

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: 2026-10-21 10:41:41. Filters applied: disease name contains "Epileptic encephalopathy, early infantile, 25" (5 matching pairs). · Rows: 5 · Generated: 2026-10-21 05:20:38

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Epileptic encephalopathy, early infantile, 25	Fatty liver	1	1	SLC13A5 (3)	0.01064	1.00000	6.005e-3	7.064e-3	
Epileptic encephalopathy, early infantile, 25	Fatty liver, alcoholic	1	1	SLC13A5 (2)	0.01149	1.00000	5.553e-3	6.589e-3	
Amelogenesis imperfecta	Epileptic encephalopathy, early infantile, 25	1	0	SLC13A5 (1)	0.03030	1.00000	2.066e-3	2.785e-3	
Epileptic encephalopathy, early infantile, 25	Pyridoxine dependent epilepsy	1	1	SLC13A5 (2)	0.11111	1.00000	5.165e-4	9.125e-4	
Amelocerebrohypohidrotic syndrome	Epileptic encephalopathy, early infantile, 25	1	1	SLC13A5 (3)	0.33333	1.00000	1.291e-4	3.269e-4	