Project Name: normalizerDE_eval

NormalyzerDE (ver 1.16.0)

Report created on: 2023−03−13

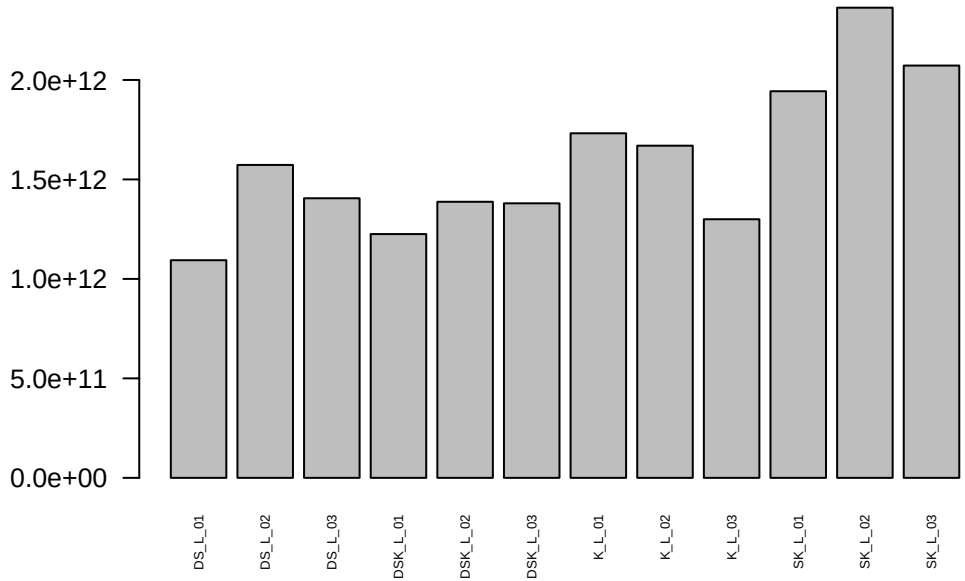
Citation: NormalyzerDE: Online Tool for Improved Normalization of Omics Expression Data and High−Sensitivity Differential Expression Analysis
Journal of Proteome Research (2018), 10.1021/acs.jproteome.8b00523

Documentation for analyzing this report can be found at http://quantitativeproteomics.org/normalyzer/help.php

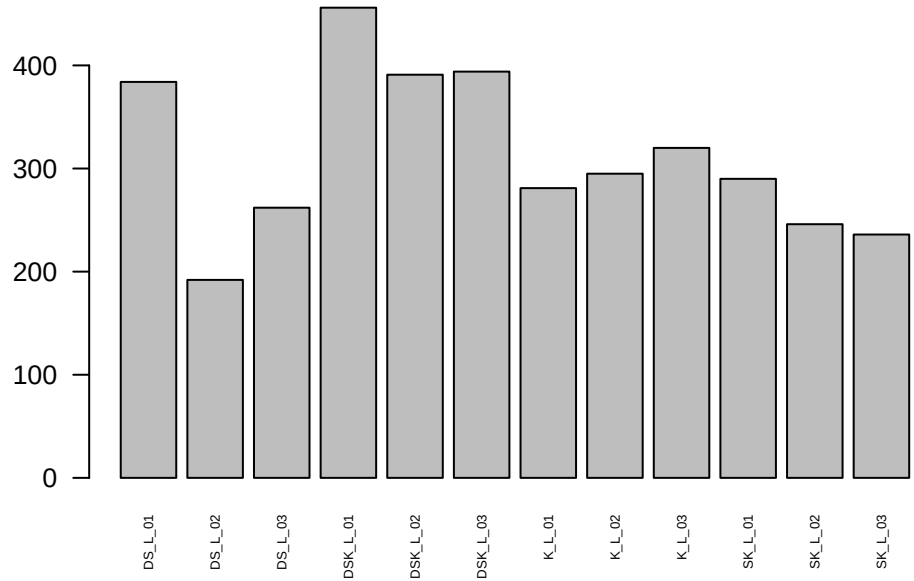
Group nbr.	Design group	Nbr. samples in cond.
1	DS	3
2	DSK	3
3	K	3
4	SK	3

Please note that the grouping only impacts evaluation measures and visuals seen in the report, they do not impact the performed normalizations.

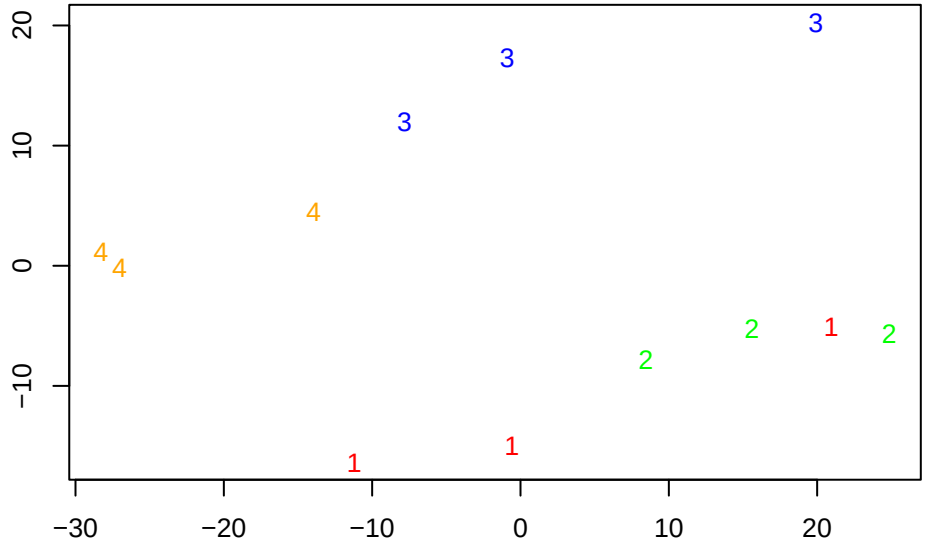
Total intensity

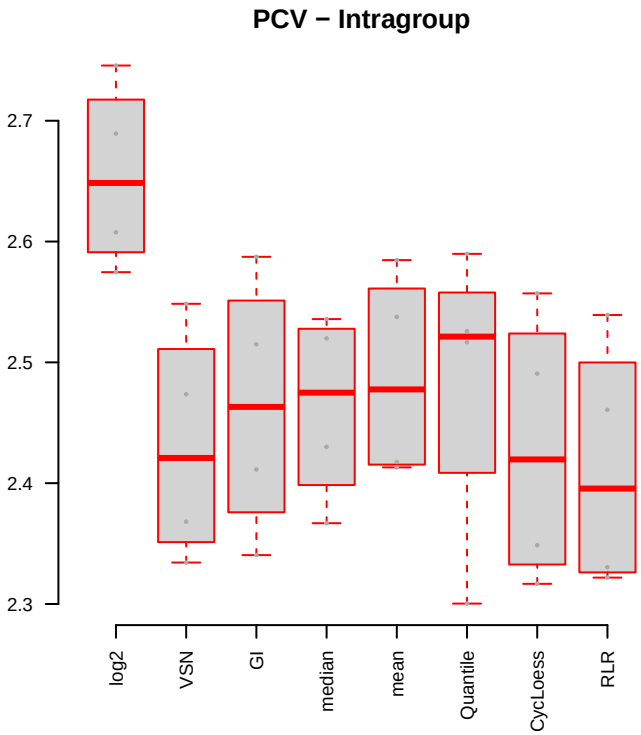


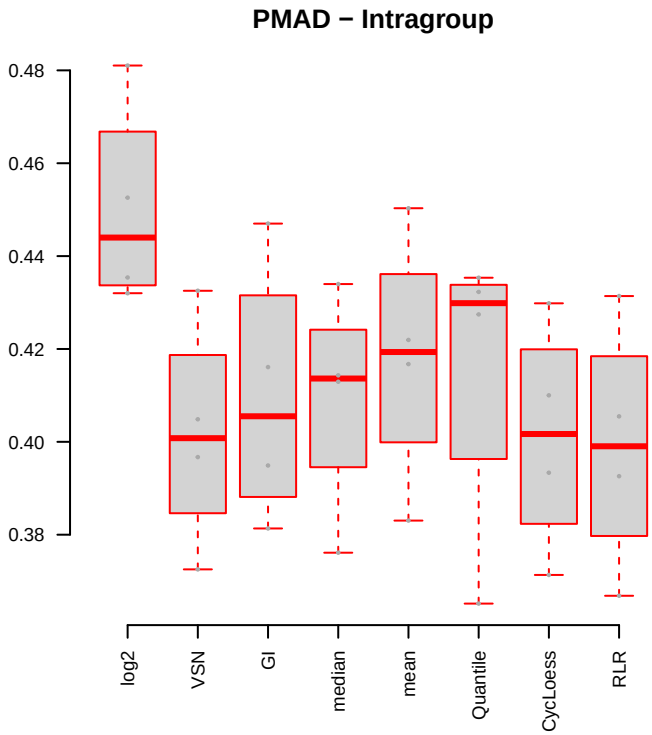
Total missing

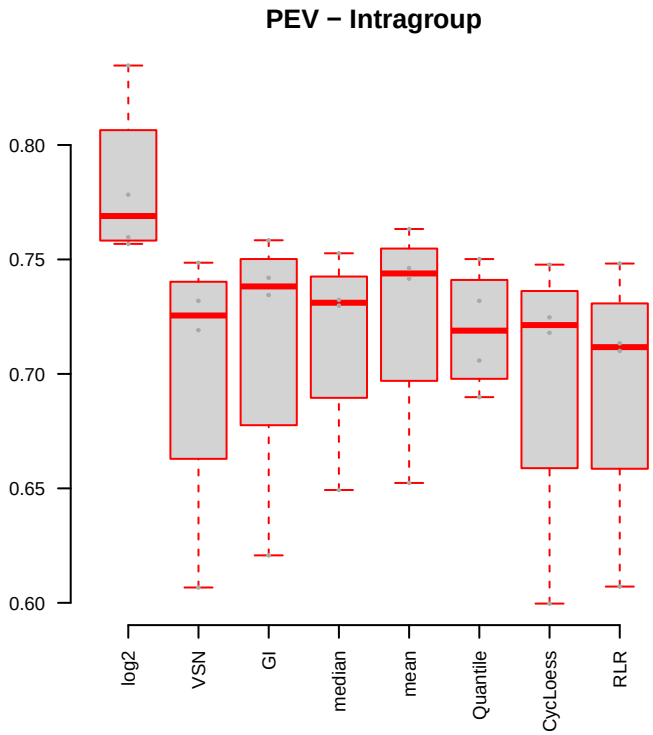


Log2−MDS plot

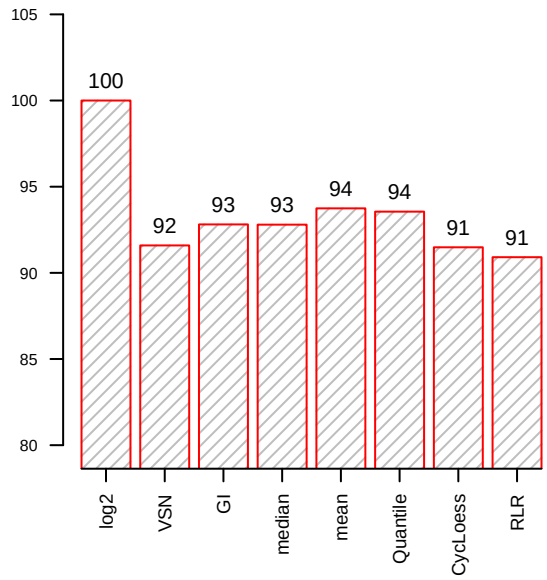



PCV − Intragroup
2.7
2.6
2.5
2.4
2.3
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

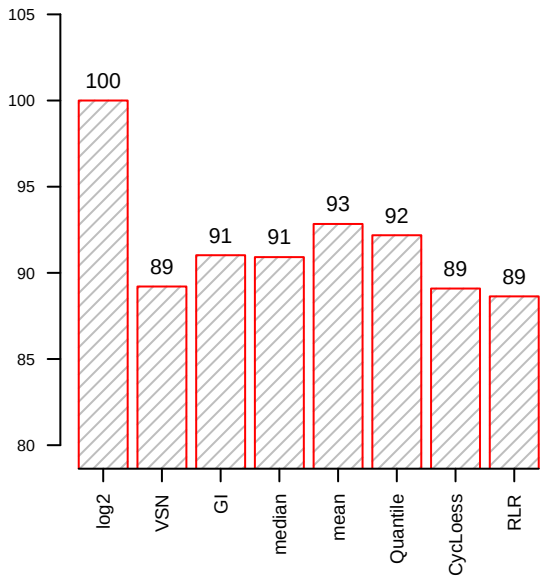

PMAD − Intragroup
0.48
0.46
0.44
0.42
0.40
0.38
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


PEV − Intragroup
0.80
0.75
0.70
0.65
0.60
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

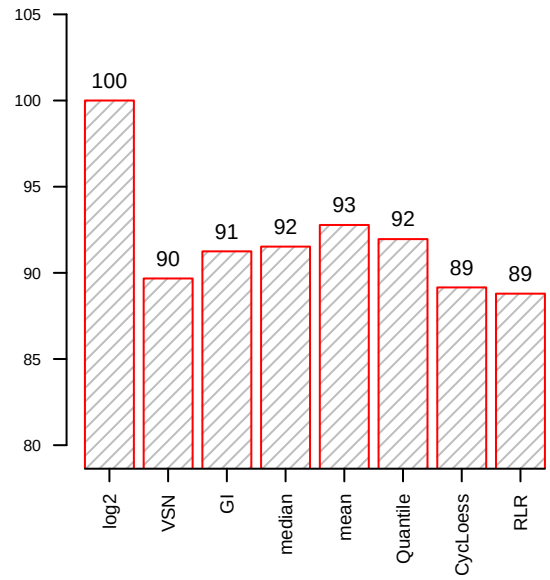
PCV compared to log2



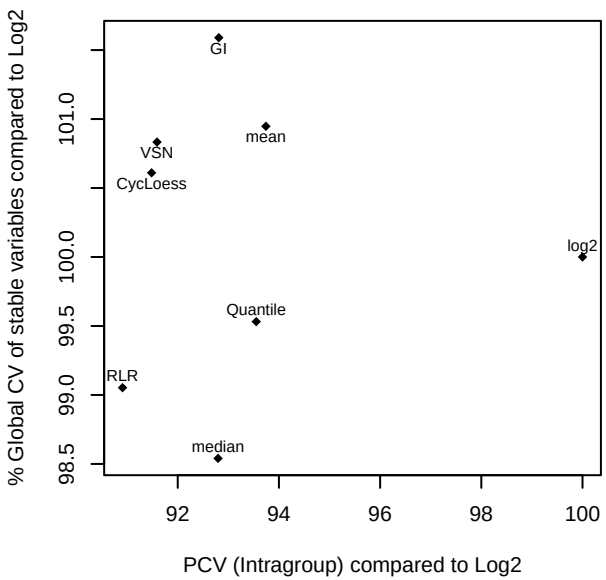
PMAD compared to log2



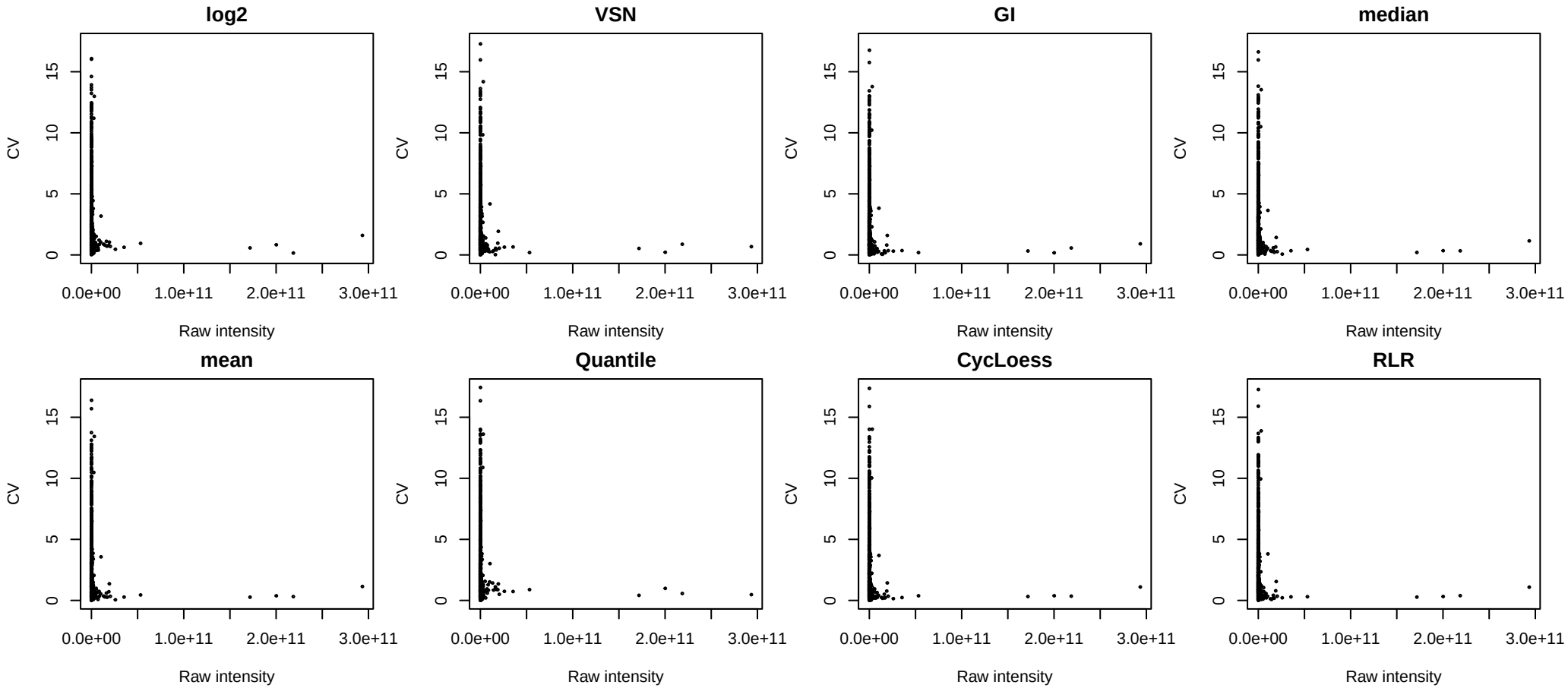
%PEV − compared to log2

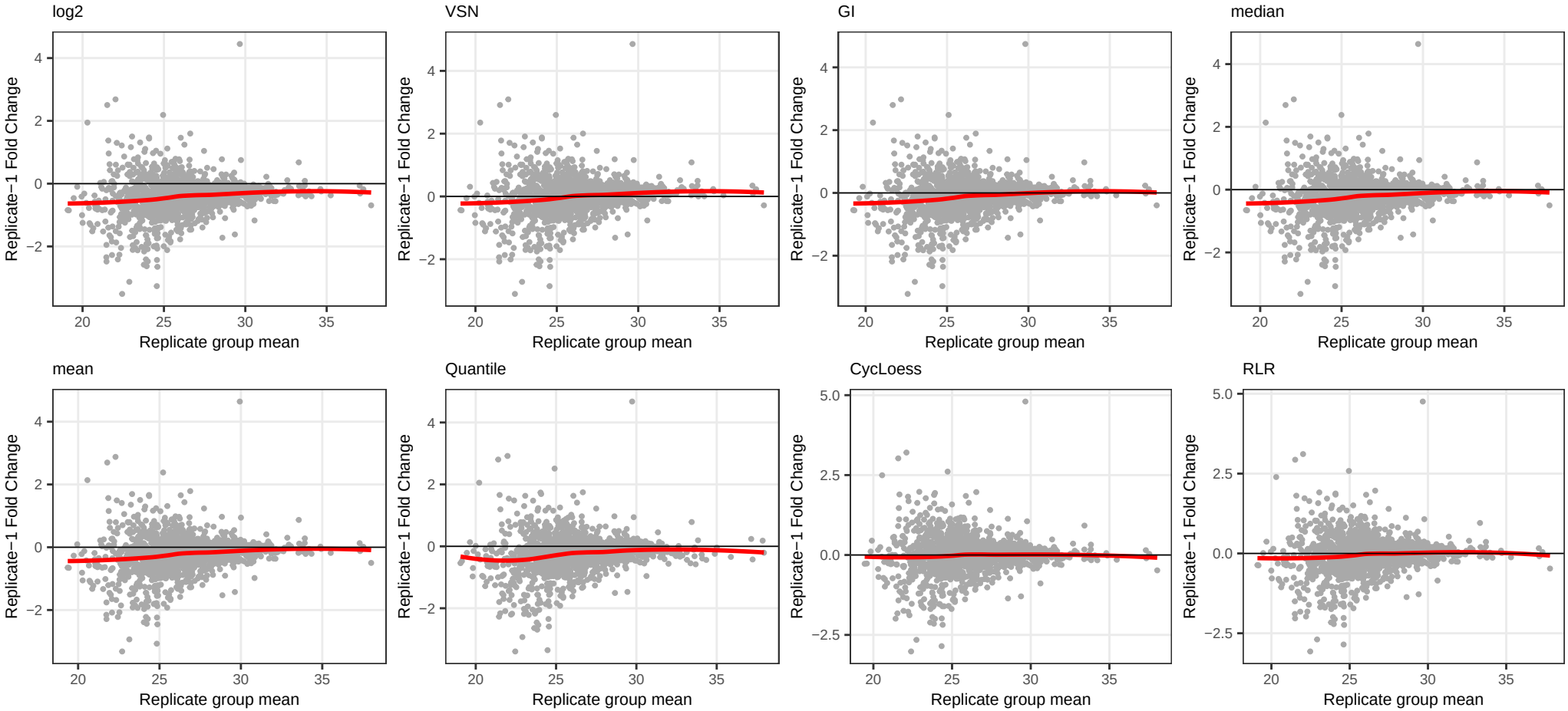


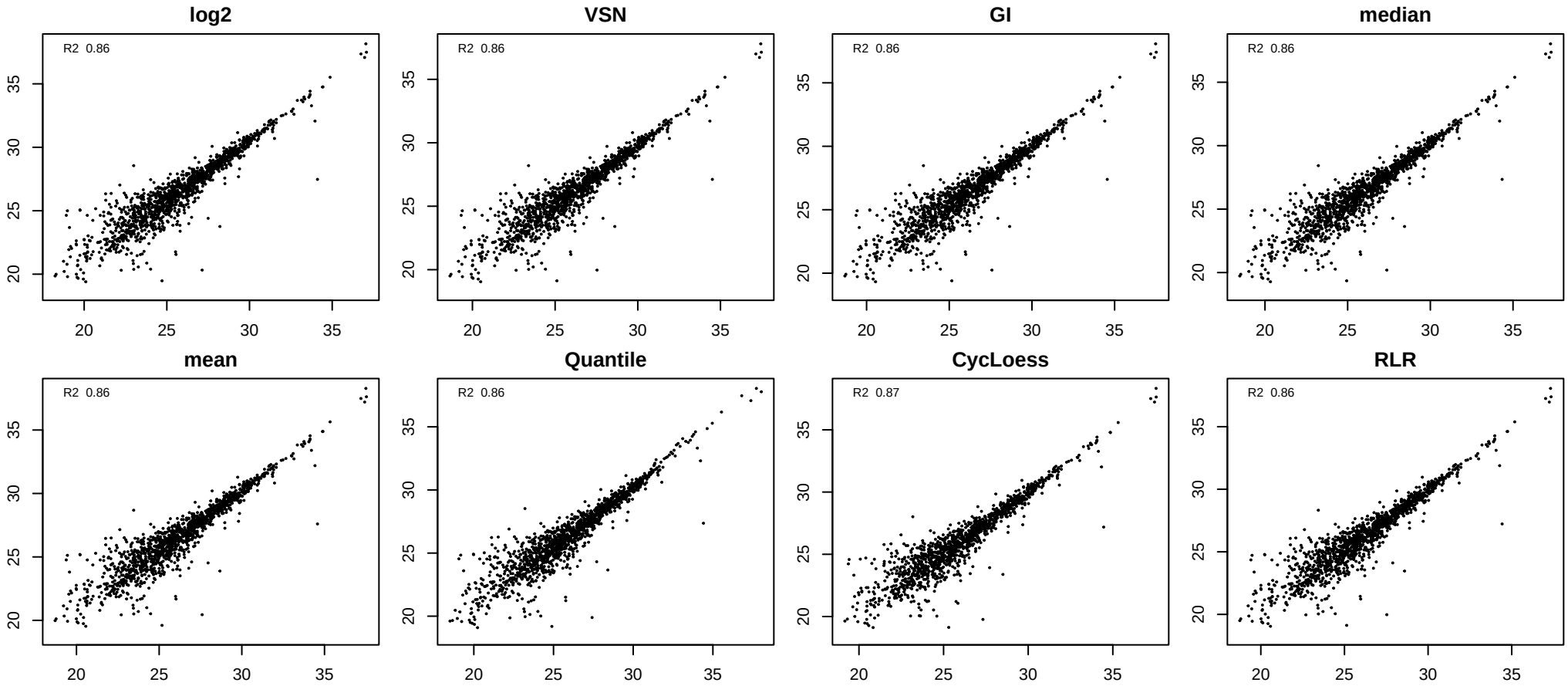
Stable variables plot



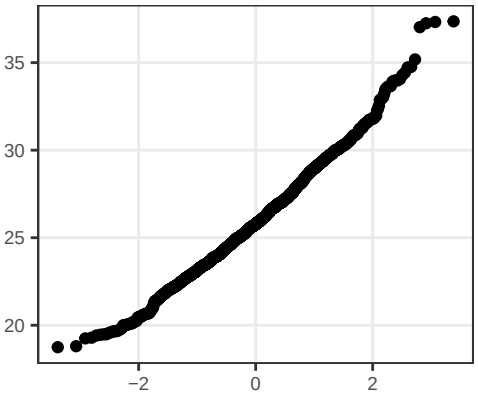
CV vs Raw Intensity plots



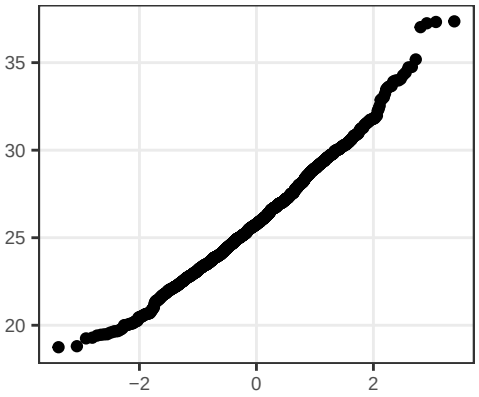

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
Replicate−1 Fold Change
Replicate group mean


log2
R2 0.86
VSN
R2 0.86
GI
R2 0.86
median
R2 0.86
mean
R2 0.86
Quantile
R2 0.86
CycLoess
R2 0.87
RLR
R2 0.86
20
25
30
35

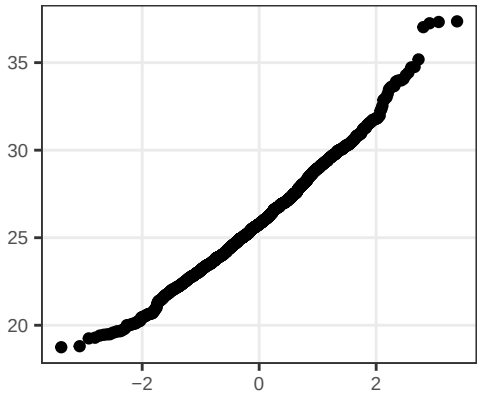
log2



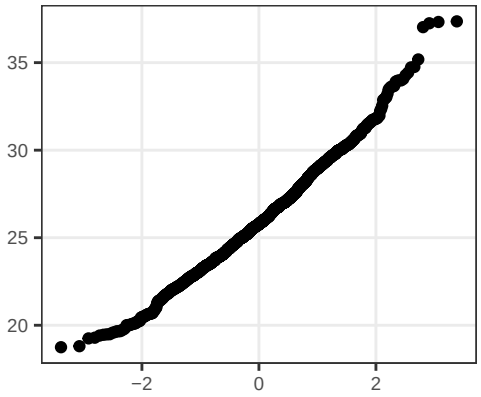
VSN



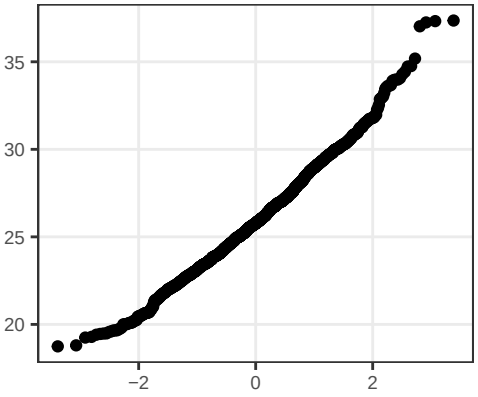
GI



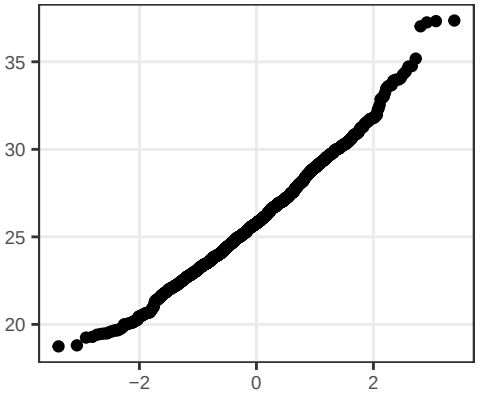
median



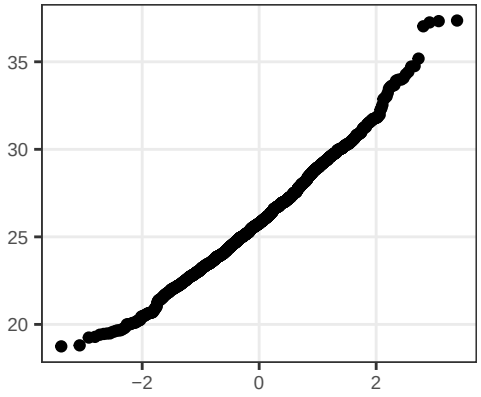
mean



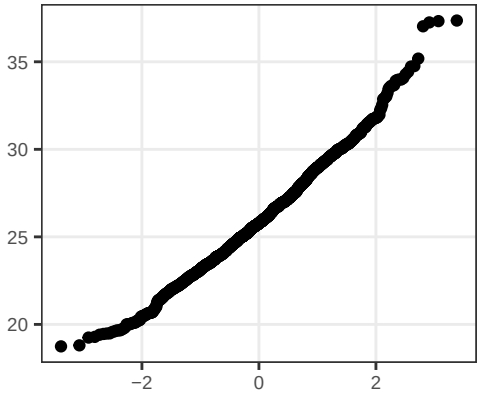
Quantile

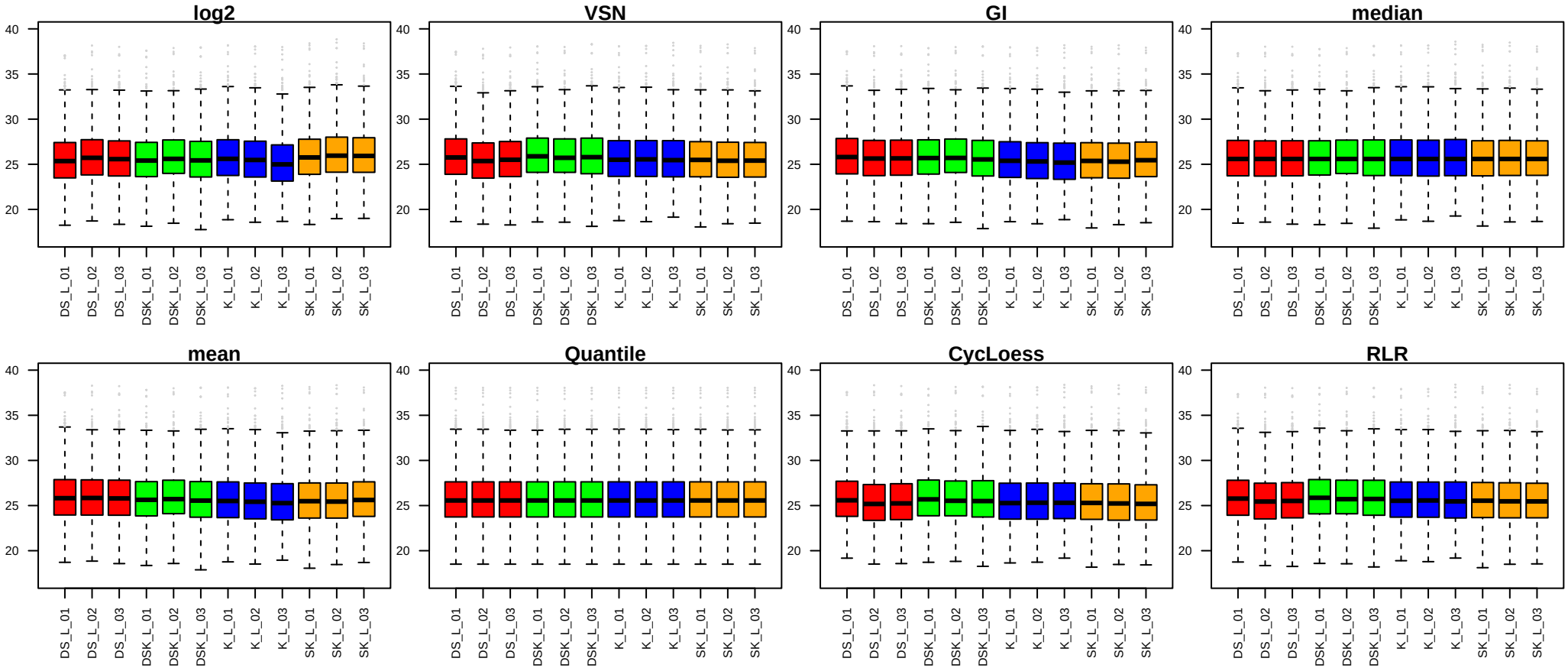


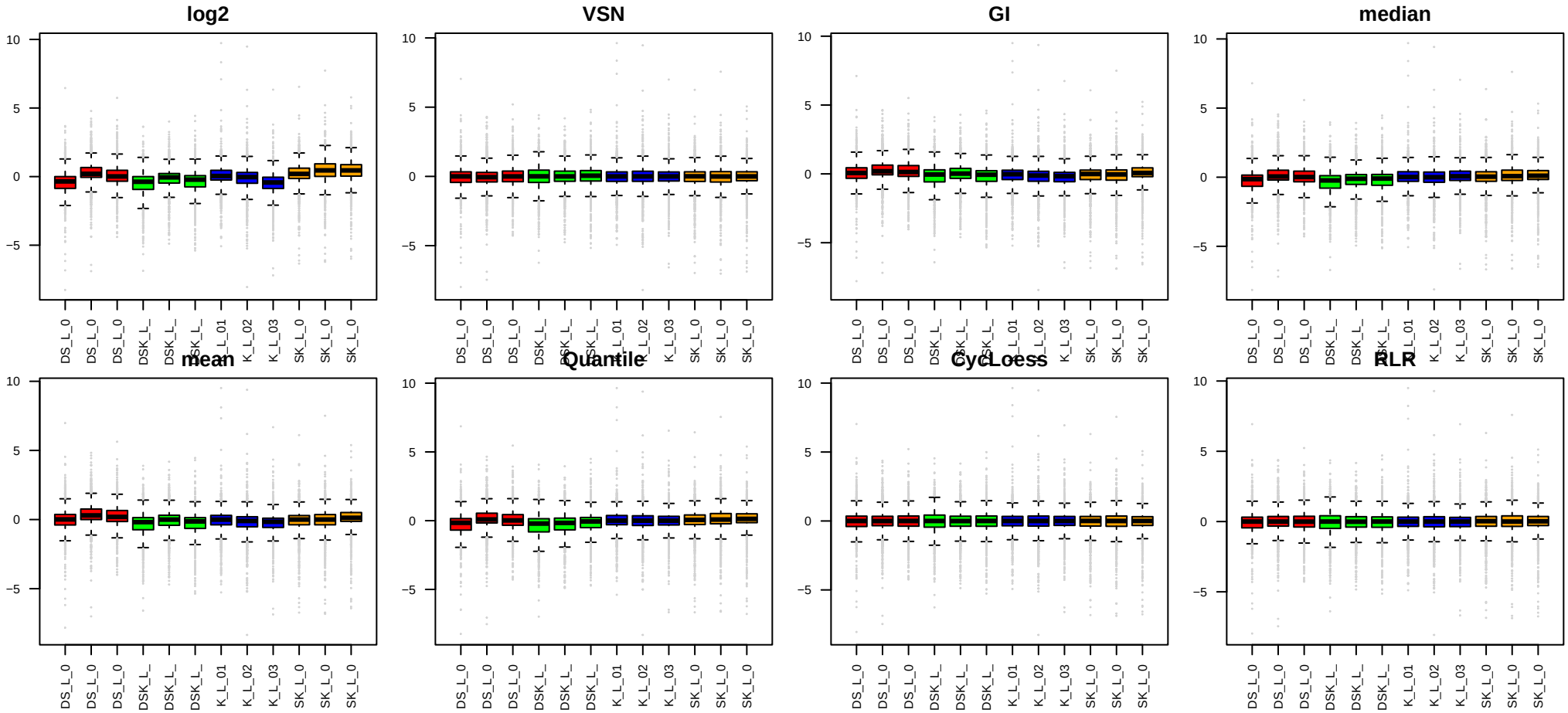
CycLoess

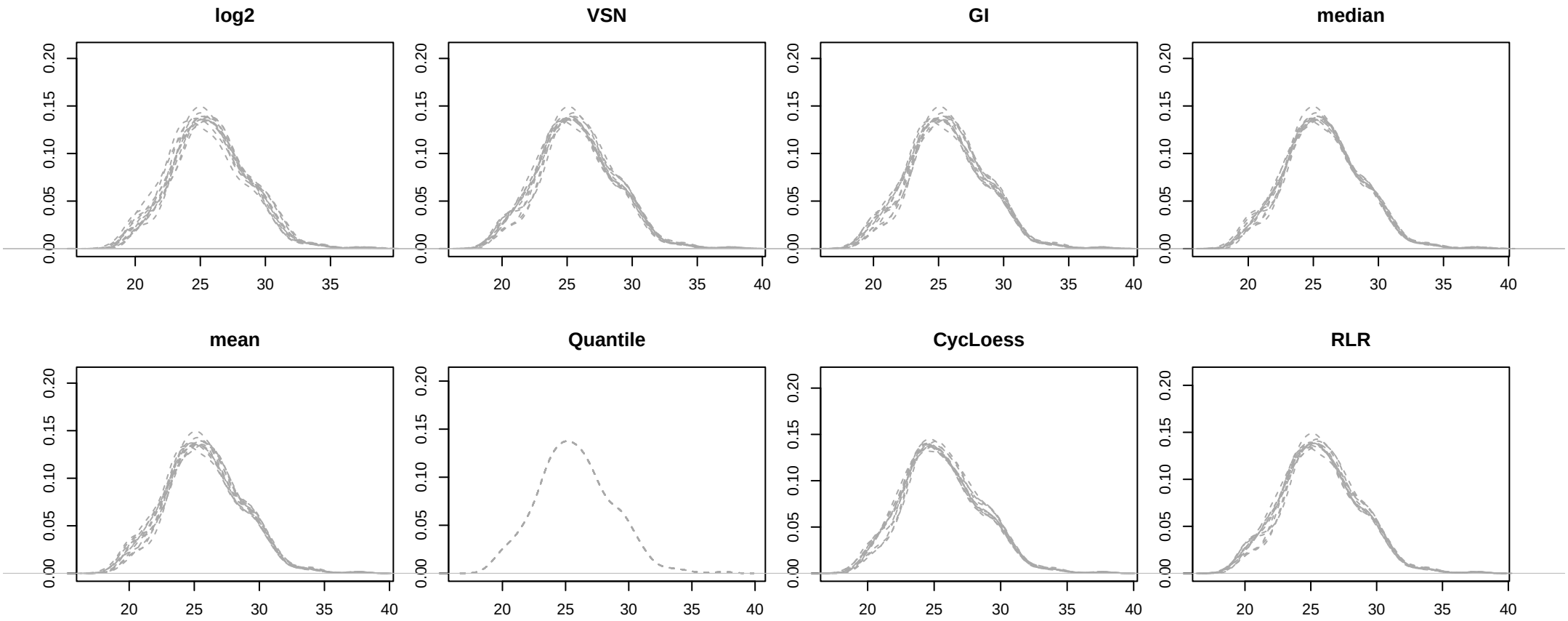


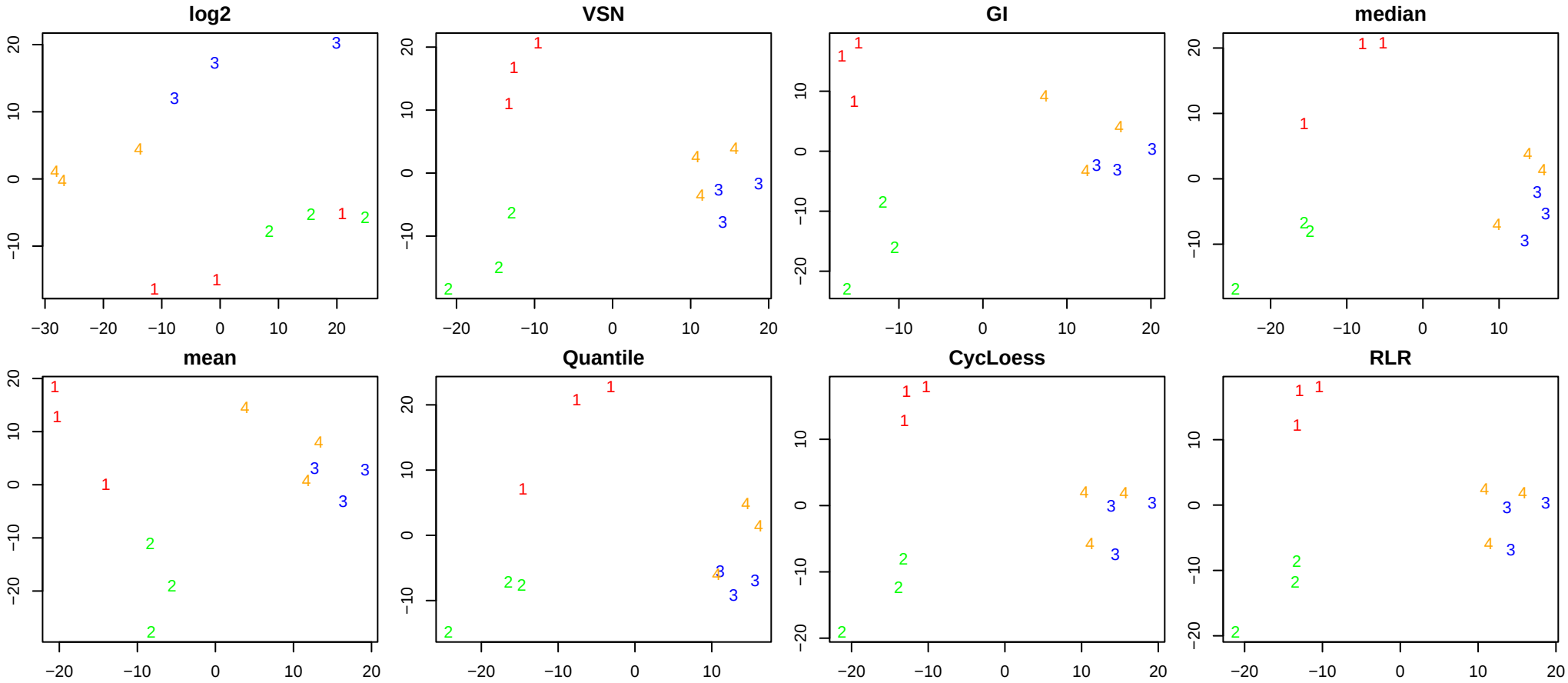
RLR



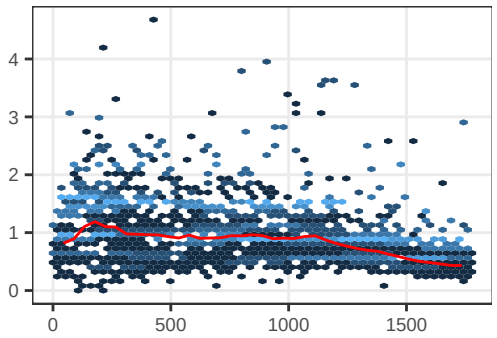

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
40
35
30
25
20
DS_L_01
DS_L_02
DS_L_03
DSK_L_01
DSK_L_02
DSK_L_03
K_L_01
K_L_02
K_L_03
SK_L_01
SK_L_02
SK_L_03


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
10
5
0
−5
DS_L_0
DSK_L_
K_L_01
K_L_02
K_L_03
SK_L_0

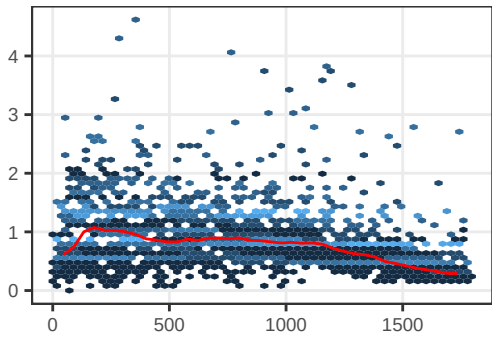

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
0.00
0.05
0.10
0.15
0.20
20
25
30
35
40


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

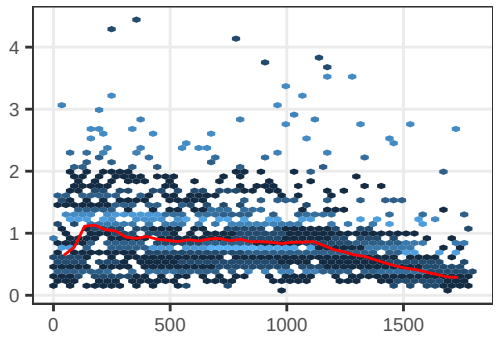
log2



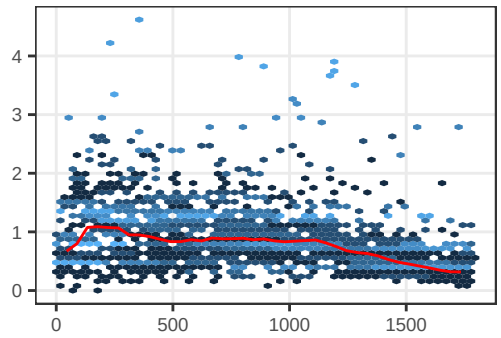
VSN



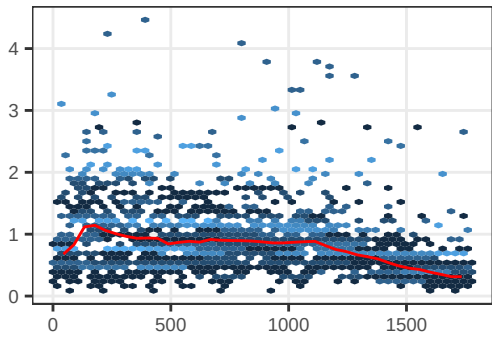
GI



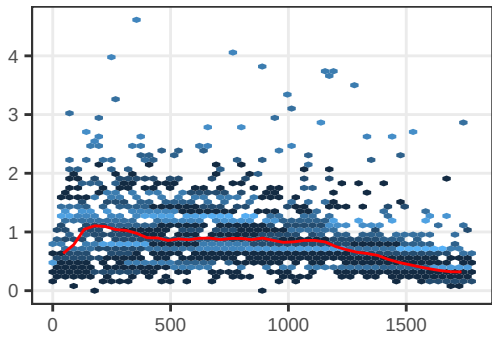
median



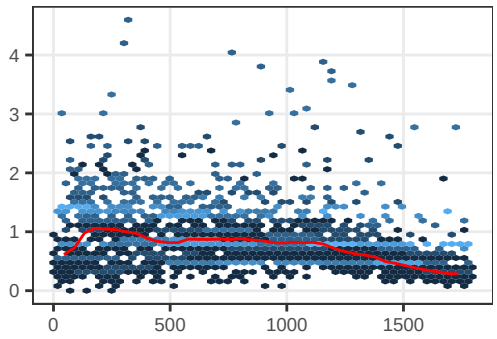
mean



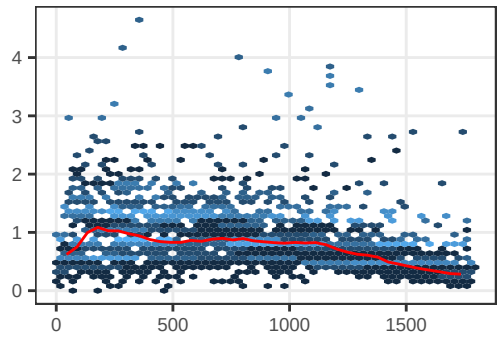
Quantile

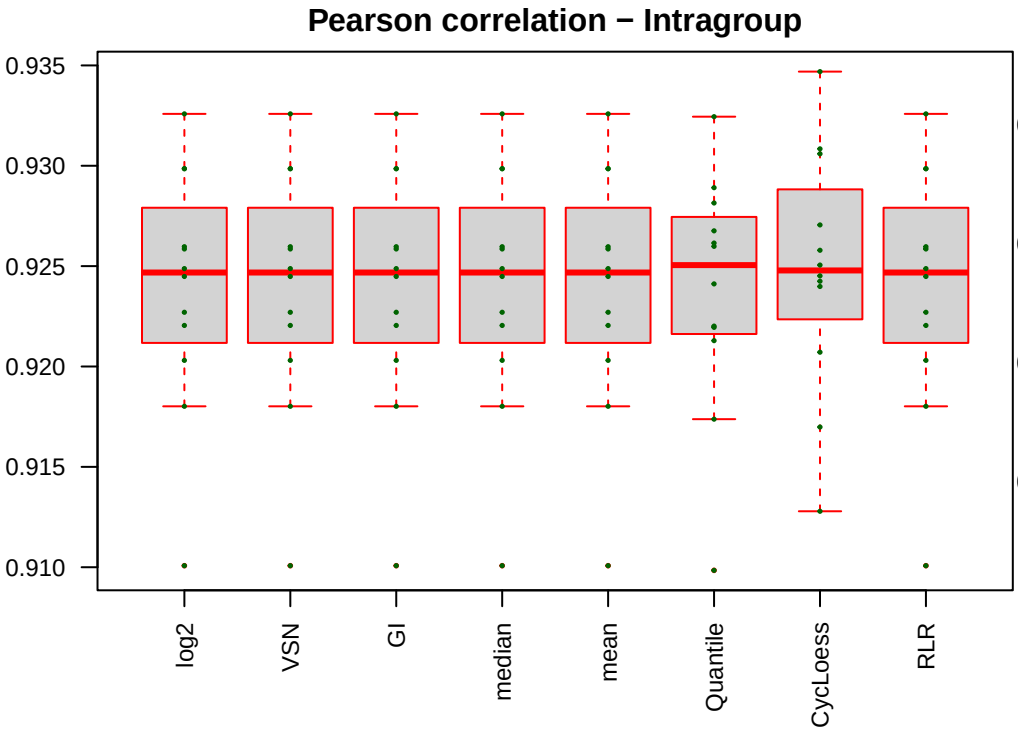


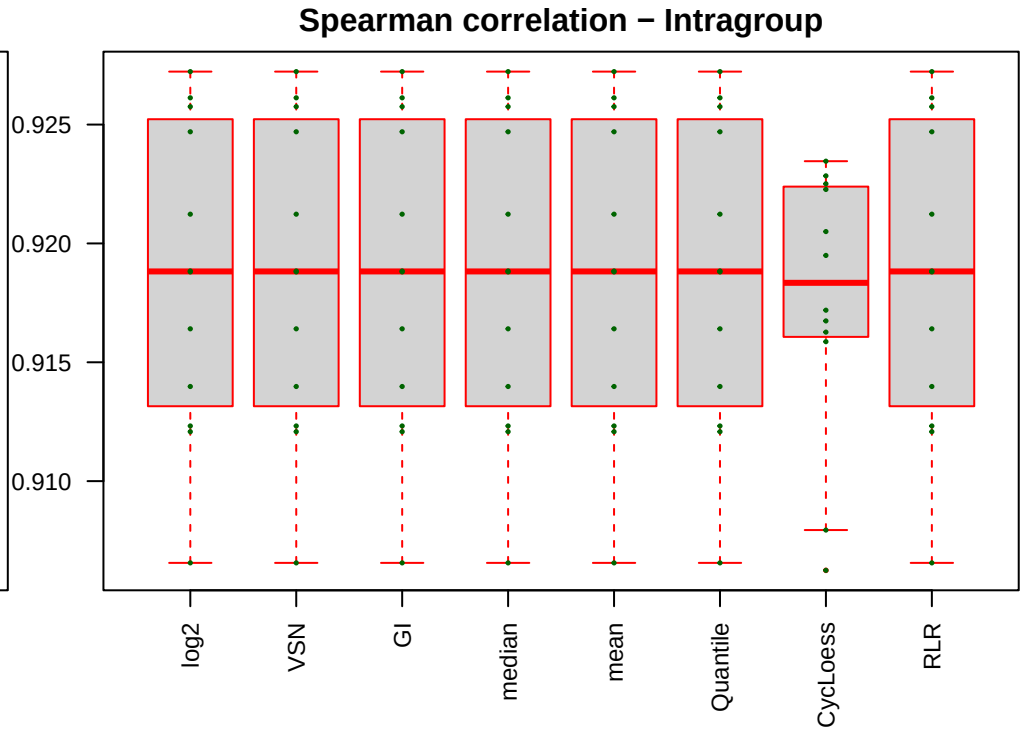
CycLoess

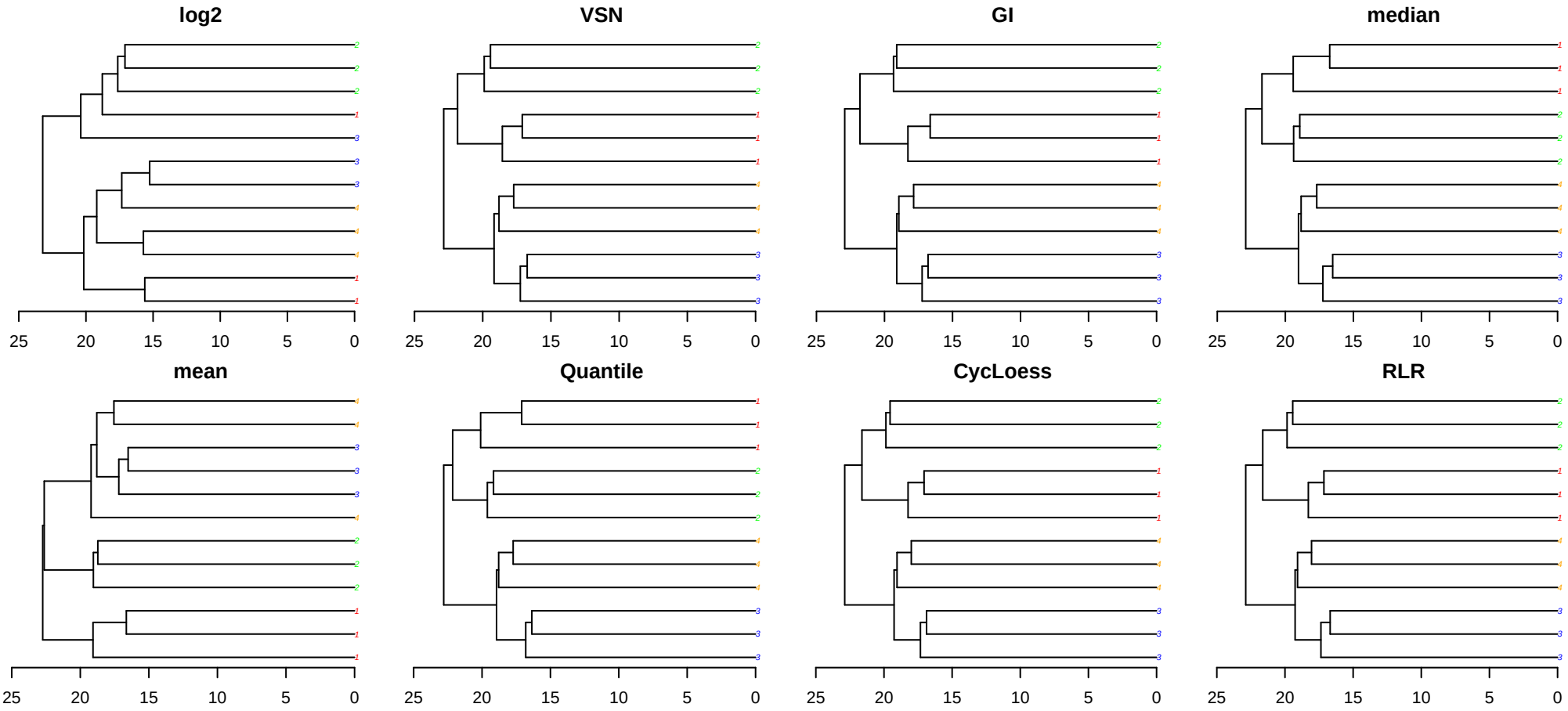


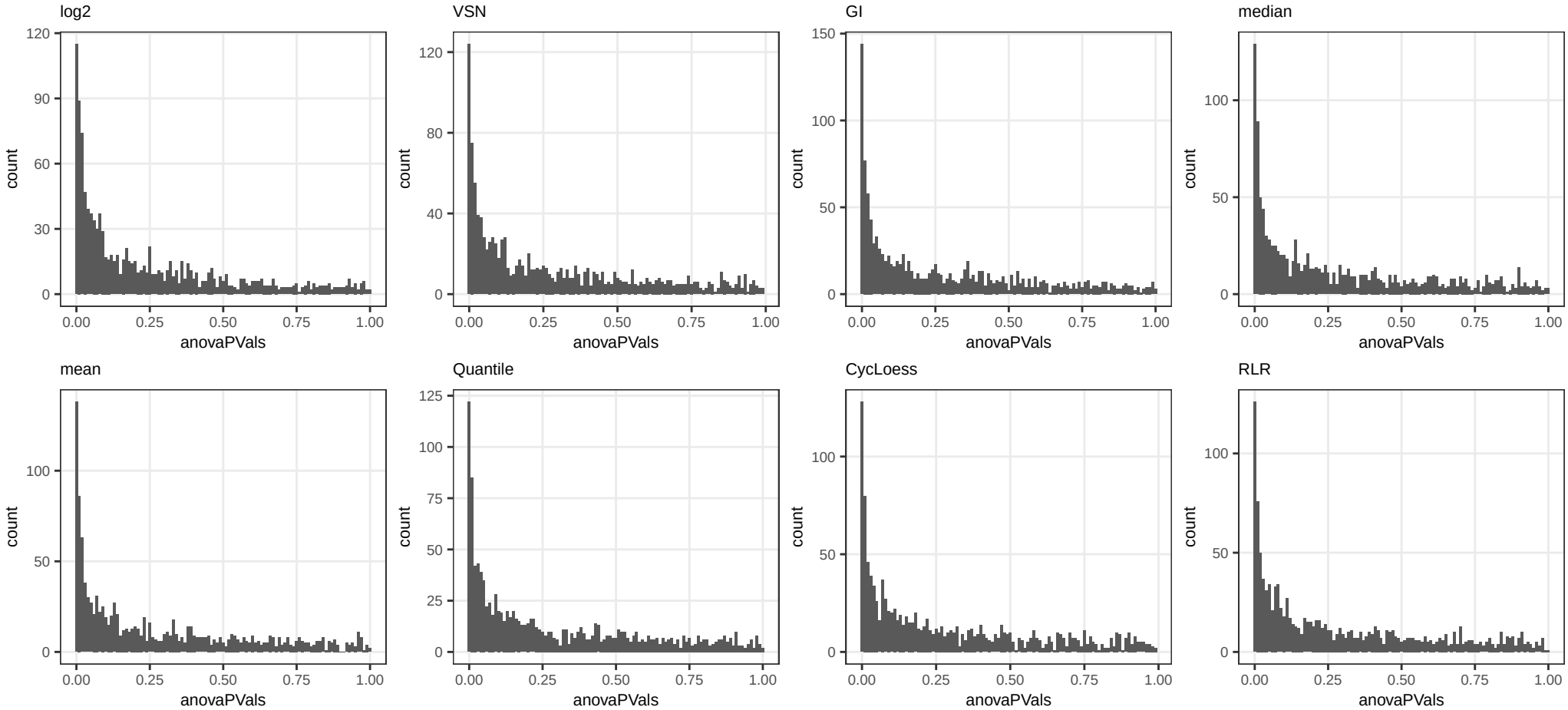
RLR




Pearson correlation − Intragroup
0.935
0.930
0.925
0.920
0.915
0.910
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


Spearman correlation − Intragroup
0.925
0.920
0.915
0.910
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
25 20 15 10 5 0


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
count
anovaPVals
0.00
0.25
0.50
0.75
1.00