

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 "spastic tetraplegia-thin corpus callosum-progressive postnatal microcephaly syndrome" (4 matching pairs). · Rows: 4 · Generated: 2026-10-10 12:56:25

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Autism	spastic tetraplegia-thin corpus callosum-progressive postnatal microcephaly syndrome	1	1	SLC1A4 (3)	0.00068	1.00000	9.501e-2	9.603e-2	
Neurodevelopmental disorder	spastic tetraplegia-thin corpus callosum-progressive postnatal microcephaly syndrome	1	1	SLC1A4 (2)	0.00106	1.00000	6.092e-2	6.246e-2	
Non-specific syndromic intellectual disability	spastic tetraplegia-thin corpus callosum-progressive postnatal microcephaly syndrome	1	1	SLC1A4 (2)	0.00271	1.00000	2.390e-2	2.570e-2	
Macular telangiectasia	spastic tetraplegia-thin corpus callosum-progressive postnatal microcephaly syndrome	1	1	SLC1A4 (2)	0.06250	1.00000	9.742e-4	1.665e-3	