**Table 1**: Input parameters for the DMR identification methods.

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| Method | Implementation | Input Parameters |
| DMRcate | R/BioC package DMRcate v1.14.0 | lambda=1000, C=2 |
| bumphunter | R/BioC package bumphunter v1.20.0 | pickCutoff = TRUE, pickCutoffQ = 0.99, maxGap=200, nullMethod="permutation",  B=1000 |
| probe lasso | R/BioC package ChAMP v2.9.10 | method = ”ProbeLasso”, min-Probes = 4, adjPvalDmr = 0.05, meanLassoRadius = 375, minDmrSep = 200 |
| comb-p | Python comb-p library v0.48 | -c 4 --seed 1e-3 --dist 200 --region-filter-p 0.1 |