

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: 2026-10-11 03:00:14. Filters applied: disease name contains "neurodegenerative disease" (10 matching pairs). · Rows: 10 · Generated: 2026-10-11 09:13:03

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Atrial fibrillation	neurodegenerative disease	1	1	IRF2BPL (3)	0.00116	1.00000	5.605e-2	5.765e-2	
Global developmental delay	neurodegenerative disease	1	1	IRF2BPL (2)	0.00270	1.00000	2.403e-2	2.575e-2	
neurodegenerative disease	Spastic paraplegia	1	1	IRF2BPL (2)	0.00826	1.00000	7.793e-3	9.066e-3	
Auditory neuropathy	Genetic neurodegenerative disease	1	0	KIF5A (1)	0.02941	0.33333	6.028e-3	7.260e-3	
Dyskinesia	Genetic neurodegenerative disease	1	0	KIF5A (1)	0.03448	0.33333	5.057e-3	6.197e-3	
neurodegenerative disease	Neurodegenerative disorder	1	1	IRF2BPL (2)	0.02381	1.00000	2.663e-3	3.596e-3	
Frontotemporal dementia with or without amyotrophic lateral sclerosis	Genetic neurodegenerative disease	1	0	KIF5A (1)	0.06667	0.33333	2.336e-3	3.243e-3	
amyotrophic lateral sclerosis, susceptibility to, 25	Genetic neurodegenerative disease	1	1	KIF5A (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Genetic neurodegenerative disease	inherited neurodegenerative disorder	1	1	KIF5A (2)	0.25000	1.00000	1.948e-4	5.354e-4	
neurodegenerative disease	Regressive neurodevelopmental disorder dystonia seizures	1	1	IRF2BPL (2)	0.50000	1.00000	6.494e-5	2.331e-4	