

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 "Myoclonic encephalopathy" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 22:48:16

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
22q11.2 deletion syndrome	Myoclonic encephalopathy	1	1	JMJD1C (3)	0.07143	0.20000	2.919e-3	3.876e-3	
Epilepsy of infancy with migrating focal seizures	Myoclonic encephalopathy	1	1	SLC25A22 (3)	0.07143	0.20000	2.919e-3	3.876e-3	
Malignant migrating partial seizures of infancy	Myoclonic encephalopathy	1	1	SLC25A22 (2)	0.07143	0.20000	2.919e-3	3.876e-3	
Myoclonic encephalopathy	Tubulinopathy	1	1	TUBA1A (3)	0.11111	0.25000	1.298e-3	2.063e-3	
KCND2-related neurodevelopmental disorder with or without seizures	Myoclonic encephalopathy	1	1	KCND2 (2)	0.16667	1.00000	3.247e-4	7.709e-4	