

GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test ($P(X \geq k)$), Benjamini-Hochberg FDR-corrected across all tested pairs. Corroborated Shared Genes: count of shared genes backed by ≥ 2 distinct disease_gdp.main_source values combined across both diseases (e.g. GWAS-backed for one, ClinVar-backed for the other still counts); Shared Gene Names lists each gene's own source count in parentheses. Overlap Coefficient: shared genes / MIN(each disease's own total gene count) -- complements the Jaccard-based Similarity Score by showing how much of the SMALLER disease's entire known gene-set is covered by this pair, which Jaccard (dividing by the union) can understate. Shared Cluster: cluster id if both diseases fall in the same label-propagation cluster (scripts/build_disease_clusters.php), blank otherwise. See scripts/build_related.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-10 03:00:13. Filters applied: disease name contains "Memory disorders" (11 matching pairs). · Rows: 11 · Generated: 2026-10-10 20:07:11

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Learning disorders	Memory disorders	17	16	APP (2), PSEN1 (2), HTR1A (2), HTR7 (2), MAPT (2), PRKN (2), VEGFA (2), ACHE (2), BCL2 (2), IGF1 (2), IL1B (2), SIGMAR1 (1)	0.23944	0.47222	2.848e-34	1.003e-32	
Delirium, dementia, and cognitive disorders	Memory disorders	10	10	COMT (2), INS (2), APP (2), PSEN1 (2), IGF2 (2), MAPT (2), DRD2 (2), SLC6A4 (2), CNR1 (2), HTR2A (2)	0.10204	0.19608	1.976e-15	2.909e-14	
Memory disorders	Seizures	12	11	CHRNA7 (2), INS (2), HTR1A (2), ACHE (2), IL1B (2), NPY (2), SIGMAR1 (1), DRD2 (2), SLC17A7 (2), CNR1 (2), CHRM1 (2), GABRA5 (2)	0.06630	0.23529	2.529e-14	3.436e-13	
Anxiety disorder	Memory disorders	12	12	APP (2), HTR1A (2), HTR7 (2), MAPT (2), NPY (2), DRD2 (3), SLC6A3 (2), SLC6A4 (3), CNR1 (2), MAGI2 (2), MDK (2), MIF (2)	0.06452	0.23529	3.862e-14	5.156e-13	
Cognition disorder	Memory disorders	9	9	COMT (2), APP (2), PSEN1 (2), IGF2 (2), MAPT (2), DRD2 (2), SLC6A4 (2), CNR1 (2), HTR2A (2)	0.09278	0.17647	1.083e-13	1.394e-12	
Anhedonia	Memory disorders	6	6	COMT (2), HTR1A (2), DRD2 (2), SLC6A3 (2), SLC6A4 (2), SLC17A7 (2)	0.08333	0.23077	2.132e-10	2.065e-9	
Caudate atrophy	Memory disorders	1	0	TYROBP (1)	0.01923	1.00000	3.312e-3	4.310e-3	
immunodeficiency 92	Memory disorders	1	1	REL (3)	0.01923	1.00000	3.312e-3	4.310e-3	
Intellectual developmental disorder autism speech dysmorphic	Memory disorders	1	1	CHD1 (3)	0.01923	1.00000	3.312e-3	4.310e-3	
Memory disorders	Nasu-hakola disease	1	1	TYROBP (2)	0.01923	1.00000	3.312e-3	4.310e-3	
15q13.3 microdeletion syndrome	Memory disorders	1	1	CHRNA7 (5)	0.01887	0.50000	6.613e-3	7.879e-3	