Supplementary material

"Reliability of DNA methylation measures from dried blood spots and mononuclear cells using the HumanMethylation450k BeadArray"

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- **Supplementary Table 1:** Median intraclass correlation coefficients for M-values across CpG location and probe characteristics, based on 67 technical replicate pairs of dried blood spot (DBS) samples, and 62 technical replicate pairs of mononuclear cell (PBMC) samples

- **Supplementary Table 2**: Median intraclass correlation coefficients for technical replicates and study duplicates after adjustment for cell composition

- **Supplementary Figure 1:** Intraclass correlation coefficient (ICC) estimates as a function of the mean β- and M-values, by of quintiles of CpG variability

Supplementary Table 1: Median intraclass correlation coefficients for M-values across CpG location and probe characteristics, based on 67 technical replicate pairs of dried blood spot (DBS) samples, and 62 technical replicate pairs of mononuclear cell (PBMC) samples
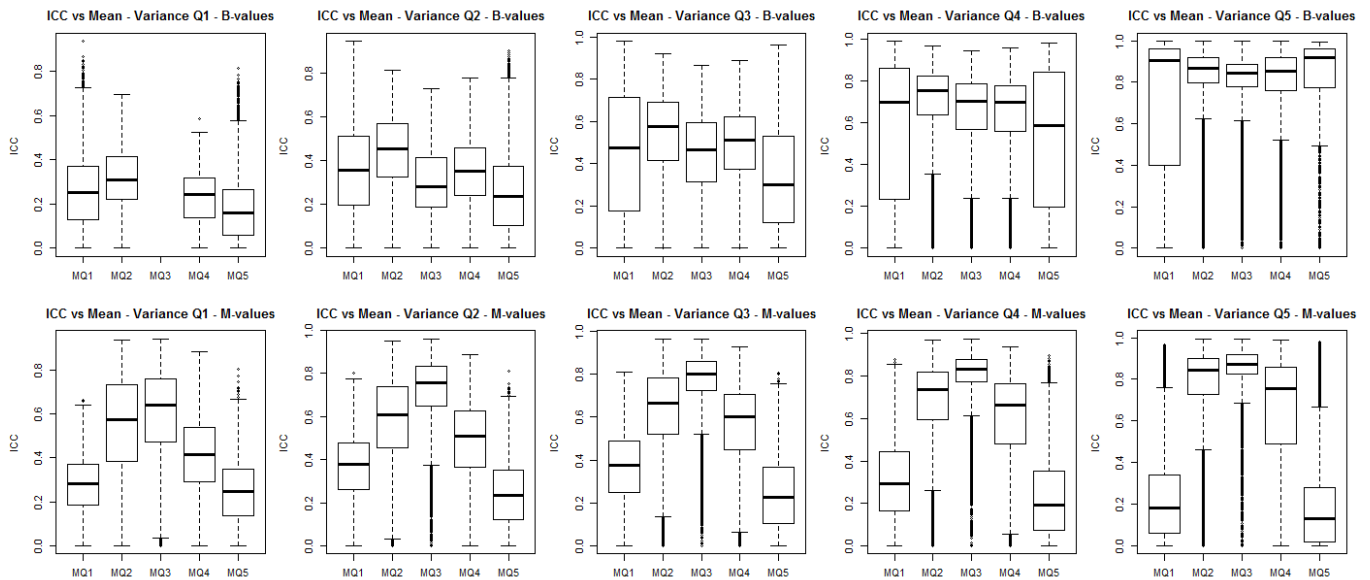
Median ICC	Technical replicates		Study duplicates	
Chromosome	PBMC	DBS	PBMC	DBS
1	0.42	0.20	0.29	0.12
2	0.44	0.21	0.31	0.13
3	0.43	0.21	0.31	0.13
4	0.40	0.20	0.29	0.11
5	0.42	0.19	0.30	0.11
6	0.41	0.20	0.28	0.11
7	0.43	0.21	0.32	0.13
8	0.41	0.19	0.28	0.12
9	0.40	0.18	0.28	0.11
10	0.43	0.20	0.31	0.12
11	0.39	0.18	0.26	0.11
12	0.42	0.20	0.30	0.12
13	0.42	0.21	0.30	0.13
14	0.46	0.22	0.32	0.13
15	0.40	0.18	0.27	0.14
16	0.40	0.19	0.28	0.11
17	0.43	0.21	0.31	0.13
18	0.47	0.23	0.34	0.15
19	0.42	0.20	0.28	0.12
20	0.44	0.20	0.30	0.12
21	0.45	0.21	0.32	0.13

22	0.43	0.21	0.31	0.13
X	0.65	0.51	0.52	0.34
Region				
Shores	0.50	0.28	0.36	0.16
Shelves	0.44	0.26	0.30	0.12
Islands	0.26	0.15	0.16	0.08
Promoters	0.30	0.18	0.19	0.08
Regulatory regions	0.42	0.24	0.30	0.13
Body	0.42	0.23	0.29	0.12
Infinium Assay Type				
I	0.31	0.12	0.18	0.08
II	0.47	0.22	0.34	0.14
SNP located nearby				
No	0.41	0.18	0.28	0.11
Yes	0.45	0.22	0.33	0.15
CpG sites flagged in [1]				
No	0.41	0.18	0.28	0.12
Yes	0.44	0.22	0.31	0.14

Supplementary Table 2: Median intraclass correlation coefficients for technical replicates and study duplicates after adjustment for cell composition

Median ICC	Technical replicates		Study duplicates	
Chromosome	PBMC	DBS	PBMC	DBS
Before cell composition adjustment	0.55 [0.22-0.81]	0.25 [0.05-0.49]	0.29 [0.08-0.59]	0.13 [0.03-0.38]
After cell composition adjustment	0.45 [0.17-0.70]	0.19 [0.03-0.40]	0.20 [0.05-0.45]	0.10 [0.02-0.28]

Supplementary Figure 1: Intraclass correlation coefficient (ICC) estimates as a function of the mean β- and M-values, by of quintiles of CpG variability[a]

[a] MQ1, MQ2… MQ5, designate the 1st, 2nd, and 5th quintile of the mean β-values (respectively, M-values)