

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 "leukodystrophy, hypomyelinating, 25" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 06:17:58

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Endocrine neoplasms	leukodystrophy, hypomyelinating, 25	1	1	TMEM163 (2)	0.20000	1.00000	2.598e-4	6.509e-4	
Leukodystrophy	leukodystrophy, hypomyelinating, 25	1	1	TMEM163 (2)	0.03704	1.00000	1.689e-3	2.531e-3	
Hypomyelinating leukodystrophy	leukodystrophy, hypomyelinating, 25	1	1	TMEM163 (5)	0.03226	1.00000	1.948e-3	2.828e-3	
Large artery stroke	leukodystrophy, hypomyelinating, 25	1	1	TMEM163 (2)	0.01266	1.00000	5.066e-3	6.202e-3	
Kidney cancer	leukodystrophy, hypomyelinating, 25	1	1	TMEM163 (2)	0.01220	1.00000	5.260e-3	6.419e-3	