

Reducing hippocampal extracellular matrix reverses early memory deficits in a mouse model of Alzheimer's disease

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Supplementary Table 2

Suppl. Table 2 Functional enrichment of differentially expressed proteins at 3 months of age. Significantly enriched (Fisher's exact p -value <0.05) GO terms are listed. Enriched GO terms were assigned to two functional groups: extracellular matrix and presynaptic neurotransmitter release

GO term	Proteins	Fold enrichment	Fisher's exact p -value
Extracellular matrix (DAVID enrichment score: 1.30)			
GO:0031012~extracellular matrix	HAPLN1, SLC1A3, TNR, BCAN, NCAN	4.4	0.0098
GO:0005578~proteinaceous extracellular matrix	HAPLN1, SLC1A3, TNR, BCAN, NCAN	4.4	0.0098
GO:0001871~pattern binding	NCAM1, HAPLN1, APP, BCAN, NCAN	3.7	0.0233
GO:0030247~polysaccharide binding	NCAM1, HAPLN1, APP, BCAN, NCAN	3.7	0.0233
GO:0005539~glycosaminoglycan binding	NCAM1, HAPLN1, APP, BCAN, NCAN	3.7	0.0233
GO:0005576~extracellular region	HAPLN1, SLC1A3, PPIA, ADAM23, TNR, CFL1, BCAN, NCAN	2.2	0.0434
Presynaptic neurotransmitter release (DAVID enrichment score: 0.91)			
GO:0003001~generation of a signal involved in cell-cell signaling	RAB3A, STX1A, SYN1, SYNJ1, SYN2, CACNB4, RPH3A, SNAP25	2.7	0.0120
GO:0007269~neurotransmitter secretion	RAB3A, STX1A, SYN1, SYNJ1, SYN2, RPH3A, SNAP25	2.8	0.0190
GO:0016192~vesicle-mediated transport	RAB3A, STX1A, CLTB, NAPG, ICAM5, SYNJ1, NAPB, RPH3A, CLTC, STX1B, AMPH, SYP, PACSIN1, APP, ARF3, RAC1	1.7	0.0210