

Supplementary Table S2: REVIGO summarized BP GO-terms visualized by bubbles in the REVIGO scatterplot (Fig. 4 in the main text and Supplementary Fig. S1 in Supplementary Material). GO terms are listed grouped in the 7 clusters that were delineated according to term semantical similarity.

GO terms with neurological implications #	Biological Processes GO terms	GO identifier
Metabolism and gene expression		
1	Amyloid precursor protein metabolic process	GO:0042982
	Endothelial cell proliferation	GO:0001935
	ERK1 and ERK2 cascade	GO:0070371
	Gene expression	GO:0010467
	Glucocorticoid metabolic process	GO:0007186
	Hydrogen peroxide catabolic process	GO:0042744
	Immune system process	GO:0002376
	Lipid metabolic process	GO:0006629
	Lipoprotein catabolic process	GO:0042159
	Negative regulation of cellular protein metabolic process	GO:0032269
	Negative regulation of gene expression	GO:0010629
	Negative regulation of hydrolase activity	GO:0051346
	Negative regulation of MAP kinase activity	GO:0043407
	Peptidyl-methionine modification	GO:0018206
2	Phosphatidylcholine metabolic process	GO:0046470
	Phospholipid metabolic process	GO:0006644
	Positive regulation of cell death	GO:0010942
	Positive regulation of cholesterol esterification	GO:0010873
	Positive regulation of ERK1 and ERK2 cascade	GO:0070374
	Positive regulation of lipoprotein lipase activity	GO:0051006
	Positive regulation of low-density lipoprotein particle receptor catabolic process	GO:0032805
	Positive regulation of membrane protein ectodomain proteolysis	GO:0051044
	Positive regulation of nitric oxide biosynthetic process	GO:0045429
	Positive regulation of nitric-oxide synthase activity	GO:0051000
	Positive regulation of transcription, DNA-templated	GO:0045893
	Post-translational protein modification	GO:0043687
	Protein oxidation	GO:0018158
	Purine nucleobase metabolic process	GO:0006144
3	Regulation of amyloid precursor protein catabolic process	GO:1902991
	Regulation of gene expression	GO:0010629
	Regulation of lipid metabolic process	GO:0019216
4	Regulation of neuron death	GO:1901214
	Regulation of plasma lipoprotein particle levels	GO:0097006

	Regulation of proteasomal protein catabolic process	GO:0061136
	Regulation of protein metabolic process	GO:0051246
	Regulation of protein phosphorylation	GO:0001932
5	Regulation of tau-protein kinase activity	GO:1902947
	Regulation of transcription by RNA polymerase II	GO:0006357
	Response to estrogen	GO:0043627
	Retinoid metabolic process	GO:0001523
	Steroid metabolic process	GO:0008202
	Triglyceride metabolic process	GO:0006641
	Zymogen activation	GO:0031638
Macromolecular transport		
	Bicarbonate transport	GO:0015701
	Lipid transport	GO:0006869
	Lipid transport involved in lipid storage	GO:0010877
	Maintenance of location in cell	GO:0051651
	Negative regulation of cholesterol efflux	GO:0090370
	Negative regulation of protein secretion	GO:0050709
	Nitric oxide transport	GO:0030185
6	NMDA glutamate receptor clustering	GO:0097114
	Oxygen transport	GO:0015671
	Platelet degranulation	GO:0002576
	Positive regulation of endocytosis	GO:0045807
7	Positive regulation of lipid transport across blood-brain barrier	GO:1903002
	Positive regulation of phospholipid efflux	GO:1902995
	Protein import	GO:0017038
	Receptor-mediated endocytosis	GO:0006898
	Thyroid hormone transport	GO:0070327
	Transmembrane transport	GO:0055085
	Vitamin transport	GO:0051180
Development and detoxification		
	Adrenal gland development	GO:0030325
	Animal organ regeneration	GO:0031100
	Artery morphogenesis	GO:0048844
	Blood coagulation	GO:0030195
	Cellular oxidant detoxification	GO:0098869
	Circulatory system development	GO:0072359
	Locomotory exploration behavior	GO:0035641
8	Long-term memory	GO:0007616
	Negative regulation of heterotypic cell-cell adhesion	GO:0034115

9	Neuron projection development	GO:0010977
10	Positive regulation of dendritic spine development	GO:0060999
	Positive regulation of substrate adhesion-dependent cell spreading	GO:1900026
11	Regulation of beta-amyloid clearance	GO:1900221
	Response to drug	GO:0042493
	Response to nutrient	GO:0007584
Signal transduction		
	cGMP-mediated signaling	GO:0019934
	G protein-coupled receptor signaling pathway	GO:0007186
	Integrin-mediated signaling pathway	GO:0007229
	Negative regulation of canonical Wnt signaling pathway	GO:0090090
	Negative regulation of cytokine production involved in immune response	GO:0002719
	Negative regulation of endothelial cell proliferation	GO:0001937
	Negative regulation of interleukin-1 beta production	GO:0032691
	Negative regulation of response to cytokine stimulus	GO:0060761
	Nitric oxide mediated signal transduction	GO:0007263
	Positive regulation of Rho protein signal transduction	GO:0035025
	Regulation of Cdc42 protein signal transduction	GO:0032489
	Signal transduction	GO:0007165
12	Synaptic transmission, cholinergic	GO:0007271
	Transforming growth factor beta receptor signaling pathway	GO:0007179
Biomolecular responses and related processes		
	Acute inflammatory response	GO:0002526
	Acute-phase response	GO:0006953
	Defense response	GO:0006952
	Defense response to bacterium	GO:0042742
	Negative chemotaxis	GO:0050919
	Negative regulation of inflammatory response	GO:0050728
13	Peripheral nervous system axon regeneration	GO:0014012
14	Regulation of behavioral fear response	GO:2000822
	Regulation of innate immune response	GO:0045088
	Response to caloric restriction	GO:0061771
	Response to excess	GO:0002021
	Response to reactive oxygen species	GO:0000302
	Response to oxidative stress	GO:0006979
Macromolecular assembly and organization		
	Chylomicron assembly	GO:0034378

	Chylomicron remodeling	GO:0034371
	Cytoskeleton organization	GO:0007010
	Extracellular matrix organization	GO:0030198
15	Negative regulation of long-term synaptic potentiation	GO:1900272
16	Positive regulation of dendritic spine maintenance	GO:1902952
17	Positive regulation of neurofibrillary tangle assembly	GO:1902998
	Positive regulation of stress fiber assembly	GO:0051496
18	Regulation of neuronal synaptic plasticity	GO:0048168
	Regulation of protein-containing complex assembly	GO:0043254
	Renal absorption	GO:0070293
	Very-low-density lipoprotein particle clearance	GO:0034447
	Virion assembly	GO:0019068
Homeostasis		
	Cellular calcium ion homeostasis	GO:0006874
	Lipid homeostasis	GO:0055088
	Phospholipid homeostasis	GO:0055091
	Protein stabilization	GO:0050821
	Regulation of blood pressure	GO:0008217
19	Regulation of synapse organization	GO:0050807
	Vasodilation	GO:0042311

Numbers of GO terms with neurological implications match those reported in Supplementary Fig. S1.