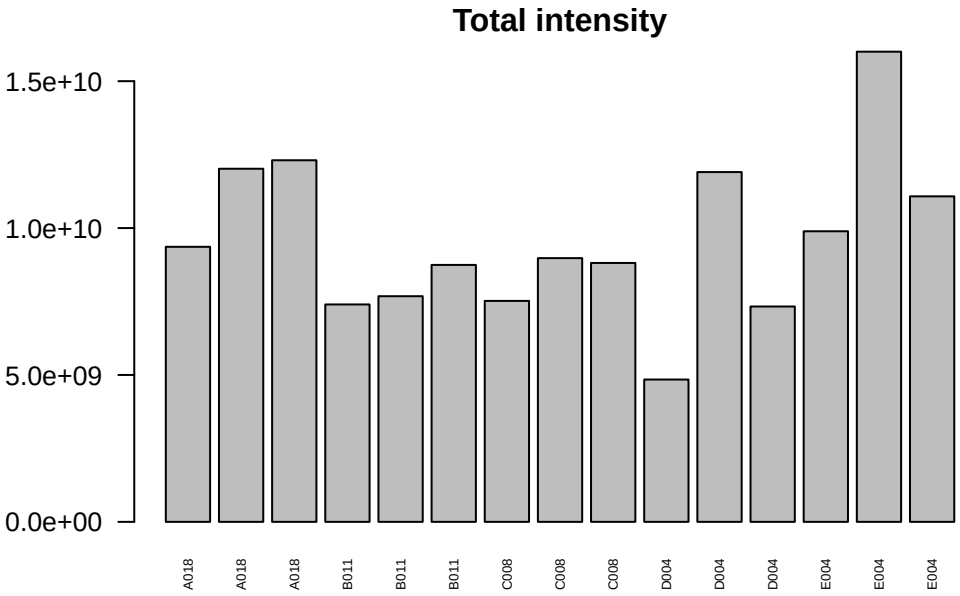
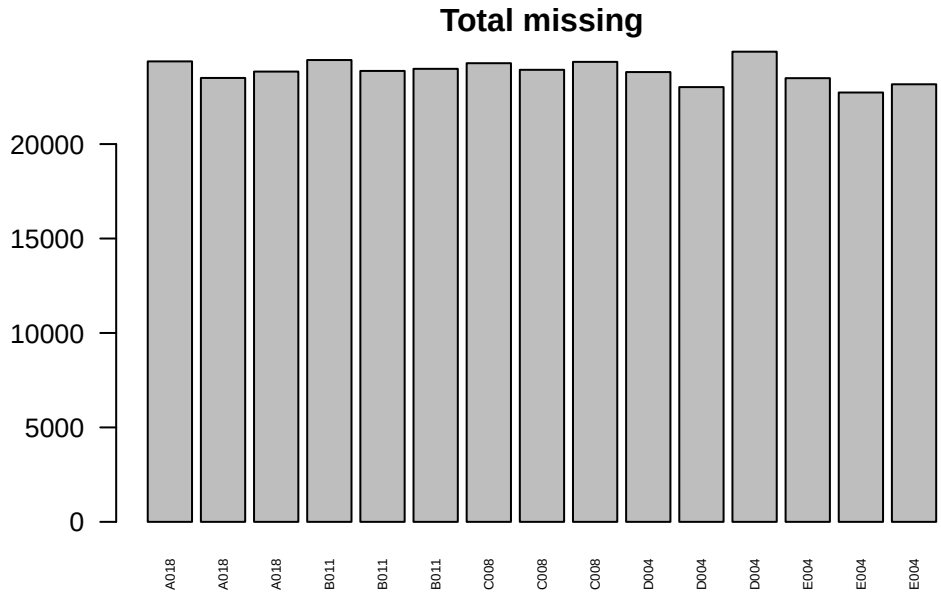
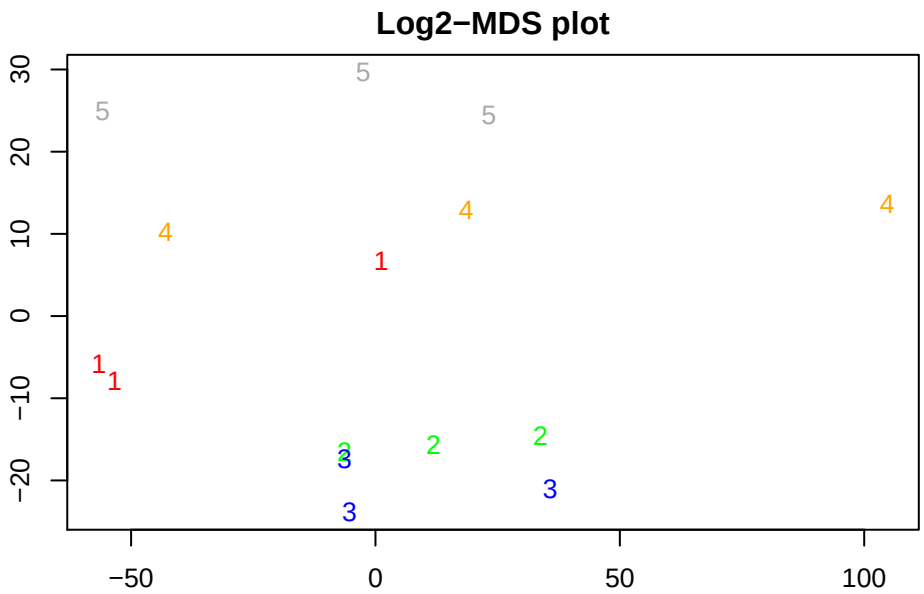
Project Name: Case Study 1

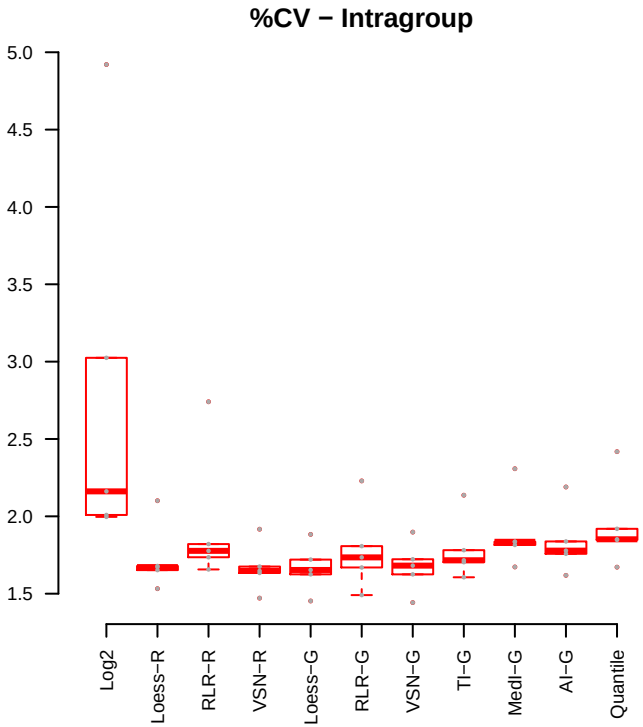
Normalization report by Normalyzer

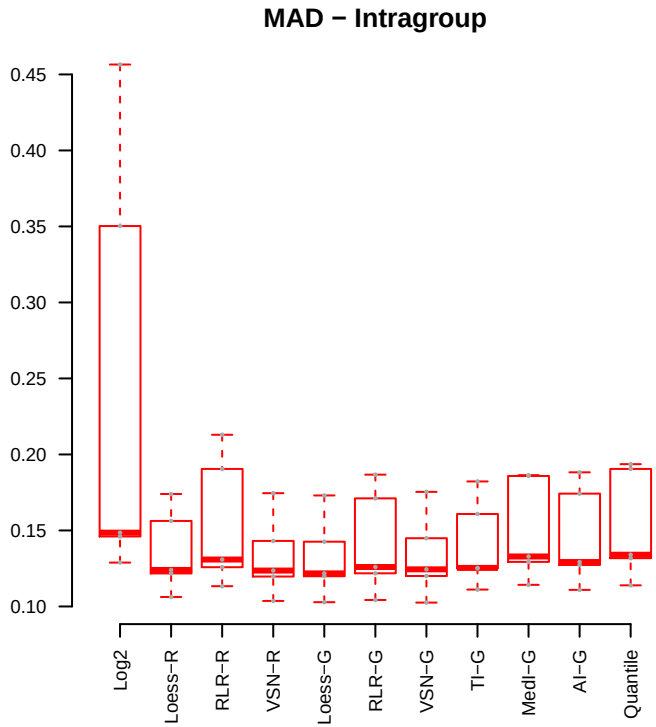
Report created on: 2014-03-06

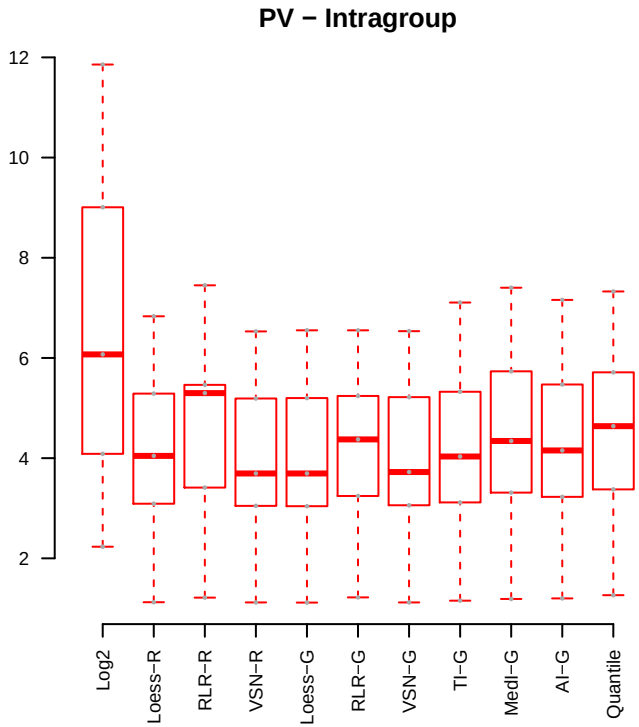

Total intensity
1.5e+10
1.0e+10
5.0e+09
0.0e+00
A018
A018
A018
B011
B011
B011
C008
C008
C008
D004
D004
D004
E004
E004
E004

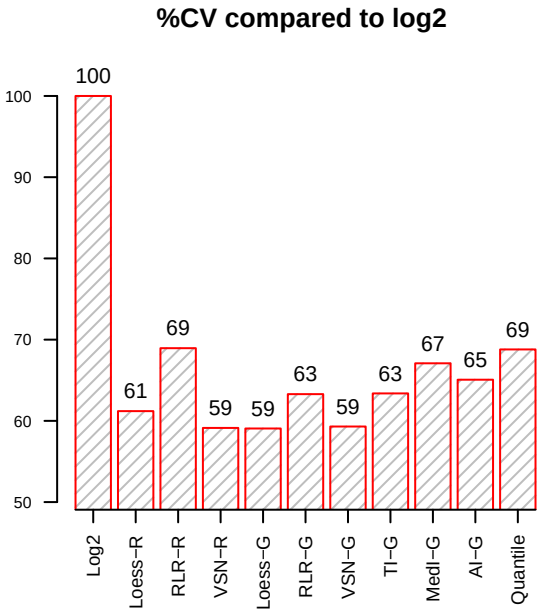

Total missing
20000
15000
10000
5000
0
A018
A018
A018
B011
B011
B011
C008
C008
C008
D004
D004
D004
E004
E004
E004

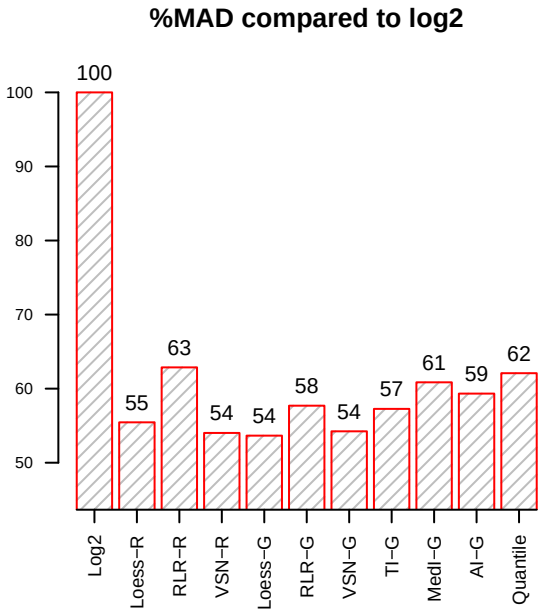

Log2−MDS plot
30
20
10
0
−10
−20
−50
0
50
100

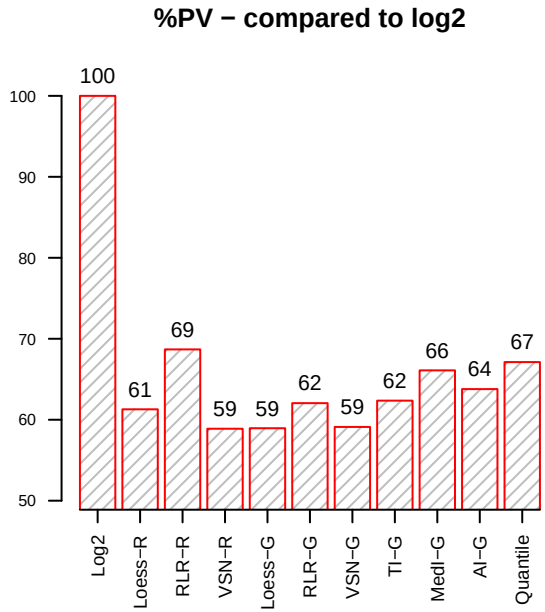

%CV − Intragroup
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile

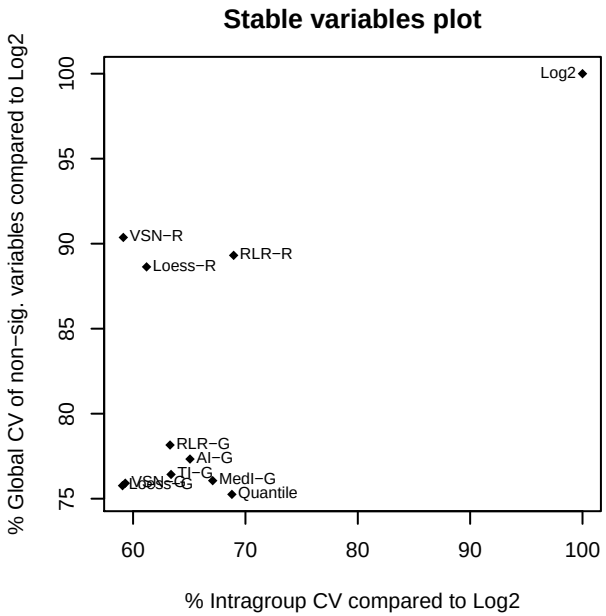

MAD − Intragroup
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile

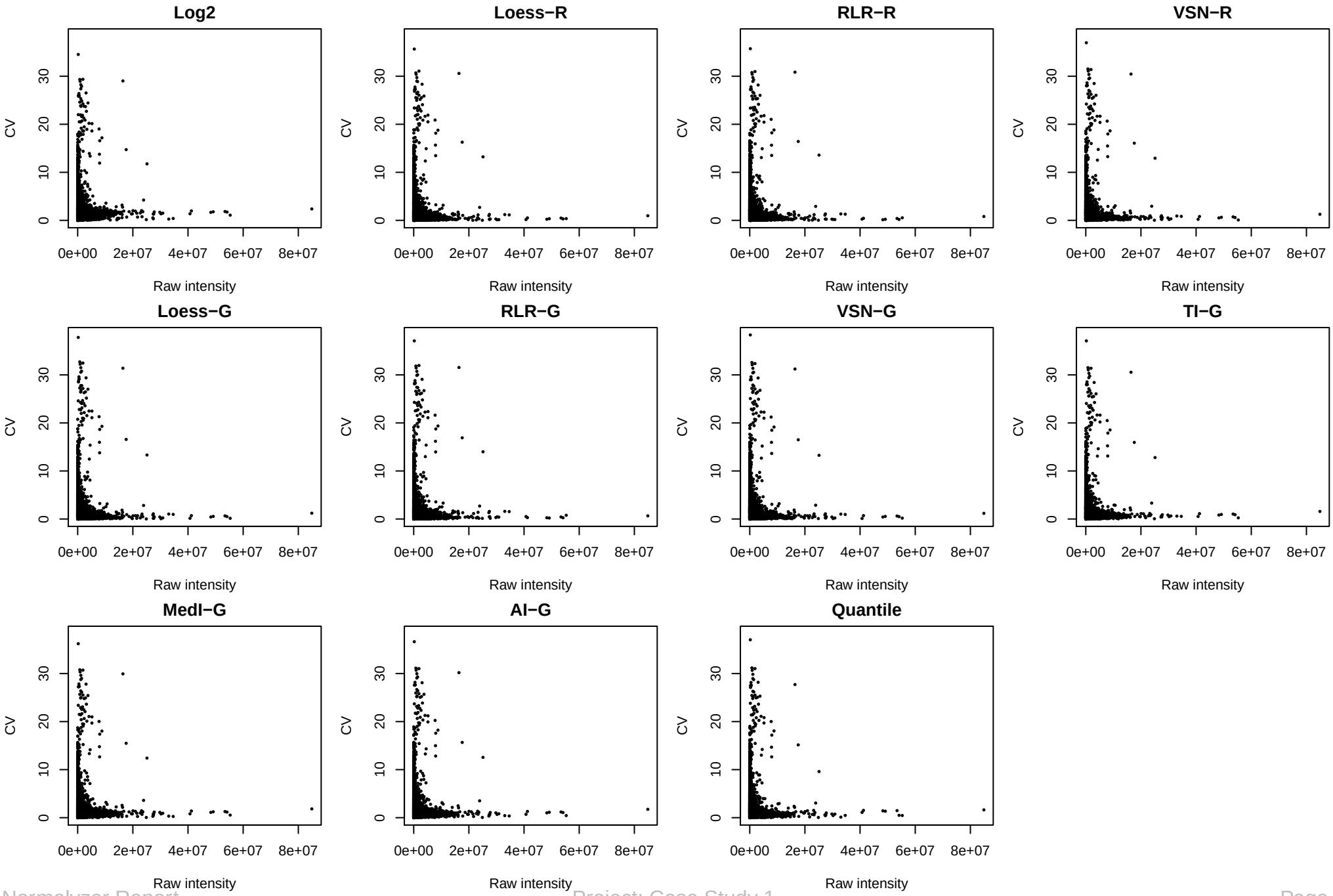

PV − Intragroup
12
10
8
6
4
2
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile

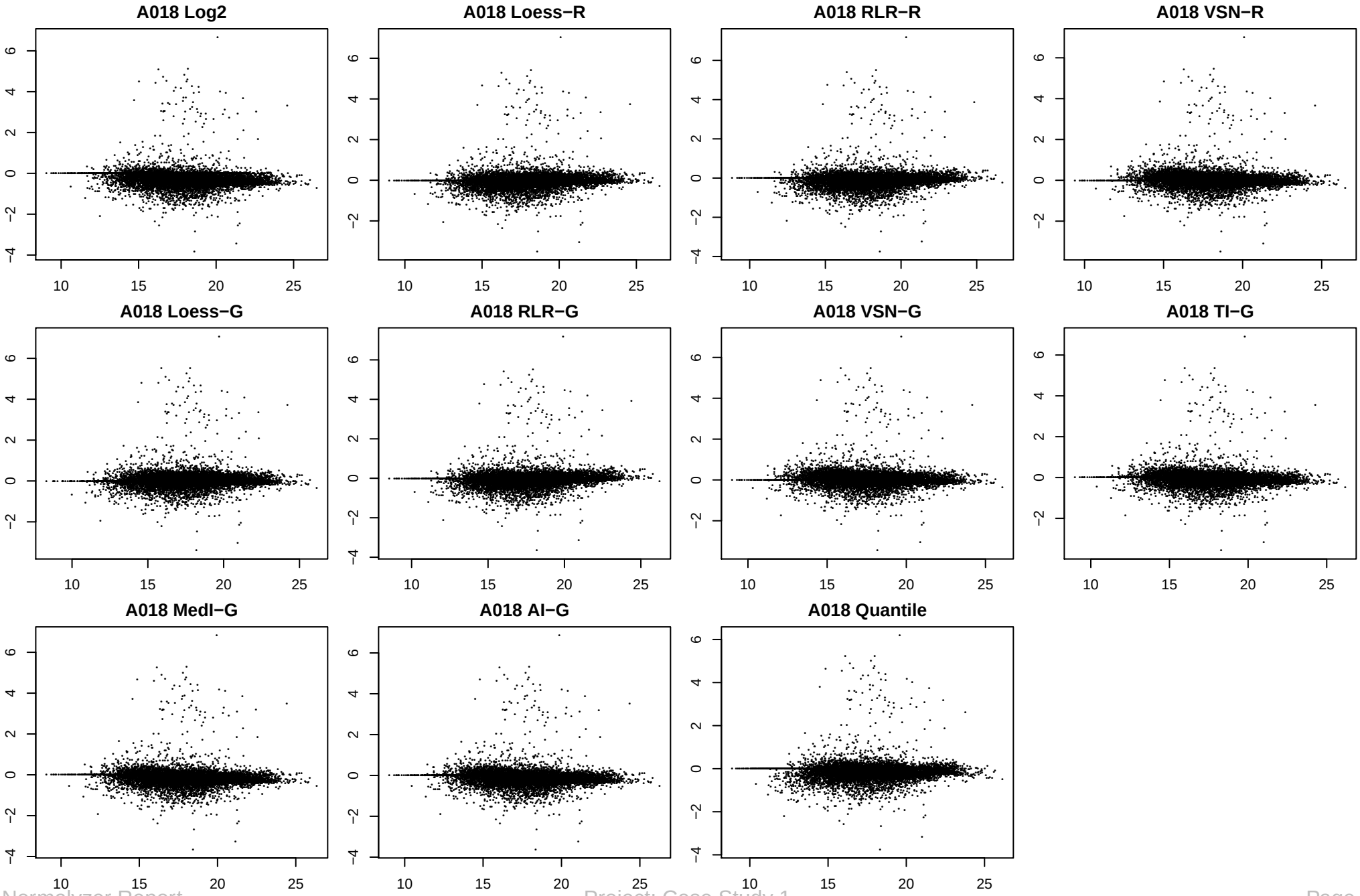

%CV compared to log2
100
61
69
59
59
63
59
63
67
65
69
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile

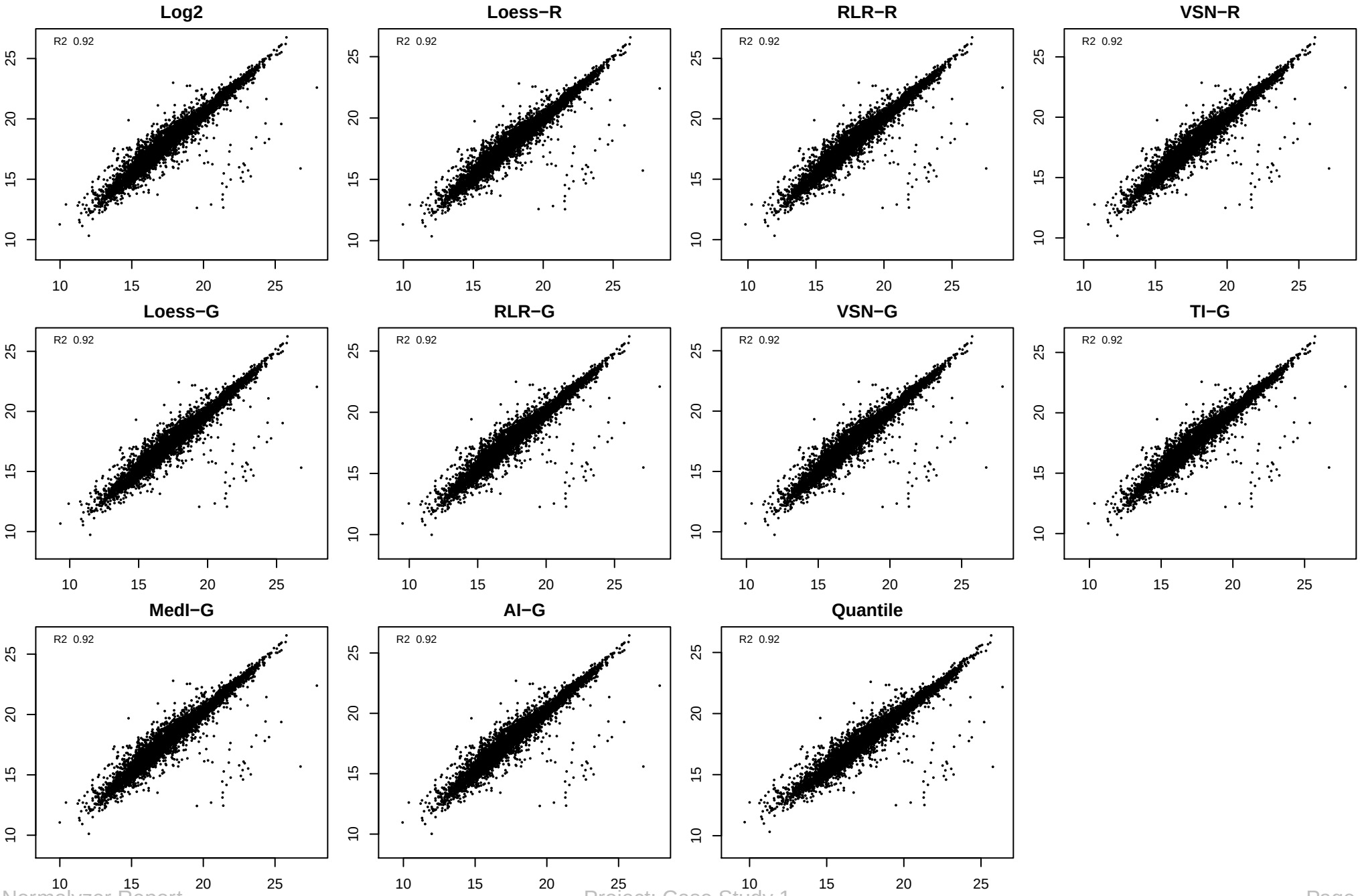

%MAD compared to log2
100
55
63
54
54
58
54
57
61
59
62
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile

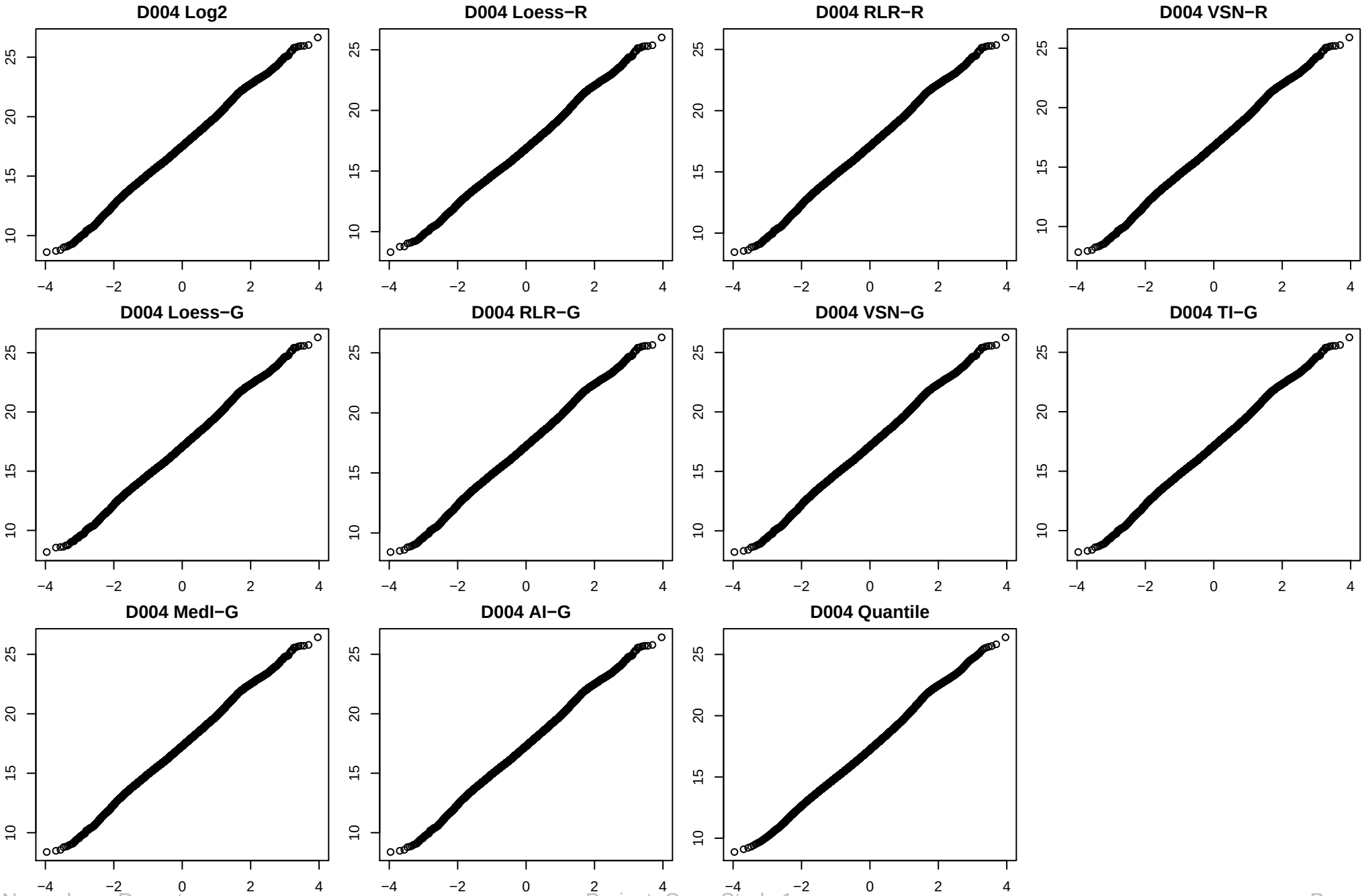

%PV − compared to log2
100
61
69
59
59
62
59
62
66
64
67
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile

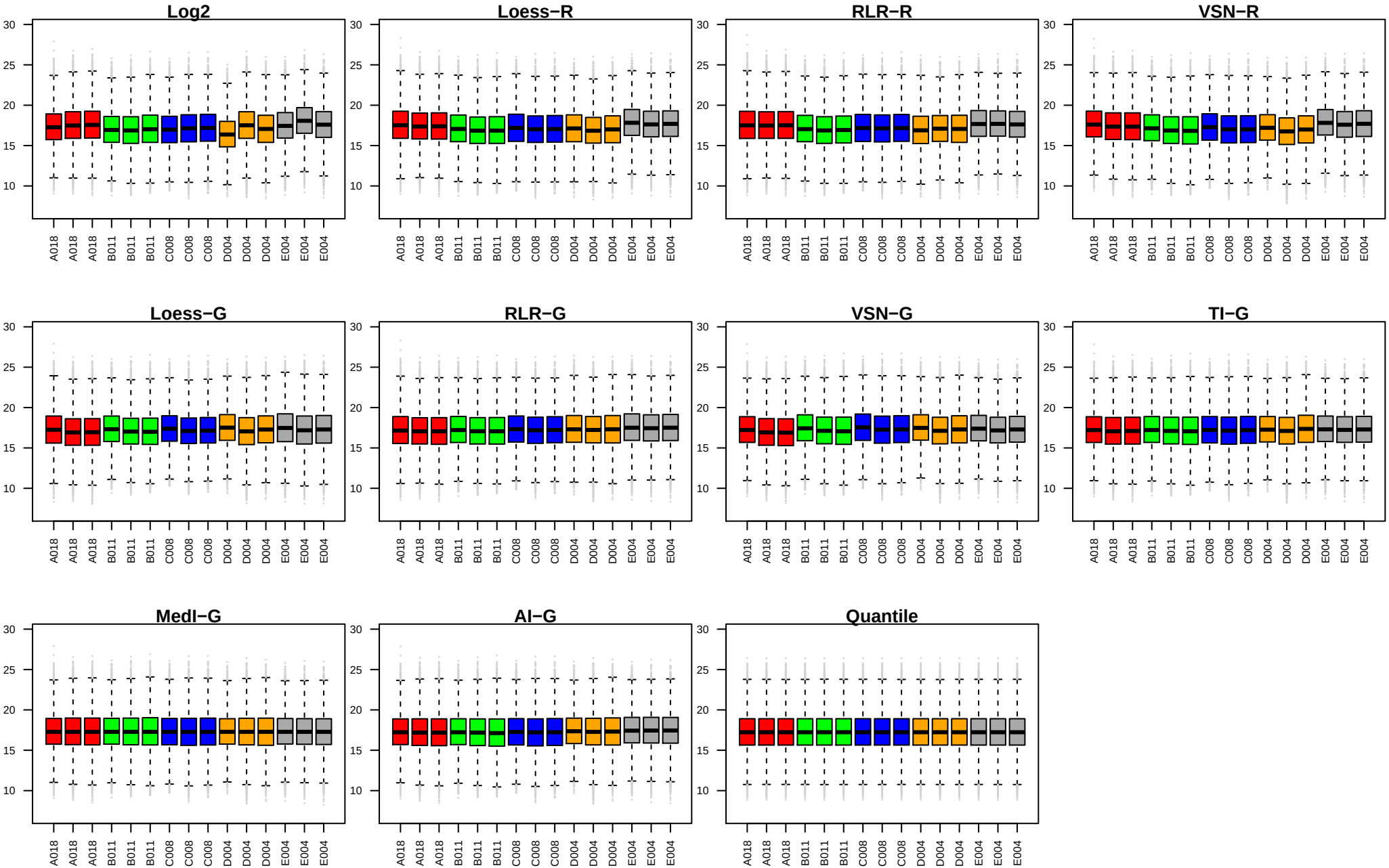

Stable variables plot
% Global CV of non−sig. variables compared to Log2
% Intragroup CV compared to Log2
Log2
VSN−R
Loess−R
RLR−R
RLR−G
AI−G
TI−G
MedI−G
Quantile

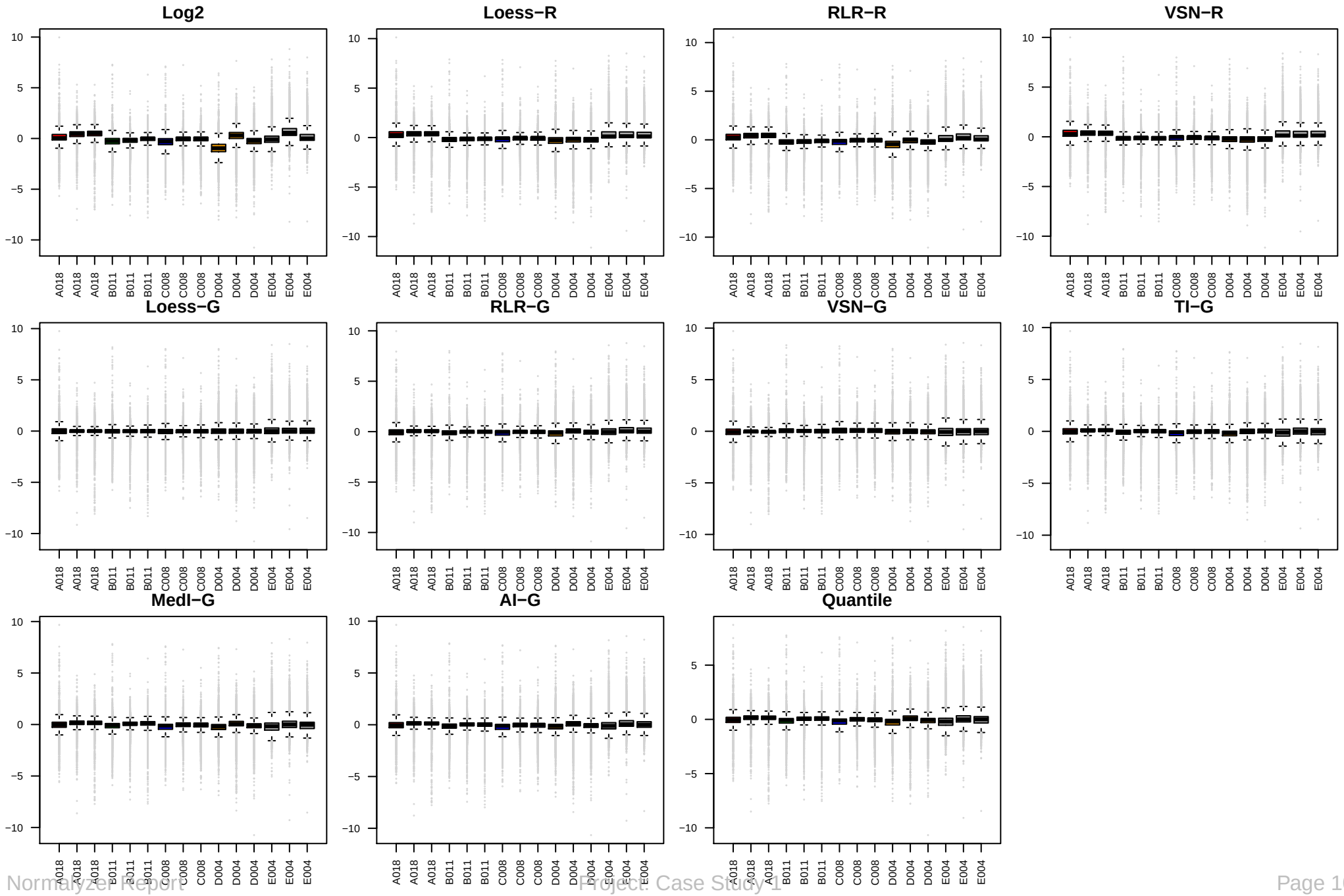

Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile
CV
Raw intensity
0
10
20
30
0e+00
2e+07
4e+07
6e+07
8e+07

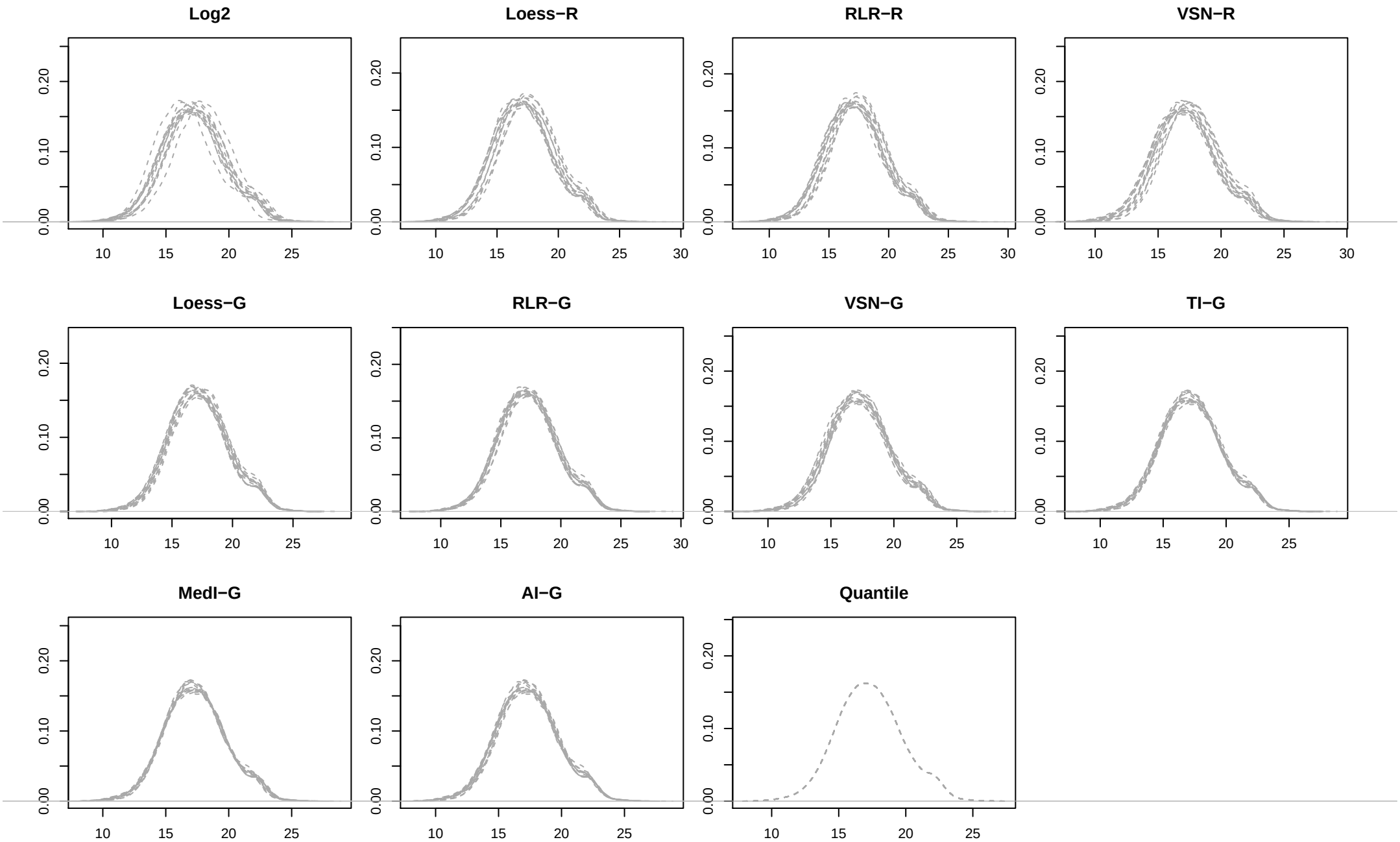

A018 Log2
A018 Loess−R
A018 RLR−R
A018 VSN−R
A018 Loess−G
A018 RLR−G
A018 VSN−G
A018 TI−G
A018 MedI−G
A018 AI−G
A018 Quantile

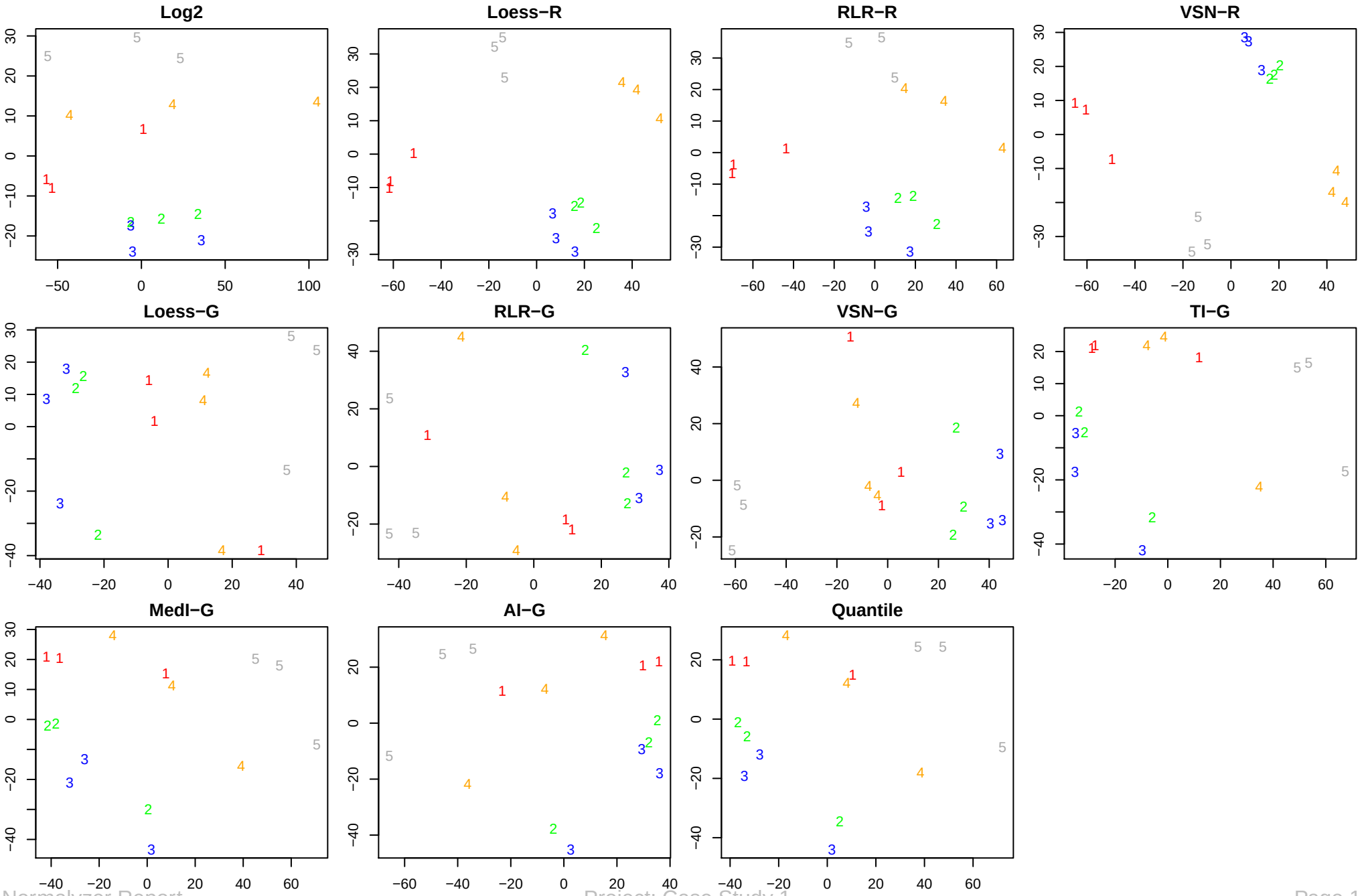

Log2
R2 0.92
Loess−R
R2 0.92
RLR−R
R2 0.92
VSN−R
R2 0.92
Loess−G
R2 0.92
RLR−G
R2 0.92
VSN−G
R2 0.92
TI−G
R2 0.92
MedI−G
R2 0.92
AI−G
R2 0.92
Quantile
R2 0.92
10
15
20
25

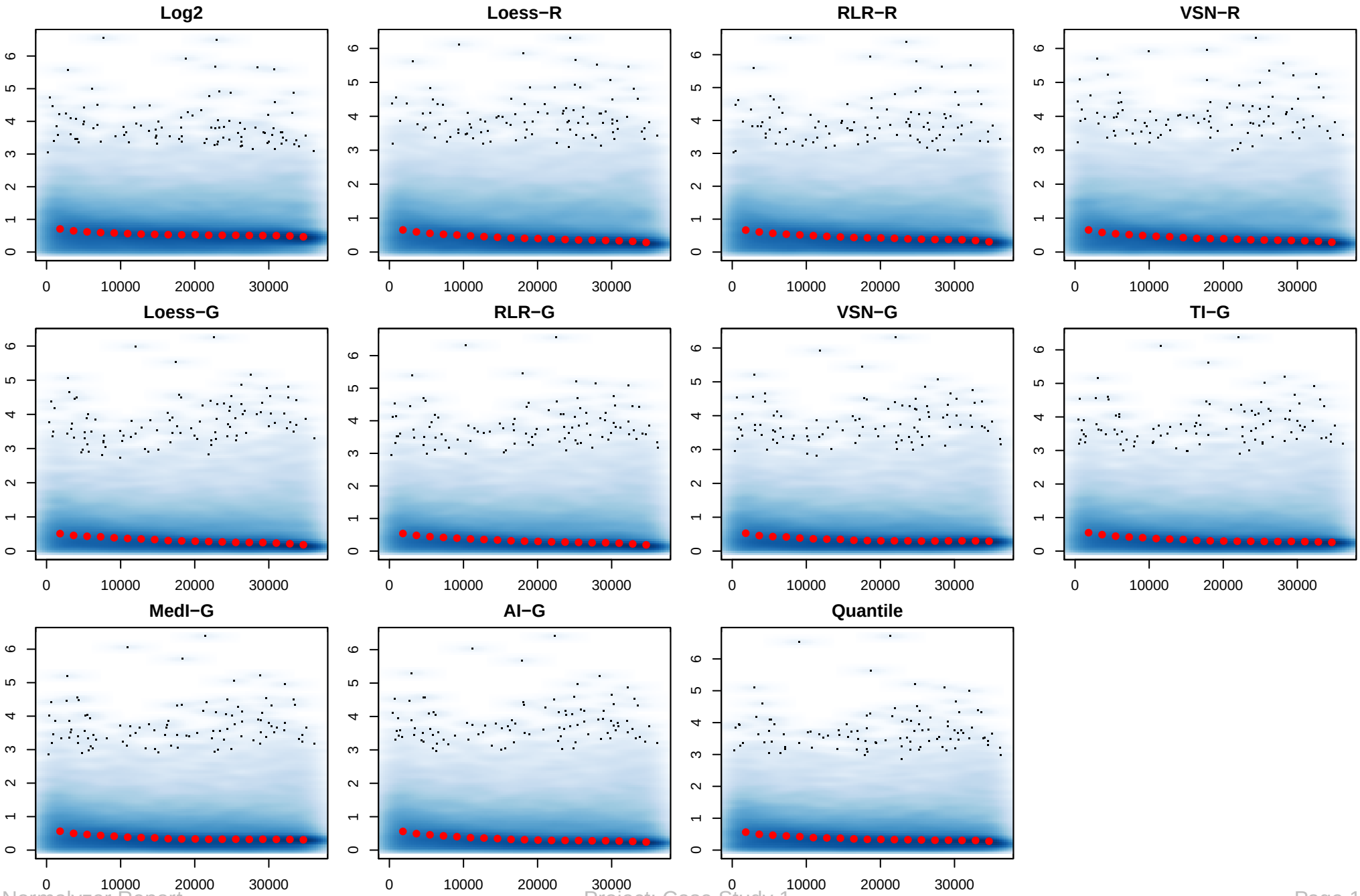

D004 Log2
D004 Loess−R
D004 RLR−R
D004 VSN−R
D004 Loess−G
D004 RLR−G
D004 VSN−G
D004 TI−G
D004 MedI−G
D004 AI−G
D004 Quantile

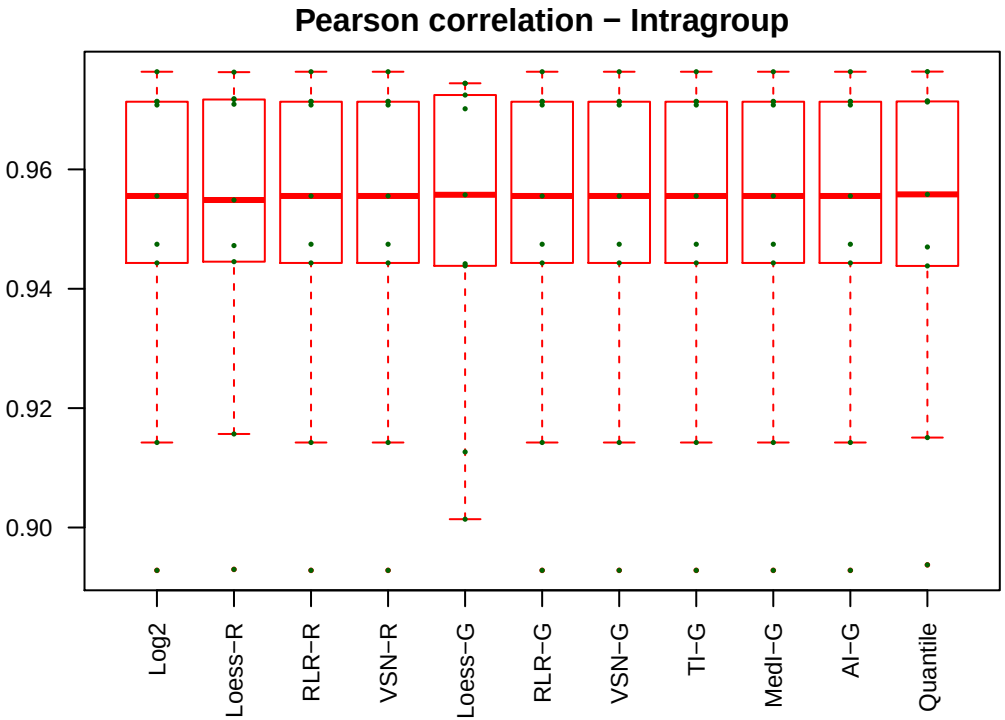

Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile
30
25
20
15
10
A018
B011
C008
D004
E004

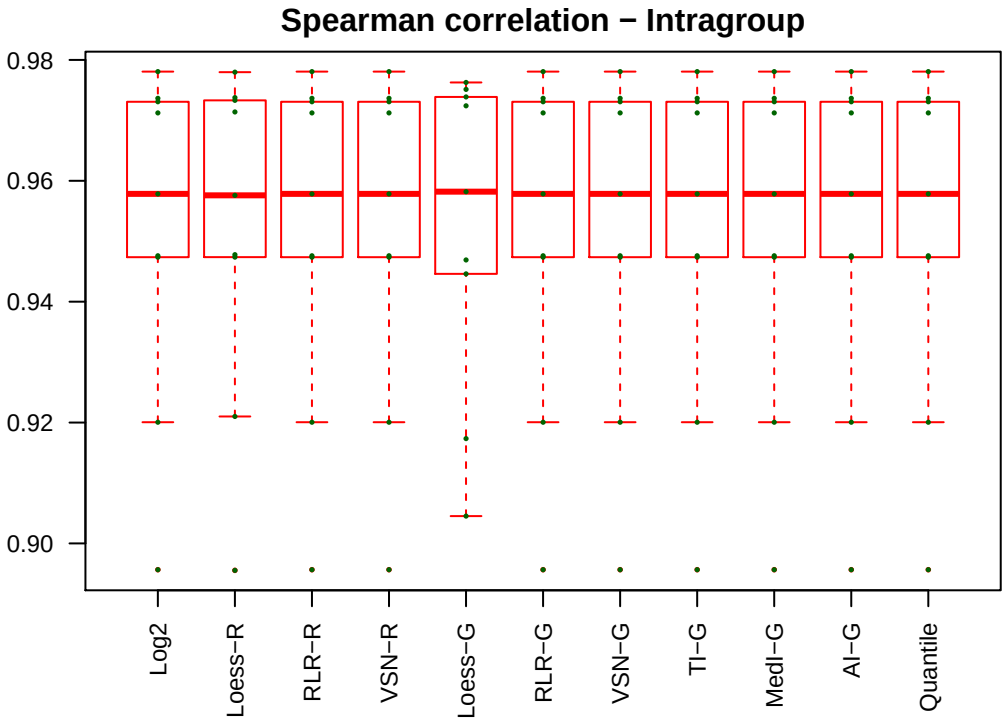

Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile
10
5
0
−5
−10
A018
B011
C008
D004
E004

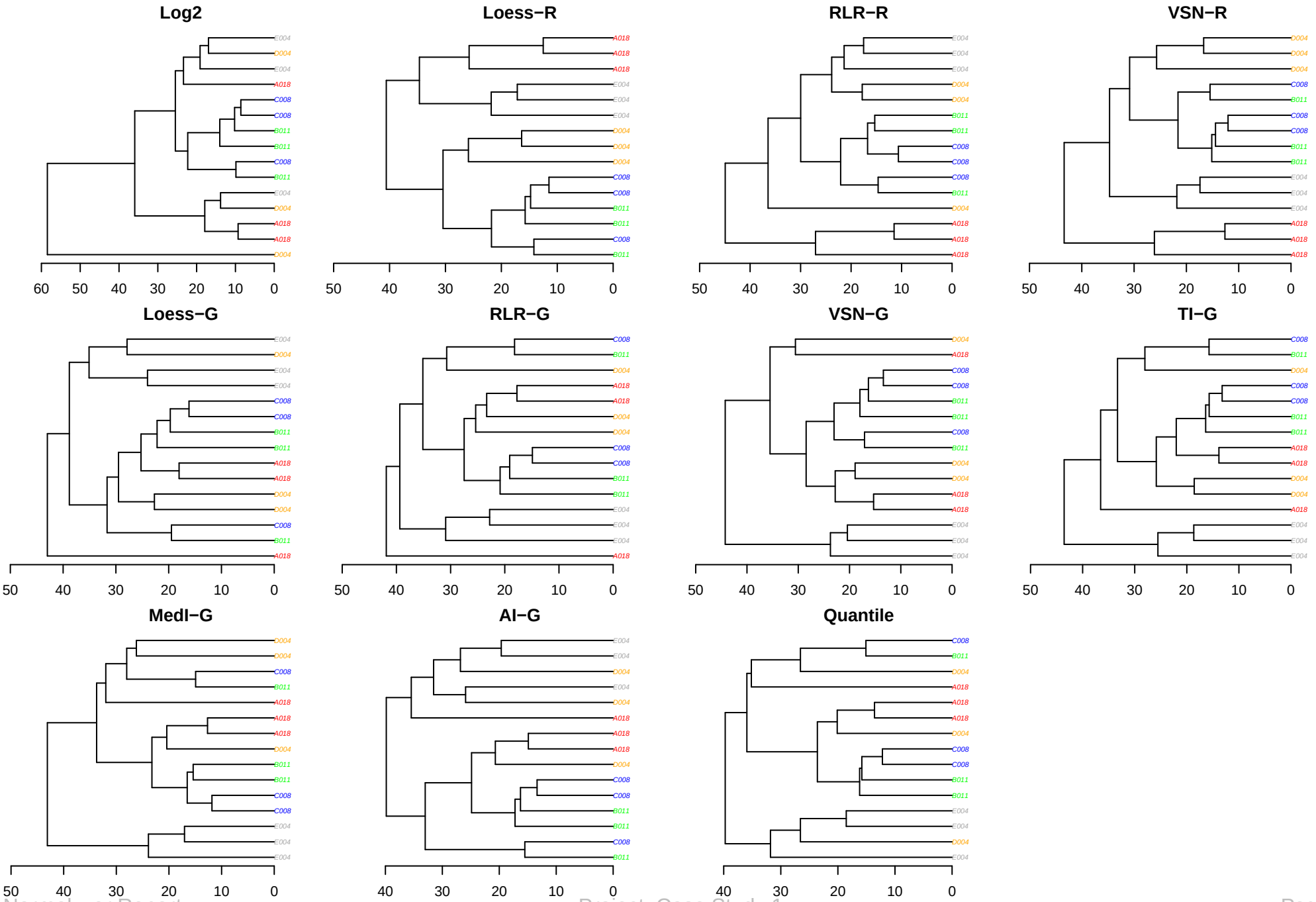

Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile
0.00
0.10
0.20
10
15
20
25
30

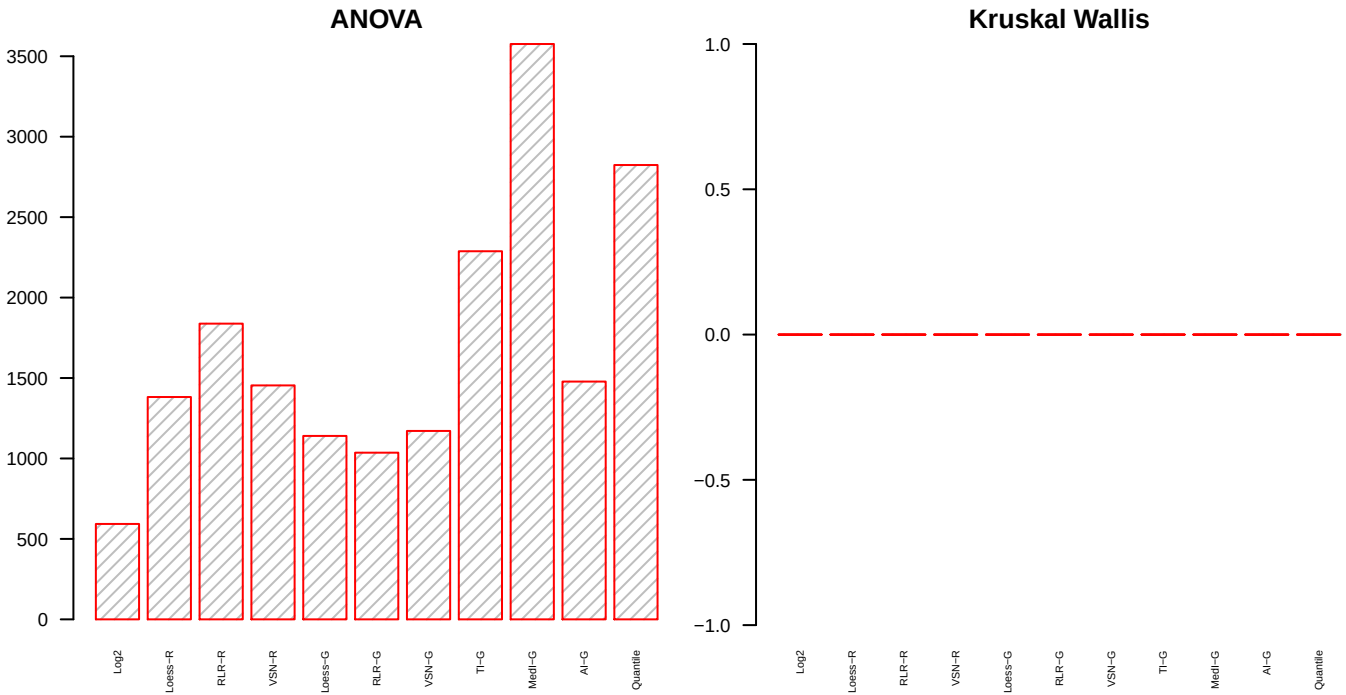

Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile


Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile
0
1
2
3
4
5
6
0
10000
20000
30000


Pearson correlation − Intragroup
0.96
0.94
0.92
0.90
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile


Spearman correlation − Intragroup
0.98
0.96
0.94
0.92
0.90
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile


Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
MedI−G
AI−G
Quantile


ANOVA
3500
3000
2500
2000
1500
1000
500
0
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
Medi−G
AI−G
Quantile

Kruskal Wallis
1.0
0.5
0.0
−0.5
−1.0
Log2
Loess−R
RLR−R
VSN−R
Loess−G
RLR−G
VSN−G
TI−G
Medi−G
AI−G
Quantile