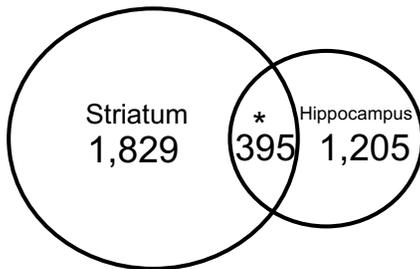
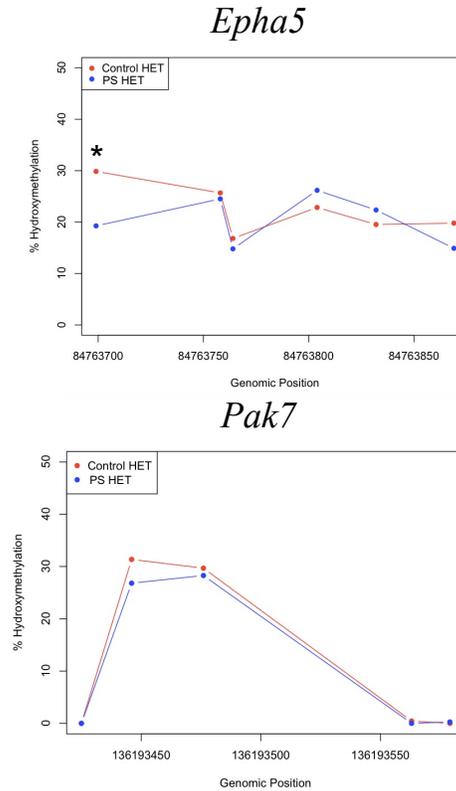
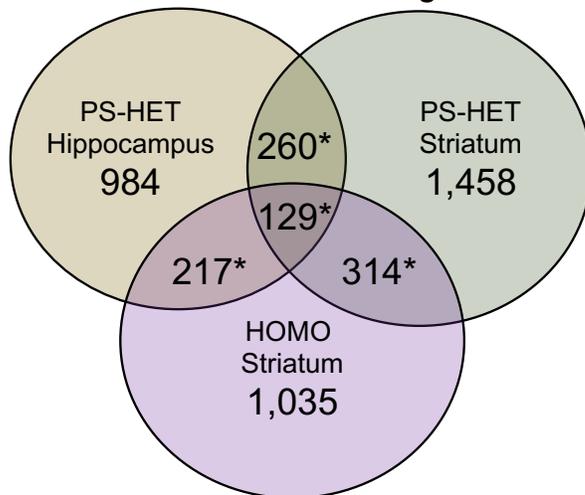


A

*Tissue-specific
DhMR-associated genes*

**B****C**

*Tissue- and genotype-specific
DhMR-associated genes*



Supplemental Figure 7: Molecular validation of hippocampal DhMR data. (A) A Venn diagram displays the overlap of DhMR-associated genes found in hippocampal and striatal tissues. An asterisk (*) represents a significant enrichment of DhMR-associated genes between the two tissues, as determined by a hypergeometric enrichment test (P -value < 0.05). (B) Molecular validation of a DhMR (*Epha5*) and a non-DhMR (*Pak7*). The genomic position (x-axis) and percent hydroxymethylation (y-axis) as determined by simultaneous targeted methylation sequencing of hippocampal tissue from PS-HET (blue) and Control-HET (red) mice. An asterisk (*) represents a significant increase or decrease of 5hmC abundance of PS-HET mice compared to Control-HET mice, as determined by Fisher's exact testing (P -value < 0.05). (C) A Venn diagram shows the overlap of DhMR-associated genes found in hippocampal and striatal tissues from PS *Cntnap2*^{+/-} (PS-HET) and *Cntnap2*^{-/-} (HOMO) mice. An asterisk (*) represents a significant enrichment of DhMR-associated genes between the two tissues, as determined by a hypergeometric enrichment test (P -value < 0.05).