

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: 2026-10-12 03:00:13. Filters applied: disease name contains "Focal epilepsy" (26 matching pairs). · Rows: 26 · Generated: 2026-10-12 01:54:39

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cortical dysplasia-focal epilepsy syndrome	Idiopathic pulmonary fibrosis	1	1	CNTNAP2 (4)	0.01205	1.00000	5.325e-3	6.490e-3	
Cortical dysplasia-focal epilepsy syndrome	Rolandic epilepsy	1	1	CNTNAP2 (4)	0.02083	1.00000	3.052e-3	4.025e-3	
Cortical dysplasia-focal epilepsy syndrome	Hyperkinesia	1	1	CNTNAP2 (4)	0.02941	1.00000	2.143e-3	3.044e-3	
Epilepsy with auditory features	Familial focal epilepsy with variable foci	1	1	DEPDC5 (4)	0.08333	0.25000	2.077e-3	2.969e-3	
Cortical dysplasia-focal epilepsy syndrome	Language development disorders	1	1	CNTNAP2 (4)	0.03704	1.00000	1.689e-3	2.531e-3	179
Focal epilepsy with speech disorder and impaired intellectual development	Language development disorders	1	1	GRIN2A (3)	0.03704	1.00000	1.689e-3	2.531e-3	
Cortical dysplasia-focal epilepsy syndrome	Specific language disorder	1	1	CNTNAP2 (4)	0.05000	1.00000	1.234e-3	1.986e-3	179
Focal epilepsy	Lateral temporal lobe epilepsy	1	1	DEPDC5 (2)	0.12500	0.25000	1.039e-3	1.739e-3	
Epilepsy with auditory features	Focal epilepsy	1	1	DEPDC5 (3)	0.12500	0.25000	1.039e-3	1.739e-3	
Focal epilepsy	Roifman syndrome	1	1	CLASP1 (2)	0.14286	0.33333	7.792e-4	1.405e-3	
Complex partial epilepsy	Familial focal epilepsy with variable foci	1	1	SCN3A (4)	0.11111	1.00000	5.195e-4	1.061e-3	
Focal epilepsy with speech disorder and impaired intellectual development	Pyridoxine dependent epilepsy	1	1	GRIN2A (3)	0.11111	1.00000	5.195e-4	1.061e-3	365
Familial focal epilepsy with variable foci	Trident hand	1	0	NPR2 (1)	0.11111	1.00000	5.195e-4	1.061e-3	
Familial temporal lobe epilepsy	Focal epilepsy with speech disorder and impaired intellectual development	1	1	GRIN2A (3)	0.12500	1.00000	4.546e-4	9.726e-4	
Digitrenocerebral syndrome	Focal epilepsy-intellectual disability-cerebro-cerebellar malformation	1	1	TBC1D24 (2)	0.25000	1.00000	1.948e-4	5.354e-4	90
Focal epilepsy-intellectual disability-cerebro-cerebellar malformation	Infantile myoclonic epilepsy	1	1	TBC1D24 (2)	0.33333	1.00000	1.299e-4	3.931e-4	90
Doors syndrome	Focal epilepsy-intellectual disability-cerebro-cerebellar malformation	1	1	TBC1D24 (4)	0.33333	1.00000	1.299e-4	3.931e-4	90
Focal epilepsy-intellectual disability-cerebro-cerebellar malformation	Periodic paralysis	1	1	TBC1D24 (2)	0.33333	1.00000	1.299e-4	3.931e-4	90

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Deafness with congenital onychodystrophy	Focal epilepsy-intellectual disability-cerebro-cerebellar malformation	1	1	TBC1D24 (2)	0.33333	1.00000	1.299e-4	3.931e-4	90
Continuous spike and wave during slow wave sleep syndrome	Focal epilepsy with speech disorder and impaired intellectual development	1	1	GRIN2A (3)	0.33333	1.00000	1.299e-4	3.931e-4	365
Continuous spike and wave during sleep syndrome	Focal epilepsy with speech disorder and impaired intellectual development	1	1	GRIN2A (3)	0.50000	1.00000	6.494e-5	2.331e-4	365
Deafness, onychodystrophy, osteodystrophy, impaired intellectual development, and seizures syndrome	Focal epilepsy-intellectual disability-cerebro-cerebellar malformation	1	1	TBC1D24 (3)	0.50000	1.00000	6.494e-5	2.331e-4	90
Familial focal epilepsy with variable foci	Progressive myoclonic epilepsy	3	3	DEPDC5 (5), NPRL2 (5), NPRL3 (5)	0.10000	0.37500	1.854e-7	1.234e-6	
Focal epilepsy	Progressive myoclonic epilepsy	3	3	DEPDC5 (3), NPRL2 (4), NPRL3 (4)	0.11538	0.75000	1.329e-8	1.056e-7	
Familial focal epilepsy with variable foci	Focal epilepsy	3	3	DEPDC5 (5), NPRL2 (6), NPRL3 (5)	0.30000	0.75000	3.681e-10	3.478e-9	
Focal epilepsy	Partial epilepsy	4	4	DEPDC5 (2), CLASP1 (2), NPRL2 (3), NPRL3 (3)	0.08889	1.00000	5.798e-11	5.901e-10	