

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, 8" (22 matching pairs). · Rows: 22 · Generated: 2026-10-20 03:55:09

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, 87	Major depressive disorder	1	1	CDK19 (2)	0.00051	1.00000	1.265e-1	1.273e-1	
Epileptic encephalopathy, early infantile, 87	Neurodevelopmental disorder	1	1	CDK19 (2)	0.00099	1.00000	6.495e-2	6.624e-2	
Epileptic encephalopathy, early infantile, 82	Mitochondrial disease	1	1	GOT2 (2)	0.00402	1.00000	1.601e-2	1.741e-2	
Developmental and epileptic encephalopathy	Epileptic encephalopathy, early infantile, 82	1	1	GOT2 (5)	0.00431	1.00000	1.491e-2	1.630e-2	
Developmental and epileptic encephalopathy	Epileptic encephalopathy, early infantile, 87	1	1	CDK19 (6)	0.00431	1.00000	1.491e-2	1.630e-2	
Epileptic encephalopathy, early infantile, 84	Liver neoplasms	1	1	UGDH (2)	0.00667	1.00000	9.620e-3	1.078e-2	
Cholecystolithiasis	Epileptic encephalopathy, early infantile, 84	1	1	UGDH (2)	0.00699	1.00000	9.168e-3	1.032e-2	
Epileptic encephalopathy, early infantile, 84	Gallstones	1	1	UGDH (2)	0.00800	1.00000	8.006e-3	9.125e-3	
Developmental disorder	Epileptic encephalopathy, early infantile, 8	1	0	ARHGEF9 (1)	0.01111	1.00000	5.746e-3	6.781e-3	
Epileptic encephalopathy, early infantile, 84	Hemorrhoid	1	1	UGDH (2)	0.01124	1.00000	5.682e-3	6.721e-3	
Epileptic encephalopathy, early infantile, 8	Hypogonadism	1	1	ARHGEF9 (2)	0.01299	1.00000	4.907e-3	5.888e-3	
Epileptic encephalopathy, early infantile, 8	X-linked intellectual disability	1	1	ARHGEF9 (2)	0.01333	1.00000	4.778e-3	5.751e-3	
Epileptic encephalopathy, early infantile, 8	X-linked complex neurodevelopmental disorder	1	1	ARHGEF9 (3)	0.02778	1.00000	2.260e-3	2.989e-3	
Epileptic encephalopathy, early infantile, 81	Pituitary stalk interruption syndrome	1	1	DMXL2 (2)	0.03030	1.00000	2.066e-3	2.785e-3	
Epileptic encephalopathy, early infantile, 84	West syndrome	1	1	UGDH (2)	0.03125	1.00000	2.002e-3	2.719e-3	360
Epileptic encephalopathy, early infantile, 81	Primary aldosteronism	1	1	DMXL2 (2)	0.05882	1.00000	1.033e-3	1.574e-3	
Epileptic encephalopathy, early infantile, 81	Hearing loss, autosomal recessive	1	0	DMXL2 (1)	0.11111	1.00000	5.165e-4	9.125e-4	
Encephalopathy	Epileptic encephalopathy, early infantile, 82	1	0	GOT2 (1)	0.16667	1.00000	3.228e-4	6.412e-4	217

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, 81	Ohtahara syndrome	1	0	DMXL2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Epileptic encephalopathy, early infantile, 8	Hyperekplexia epilepsy syndrome	1	1	ARHGEF9 (3)	0.50000	1.00000	6.457e-5	1.985e-4	
Epileptic encephalopathy, early infantile, 87	Intellectual disability and epileptic encephalopathy	1	0	CDK19 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Epileptic encephalopathy, early infantile, 81	Polyendocrine-polyneuropathy syndrome	1	0	DMXL2 (1)	0.50000	1.00000	6.457e-5	1.985e-4	