

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: 2026-10-21 12:58:11. Filters applied: disease name contains "Microcephaly 26, primary, autosomal dominant" (5 matching pairs). · Rows: 5 · Generated: 2026-10-21 15:00:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Demyelinating leukodystrophy	Microcephaly 26, primary, autosomal dominant	1	1	LMNB1 (3)	0.50000	1.00000	6.457e-5	1.985e-4	
Leukodystrophy, adult-onset, autosomal dominant, without amyloid angiopathy	Microcephaly 26, primary, autosomal dominant	1	1	LMNB1 (2)	0.33333	1.00000	1.291e-4	3.269e-4	
Microcephaly 26, primary, autosomal dominant	Primary microcephaly	1	1	LMNB1 (5)	0.02703	1.00000	2.324e-3	3.054e-3	
Developmental disorder	Microcephaly 26, primary, autosomal dominant	1	1	LMNB1 (2)	0.01111	1.00000	5.746e-3	6.781e-3	
Dyslexia	Microcephaly 26, primary, autosomal dominant	1	1	LMNB1 (3)	0.00885	1.00000	7.231e-3	8.372e-3	