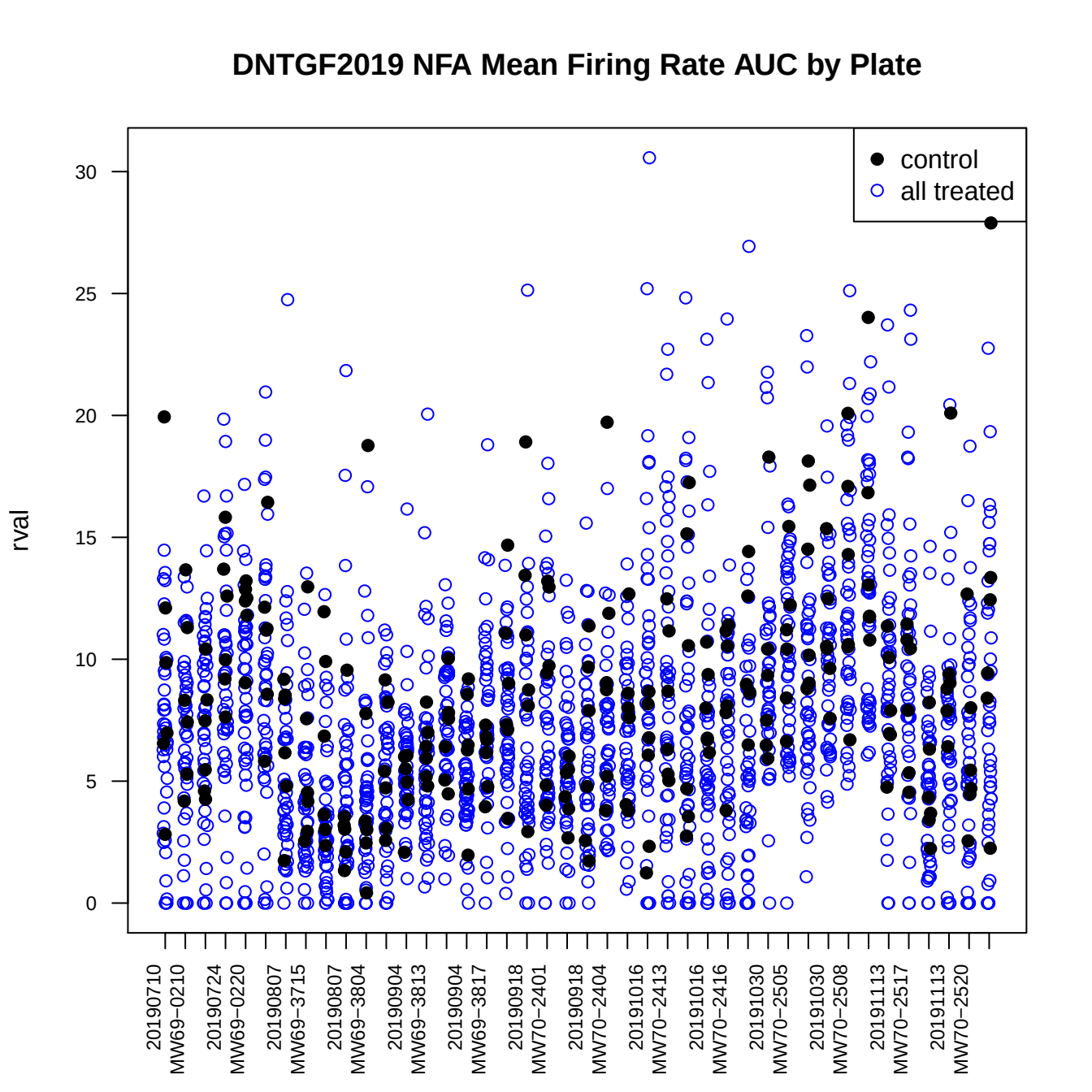
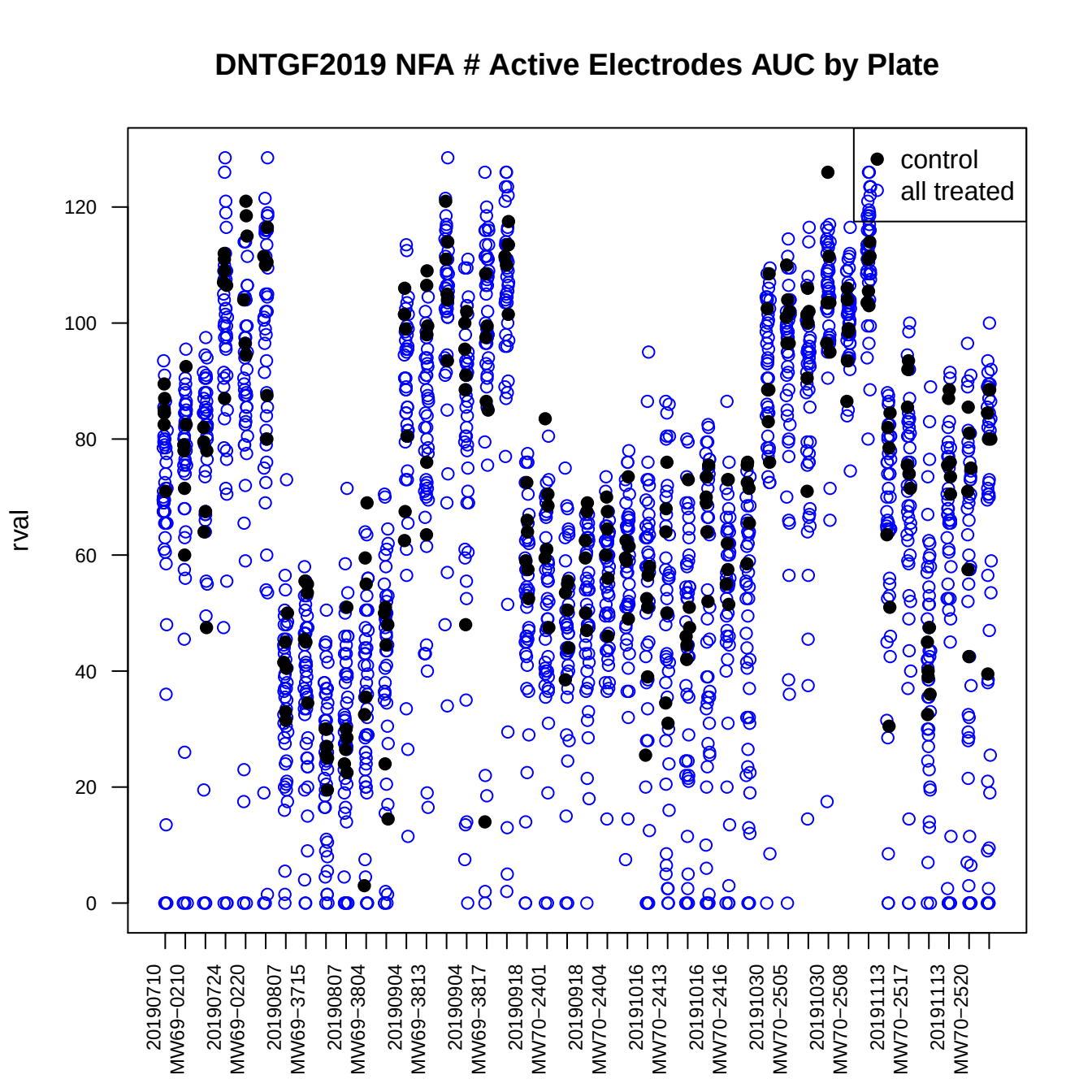
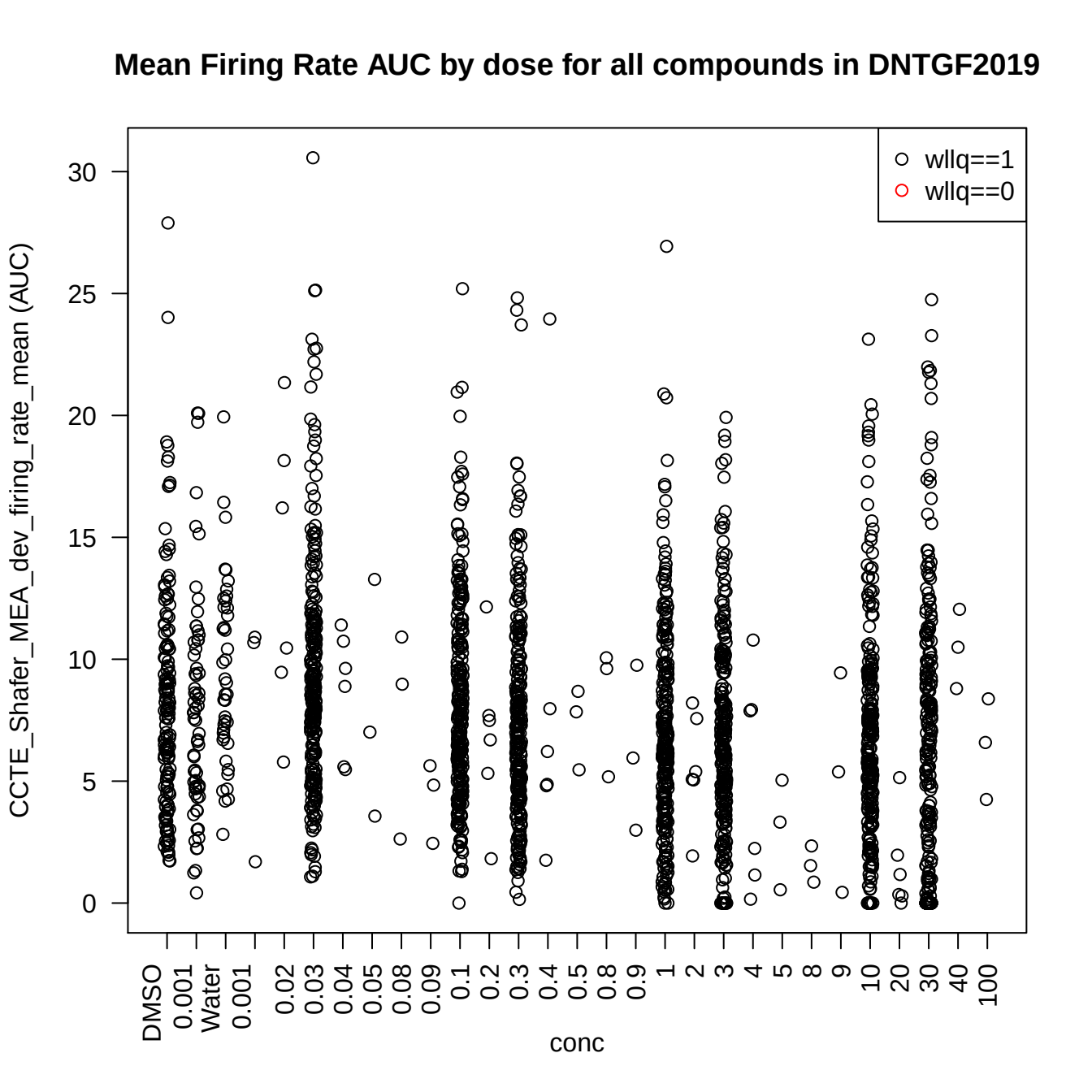
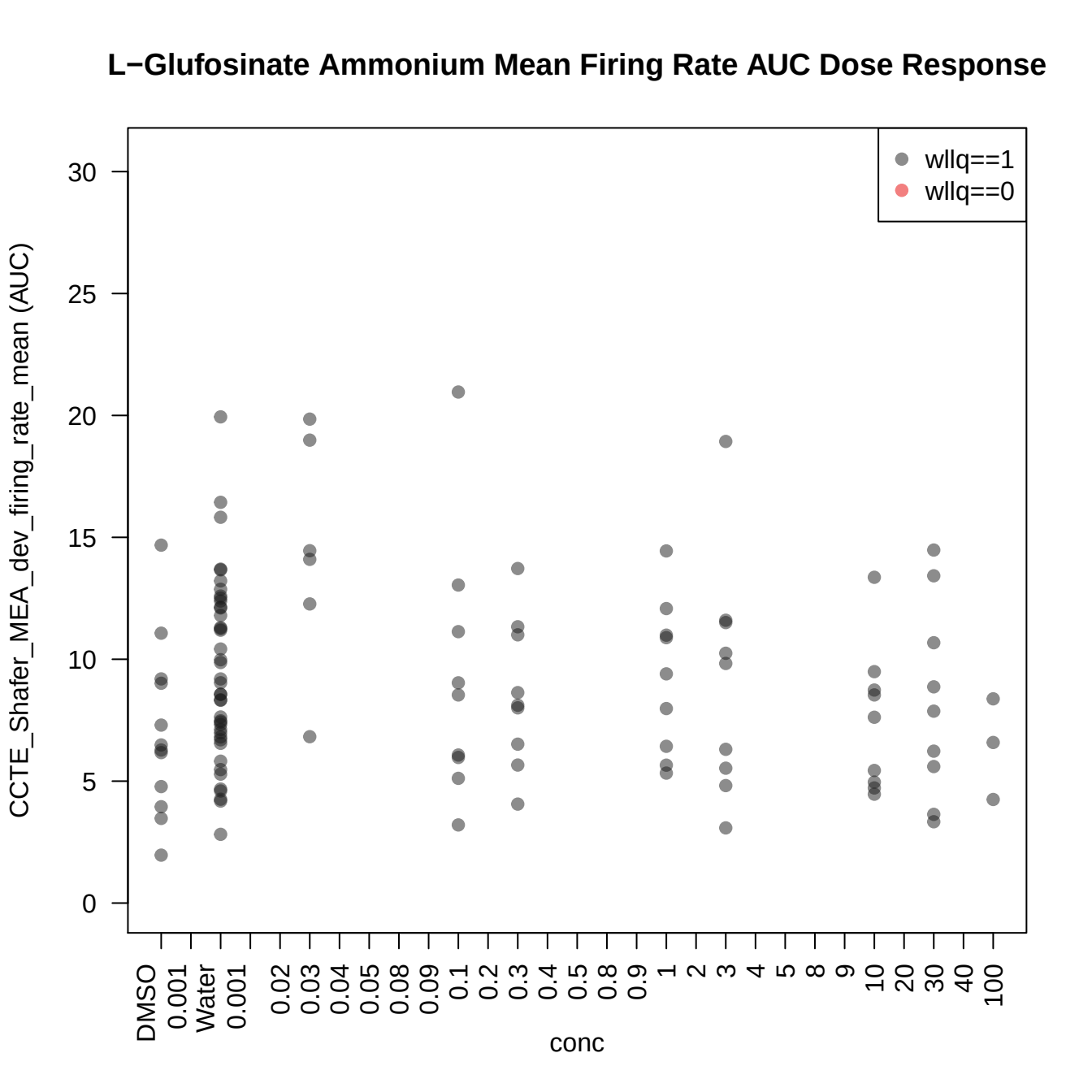
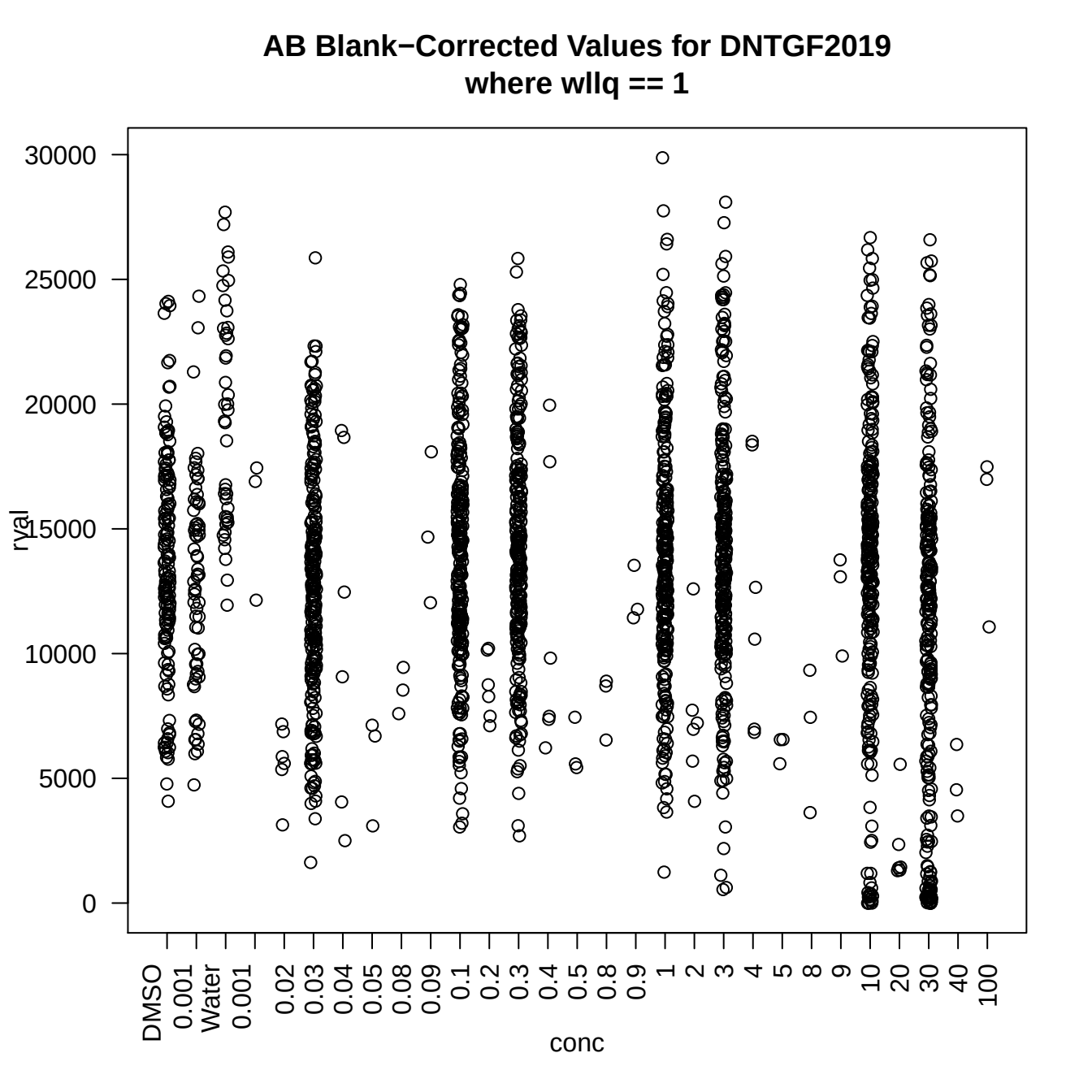
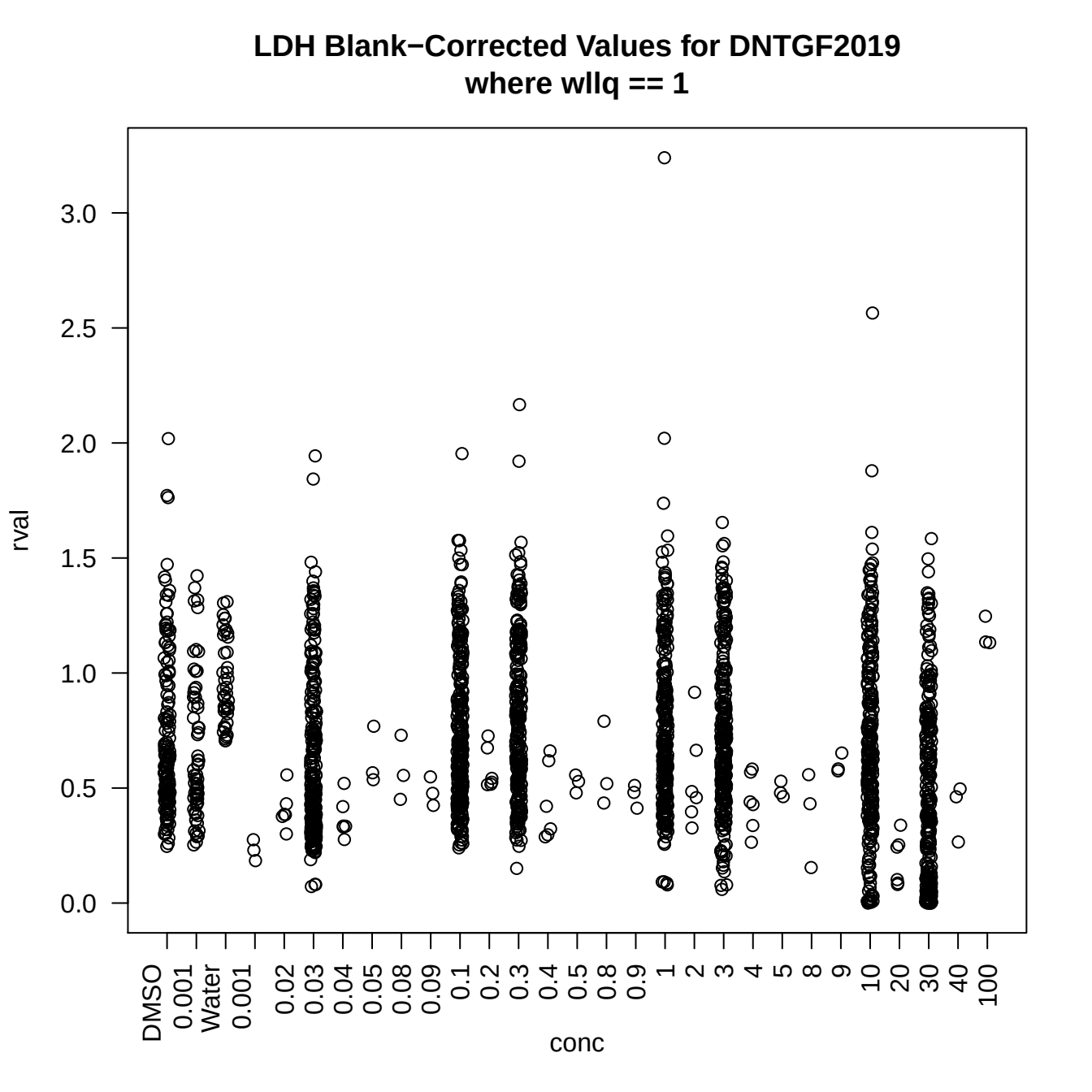

DNTGF2019 NFA Mean Firing Rate AUC by Plate
control
all treated
rval
0
5
10
15
20
25
30
20190710
MW69−0210
20190724
MW69−0220
20190807
MW69−3715
20190807
MW69−3804
20190904
MW69−3813
20190904
MW69−3817
20190918
MW70−2401
20190918
MW70−2404
20191016
MW70−2413
20191016
MW70−2416
20191030
MW70−2505
20191030
MW70−2508
20191113
MW70−2517
20191113
MW70−2520

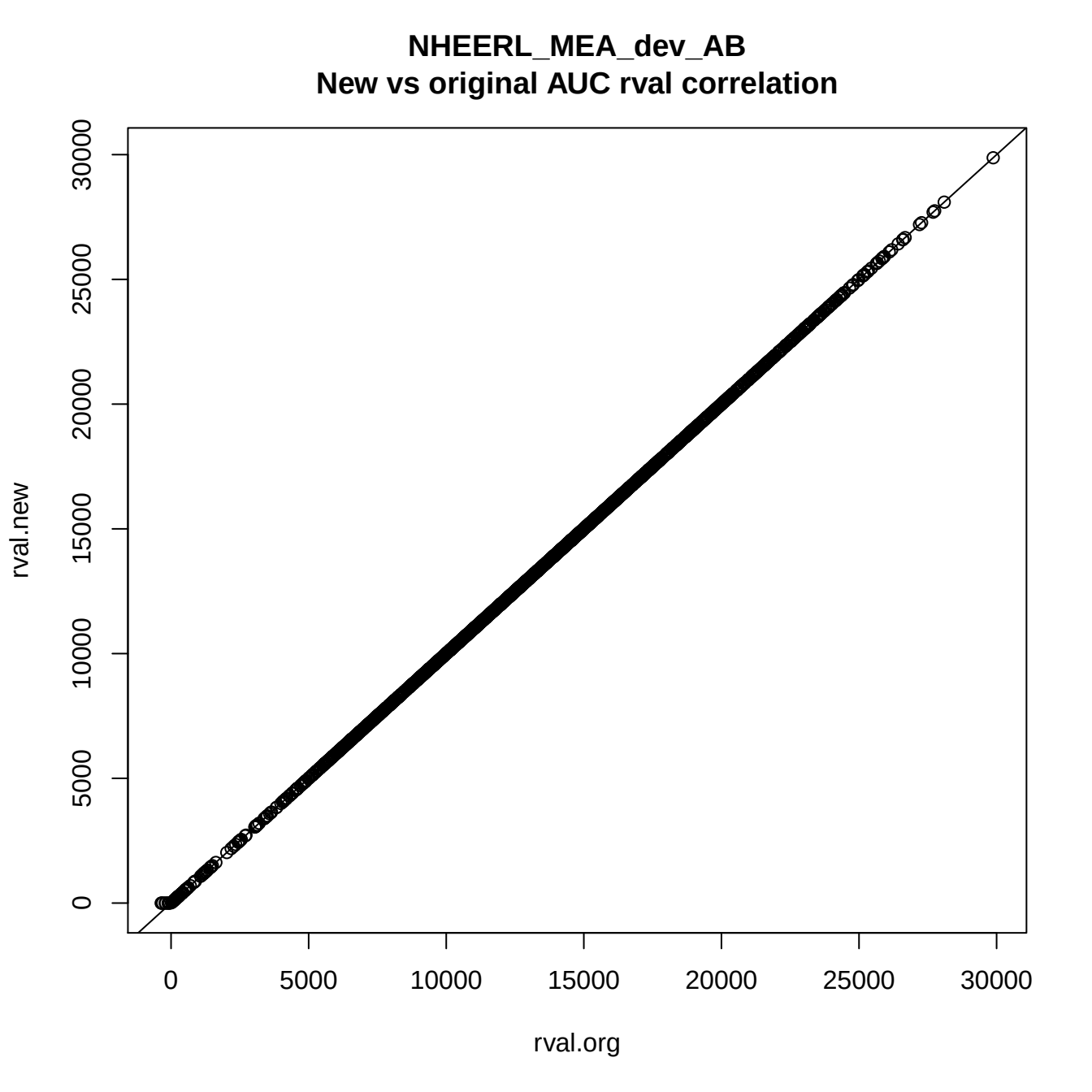

DNTGF2019 NFA # Active Electrodes AUC by Plate
control
all treated
rval
0
20
40
60
80
100
120
20190710
MW69−0210
20190724
MW69−0220
20190807
MW69−3715
20190807
MW69−3804
20190904
MW69−3813
20190904
MW69−3817
20190918
MW70−2401
20190918
MW70−2404
20191016
MW70−2413
20191016
MW70−2416
20191030
MW70−2505
20191030
MW70−2508
20191113
MW70−2517
20191113
MW70−2520

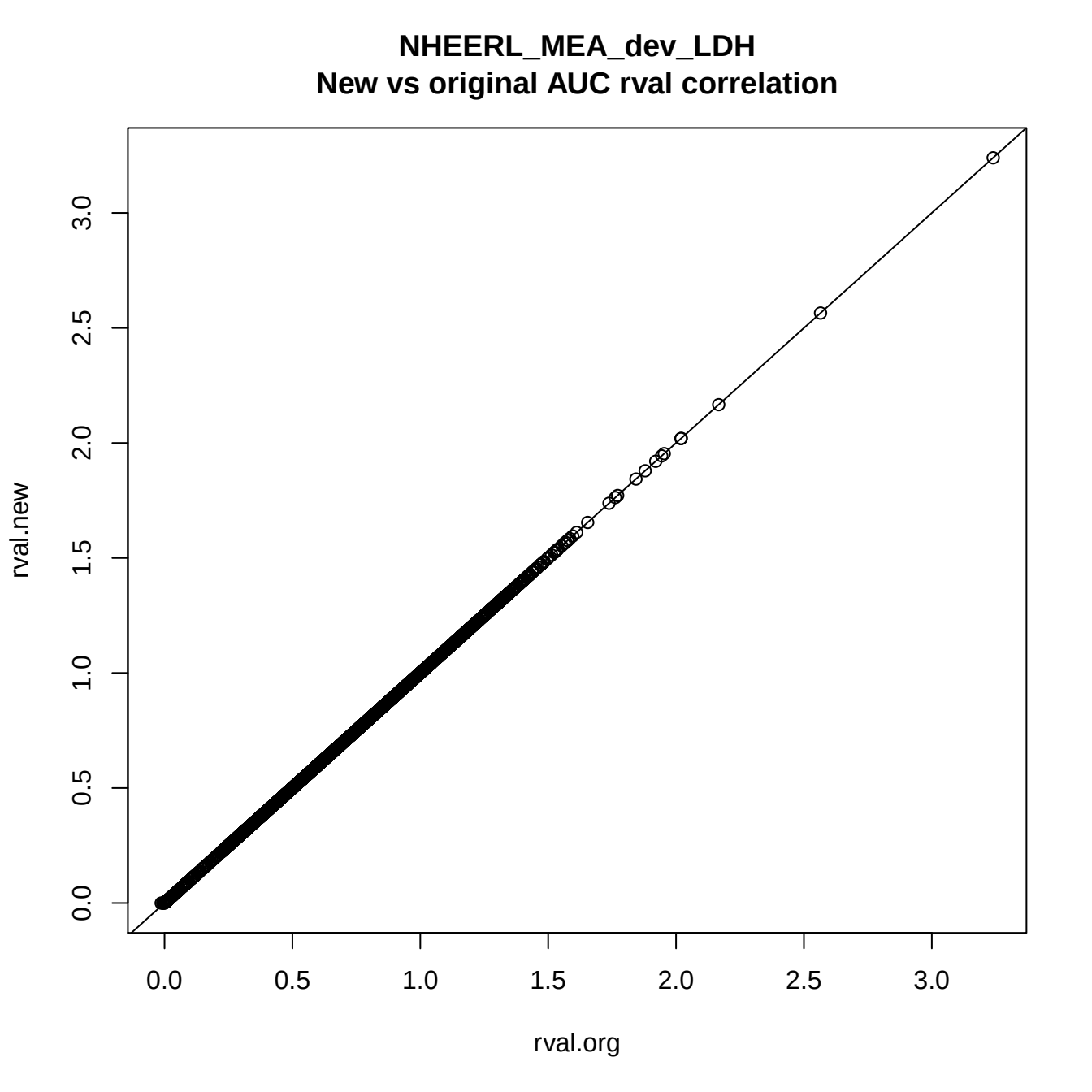

Mean Firing Rate AUC by dose for all compounds in DNTGF2019
wllq==1
wllq==0
CCTE_Shafer_MEA_dev_firing_rate_mean (AUC)
0
5
10
15
20
25
30
DMSO
0.001
Water
0.001
0.02
0.03
0.04
0.05
0.08
0.09
0.1
0.2
0.3
0.4
0.5
0.8
0.9
1
2
3
4
5
8
9
10
20
30
40
100
conc

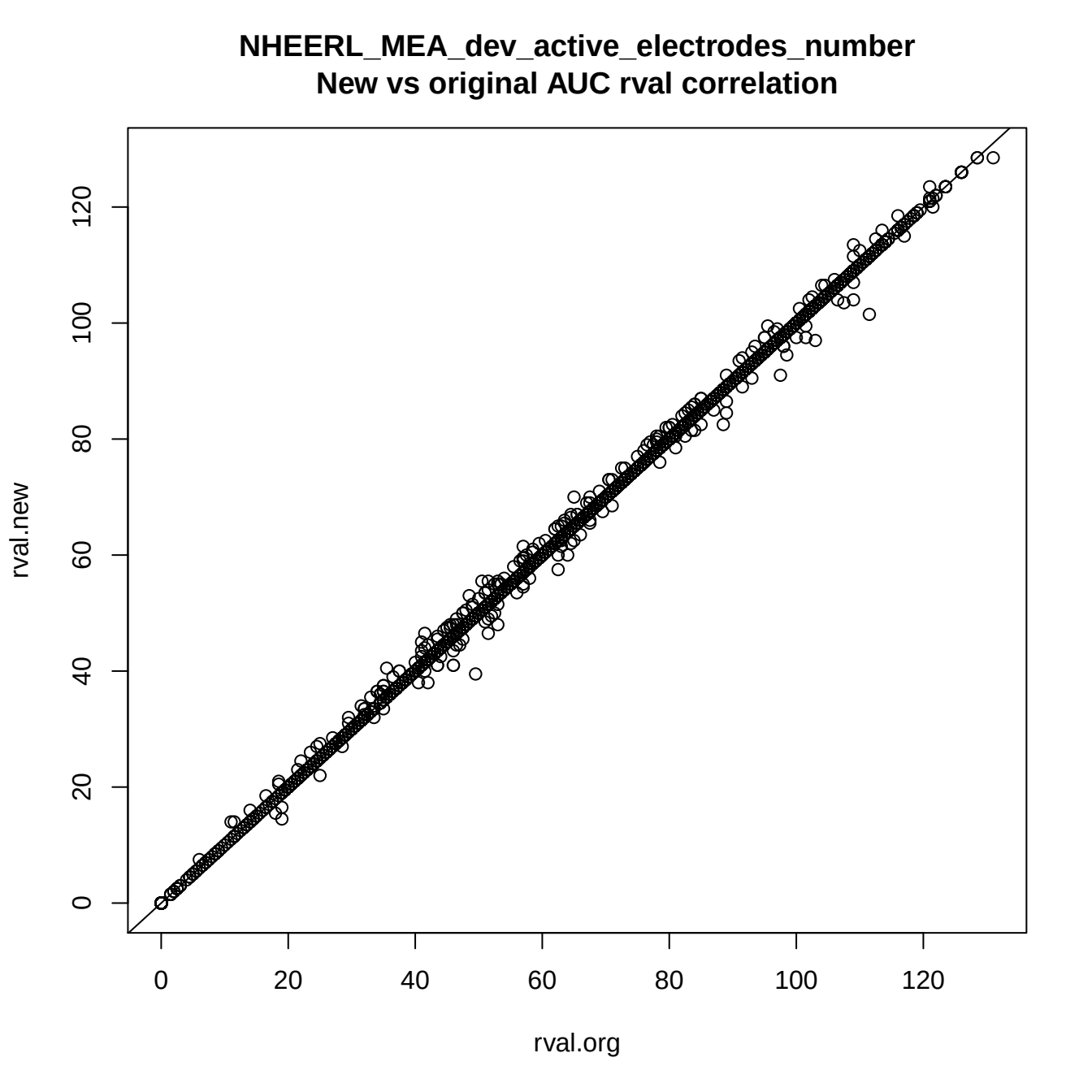

L−Glufosinate Ammonium Mean Firing Rate AUC Dose Response
wllq==1
wllq==0
CCTE_Shafer_MEA_dev_firing_rate_mean (AUC)
0
5
10
15
20
25
30
DMSO
0.001
Water
0.001
0.02
0.03
0.04
0.05
0.08
0.09
0.1
0.2
0.3
0.4
0.5
0.8
0.9
1
2
3
4
5
8
9
10
20
30
40
100
conc

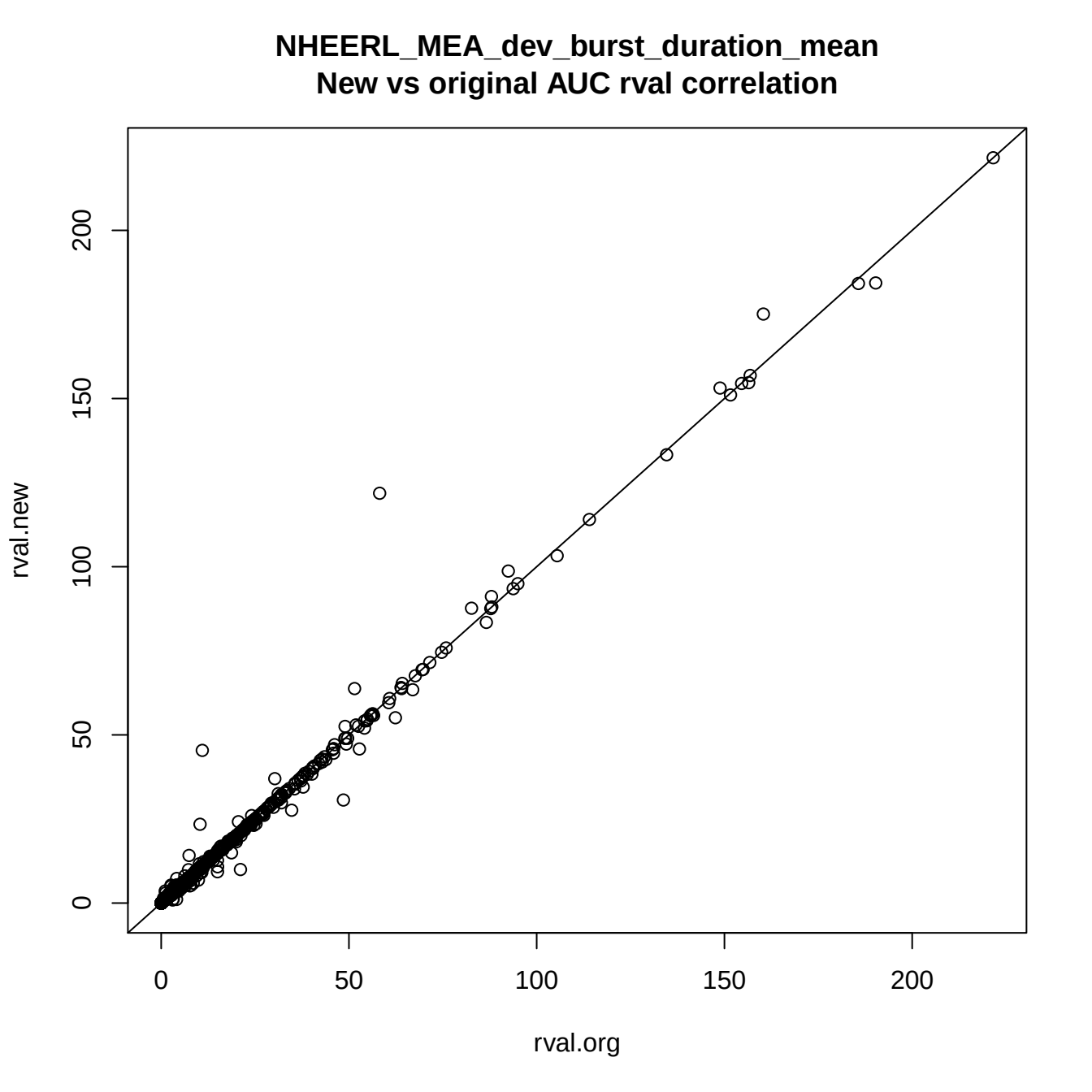

AB Blank−Corrected Values for DNTGF2019
where wllq == 1
rval
conc
30000
25000
20000
15000
10000
5000
0
DMSO
0.001
Water
0.001
0.02
0.03
0.04
0.05
0.08
0.09
0.1
0.2
0.3
0.4
0.5
0.8
0.9
1
2
3
4
5
8
9
10
20
30
40
100

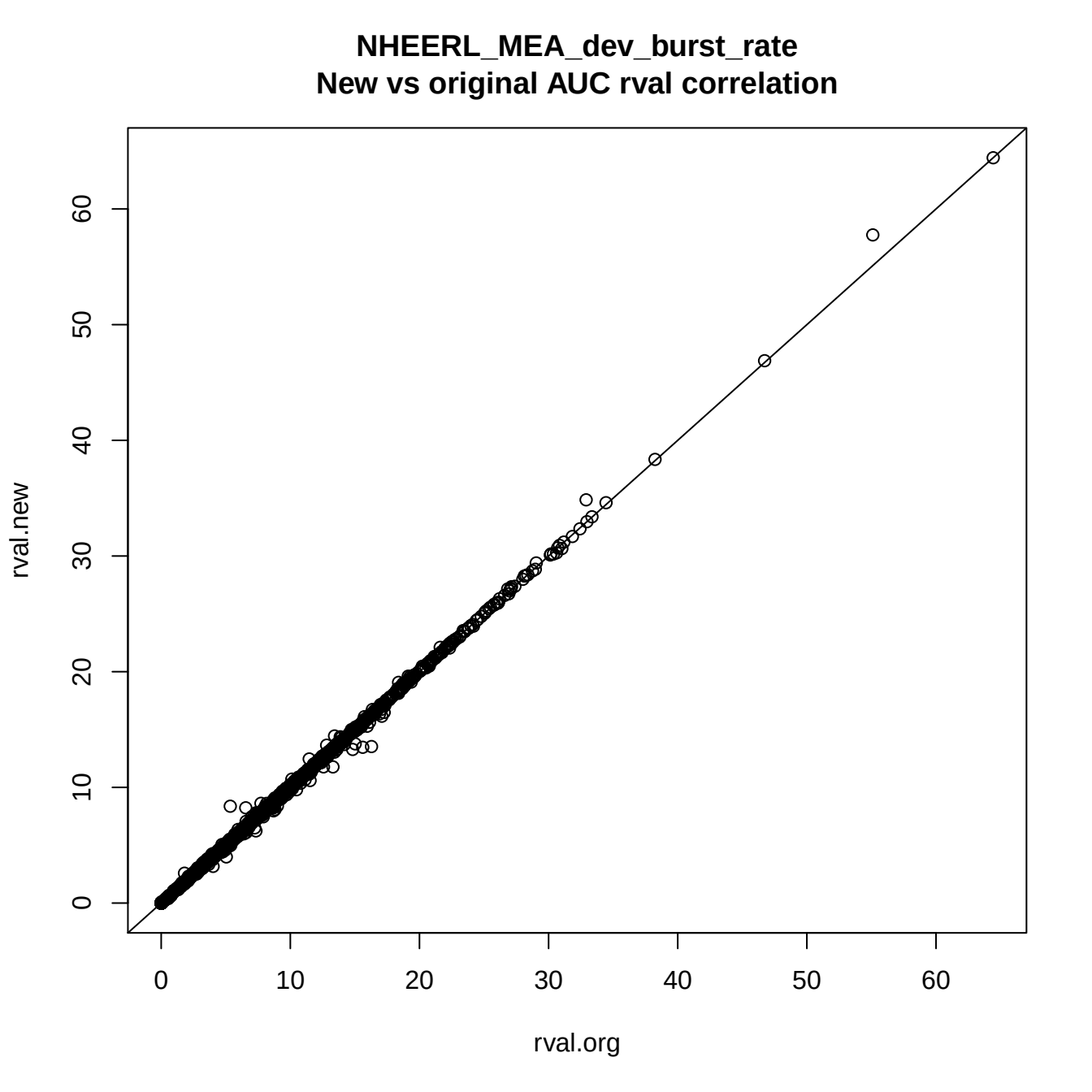

LDH Blank−Corrected Values for DNTGF2019
where wllq == 1
rval
3.0
2.5
2.0
1.5
1.0
0.5
0.0
DMSO
0.001
Water
0.001
0.02
0.03
0.04
0.05
0.08
0.09
0.1
0.2
0.3
0.4
0.5
0.8
0.9
1
2
3
4
5
8
9
10
20
30
40
100
conc

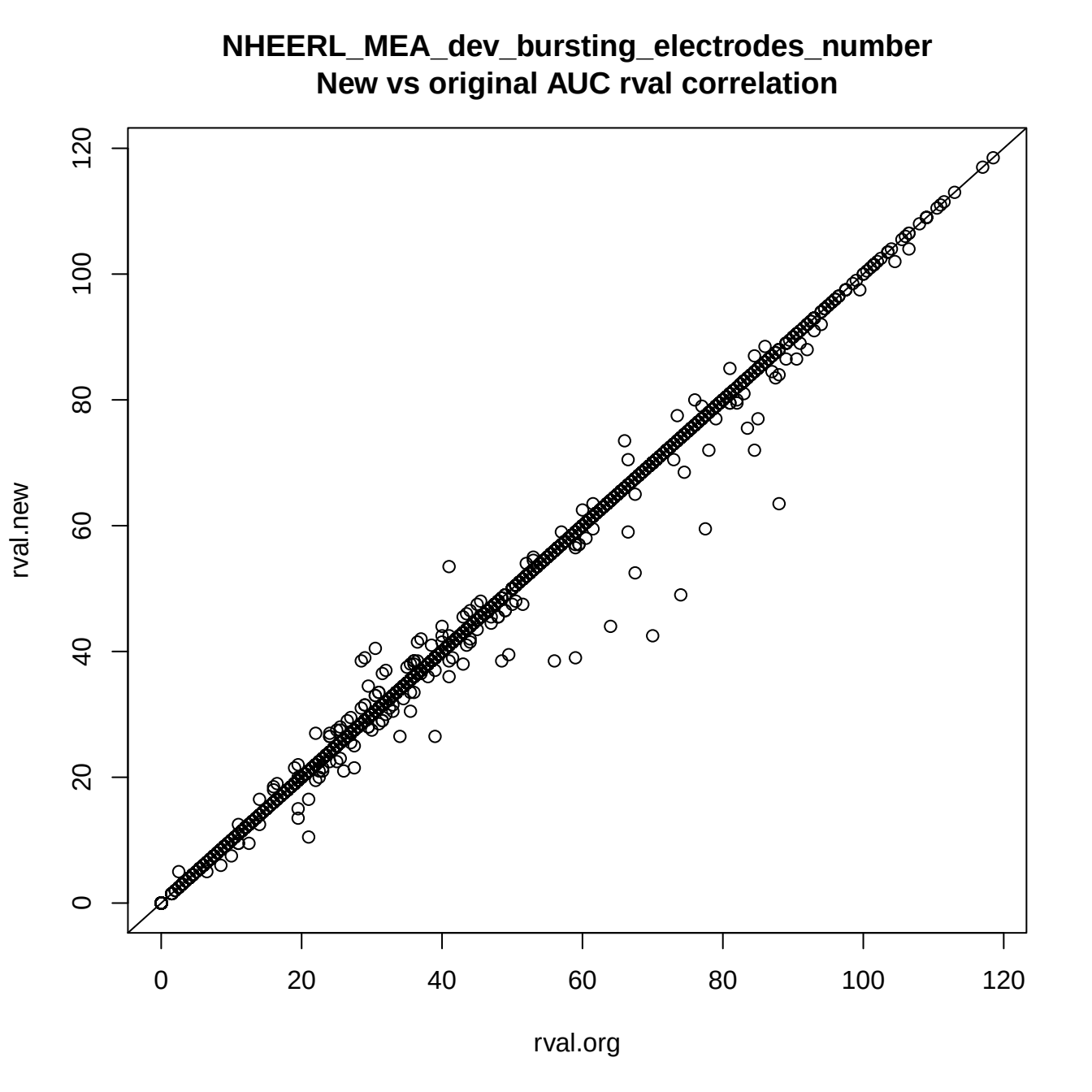

NHEERL_MEA_dev_AB
New vs original AUC rval correlation
rval.new
rval.org
0
5000
10000
15000
20000
25000
30000

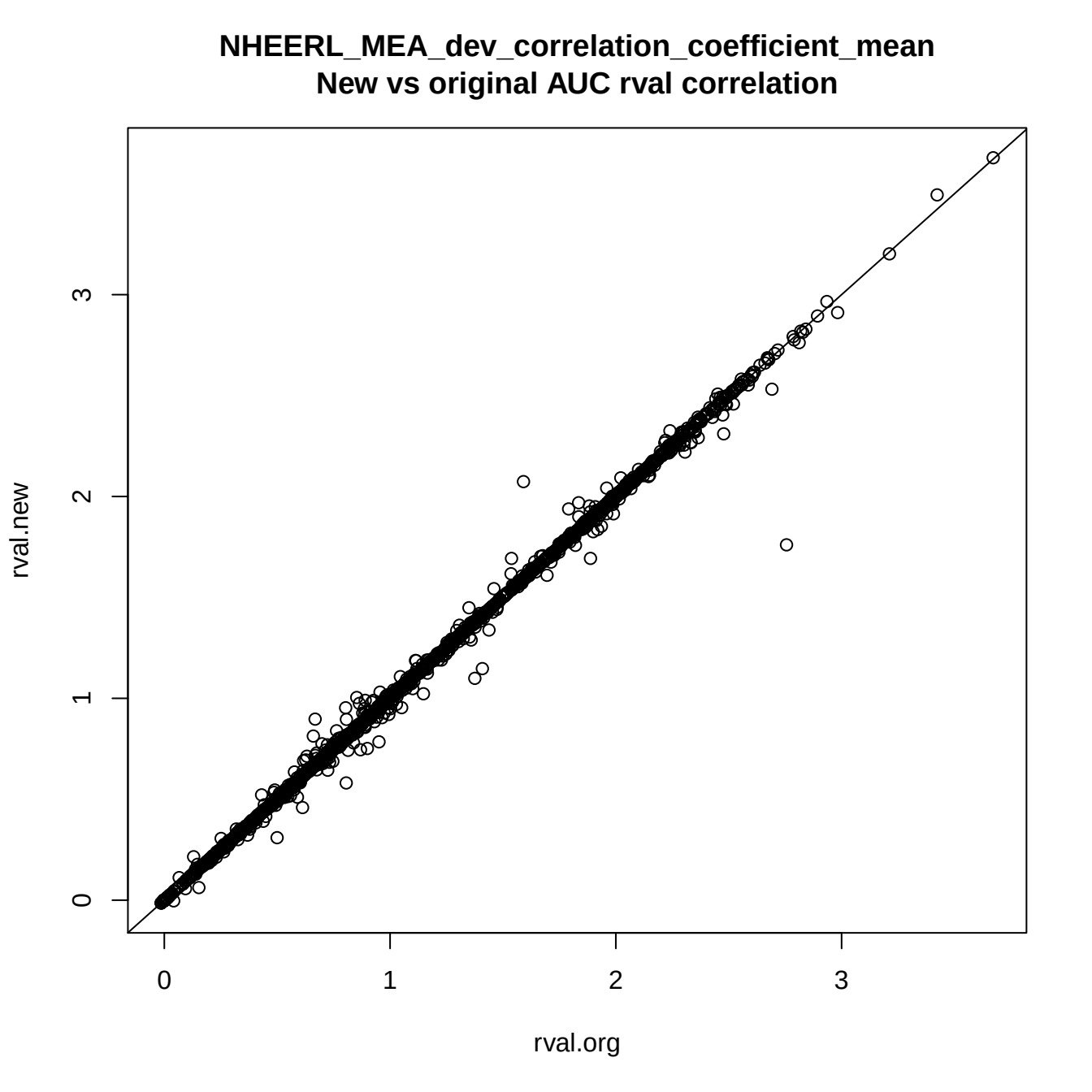

NHEERL_MEA_dev_LDH
New vs original AUC rval correlation
rval.new
rval.org
0.0
0.5
1.0
1.5
2.0
2.5
3.0

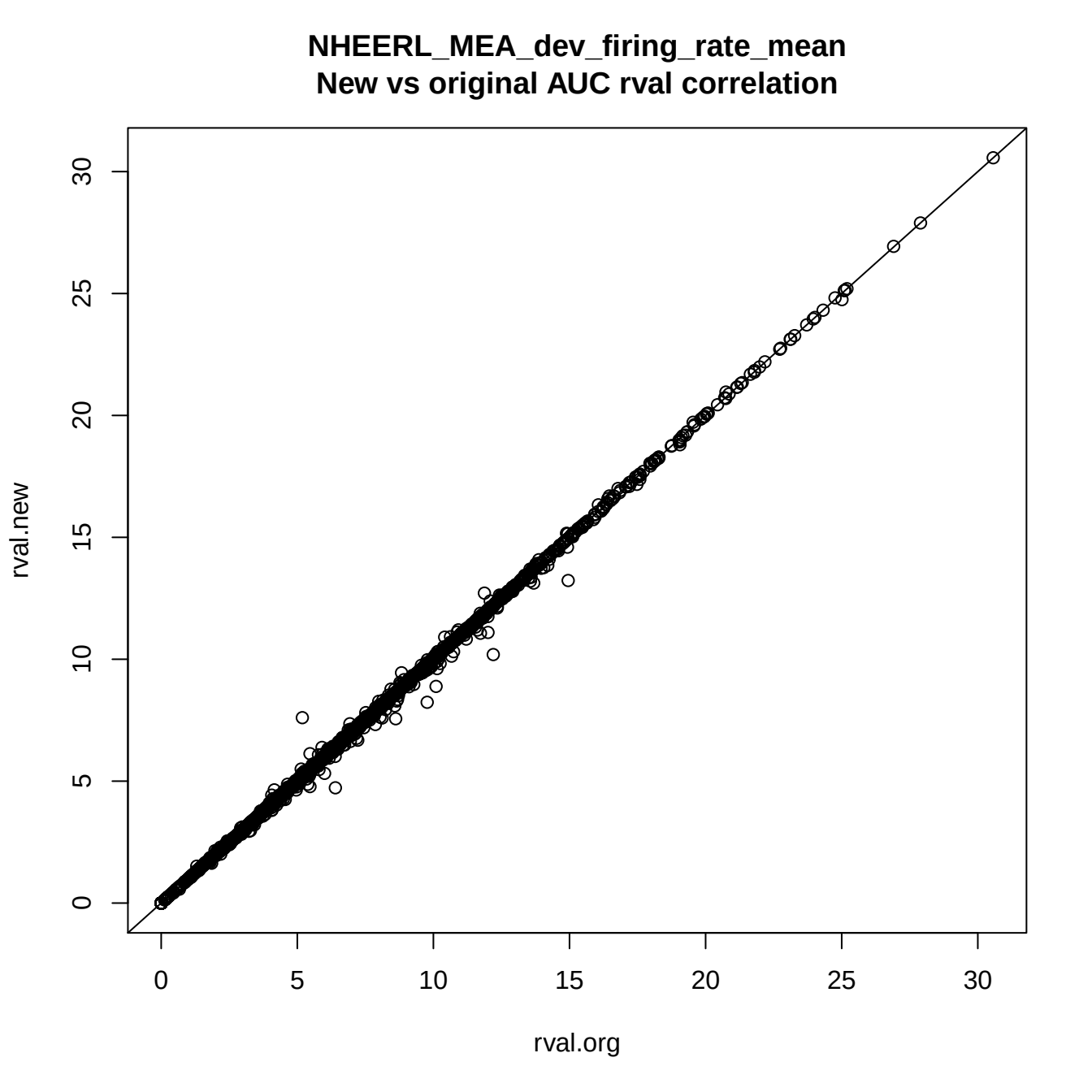

NHEERL_MEA_dev_active_electrodes_number
New vs original AUC rval correlation
rval.new
rval.org
0
20
40
60
80
100
120

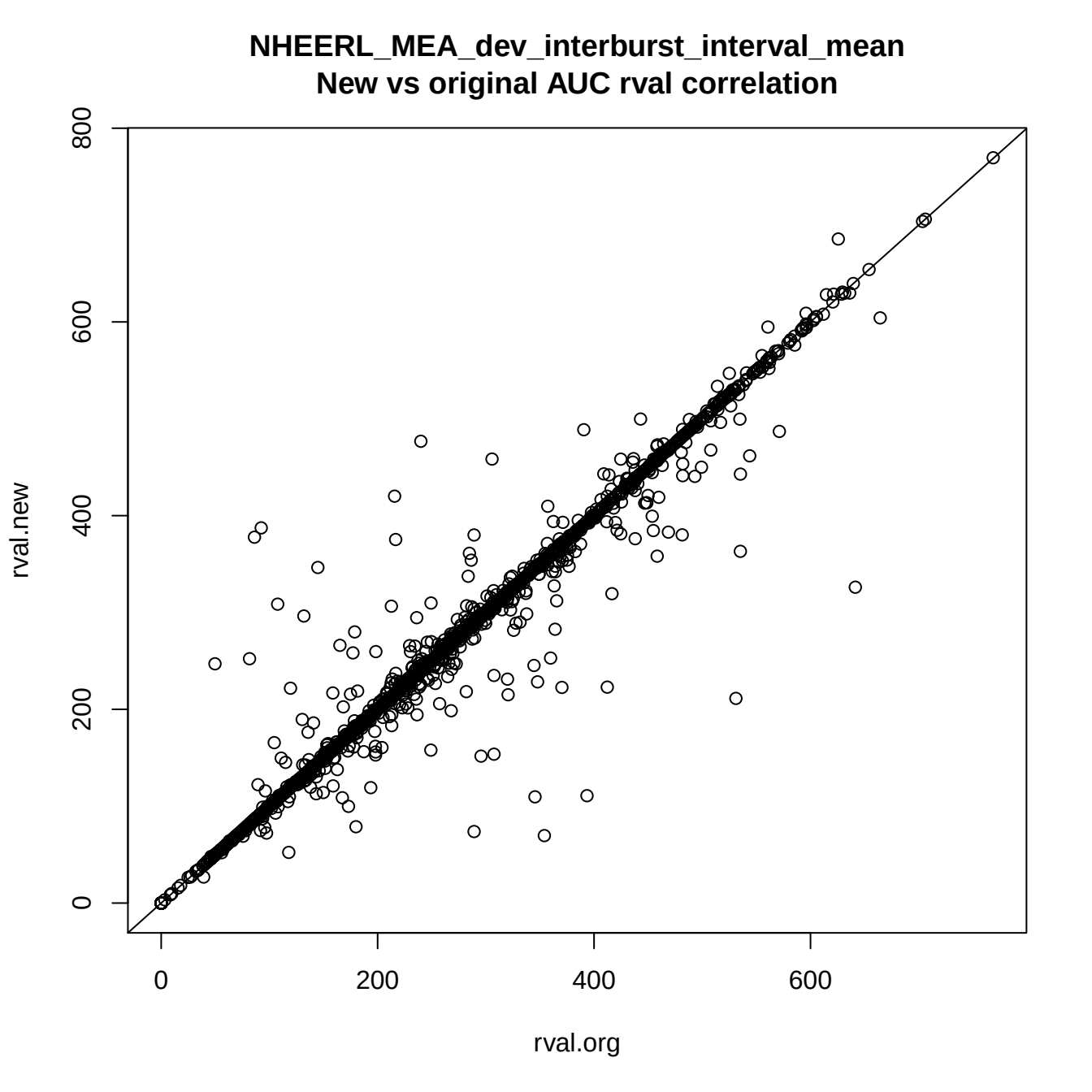

NHEERL_MEA_dev_burst_duration_mean
New vs original AUC rval correlation
rval.new
rval.org
0
50
100
150
200

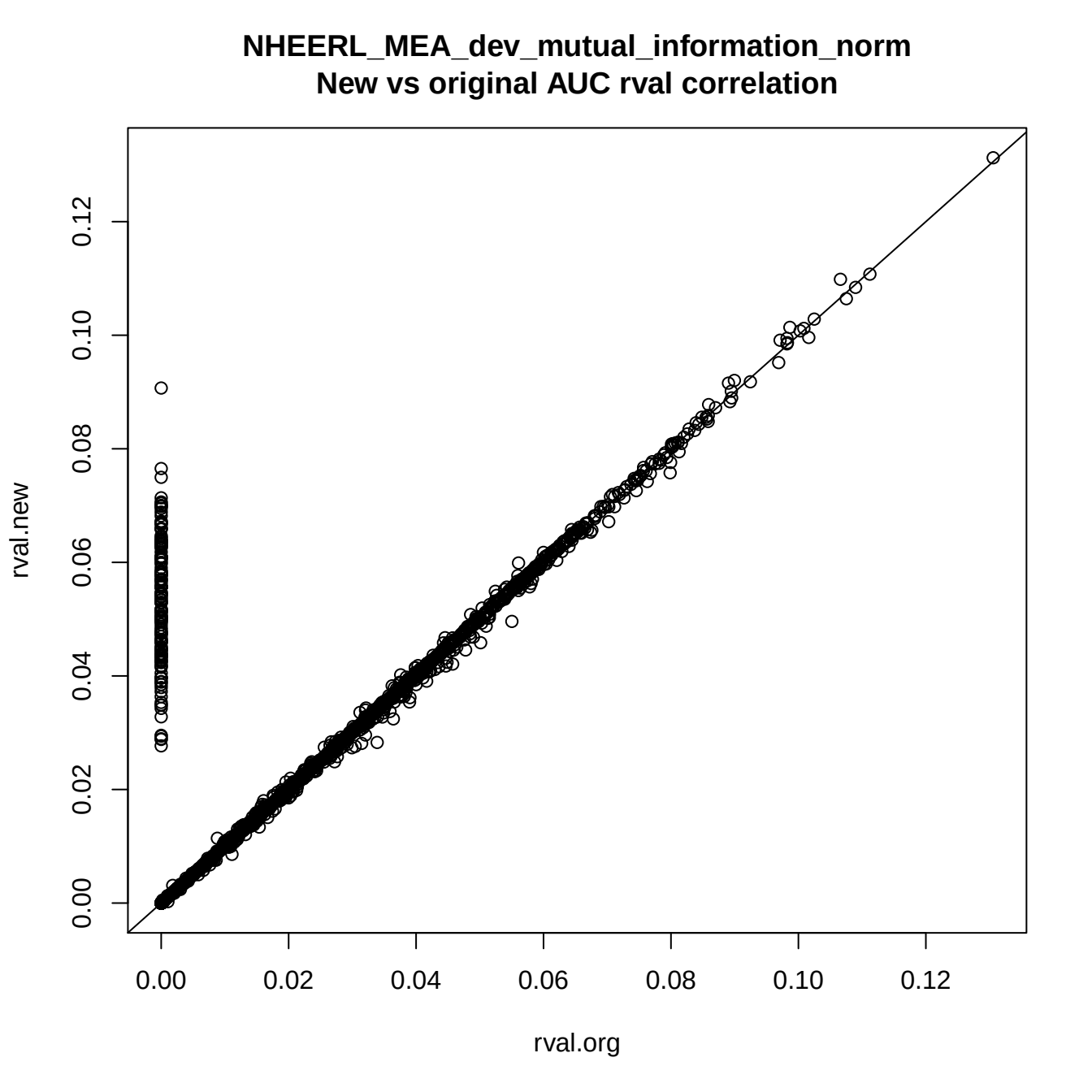

NHEERL_MEA_dev_burst_rate
New vs original AUC rval correlation
rval.new
rval.org
0
10
20
30
40
50
60

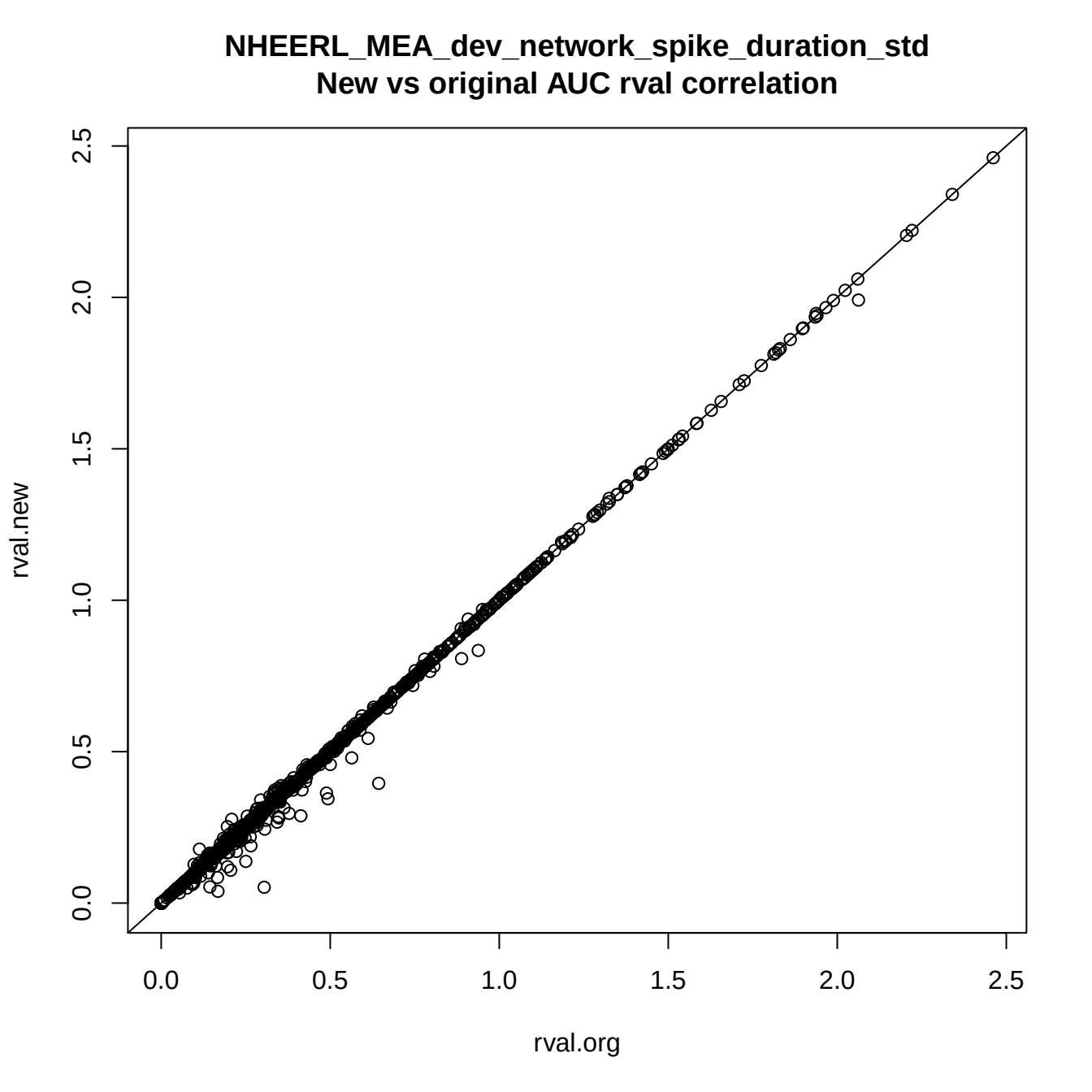

NHEERL_MEA_dev_bursting_electrodes_number
New vs original AUC rval correlation
rval.new
rval.org
0
20
40
60
80
100
120

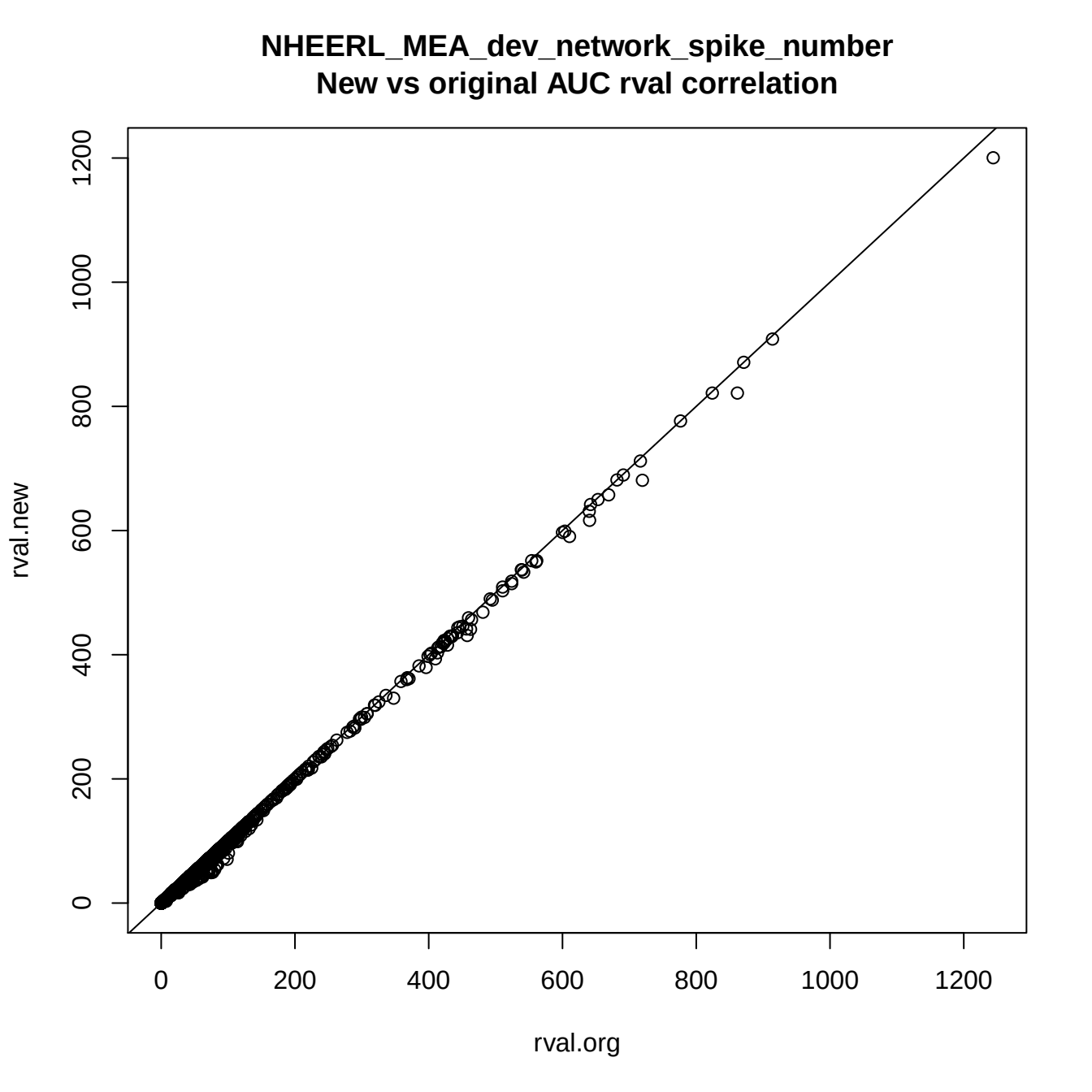

NHEERL_MEA_dev_correlation_coefficient_mean
New vs original AUC rval correlation
rval.new
rval.org
0
1
2
3

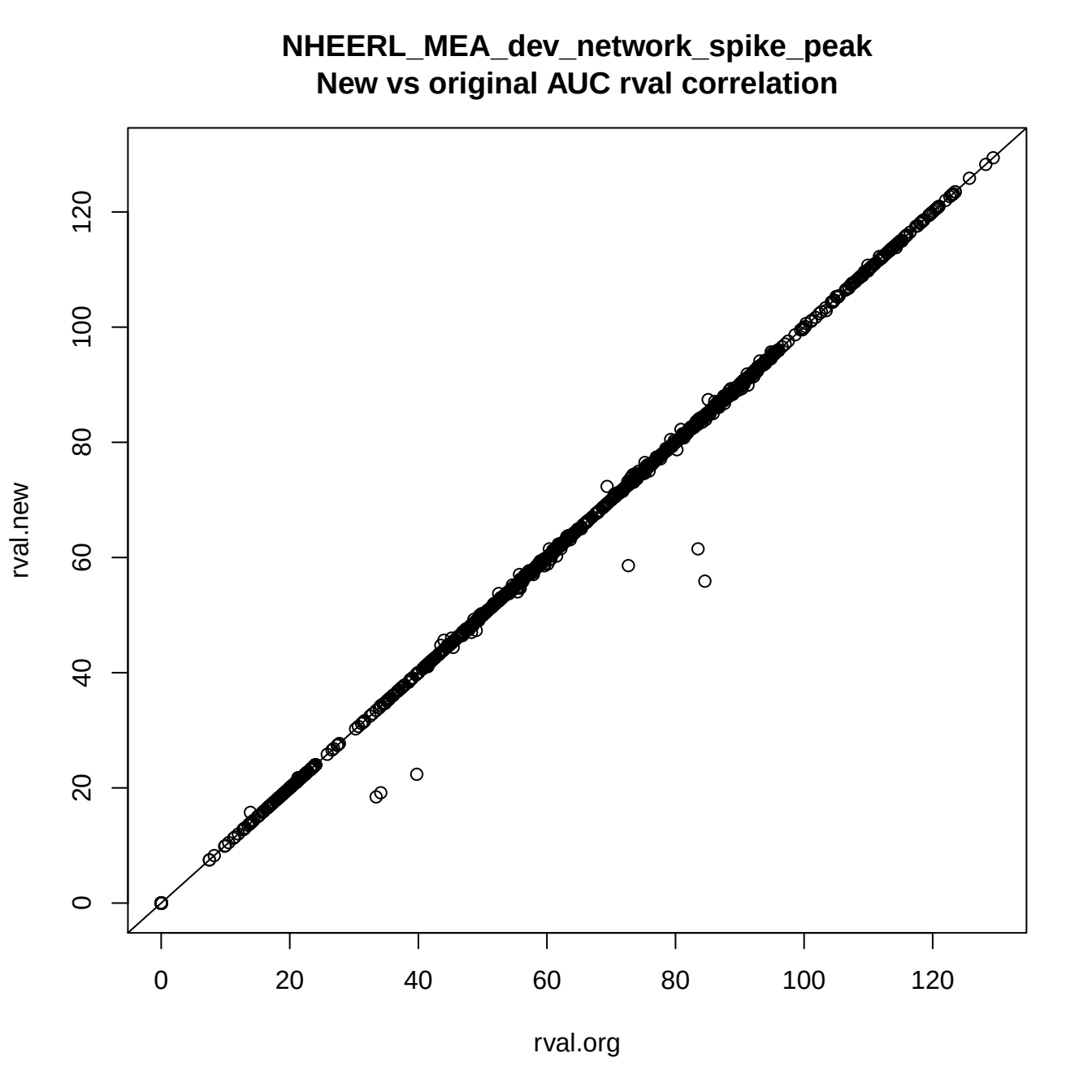

NHEERL_MEA_dev_firing_rate_mean
New vs original AUC rval correlation
rval.new
rval.org
0
5
10
15
20
25
30

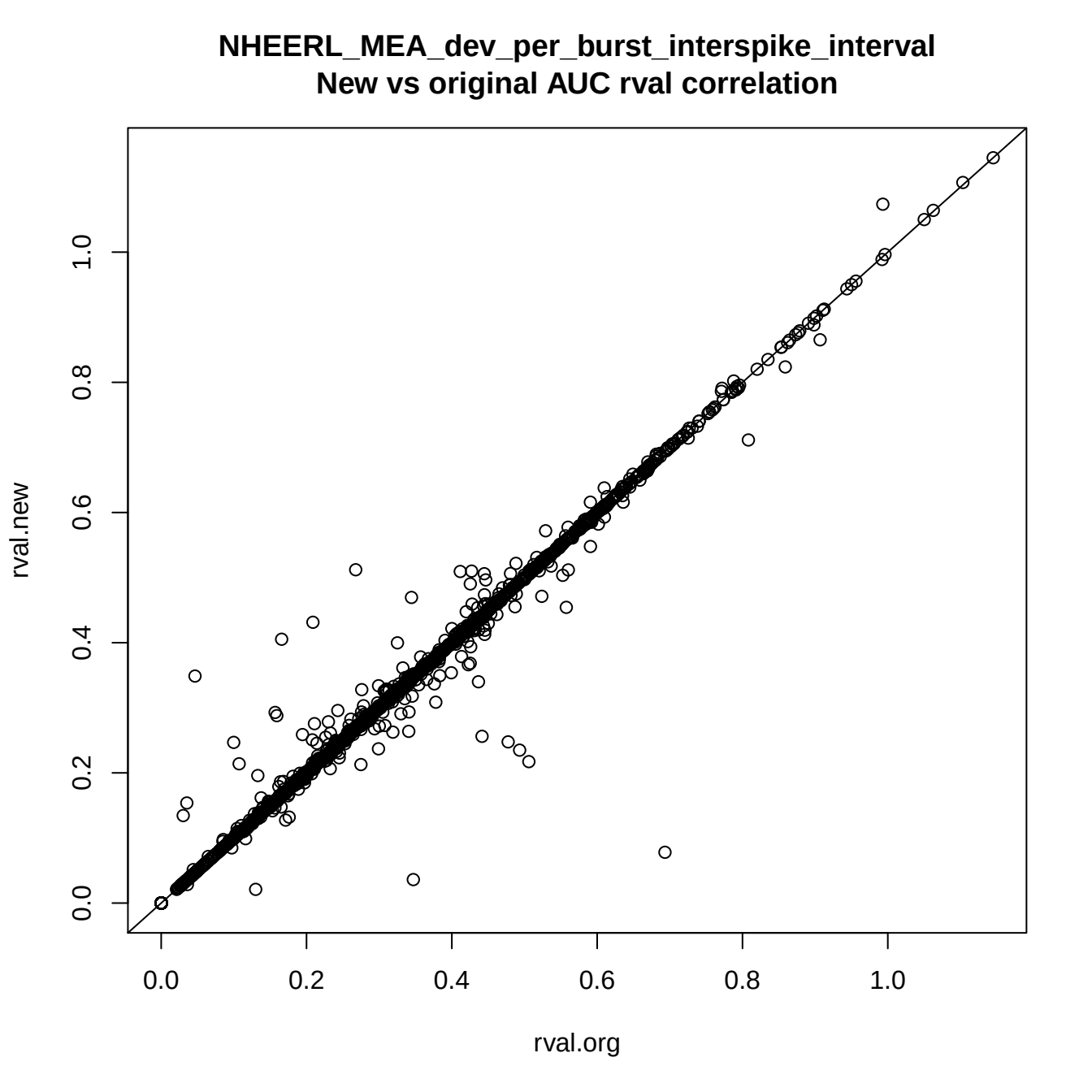

NHEERL_MEA_dev_interburst_interval_mean
New vs original AUC rval correlation
rval.new
rval.org
0
200
400
600
800
0
200
400
600

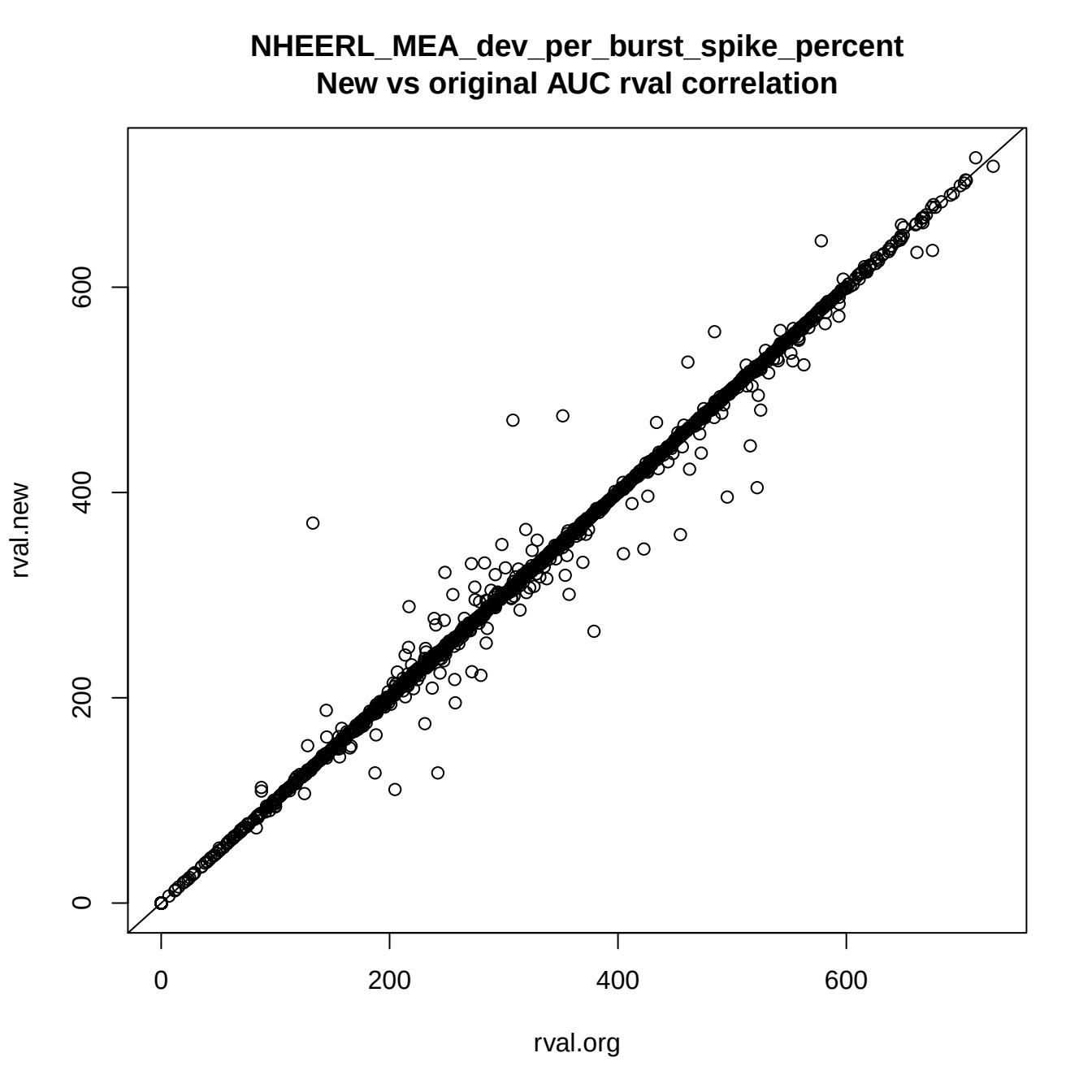

NHEERL_MEA_dev_mutual_information_norm
New vs original AUC rval correlation
rval.new
rval.org
0.00
0.02
0.04
0.06
0.08
0.10
0.12

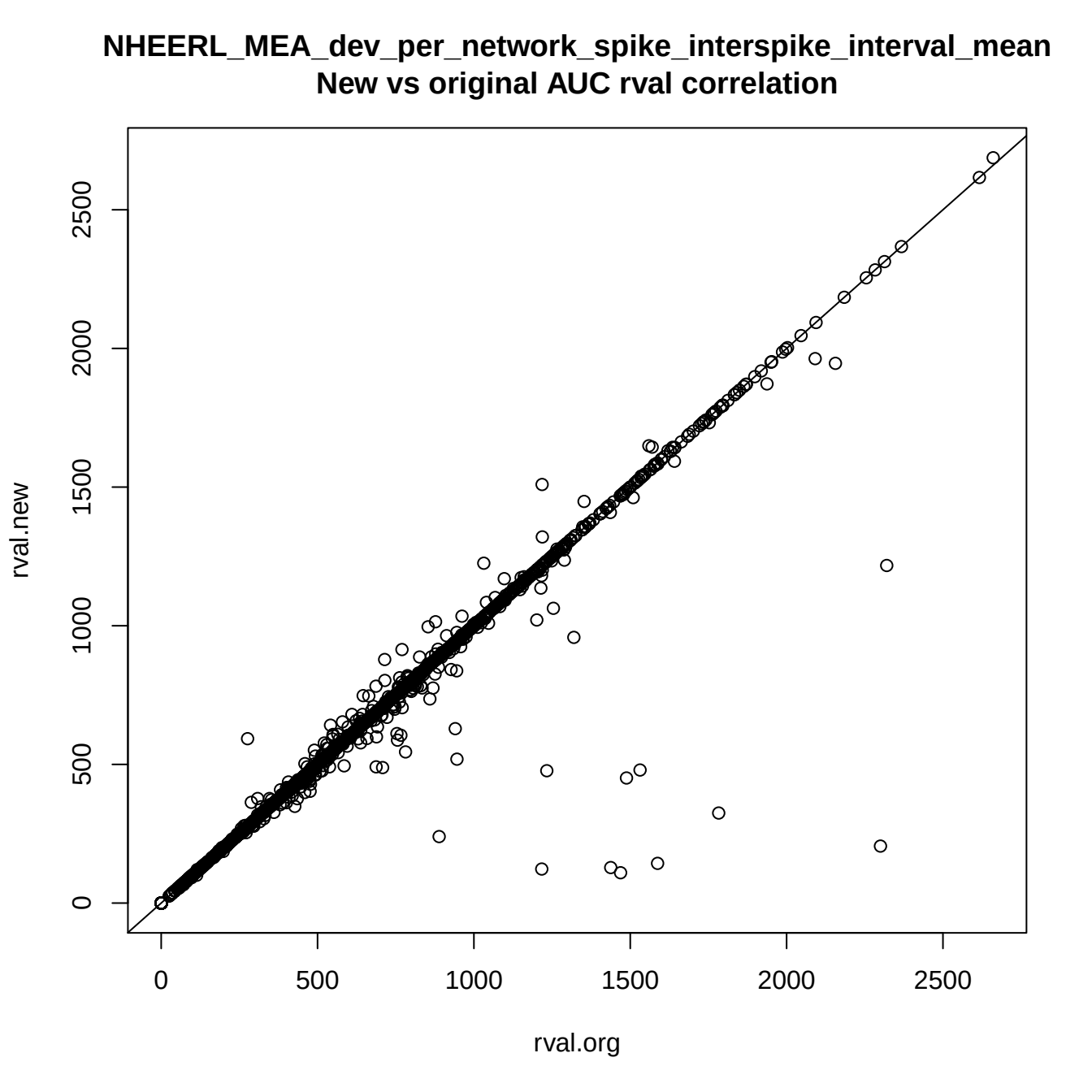

NHEERL_MEA_dev_network_spike_duration_std
New vs original AUC rval correlation
rval.new
rval.org
0.0
0.5
1.0
1.5
2.0
2.5

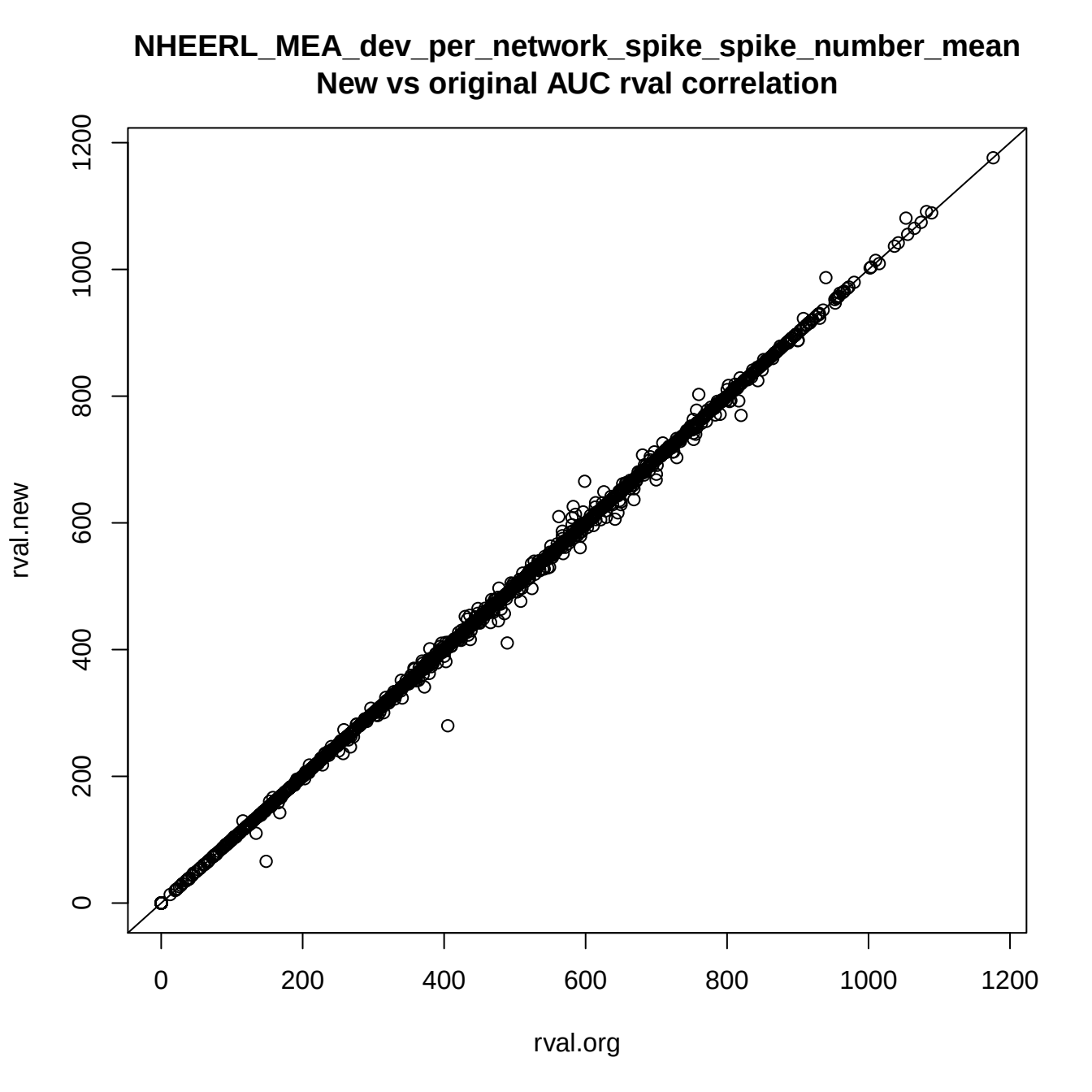

NHEERL_MEA_dev_network_spike_number
New vs original AUC rval correlation
rval.new
rval.org
0
200
400
600
800
1000
1200

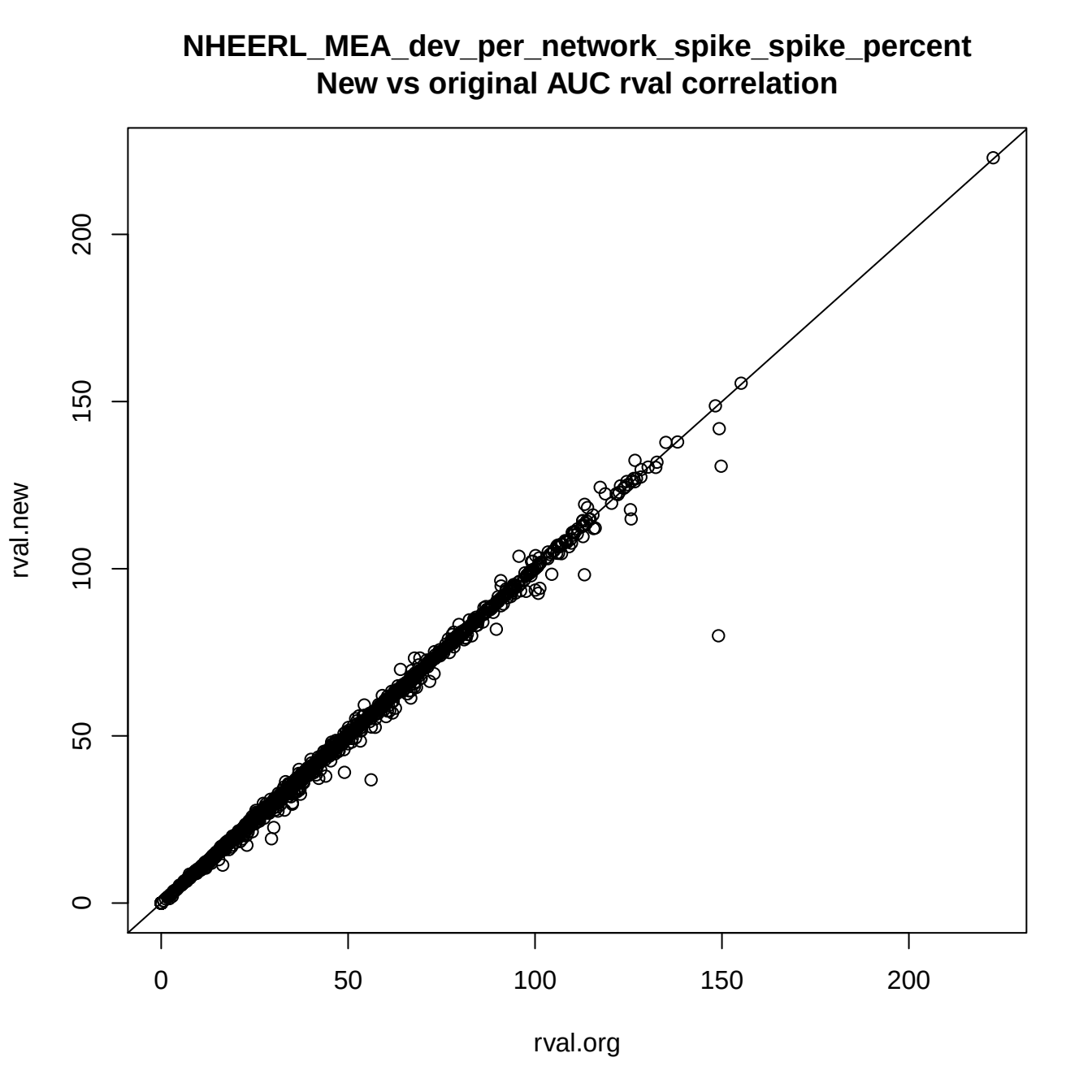

NHEERL_MEA_dev_network_spike_peak
New vs original AUC rval correlation
rval.new
rval.org
0
20
40
60
80
100
120

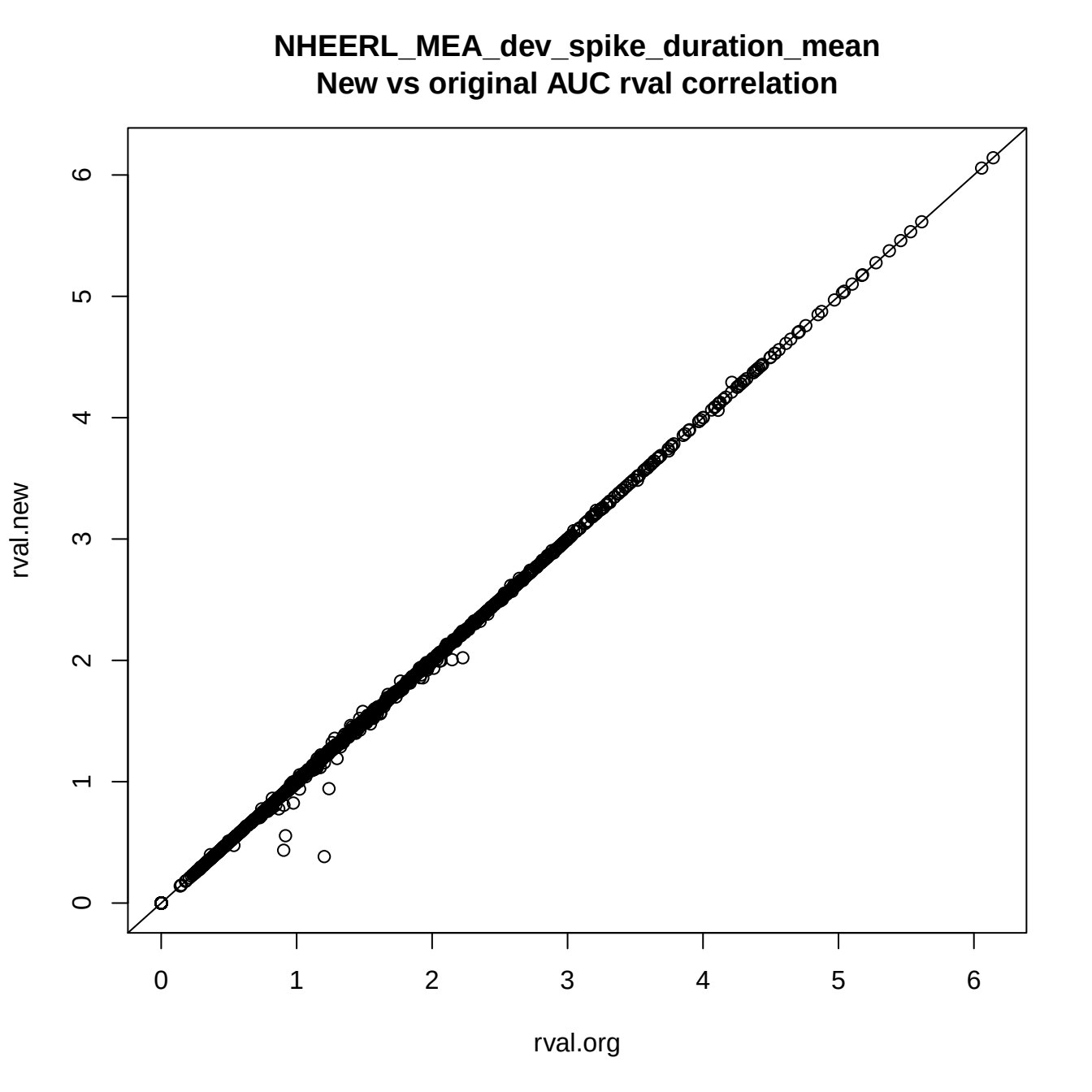

NHEERL_MEA_dev_per_burst_interspike_interval
New vs original AUC rval correlation
rval.new
rval.org
0.0
0.2
0.4
0.6
0.8
1.0

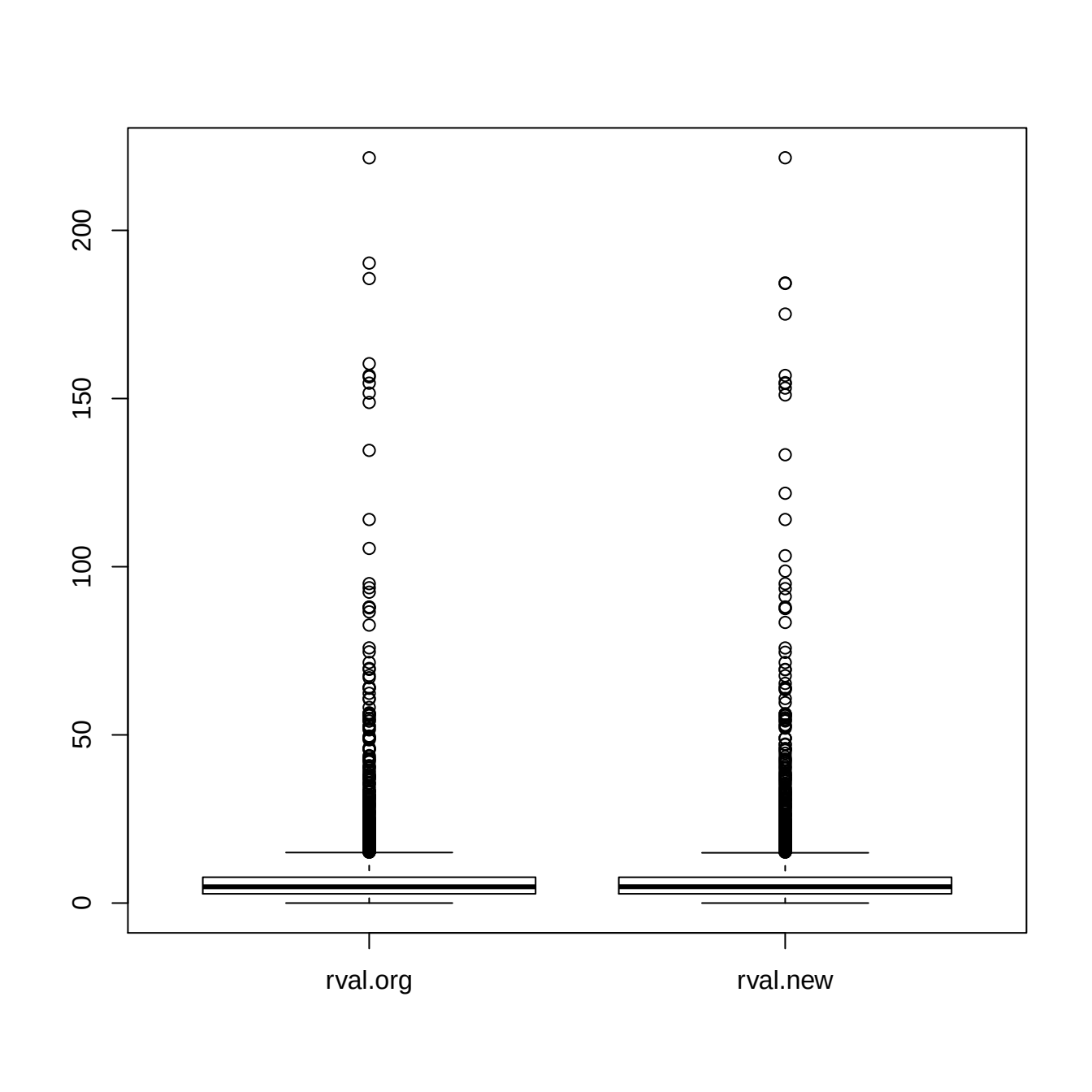

NHEERL_MEA_dev_per_burst_spike_percent
New vs original AUC rval correlation
rval.new
rval.org
0
200
400
600
0
200
400
600


NHEERL_MEA_dev_per_network_spike_interspike_interval_mean
New vs original AUC rval correlation
rval.new
rval.org
0
500
1000
1500
2000
2500


NHEERL_MEA_dev_per_network_spike_spike_number_mean
New vs original AUC rval correlation
rval.new
rval.org
0
200
400
600
800
1000
1200


NHEERL_MEA_dev_per_network_spike_spike_percent
New vs original AUC rval correlation
rval.new
rval.org
0
50
100
150
200


NHEERL_MEA_dev_spike_duration_mean
New vs original AUC rval correlation
rval.new
rval.org
0
1
2
3
4
5
6


0
50
100
150
200
rval.org
rval.new