

Supplementary Tables 1-10

Supplementary Table 1. Sample metadata

Supplementary Table 2. Gene expression marker lists. Marker genes were determined using Seurat's FindMarkers function, applying the Wilcoxon rank-sum test, with adjustment for multiple comparisons via the Bonferroni method.

Supplementary Table 3. Gene expression programs from cNMF

Supplementary Table 4. Transcriptional regulons from SCENIC

Supplementary Table 5. Modules and module scores for GABAergic, glutamatergic, and projecting neurons

Supplementary Table 6. Gene expression modules

Supplementary Table 7. Gene expression module covariate enrichments

Supplementary Table 8. Genes associated with subtype vulnerability. Results for inhibitory neurons were obtained using the dreamletCompareClusters function as implemented in the R package dreamlet.

Supplementary Table 9. Differentially expressed genes for AD pathology and AD diagnosis

Supplementary Table 10. Pathology-biased differentially expressed genes, for neuritic plaque or NFT burden