

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 "hypomyelinating leukodystrophy 2" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 07:32:03

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
hypomyelinating leukodystrophy 2	Spastic ataxia	1	1	GJC2 (2)	0.01408	1.00000	4.546e-3	5.668e-3	
Hypomyelinating leukodystrophy	hypomyelinating leukodystrophy 2	1	1	GJC2 (5)	0.03226	1.00000	1.948e-3	2.828e-3	
hypomyelinating leukodystrophy 2	Lymphedema	1	1	GJC2 (3)	0.05882	1.00000	1.039e-3	1.739e-3	
hypomyelinating leukodystrophy 2	Lymphatic malformation	1	1	GJC2 (6)	0.07143	1.00000	8.443e-4	1.499e-3	
hypomyelinating leukodystrophy 2	Pelizaeus-merzbacher disease	1	1	GJC2 (3)	0.14286	1.00000	3.897e-4	8.665e-4	