

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 "Epileptic encephalopathy, early infantile, 45" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:58:19

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cannabis abuse	Epileptic encephalopathy, early infantile, 45	1	1	GABRB1 (2)	0.00855	1.00000	7.490e-3	8.645e-3	
Epileptic encephalopathy, early infantile, 45	Genetic developmental and epileptic encephalopathy	1	1	GABRB1 (2)	0.02703	1.00000	2.324e-3	3.054e-3	
Epileptic encephalopathy, early infantile, 45	Schizoaffective disorder	1	1	GABRB1 (2)	0.02857	1.00000	2.195e-3	2.917e-3	
Epileptic encephalopathy, early infantile, 45	Hepatic encephalopathy	1	1	GABRB1 (3)	0.06667	1.00000	9.039e-4	1.411e-3	
Epileptic encephalopathy, early infantile, 45	Sensory peripheral neuropathy	1	1	GABRB1 (2)	0.12500	1.00000	4.520e-4	8.260e-4	