

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Brain donor metadata.

File Name: Supplementary Data 2

Description: Sample by sample numbers of reads, genes, and nuclei per cell type.

File Name: Supplementary Data 3

Description: Differentially expressed genes by cell type.

File Name: Supplementary Data 4

Description: Top 100 differentially expressed genes in subclusters of microglia and oligodendrocytes.

File Name: Supplementary Data 5

Description: Gene Ontologies (Biological Process) of Differentially Expressed Genes by Cell Type.

File Name: Supplementary Data 6

Description: Substance Use Traits in PhenomeXcan.

File Name: Supplementary Data 7

Description: Differentially expressed genes that match to Substance Use Associated Variants in PhenomeXcan.

File Name: Supplementary Data 8

Description: Differential expression and substance use traits (TWAS), PhenomeXScan and Hatoum et al. (GTEx, Psychencode) 2023.

File Name: Supplementary Data 9

Description: Differentially expressed genes in present study matching to differentially expressed genes reported in mouse model for opiate exposure.

File Name: Supplementary Data 10

Description: Differentially expressed neuronal gene in present study matching to locus with altered histone acetylation in prefrontal cortex of individuals who died by opioid overdose.