

Supplementary Figure 1. mCH is enriched at defined CAC-containing motifs in zebrafish brains. A) Top two motifs called from 10,000 most highly methylated CH dinucleotides in zebrafish brain and liver. B) Average non-CG methylation levels (mC/C) at CH, CAC, CAG and CA(A/T) nucleotides in brain, liver and unmethylated lambda spike-in controls (λ). C) Average CAC methylation levels across diverse genomic features in the zebrafish brain. D) Observed-over-expected ratios of all methylated CAC sites and the 10,000 most highly methylated CAC sites (χ^2 test *** P < 0.001). E) Observed-over-expected ratios of all methylated CH sites and the 10,000 most highly methylated CH sites (χ^2 test *** P < 0.001). F) H3K27ac enrichment expressed as reads per kilobase per million (RPKM), mCH/CH and mCAC/CAC in H3K27ac peaks in adult zebrafish brains. G) Average mCAC/CAC methylation levels of the top three mCAC motifs in the bulk genome and repetitive elements of zebrafish forebrain and heart. H) Genome-wide correlation between average gene body mCAC/CAC and gene length.