Project Name: PXD001819

NormalyzerDE (ver 1.5.4)

Report created on: 2021−02−01

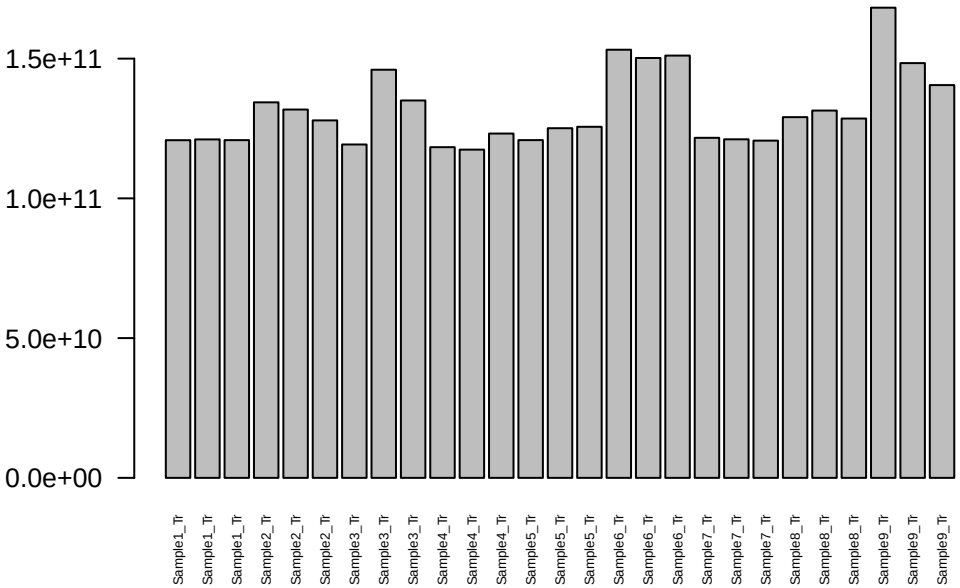
Citation: NormalyzerDE: Online Tool for Improved Normalization of Omics Expression Data and High−Sensitivity Differential Expression Analysis
Journal of Proteome Research (2018), 10.1021/acs.jproteome.8b00523

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

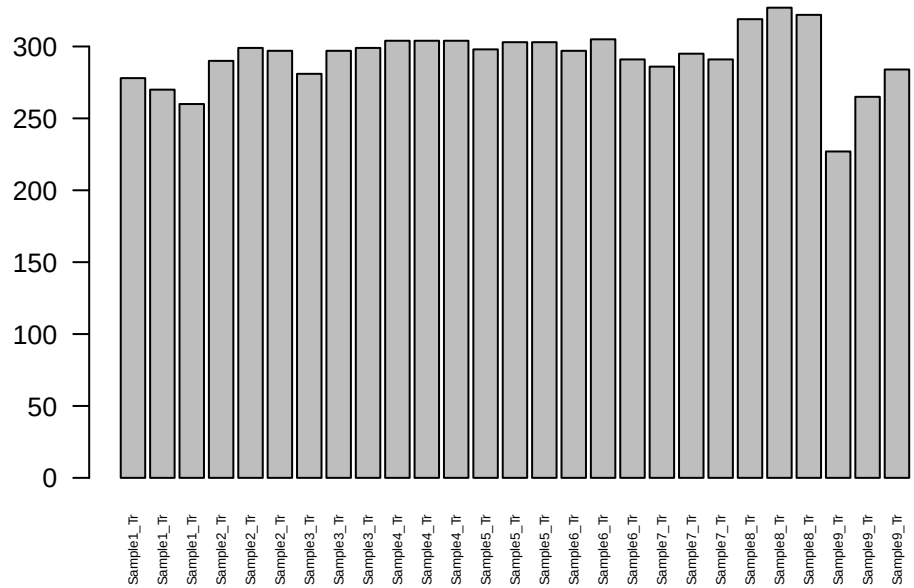
Group nbr.	Design group	Nbr. samples in cond.
1	12500amol	3
2	125amol	3
3	25000amol	3
4	2500amol	3
5	250amol	3
6	50000amol	3
7	5000amol	3
8	500amol	3
9	50amol	3

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

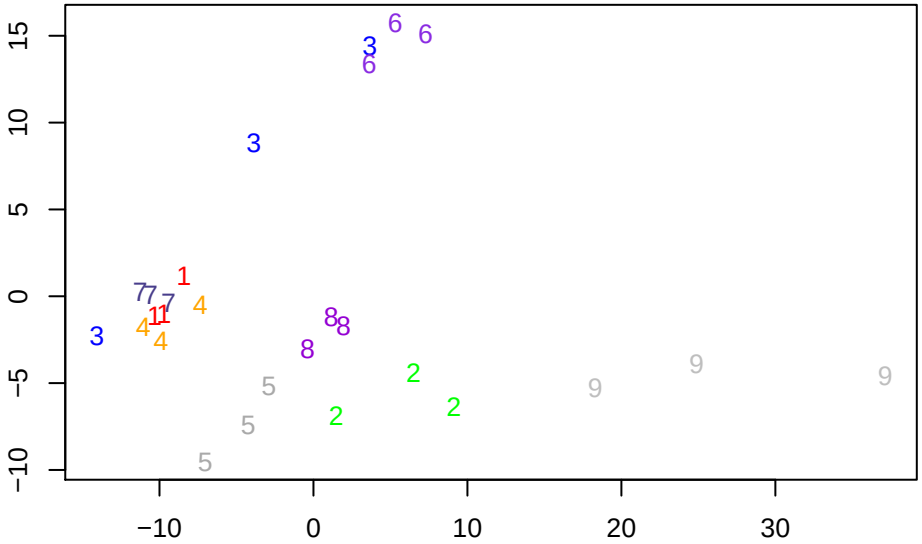
Total intensity

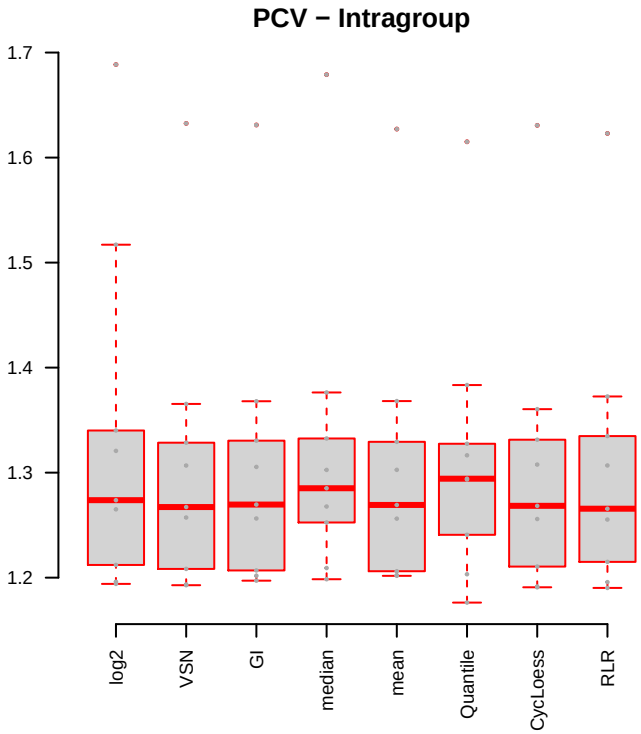


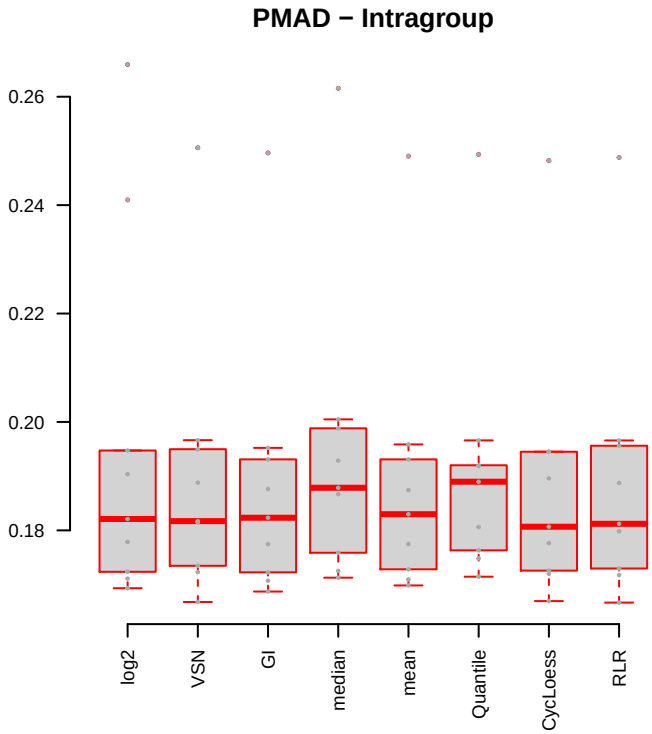
Total missing

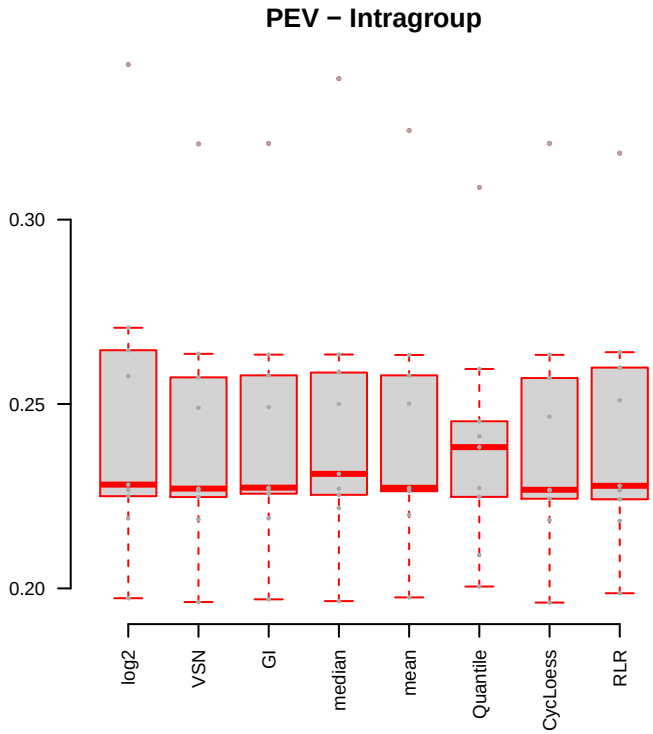


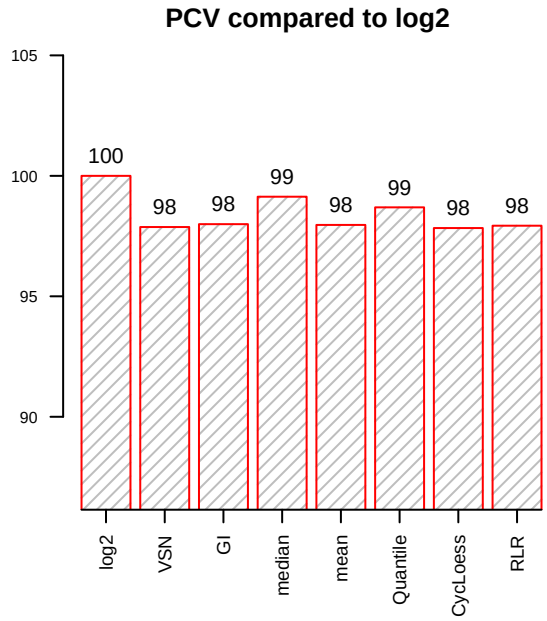
Log2−MDS plot

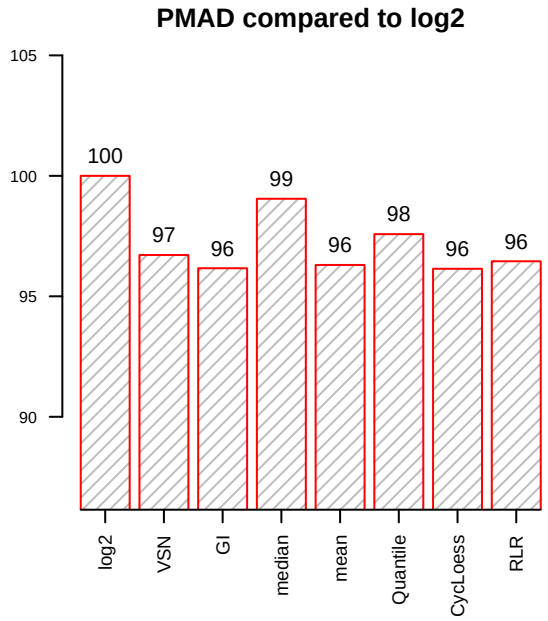


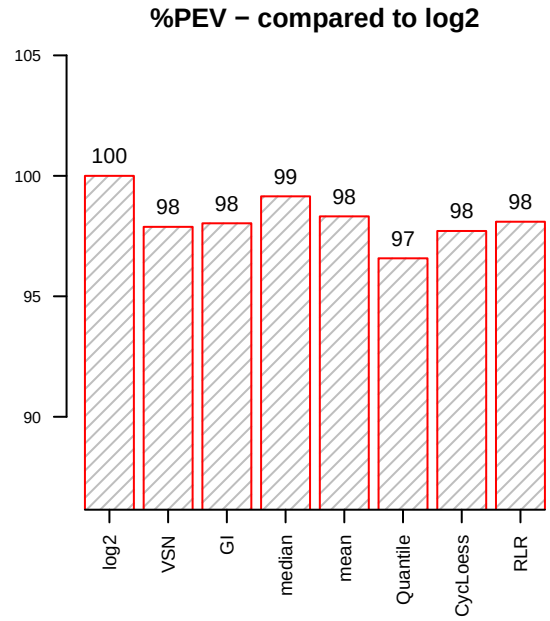

PCV − Intragroup
1.7
1.6
1.5
1.4
1.3
1.2
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

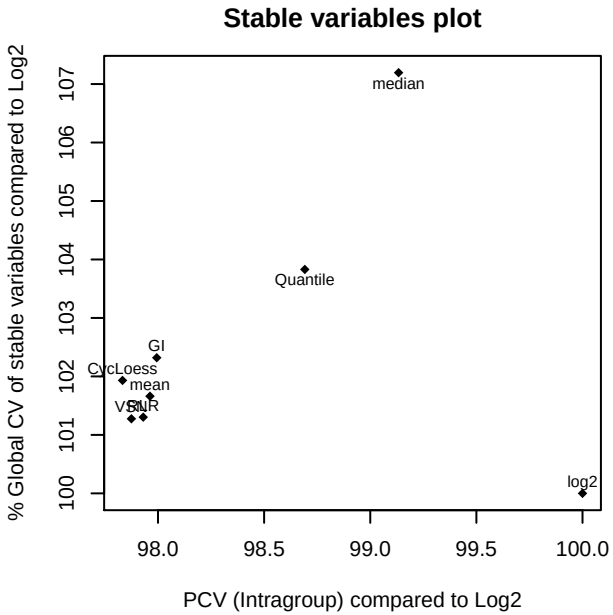

PMAD − Intragroup
0.26
0.24
0.22
0.20
0.18
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


PEV − Intragroup
0.30
0.25
0.20
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

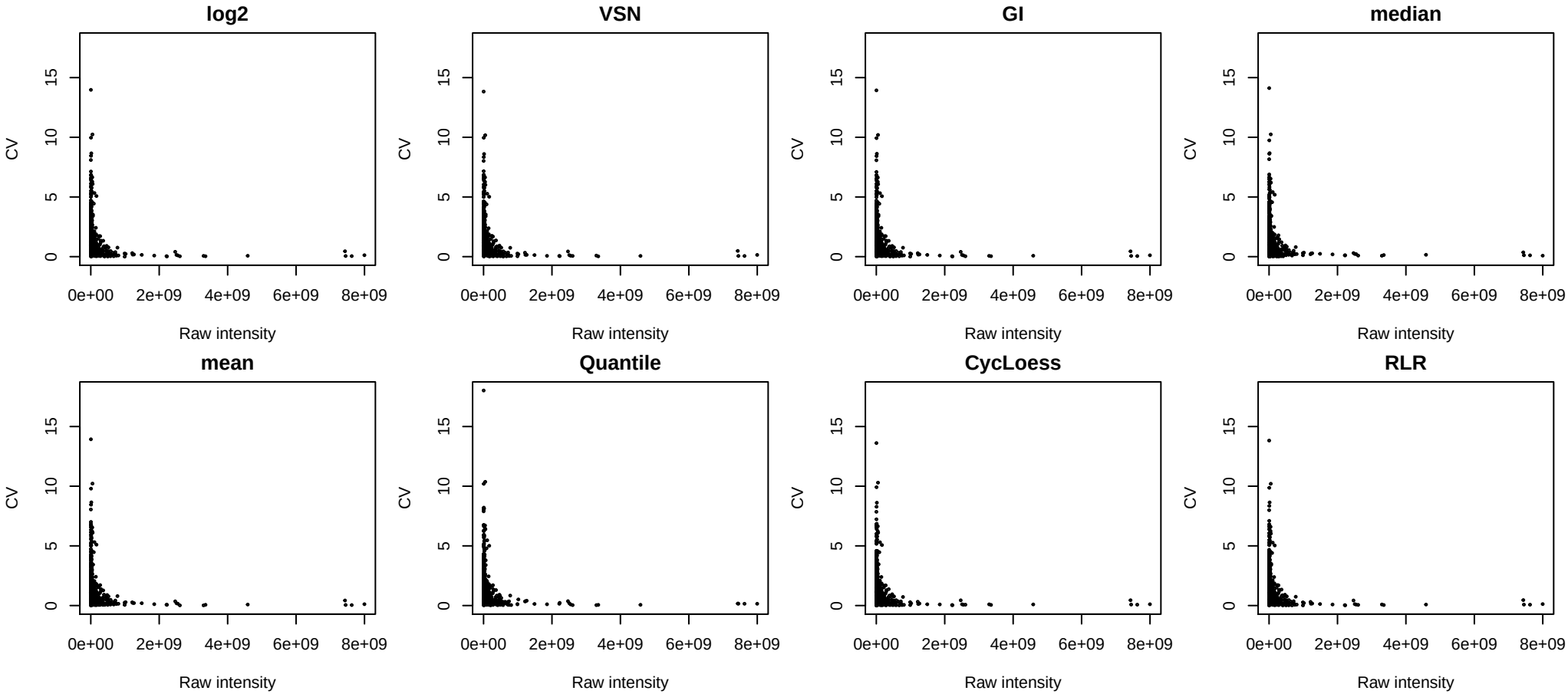

PCV compared to log2
105
100
95
90
100
98
98
99
98
99
98
98
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

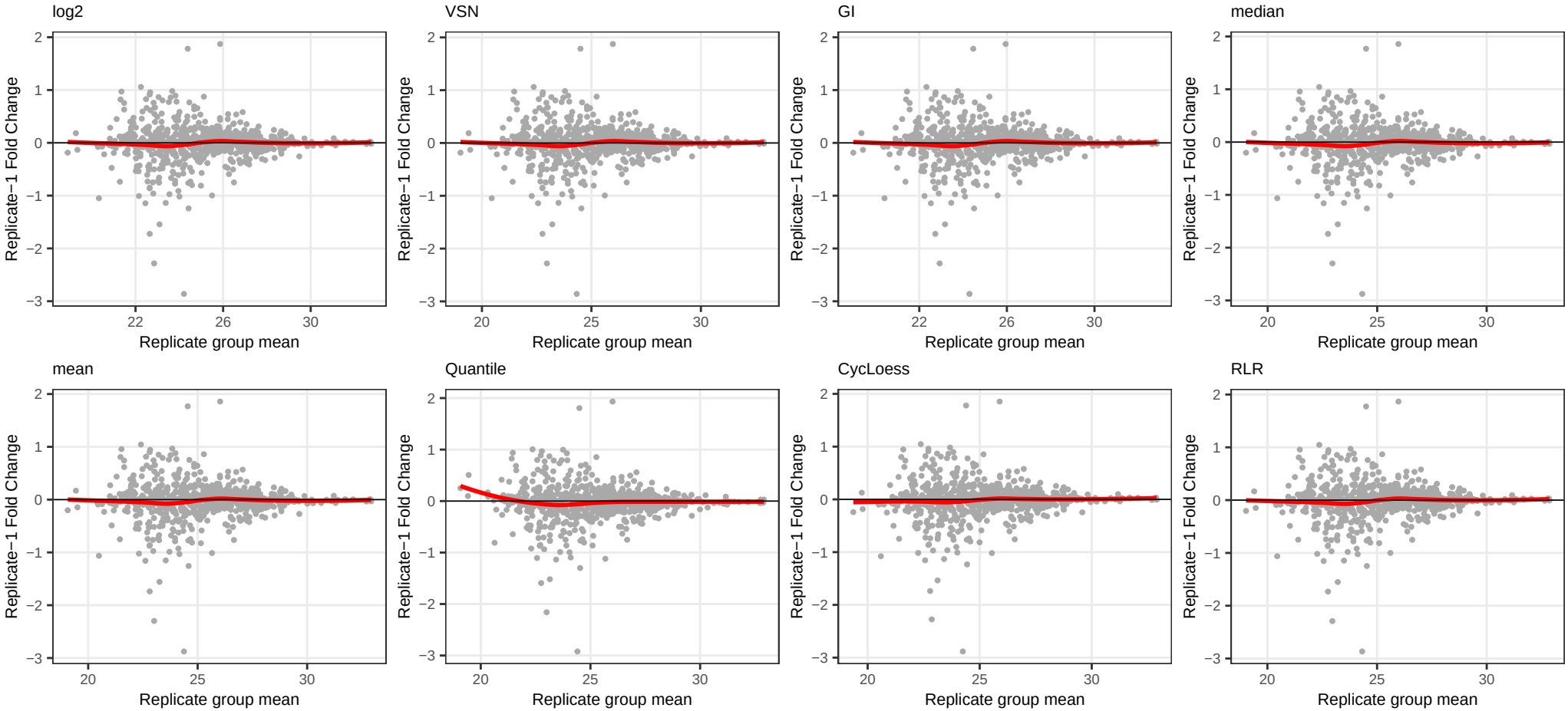

PMAD compared to log2
105
100
95
90
100
97
96
99
96
98
96
96
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

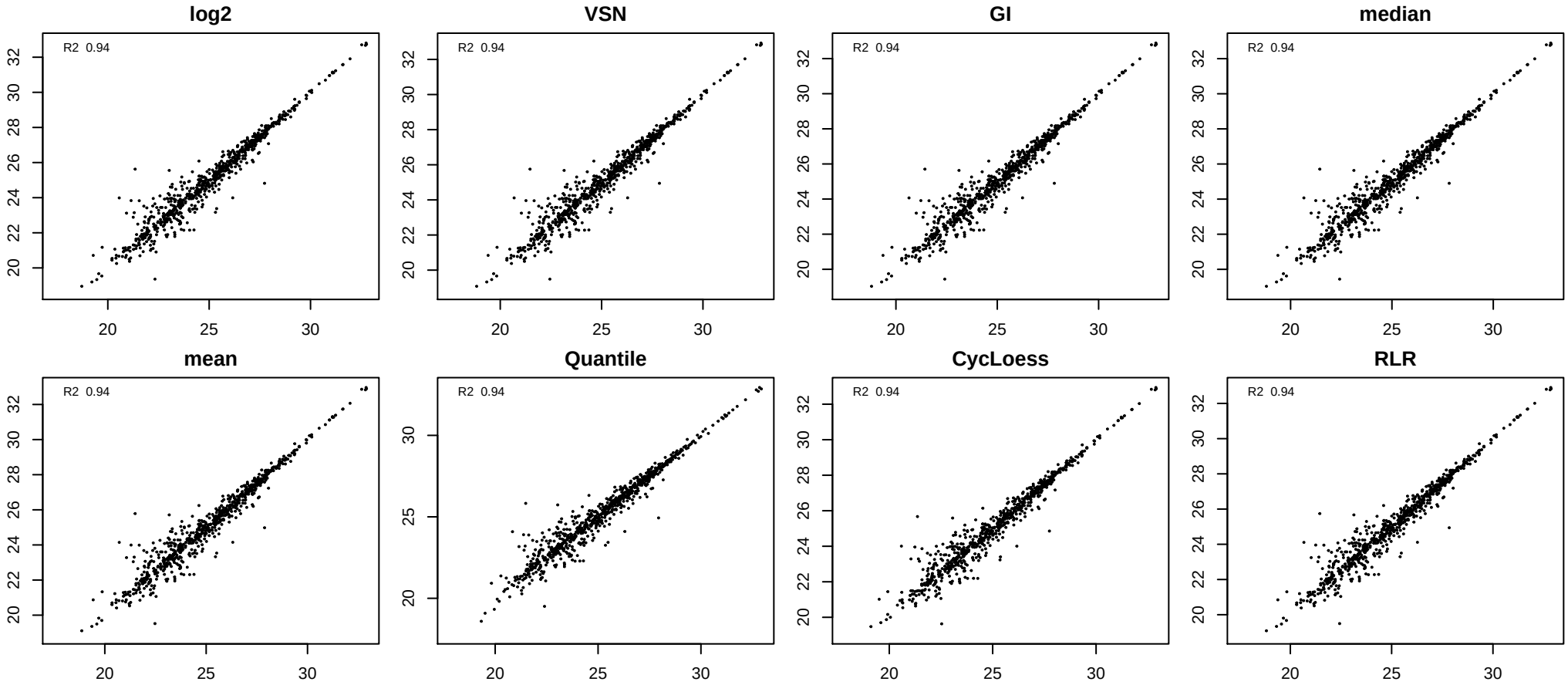

%PEV − compared to log2
105
100
95
90
100
98
98
99
98
97
98
98
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


Stable variables plot
% Global CV of stable variables compared to Log2
100
101
102
103
104
105
106
107
median
Quantile
GI
CycLoess
mean
VSN
RLR
log2
98.0
98.5
99.0
99.5
100.0
PCV (Intragroup) compared to Log2

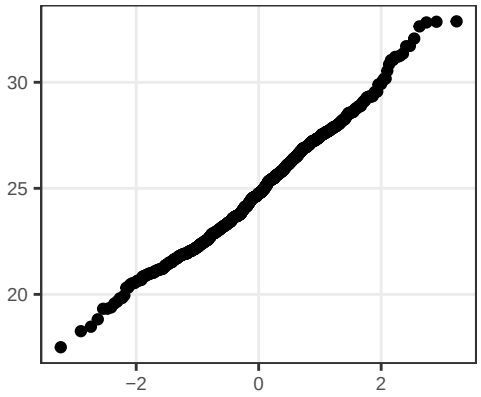
CV vs Raw Intensity plots



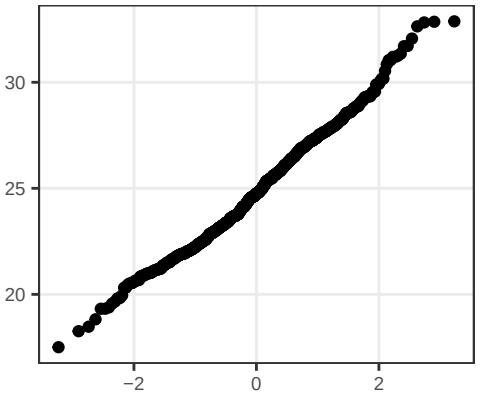

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
Replicate−1 Fold Change
Replicate group mean


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
R2 0.94

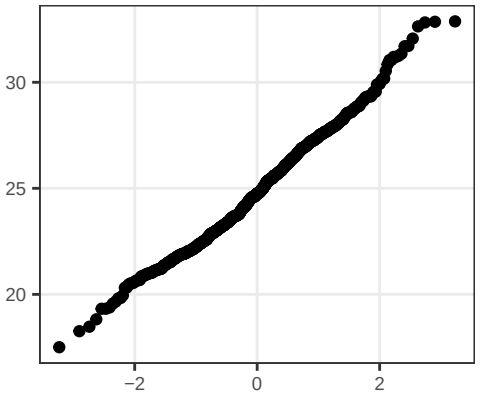
log2



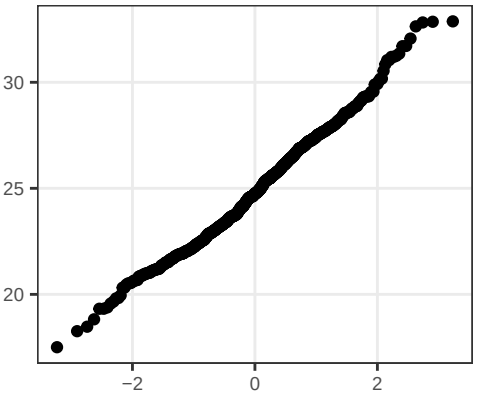
VSN



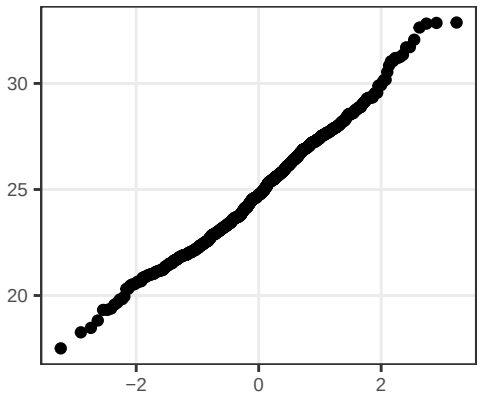
GI



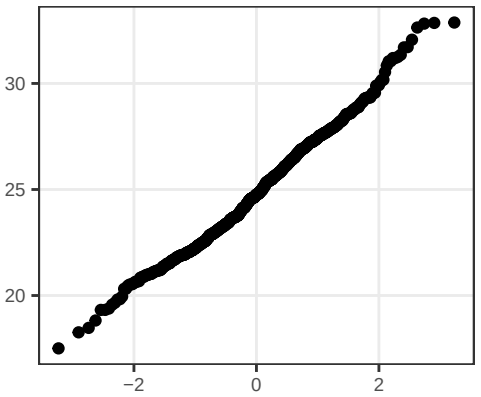
median



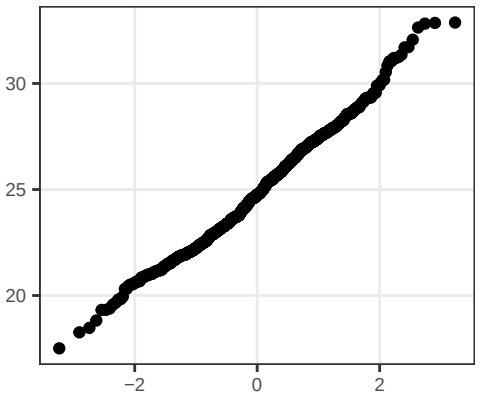
mean



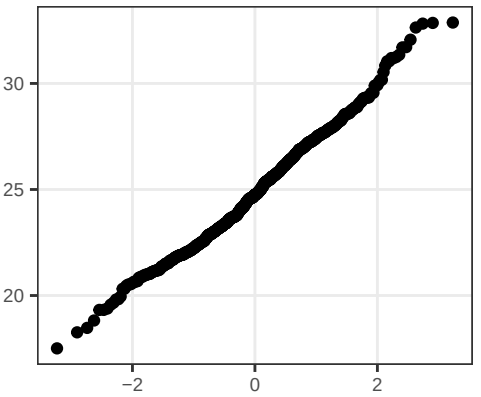
Quantile

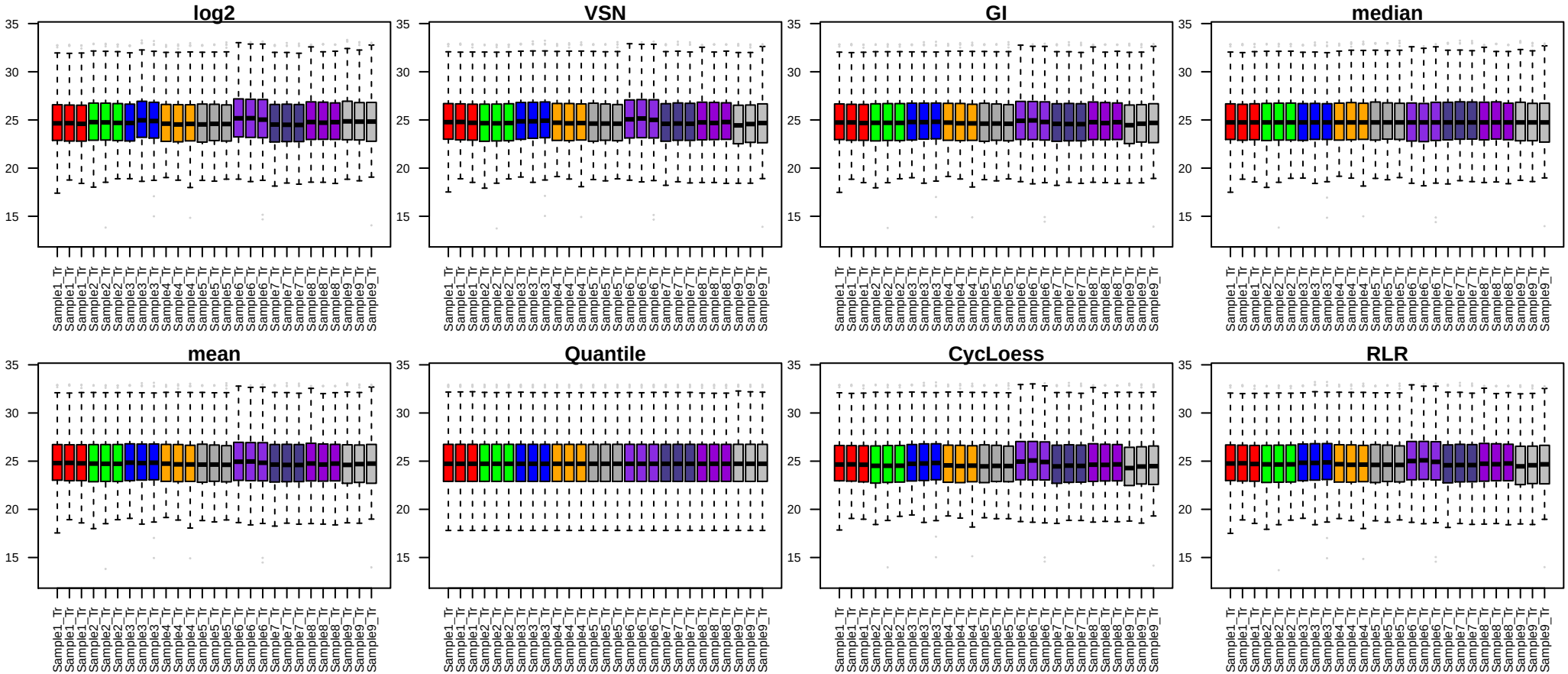


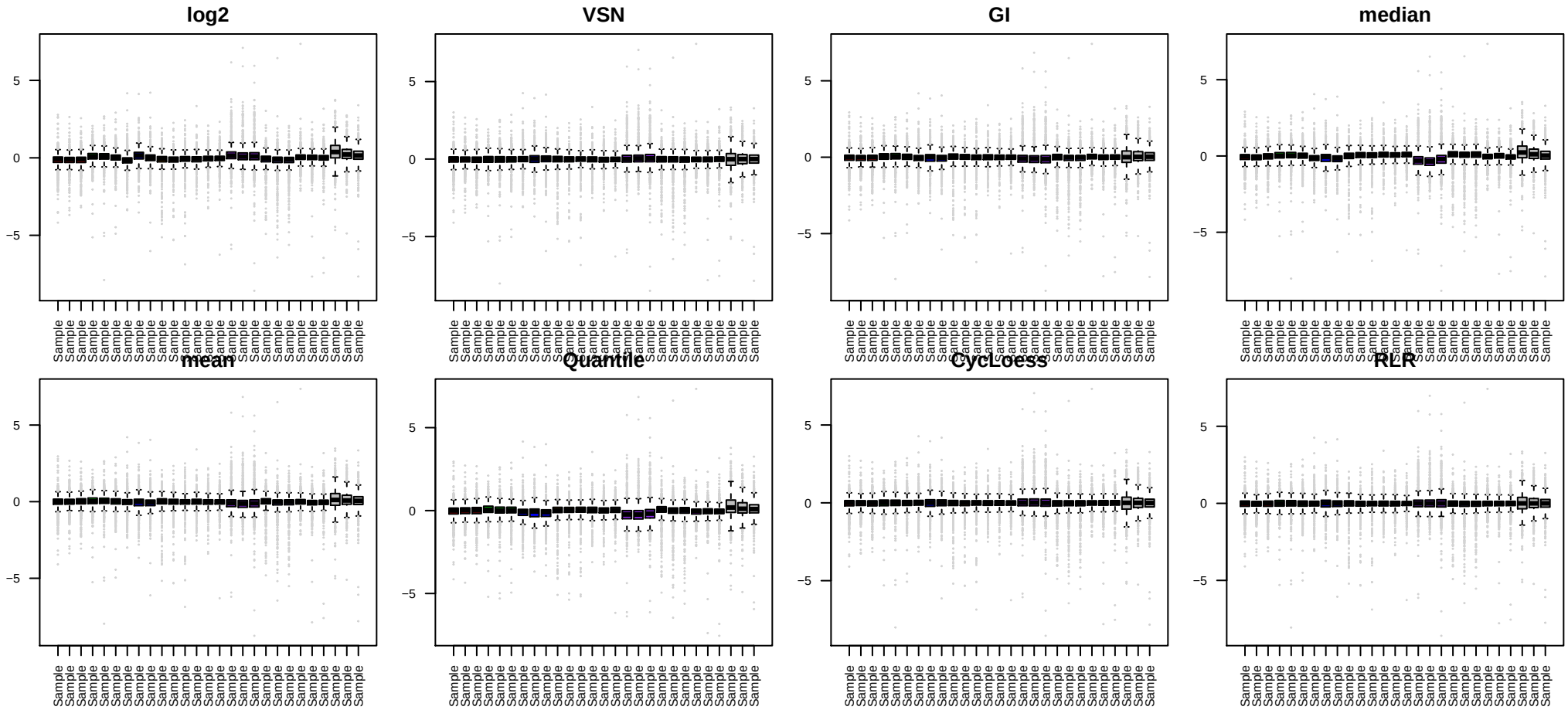
CycLoess

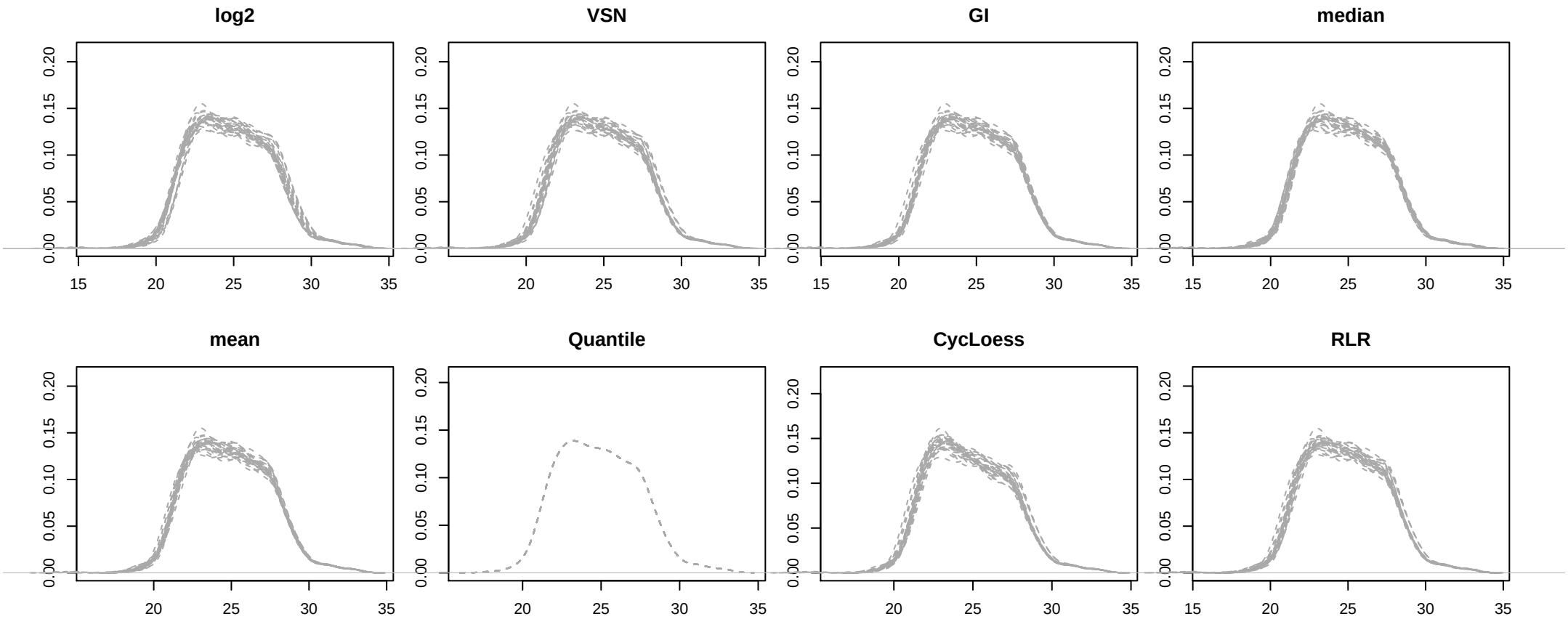


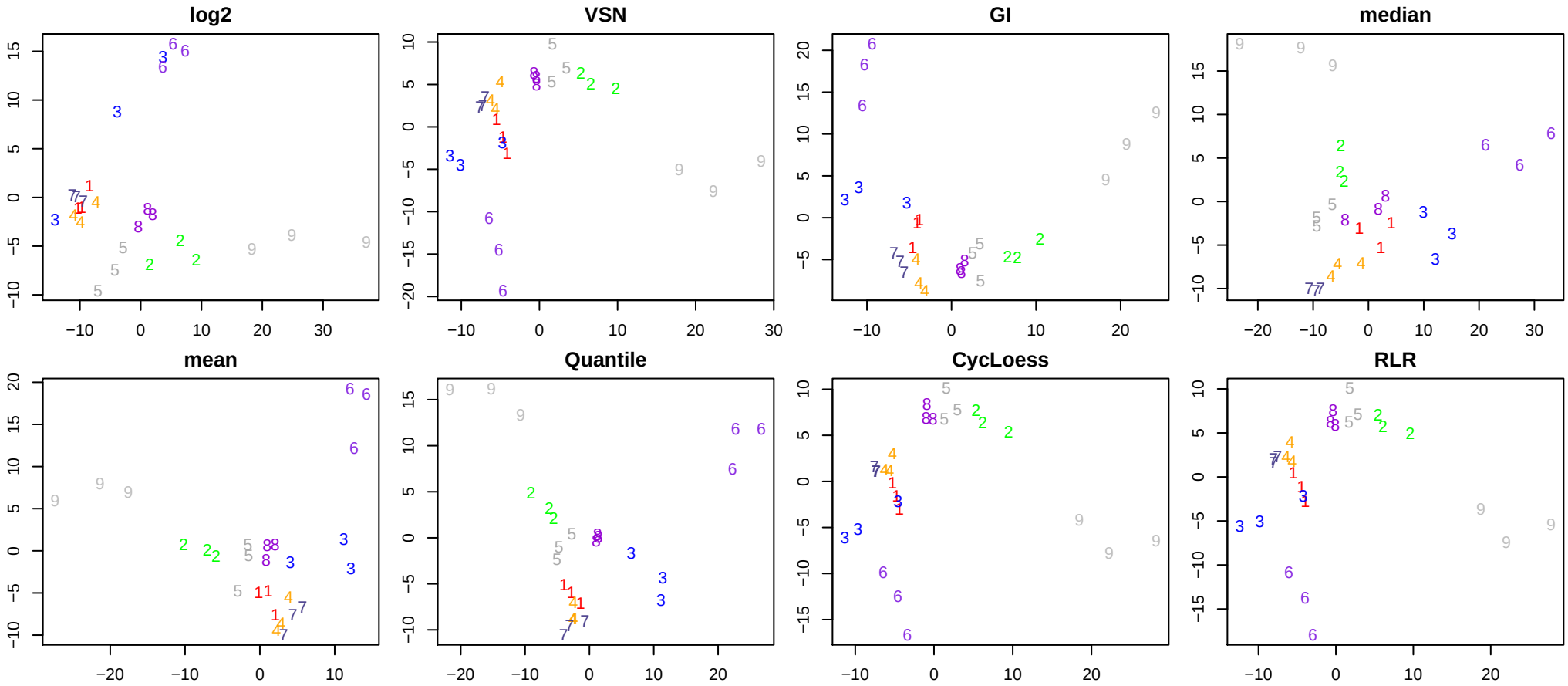
RLR

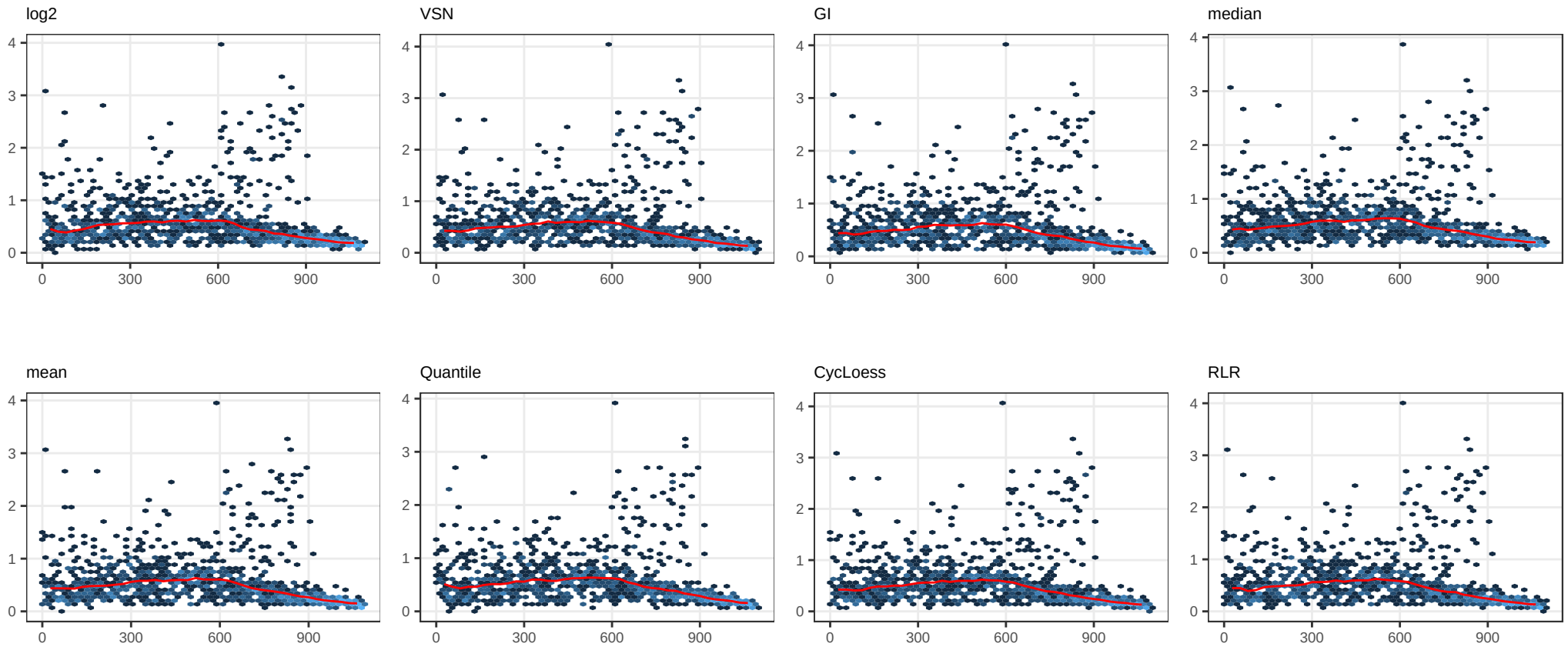


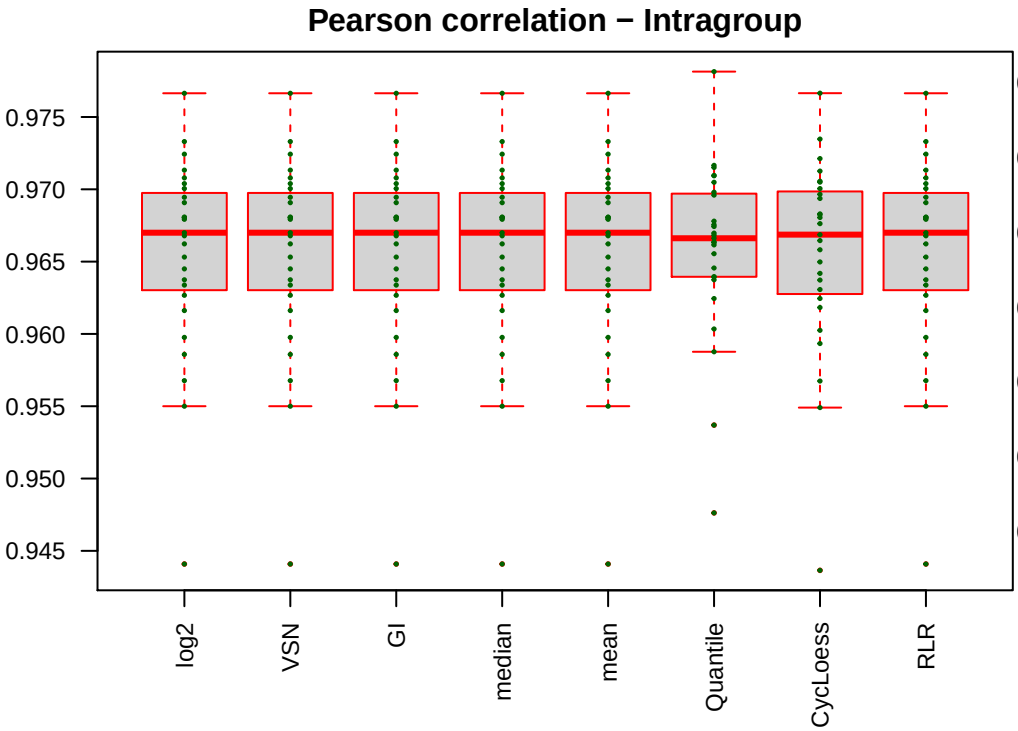

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
35
30
25
20
15
Sample1_Tr
Sample2_Tr
Sample3_Tr
Sample4_Tr
Sample5_Tr
Sample6_Tr
Sample7_Tr
Sample8_Tr
Sample9_Tr

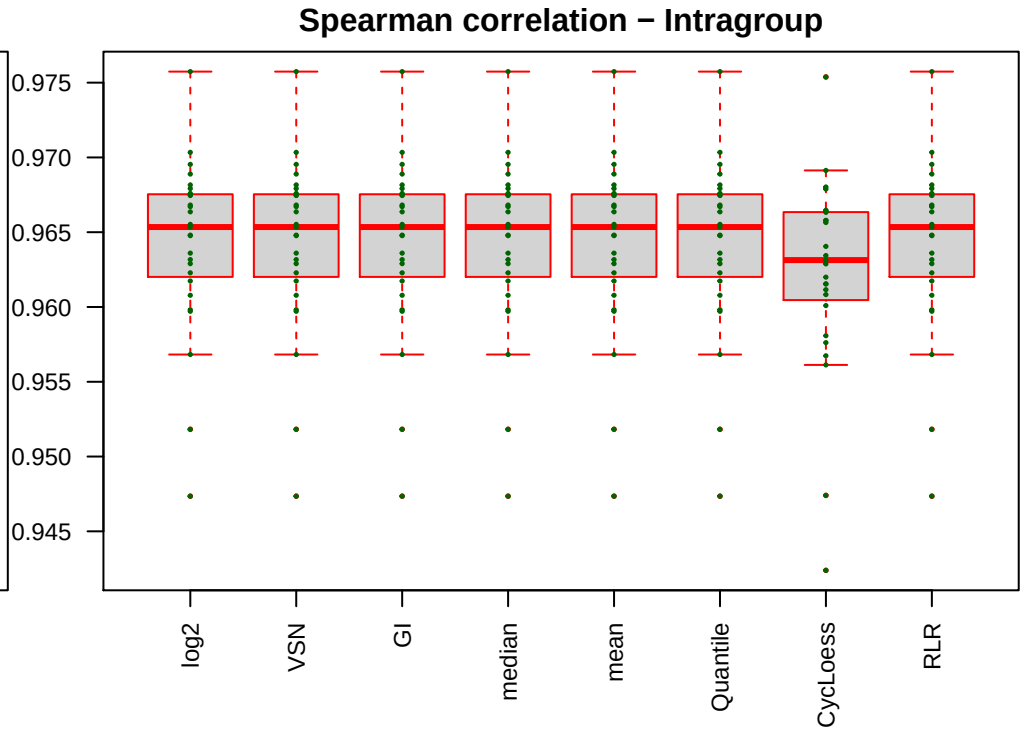

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
5
0
−5
Sample


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
0.00
0.05
0.10
0.15
0.20
15
20
25
30
35

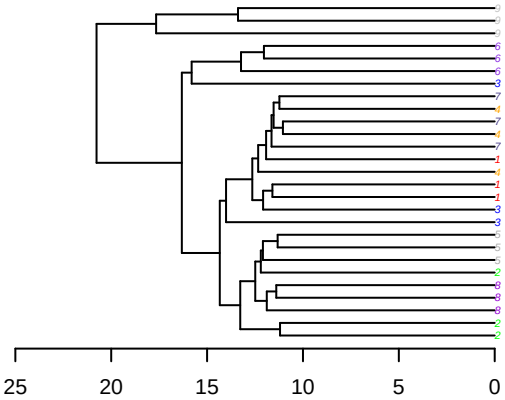

log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


log2
VSN
GI
median
mean
Quantile
CycLoess
RLR
0
1
2
3
4
0
300
600
900

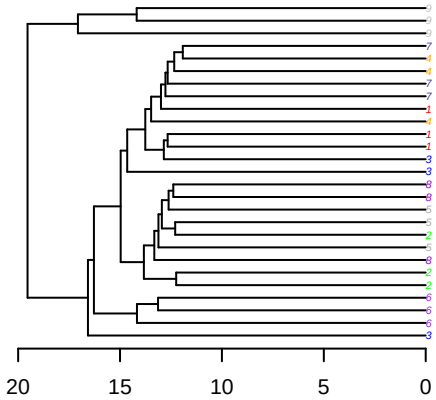

Pearson correlation − Intragroup
0.975
0.970
0.965
0.960
0.955
0.950
0.945
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR


Spearman correlation − Intragroup
0.975
0.970
0.965
0.960
0.955
0.950
0.945
log2
VSN
GI
median
mean
Quantile
CycLoess
RLR

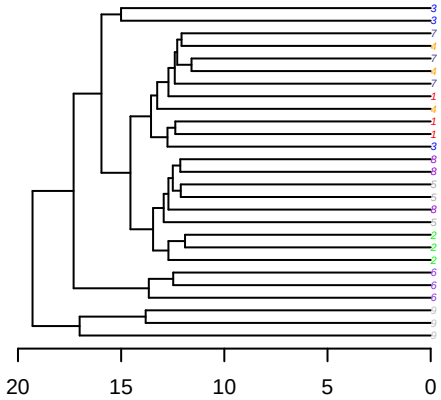
log2



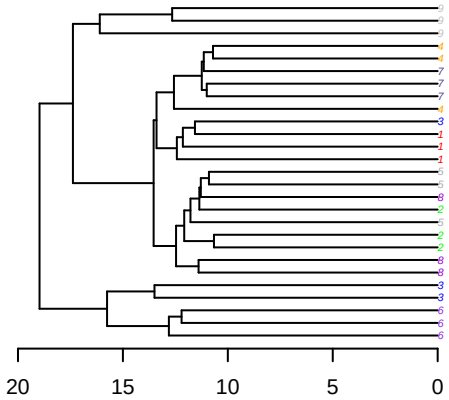
VSN



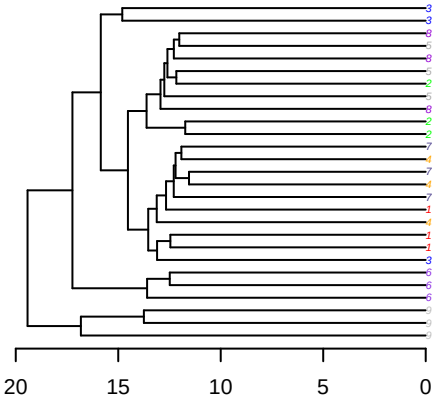
GI



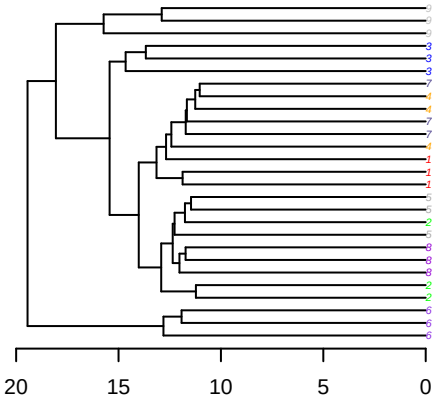
median



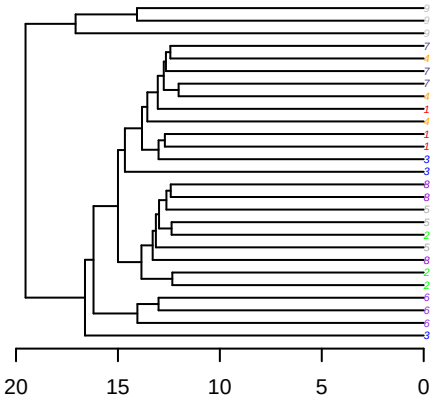
mean



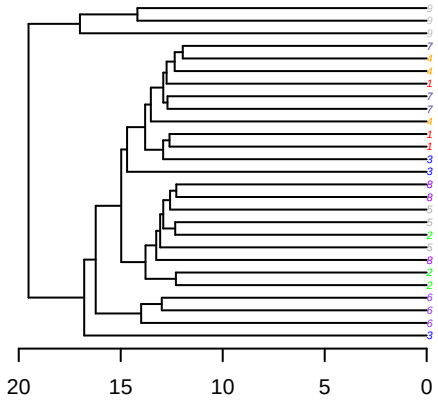
Quantile

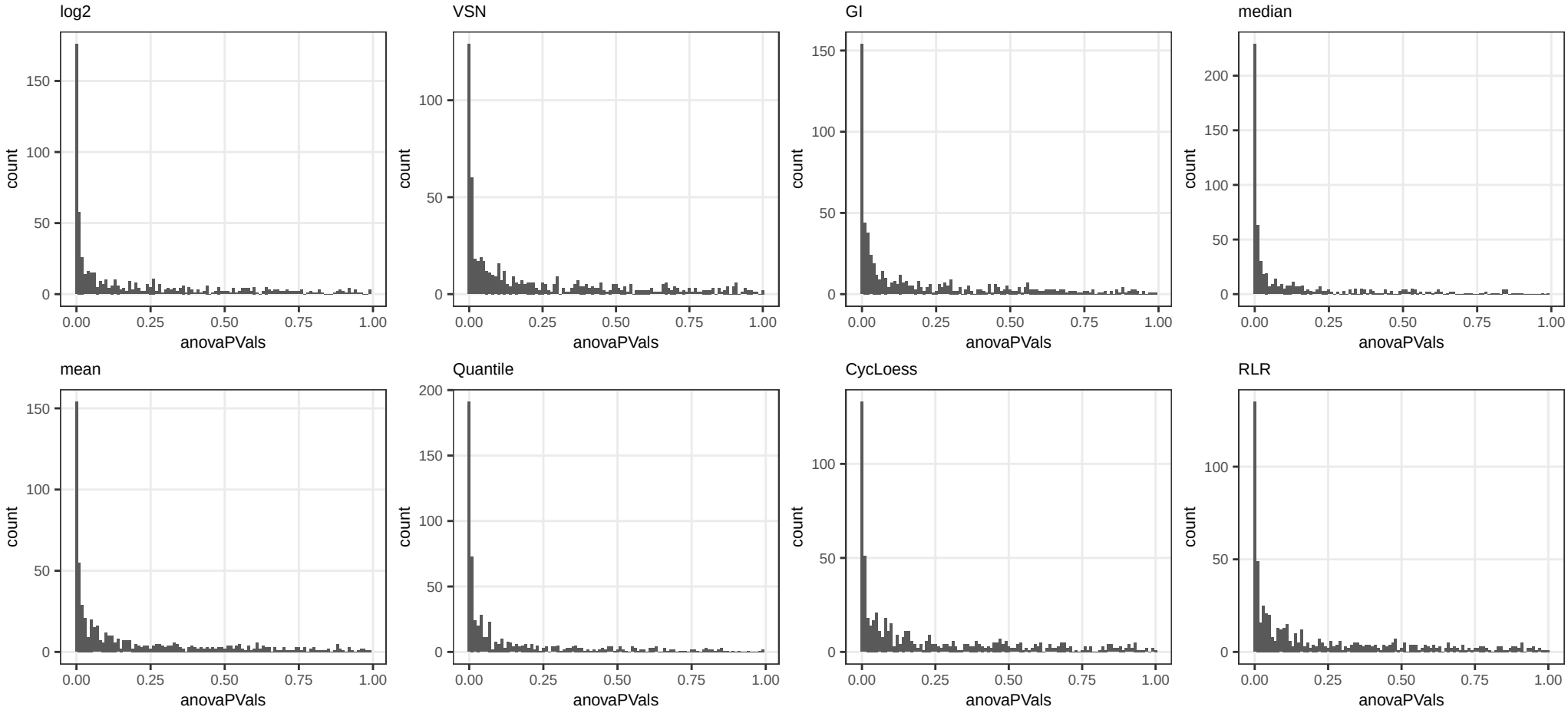


CycLoess



RLR




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