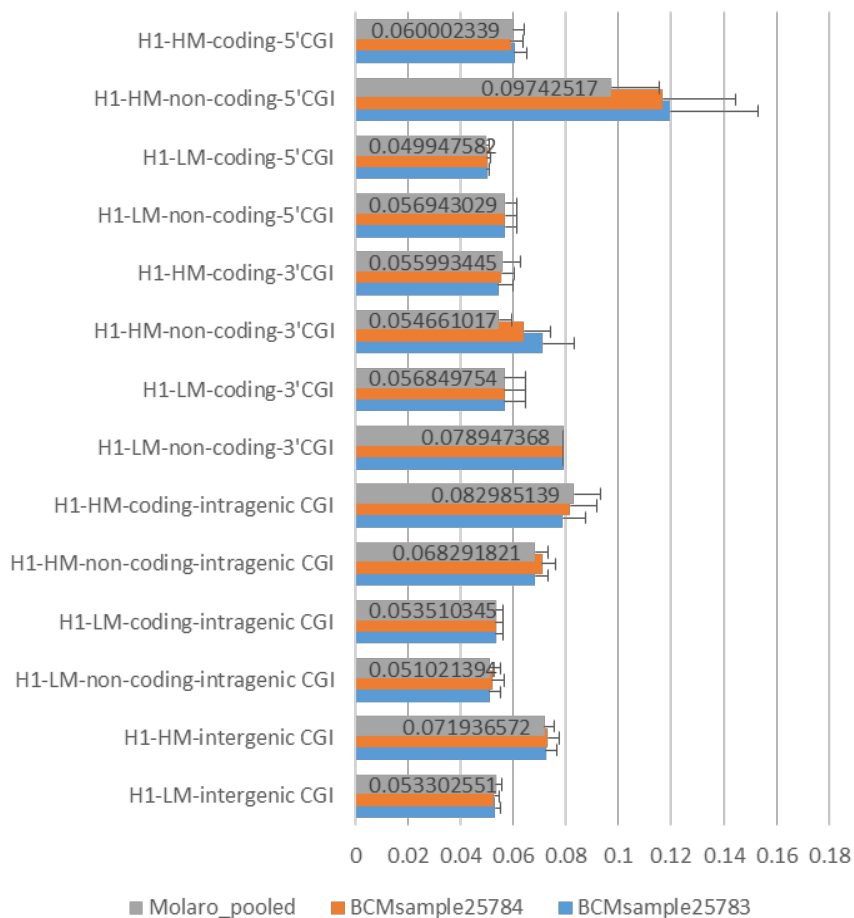
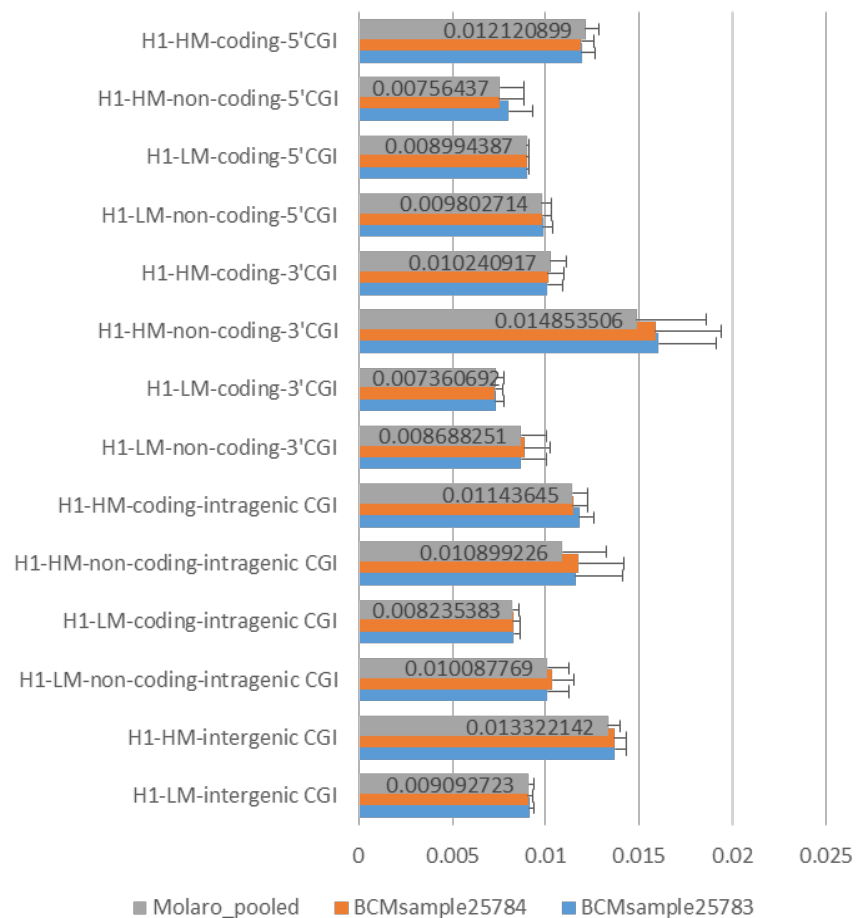


A

average CpG→TpG/CpA substitution rate in
CGIs with CpG→TpG/CpA $\geq$ 0.03984 and
SPM-LM

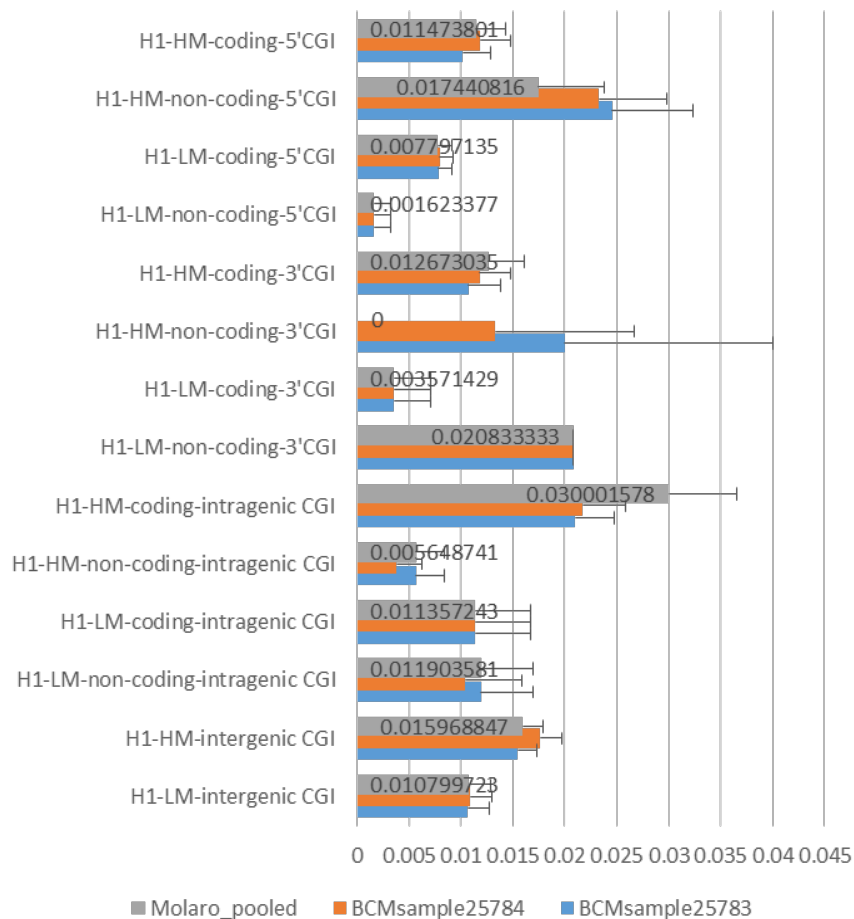


average CpG→TpG/CpA substitution rate in
CGIs with CpG→TpG/CpA<0.03984 and
SPM-LM

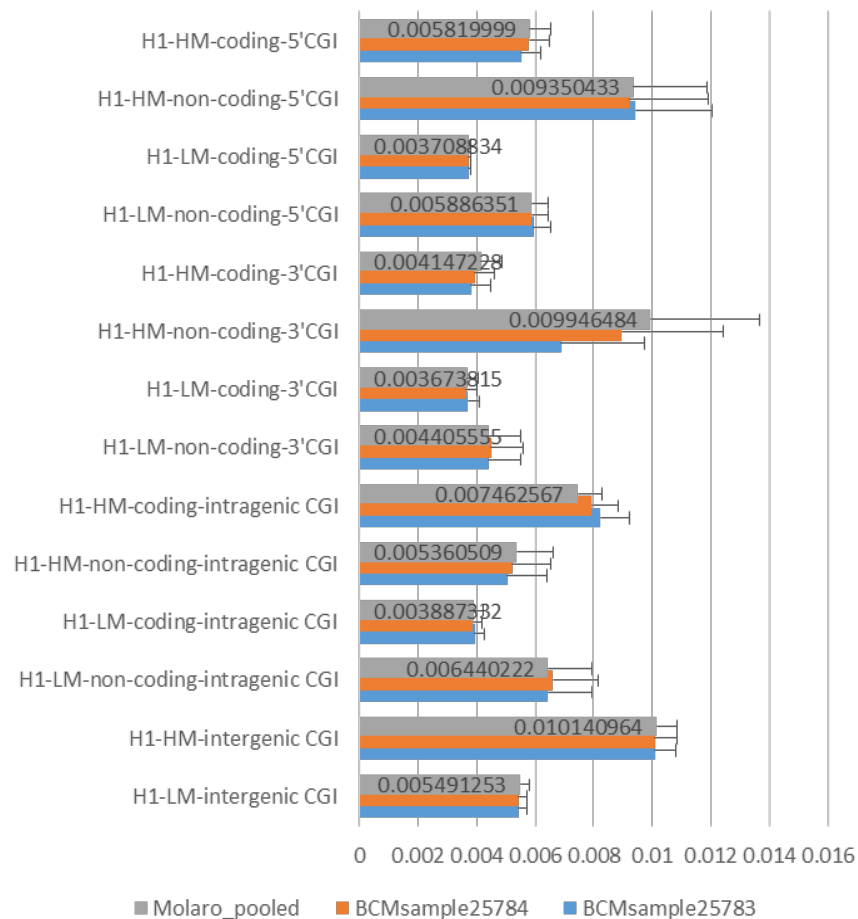


B

average TpG/CpA→CpG substitution rate in
CGIs with CpG→TpG/CpA $\geq$ 0.03984 and
SPM-LM

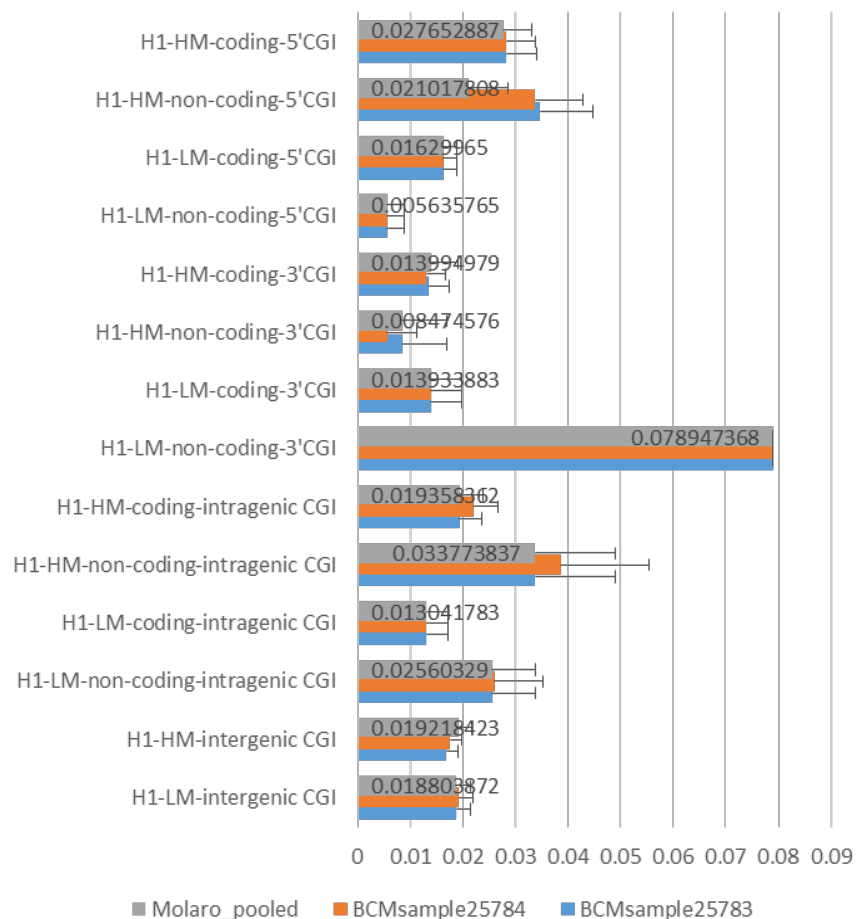


average TpG/CpA→CpG substitution rate in
CGIs with CpG→TpG/CpA<0.03984 and
SPM-LM

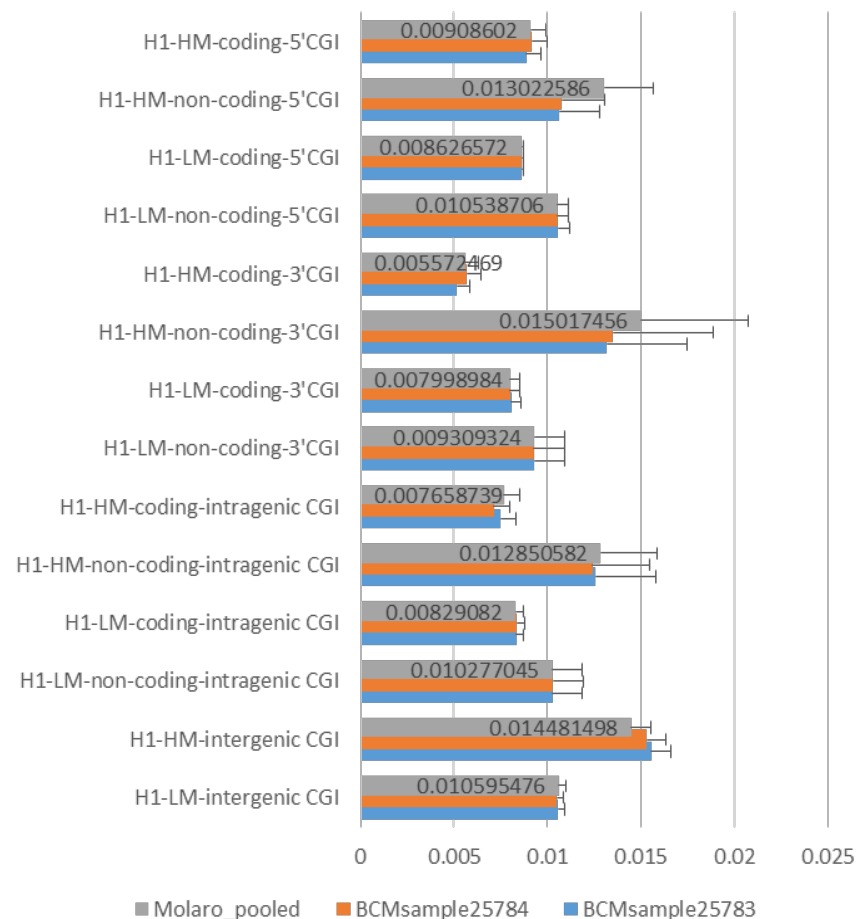


C

average CpG→GpG/ApG/CpC/CpT
substitution rate in CGIs with
CpG→TpG/CpA $\geq$ 0.03984 and SPM-LM

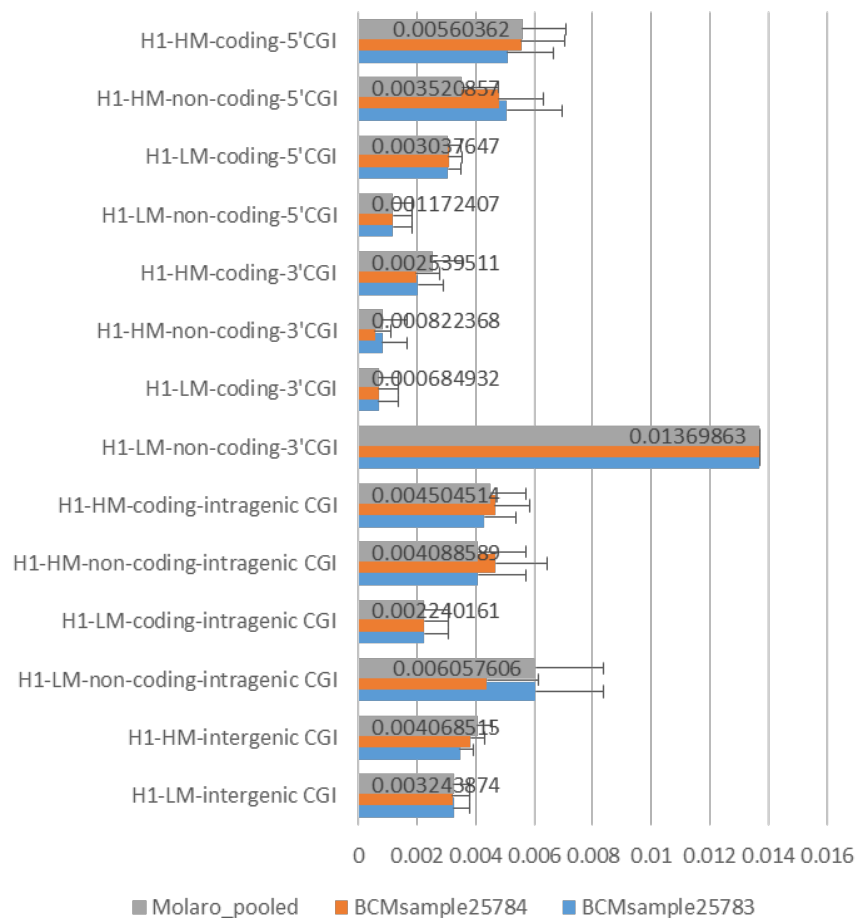


average CpG→GpG/ApG/CpC/CpT
substitution rate in CGIs with
CpG→TpG/CpA<0.03984 and SPM-LM

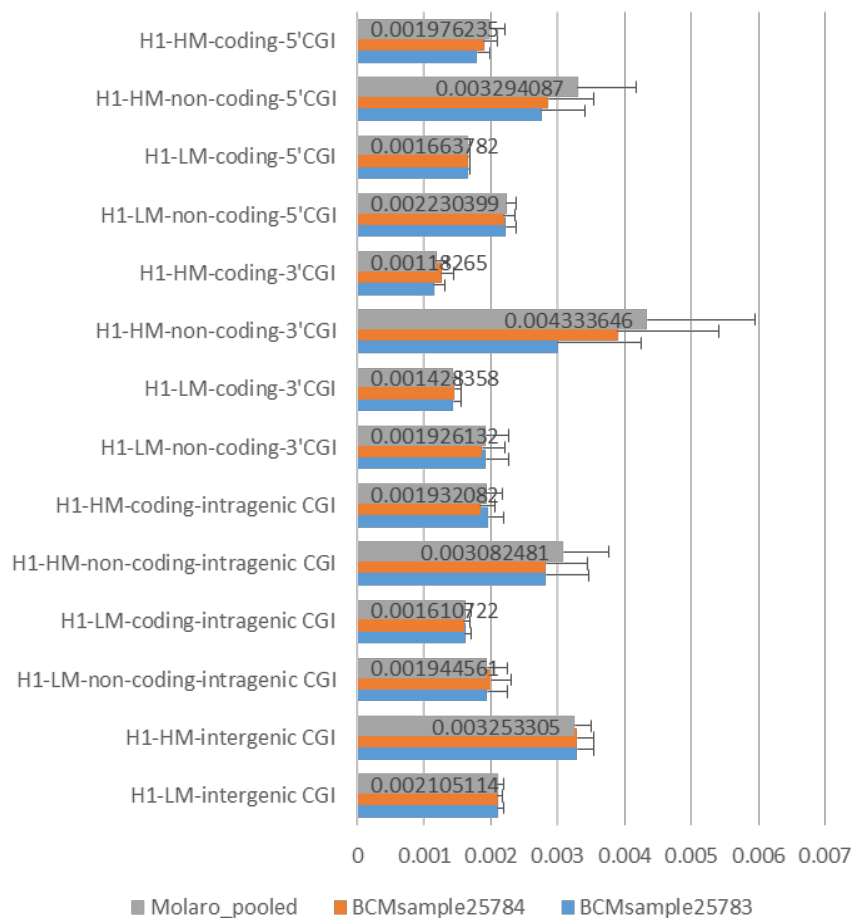


D

average GpG/ApG/CpC/CpT→CpG
substitution rate in CGIs with
CpG→TpG/CpA $\geq$ 0.03984 and SPM-LM

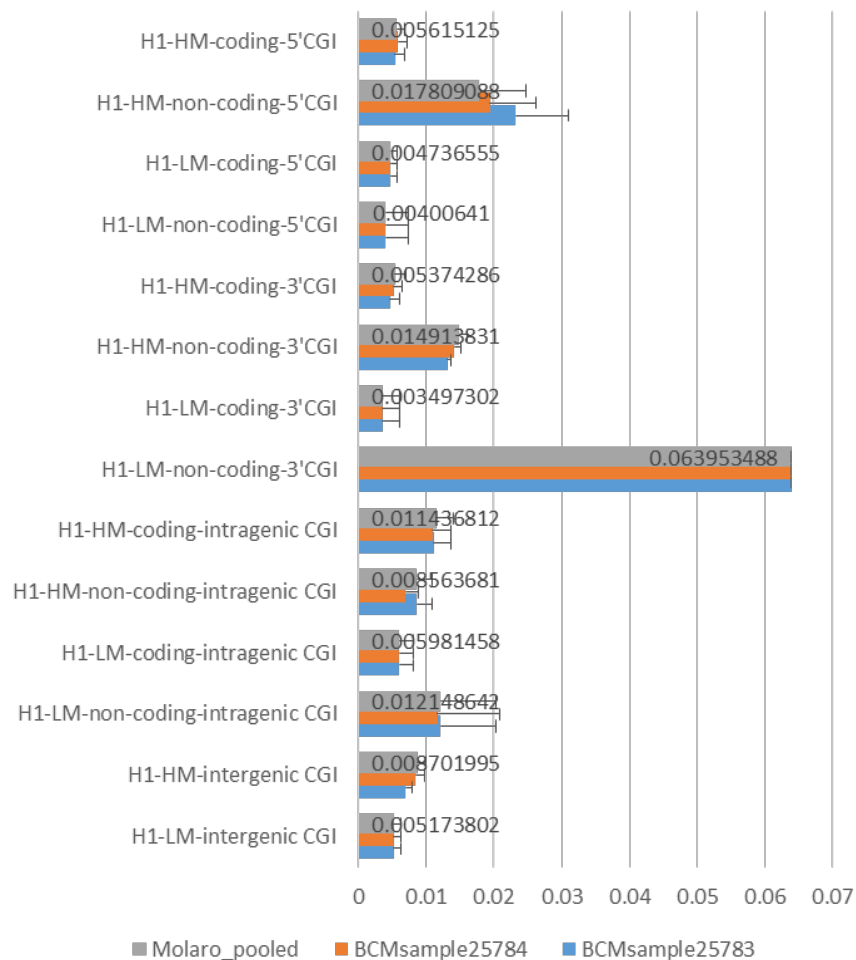


average GpG/ApG/CpC/CpT→CpG
substitution rate in CGIs with
CpG→TpG/CpA<0.03984 and SPM-LM

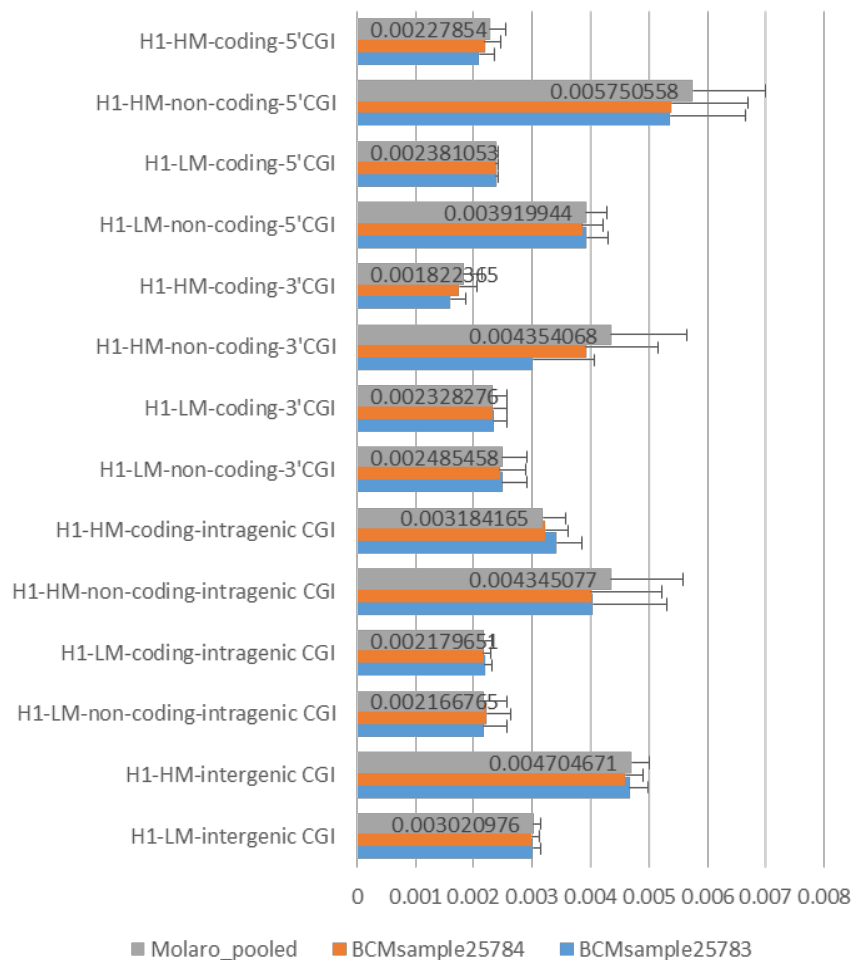


E

average A/T→G/C substitution rate in CGIs
with $\text{CpG} \rightarrow \text{TpG/CpA} \geq 0.03984$ and SPM-LM

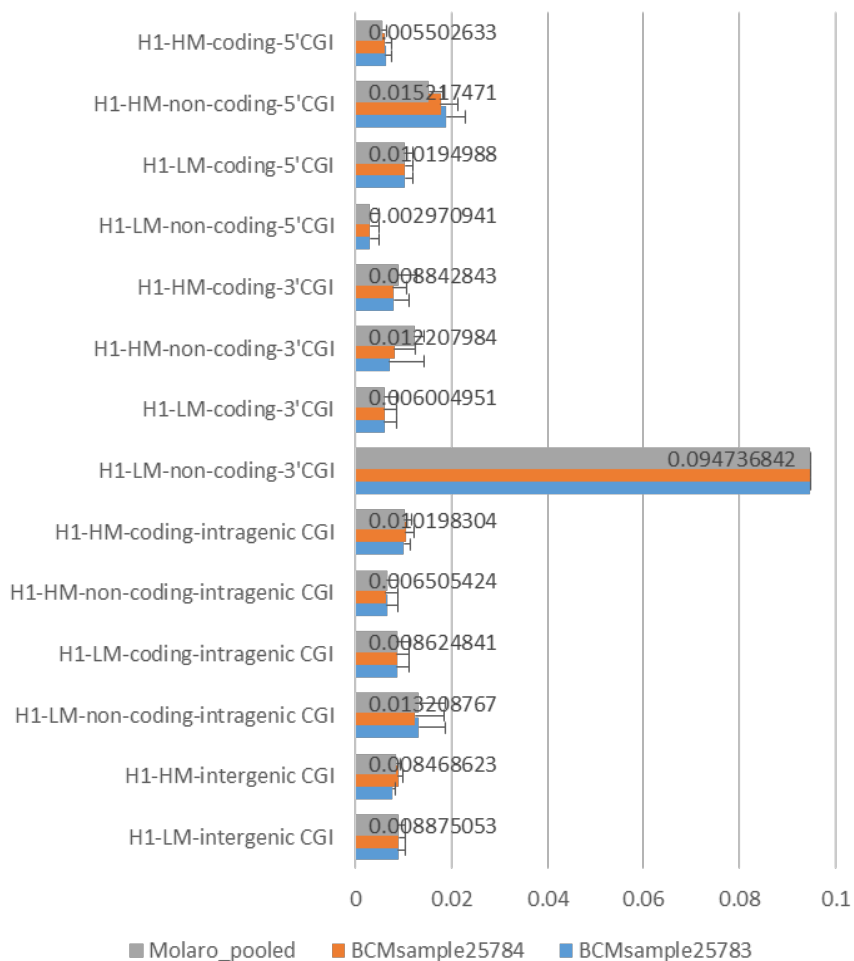


average A/T→G/C substitution rate in CGIs
with $\text{CpG} \rightarrow \text{TpG/CpA} < 0.03984$ and SPM-LM



F

average G/C→A/T substitution rate in CGIs
with CpG→TpG/CpA $\geq$ 0.03984 and SPM-LM



average G/C→A/T substitution rate in CGIs
with CpG→TpG/CpA<0.03984 and SPM-LM

