

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: 2026-10-11 03:00:14. Filters applied: disease name contains "X-linked epilepsy with learning disability and behavior disorder syndrome" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 02:17:39

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Epilepsy	X-linked epilepsy with learning disability and behavior disorder syndrome	1	0	SYN1 (1)	0.00427	1.00000	1.513e-2	1.674e-2	
Intellectual developmental disorder, x-linked	X-linked epilepsy with learning disability and behavior disorder syndrome	1	1	SYN1 (4)	0.01111	1.00000	5.780e-3	6.997e-3	
X-linked complex neurodevelopmental disorder	X-linked epilepsy with learning disability and behavior disorder syndrome	1	1	SYN1 (2)	0.02778	1.00000	2.273e-3	3.191e-3	
X-linked epilepsy with learning disability and behavior disorder syndrome	X-linked epilepsy with variable learning disabilities and behavior disorders	1	1	SYN1 (4)	0.50000	1.00000	6.494e-5	2.331e-4	
X-linked epilepsy with learning disability and behavior disorder syndrome	X-linked epilepsy-learning disabilities-behavior disorders syndrome	1	1	SYN1 (2)	0.50000	1.00000	6.494e-5	2.331e-4	