

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Short qt syndrome" (19 matching pairs). · Rows: 19 · Generated: 2026-10-11 17:00:27

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Short qt syndrome	Ventricular fibrillation	8	5	CACNB2 (1), TRPM4 (1), KCNJ2 (6), CACNA1C (3), KCNH2 (5), SCN5A (3), CACNA2D1 (2), VCL (1)	0.20000	0.72727	6.351e-20	1.207e-18	
Congenital short qt syndrome	Short qt syndrome	5	5	KCNJ2 (6), KCNH2 (6), KCNQ1 (7), CACNA2D1 (3), SLC4A3 (6)	0.41667	1.00000	6.409e-17	1.040e-15	
Conduction disorder of the heart	Short qt syndrome	5	3	TRPM4 (1), CACNA1C (3), KCNH2 (5), KCNQ1 (6), SCN5A (1)	0.16129	0.45455	2.707e-12	3.110e-11	
Long qt syndrome, digenic	Short qt syndrome	3	2	KCNH2 (5), KCNQ1 (6), SCN5A (1)	0.21429	0.60000	2.710e-9	2.343e-8	
Cardiac conduction disease	Short qt syndrome	3	0	CACNB2 (1), TRPM4 (1), SCN5A (1)	0.16667	0.33333	2.273e-8	1.767e-7	
Congenital short qt syndrome	Paroxysmal atrial fibrillation	2	2	KCNQ1 (2), CACNA2D1 (2)	0.25000	0.50000	5.060e-7	3.140e-6	
Congenital short qt syndrome	Long qt syndrome, digenic	2	2	KCNH2 (2), KCNQ1 (2)	0.22222	0.40000	8.433e-7	4.997e-6	
Paroxysmal atrial fibrillation	Short qt syndrome	2	2	KCNQ1 (6), CACNA2D1 (2)	0.14286	0.50000	2.782e-6	1.505e-5	
Andersen-tawil syndrome	Congenital short qt syndrome	1	1	KCNJ2 (5)	0.14286	0.50000	6.494e-4	1.241e-3	
Congenital short qt syndrome	Haploinsufficiency	1	1	KCNH2 (2)	0.14286	0.50000	6.494e-4	1.241e-3	
Congenital short qt syndrome	Jervell and lange-nielsen syndrome	1	1	KCNQ1 (7)	0.14286	0.50000	6.494e-4	1.241e-3	
Short qt syndrome	Timothy syndrome	1	1	CACNA1C (7)	0.08333	1.00000	7.144e-4	1.335e-3	
Short qt syndrome	Systemic primary carnitine deficiency	1	1	SLC22A5 (4)	0.08333	1.00000	7.144e-4	1.335e-3	
Repolarization syndrome	Short qt syndrome	1	0	CACNB2 (1)	0.08333	1.00000	7.144e-4	1.335e-3	
dilated cardiomyopathy 1W	Short qt syndrome	1	1	VCL (2)	0.08333	1.00000	7.144e-4	1.335e-3	
Carnitine deficiency	Short qt syndrome	1	1	SLC22A5 (3)	0.08333	1.00000	7.144e-4	1.335e-3	
Cardiogenetic disease	Short qt syndrome	1	1	CACNB2 (2)	0.08333	1.00000	7.144e-4	1.335e-3	
Andersen-tawil syndrome	Short qt syndrome	1	1	KCNJ2 (6)	0.07692	0.50000	1.428e-3	2.226e-3	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Concentric hypertrophic cardiomyopathy	Short qt syndrome	1	1	CACNA1C (3)	0.07143	0.33333	2.142e-3	3.044e-3	