

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 "neurodevelopmental disorder with hypotonia, epilepsy, and absent speech" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 15:24:40

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, epilepsy, and absent speech	neurodevelopmental disorder with speech delay, movement abnormalities, and seizures	1	0	UNC13A (1)	0.50000	1.00000	6.494e-5	2.331e-4	
Congenital nervous system disorder	neurodevelopmental disorder with hypotonia, epilepsy, and absent speech	1	1	UNC13A (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Developmental regression	neurodevelopmental disorder with hypotonia, epilepsy, and absent speech	1	1	UNC13A (2)	0.05263	1.00000	1.169e-3	1.895e-3	
Febrile convulsion	neurodevelopmental disorder with hypotonia, epilepsy, and absent speech	1	1	UNC13A (2)	0.04348	1.00000	1.429e-3	2.226e-3	
Benign prostatic hyperplasia	neurodevelopmental disorder with hypotonia, epilepsy, and absent speech	1	1	UNC13A (2)	0.02778	1.00000	2.273e-3	3.191e-3	