

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, 79" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:12:21

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, 79	Synovial disorder	1	1	GABRA5 (2)	0.14286	1.00000	3.874e-4	7.329e-4	
Epileptic encephalopathy, early infantile, 79	Memory disorders	1	1	GABRA5 (3)	0.01923	1.00000	3.293e-3	4.150e-3	
Developmental delay	Epileptic encephalopathy, early infantile, 79	1	0	GABRA5 (1)	0.01266	1.00000	5.036e-3	6.027e-3	
Bipolar depression	Epileptic encephalopathy, early infantile, 79	1	1	GABRA5 (2)	0.00943	1.00000	6.779e-3	7.882e-3	
Epileptic encephalopathy, early infantile, 79	Seizures	1	1	GABRA5 (2)	0.00433	1.00000	1.485e-2	1.628e-2	