GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-20 03:00:20. Filters applied: disease name contains "Abnormal corpus callosum morphology" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 04:12:31

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Abnormal corpus callosum morphology	Leukodystrophy, hypomyelinating, 23, with ataxia, deafness, liver dysfunction, and dilated cardiomyopathy	1	0	RNF220 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Abnormal corpus callosum morphology	Sensorineural hearing impairment	1	0	RNF220 (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Abnormal corpus callosum morphology	Hypomyelinating leukodystrophy	1	1	RNF220 (5)	0.03125	1.00000	2.002e-3	2.719e-3	
Abnormal corpus callosum morphology	Leukodystrophy	1	0	RNF220 (1)	0.02941	1.00000	2.131e-3	2.847e-3	
Abnormal corpus callosum morphology	Ataxia	1	0	RNF220 (1)	0.02632	1.00000	2.389e-3	3.123e-3	