

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Glycine encephalopathy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-12 05:04:25

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Glycine encephalopathy	Hyperglycemia	2	2	GLDC (7), AMT (8)	0.03571	0.40000	1.111e-4	3.931e-4	
Glycine encephalopathy	multiple mitochondrial dysfunctions syndrome 7	1	1	GCSH (5)	0.16667	1.00000	3.247e-4	7.709e-4	
Glycine encephalopathy	Osteosarcoma	1	1	GLDC (8)	0.01613	0.20000	1.837e-2	2.007e-2	
Generalized epilepsy	Glycine encephalopathy	1	1	GLDC (7)	0.01429	0.20000	2.093e-2	2.274e-2	
Glycine encephalopathy	Non-organic psychosis	1	1	SLC6A9 (7)	0.01351	0.20000	2.221e-2	2.404e-2	