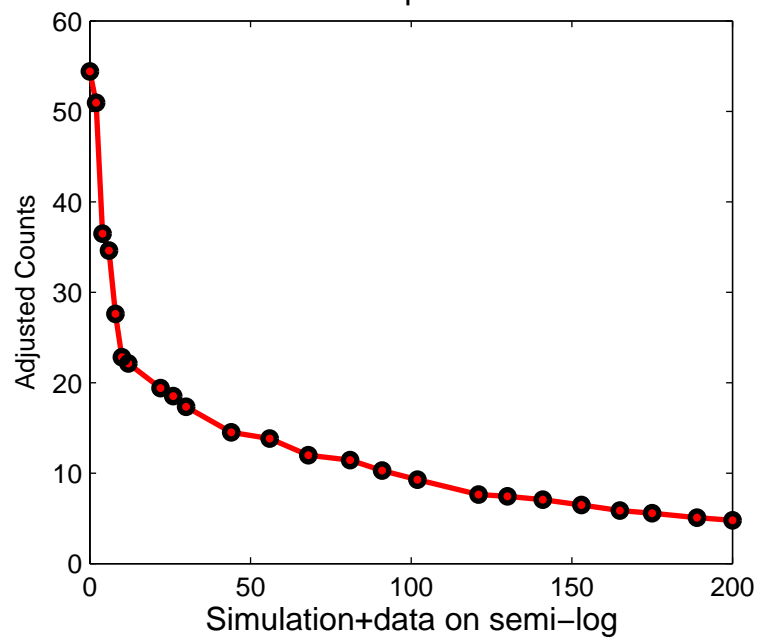
Coefficient 1: 61.2; Coefficient 2: 65.06

k1: 0.24148; k2: 0.010978

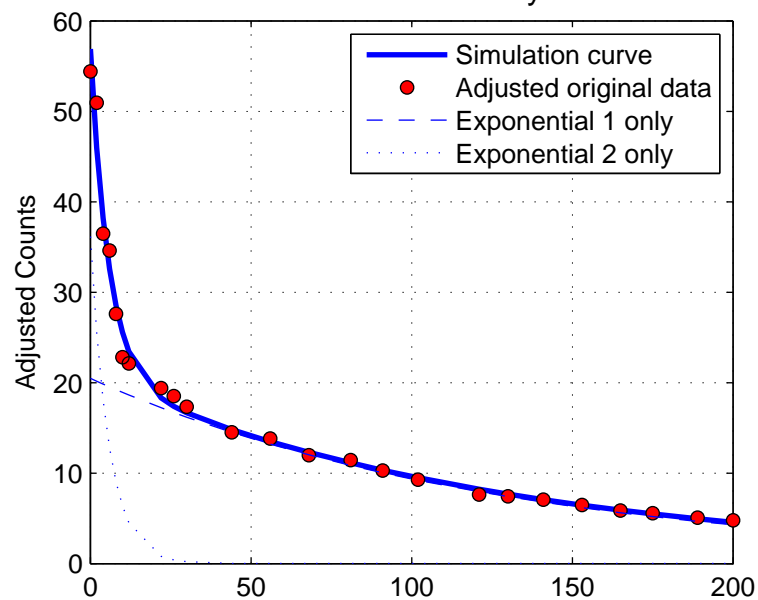
Initial Conditions:

C1: 62.90; k1: -0.0097; C2: 95.00; k2: -0.0974;

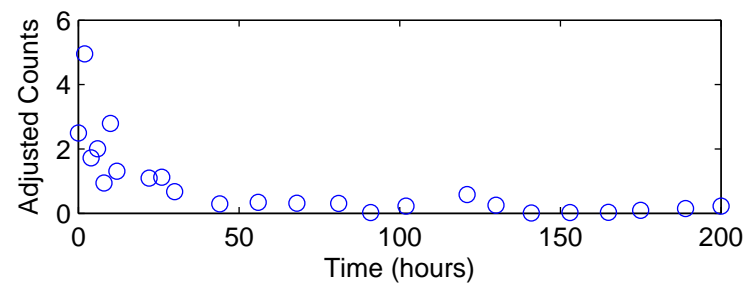
LSFGS4Y | Mouse: 4b



Results of NLR analysis



Residuals



Half Life 1: **88.53 hours**

Half Life 2: **4.001 hours**

Fit Parameters:

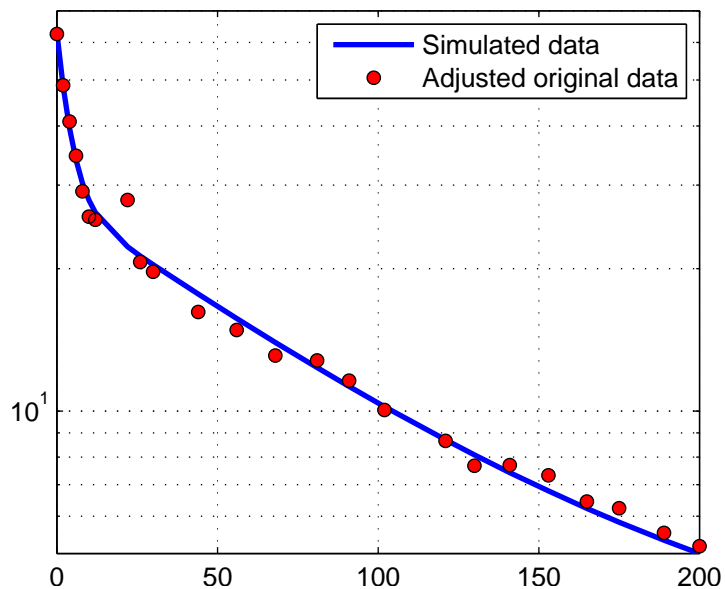
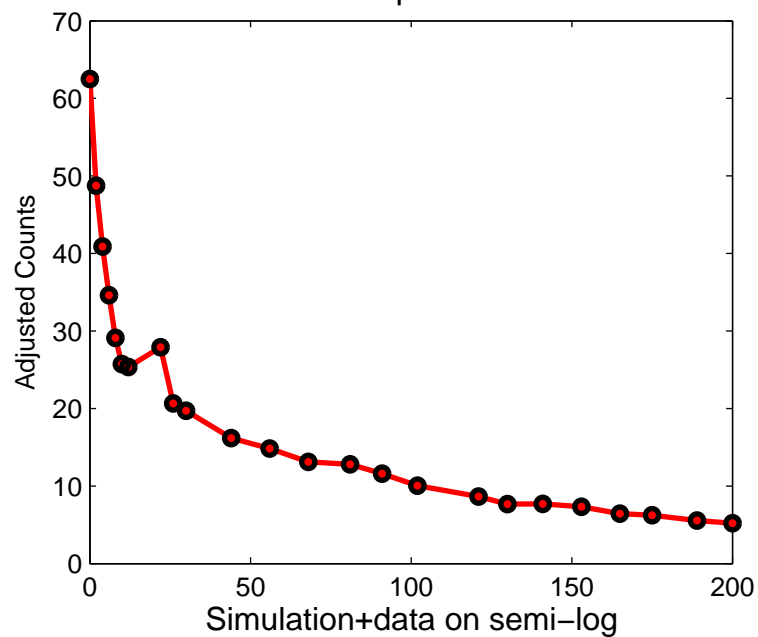
Coefficient 1: 56.62; Coefficient 2: 36.16

k1: 0.0078292; k2: 0.17326

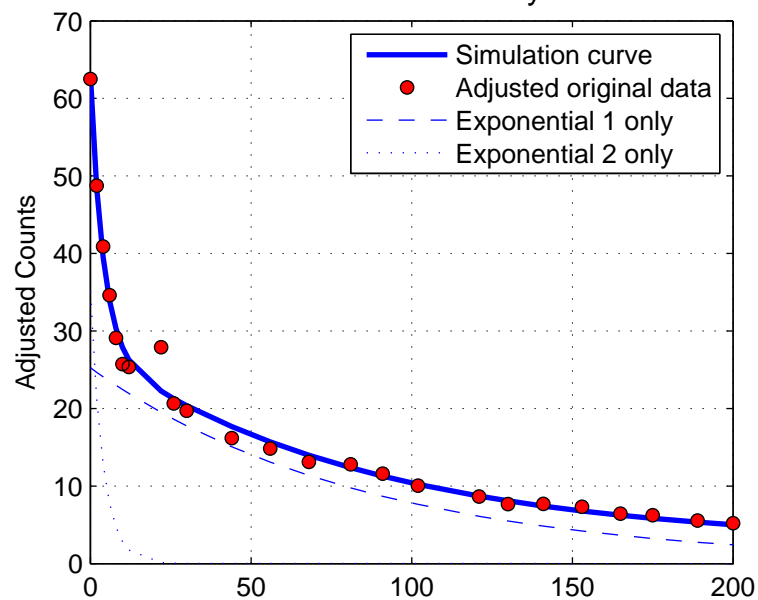
Initial Conditions:

C1: 54.40; k1: 0.0177; C2: 95.00; k2: 0.1770;

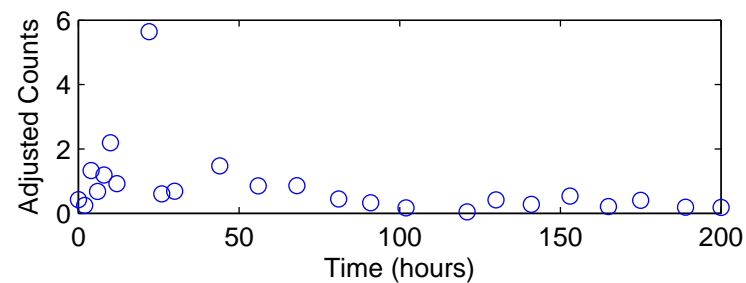
LSFGS4Y | Mouse: NM



Results of NLR analysis



Residuals



Half Life 1: **59.04 hours**

Half Life 2: **2.763 hours**

Fit Parameters:

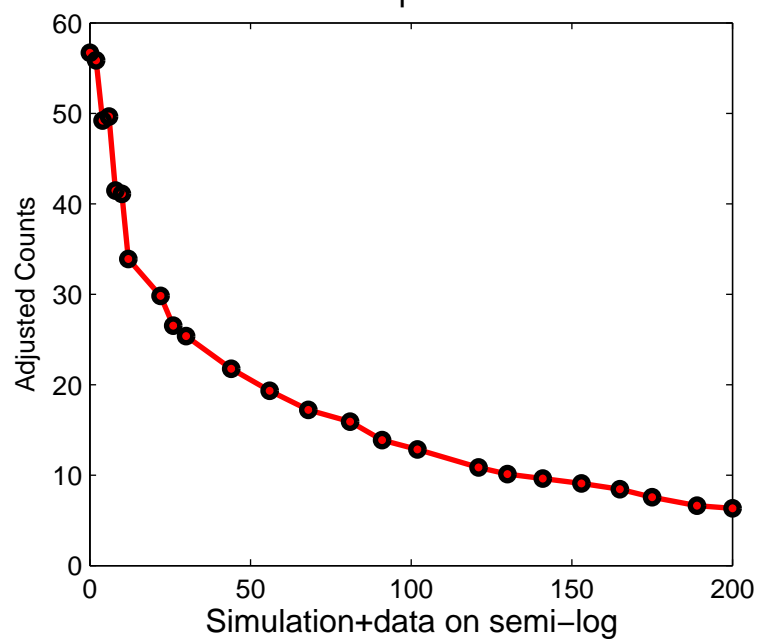
Coefficient 1: 60.33; Coefficient 2: 41.88

k1: 0.01174; k2: 0.25091

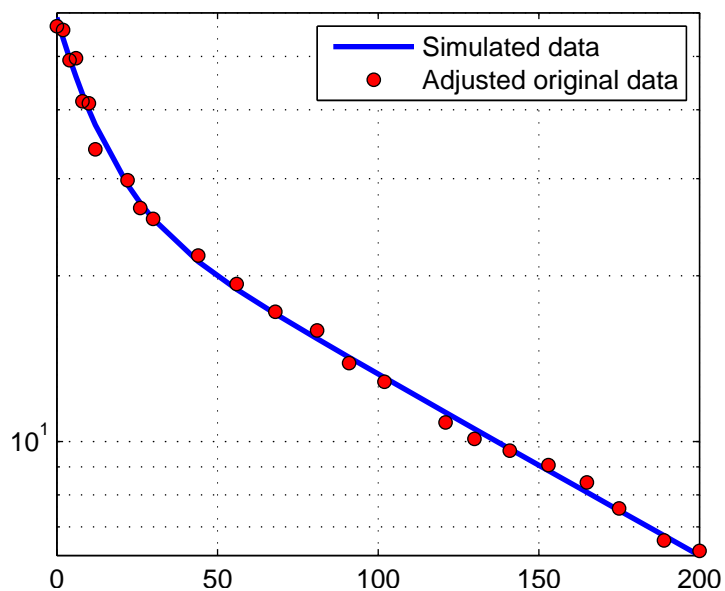
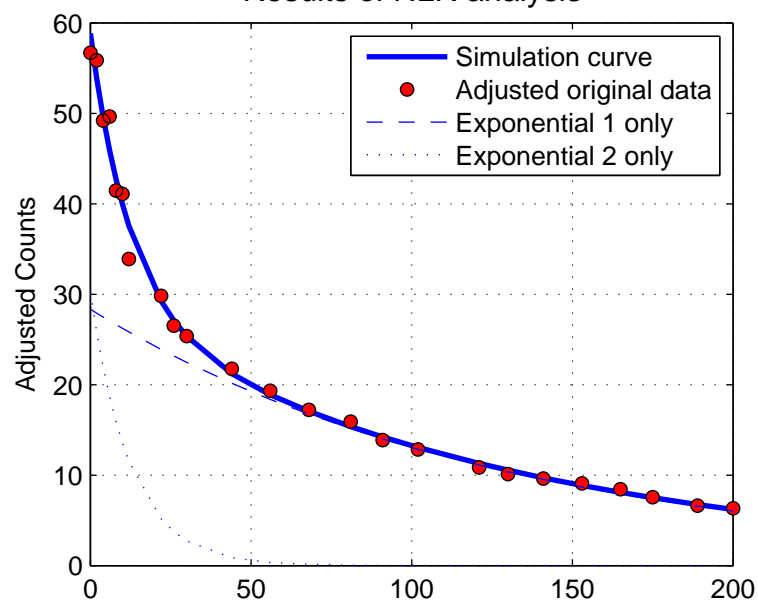
Initial Conditions:

C1: 62.50; k1: -0.0292; C2: 95.00; k2: -0.2919;

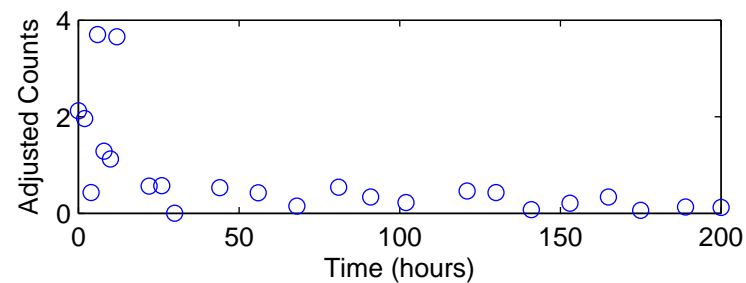
WTGS4Y | Mouse: 1b



Results of NLR analysis



Residuals



Half Life 1: **89.59 hours**

Half Life 2: **8.621 hours**

Fit Parameters:

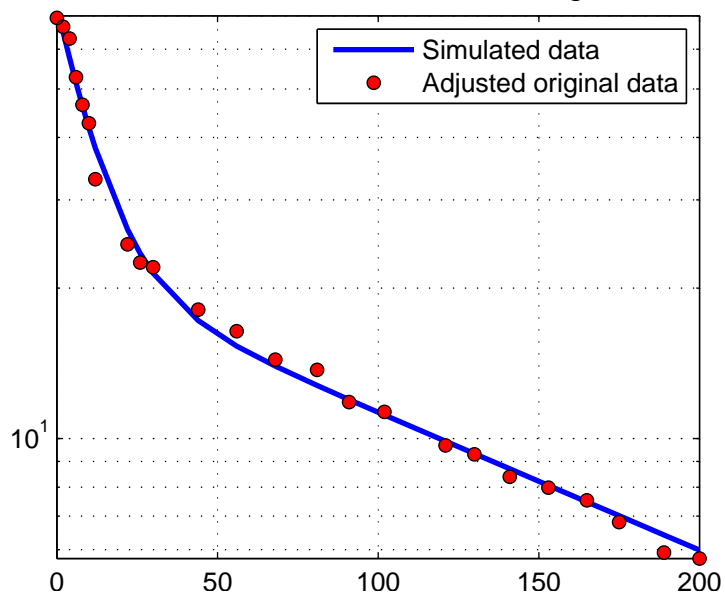
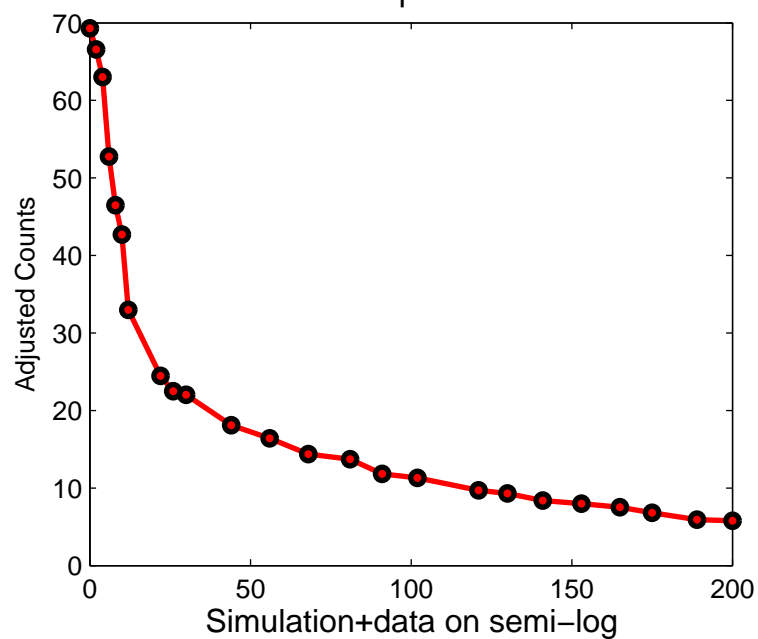
Coefficient 1: 58.64; Coefficient 2: 48.32

k1: 0.0077366; k2: 0.080403

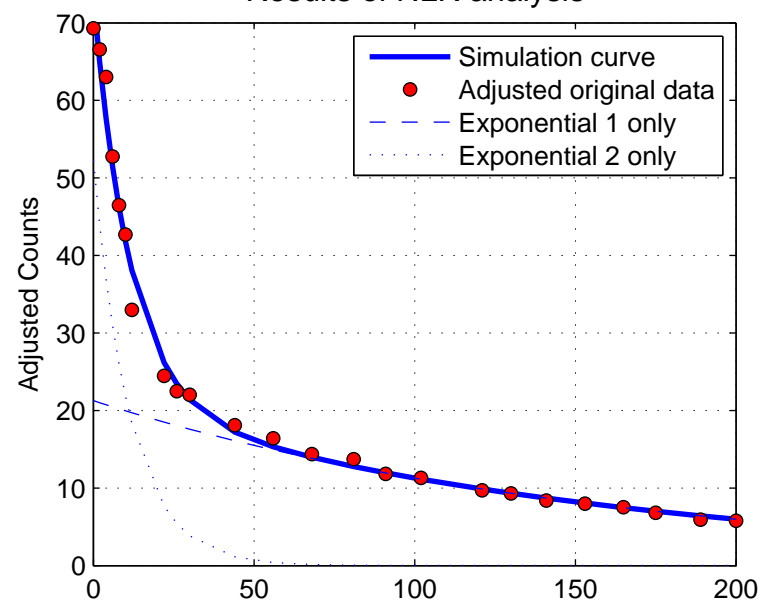
Initial Conditions:

C1: 56.70; k1: 0.0116; C2: 95.00; k2: 0.1161;

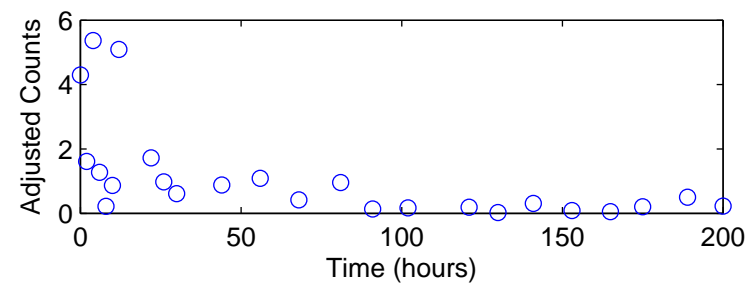
WTGS4Y | Mouse: 2b



Results of NLR analysis



Residuals



Half Life 1: **109.3 hours**

Half Life 2: **7.947 hours**

Fit Parameters:

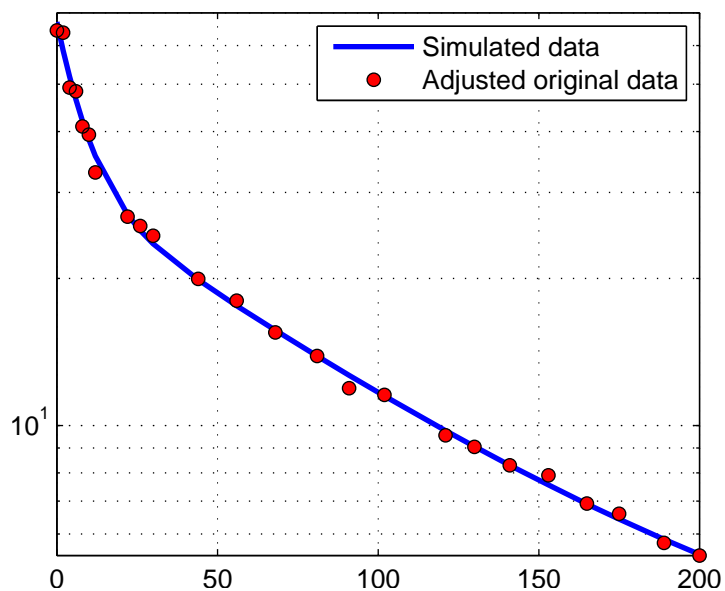
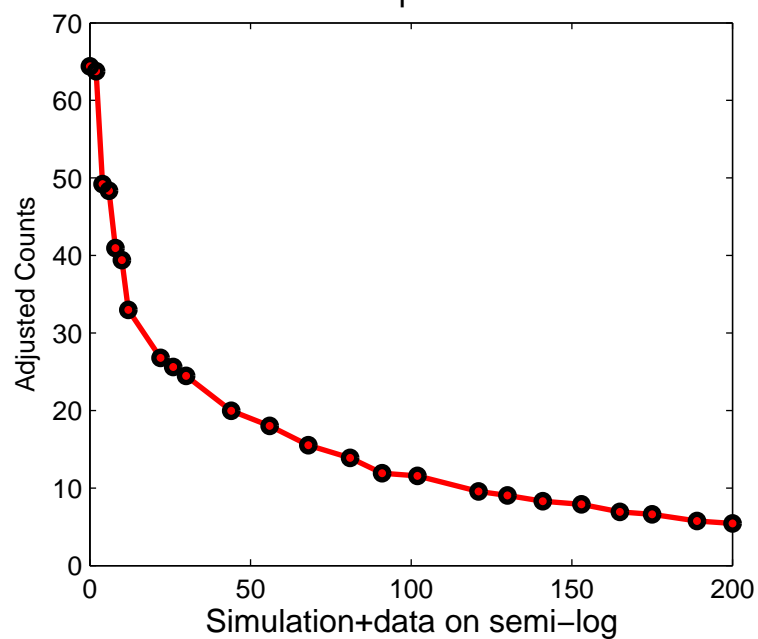
Coefficient 1: 73.6; Coefficient 2: 28.9

k1: 0.006339; k2: 0.087222

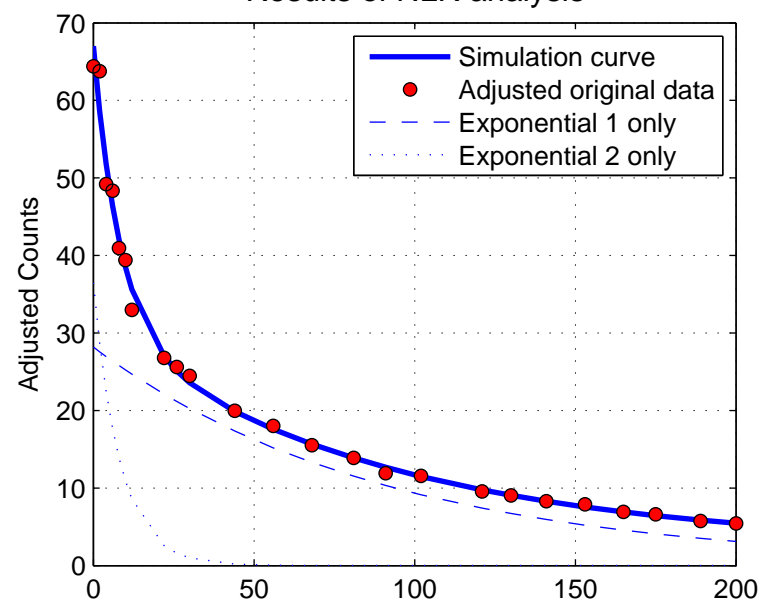
Initial Conditions:

C1: 69.30; k1: 0.0220; C2: 95.00; k2: 0.2195;

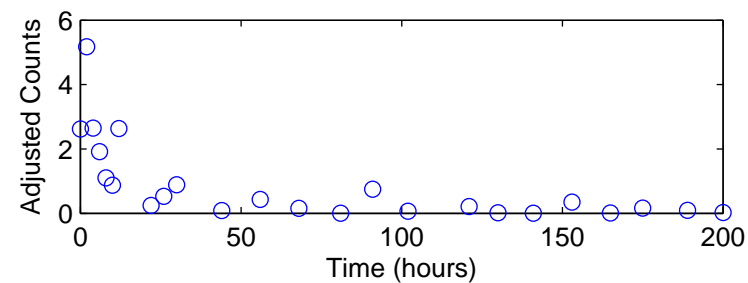
WTGS4Y | Mouse: 3b



Results of NLR analysis



Residuals



Half Life 1: **62.8 hours**

Half Life 2: **5.748 hours**

Fit Parameters:

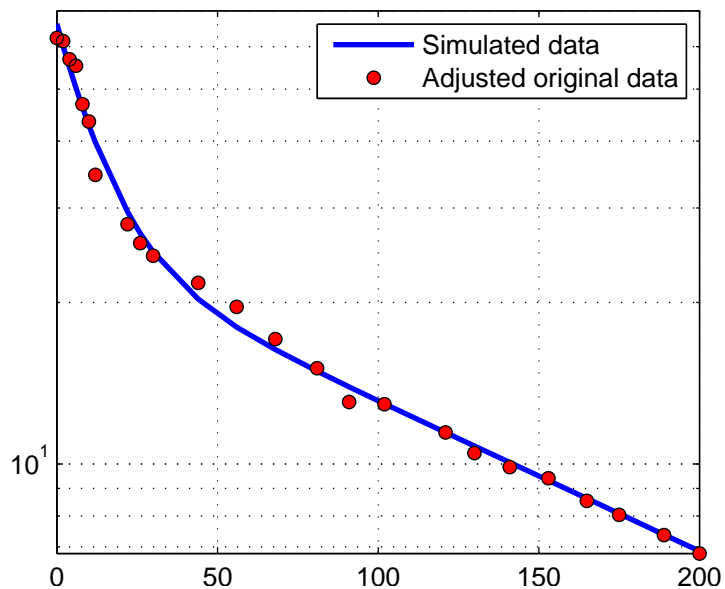
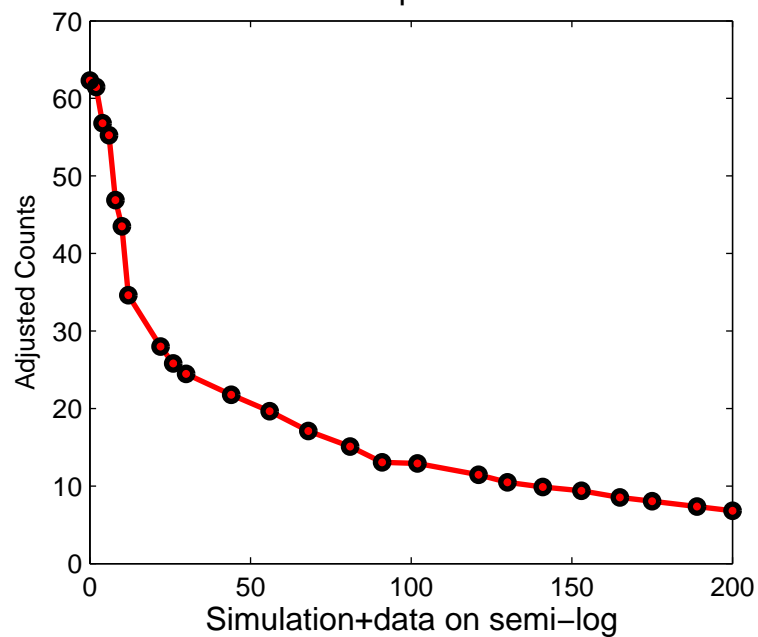
Coefficient 1: 64.67; Coefficient 2: 43.58

k1: 0.011037; k2: 0.12058

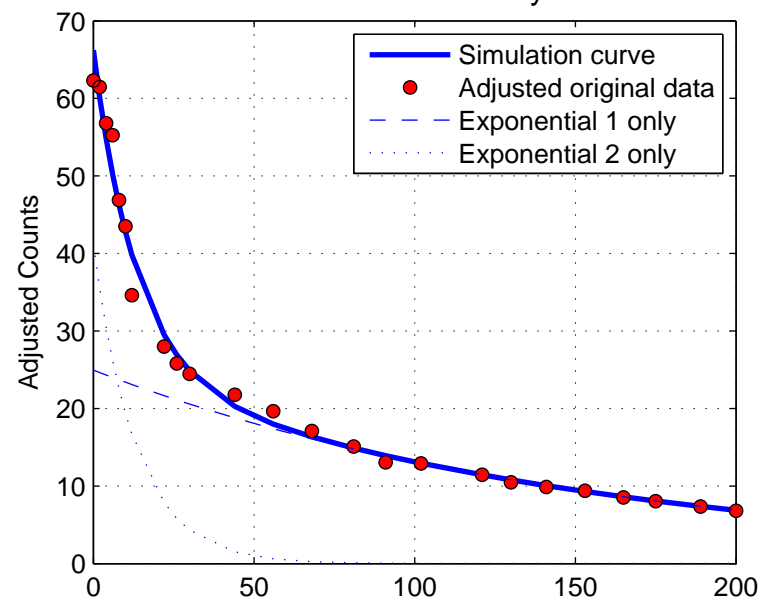
Initial Conditions:

C1: 64.40; k1: 0.0126; C2: 95.00; k2: 0.1260;

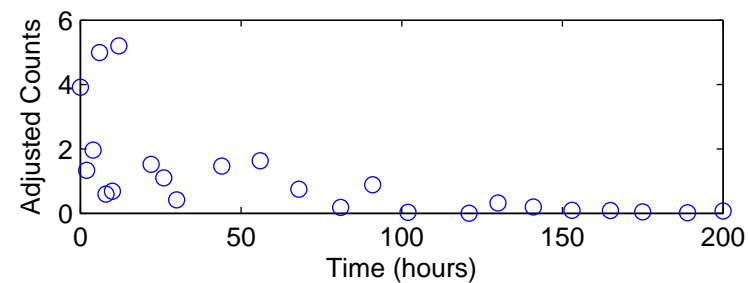
WTGS4Y | Mouse: 4b



Results of NLR analysis



Residuals



Half Life 1: **107.6 hours**

Half Life 2: **9.199 hours**

Fit Parameters:

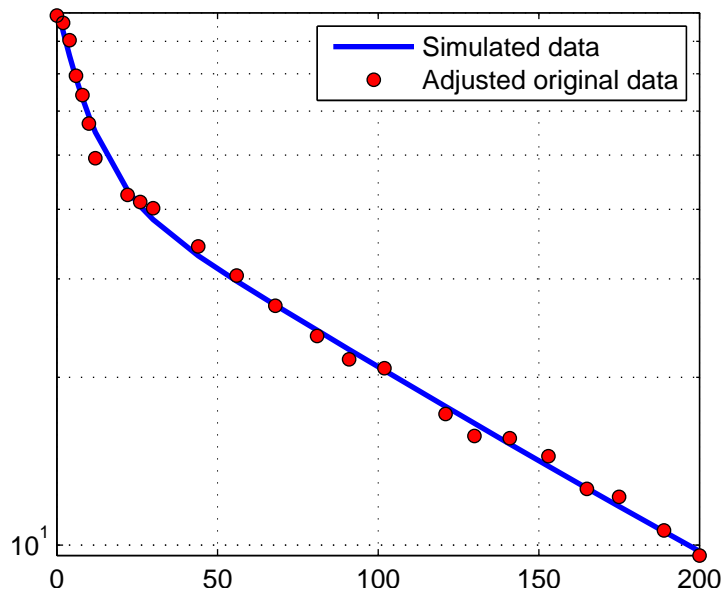
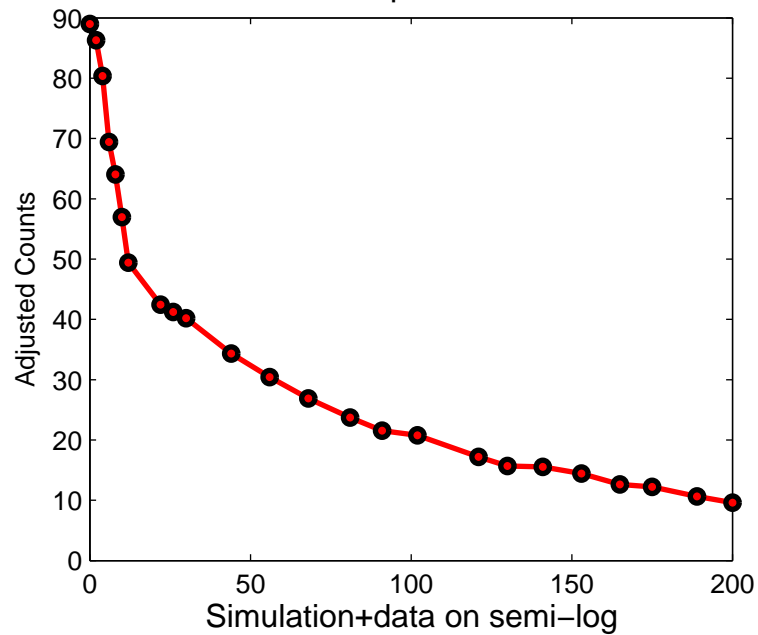
Coefficient 1: 66.22; Coefficient 2: 37.68

k1: 0.0064422; k2: 0.075348

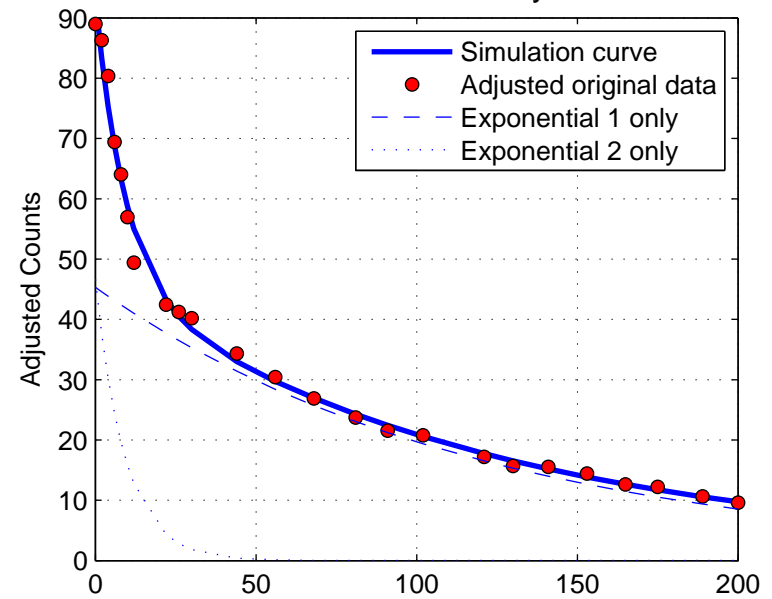
Initial Conditions:

C1: 62.30; k1: 0.0130; C2: 95.00; k2: 0.1303;

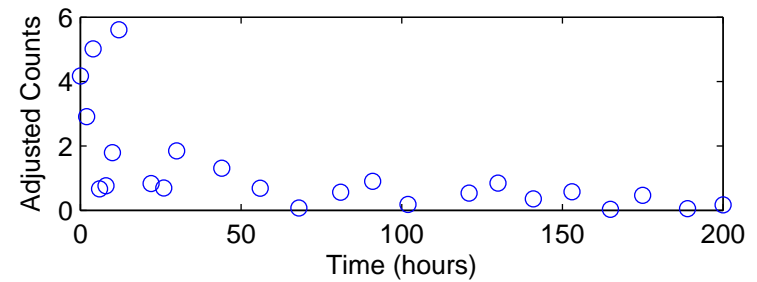
WTGS4Y | Mouse: NM



Results of NLR analysis



Residuals



Half Life 1: **83.09 hours**

Half Life 2: **6.424 hours**

Fit Parameters:

Coefficient 1: 91.97; Coefficient 2: 49.29

k1: 0.008342; k2: 0.10789

Initial Conditions:

C1: 89.00; k1: 0.0084; C2: 95.00; k2: 0.0845;