

## **Description of Additional Supplementary Files**

**File Name:** Supplementary Data 1

**Description:** Biological prioritization criteria for all 146 genes that are mapped to genome-wide significant loci from all analyses. Biological prioritization criteria satisfied are displayed with filled red boxes. The total score denotes the number of criteria satisfied. TWAS: significant TWAS association (based on data from the CommonMind Consortium); eQTL: significant eQTL within locus (based on data from the ROS/MAP projects); brain expression: the gene is preferentially expressed in the brain; missense in gene: epilepsy GWAS missense variant in locus; PPI: gene prioritized by protein-protein interaction; KO mouse: relevant knockout mouse phenotype.

**File Name:** Supplementary Data 2

**Description:** List of drugs (n=166) that target biological prioritized genes from our GWAS. Data was obtained from the Drug-Gene interaction database (<http://dgidb.org>).