

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 "Combined d-2- and l-2-hydroxyglutaric aciduria" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 20:46:41

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Combined d-2- and l-2-hydroxyglutaric aciduria	D-2-hydroxyglutaric aciduria	4	3	D2HGDH (5), IDH2 (5), L2HGDH (1), SLC25A1 (5)	0.80000	1.00000	4.271e-16	6.517e-15	
Anaplastic oligoastrocytoma	Combined d-2- and l-2-hydroxyglutaric aciduria	1	1	IDH2 (2)	0.20000	1.00000	2.598e-4	6.509e-4	
Combined d-2- and l-2-hydroxyglutaric aciduria	Gemistocytic astrocytoma	1	1	IDH2 (2)	0.20000	1.00000	2.598e-4	6.509e-4	
Anaplastic astrocytoma	Combined d-2- and l-2-hydroxyglutaric aciduria	1	1	IDH2 (2)	0.16667	0.50000	5.195e-4	1.061e-3	
Anaplastic oligodendroglioma	Combined d-2- and l-2-hydroxyglutaric aciduria	1	1	IDH2 (2)	0.16667	0.50000	5.195e-4	1.061e-3	