

Title: Supplementary Data 1.

Description: The DEGs identified by the meta-analysis of the human PD datasets.

Title: Supplementary Data 2.

Description: The DEGs identified by the meta-analysis of the human PD datasets without GSE49036.

Title: Supplementary Data 3.

Description: The genes correlated with Braak stage in the dataset GSE49036.

Title: Supplementary Data 4.

Description: The gene ontology terms enriched in the PD DEGs.

Title: Supplementary Data 5.

Description: Annotation of the MEGENA modules by enriched GO terms.

Title: Supplementary Data 6.

Description: The top 500 marker genes for each of the 6 major brain cell types.

Title: Supplementary Data 7.

Description: Functional annotation of the key regulators of the module M4 by their 2- layer network neighborhoods.

Title: Supplementary Data 8.

Description: Functional annotation of the PD GWAS genes by their 2-layer network neighborhoods.

Title: Supplementary Data 9.

Description: Enrichment of the PD DEGs in the 2-layer network neighborhoods of the PD GWAS genes.

Title: Supplementary Data 10.

Description: The genes in response to Stmn2 knockdown in the mouse SN.

Title: Supplementary Data 11.

Description: The STMN2-correlated genes in the combined dataset of PD patients.

Title: Supplementary Data 12.

Description: Conservation between the MEGENA and WGCNA modules.