

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Neurodevelopmental disorder with hypotonia and epilepsy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:11:46

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Neurodevelopmental disorder with hypotonia and epilepsy	Neurodevelopmental disorder with hypotonia and speech delay, with or without seizures	1	0	EIF4A2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Invasive breast carcinoma	Neurodevelopmental disorder with hypotonia and epilepsy	1	0	EIF4A2 (1)	0.01538	1.00000	4.132e-3	5.056e-3	
Neurodevelopmental disorder with hypotonia and epilepsy	Soft tissue sarcoma	1	0	EIF4A2 (1)	0.01493	1.00000	4.261e-3	5.204e-3	
Neurodevelopmental disorder with hypotonia and epilepsy	Ovarian mucinous adenocarcinoma	1	0	EIF4A2 (1)	0.00730	1.00000	8.781e-3	9.928e-3	
Adenosquamous lung carcinoma	Neurodevelopmental disorder with hypotonia and epilepsy	1	0	EIF4A2 (1)	0.00667	1.00000	9.620e-3	1.078e-2	