

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: 2026-10-10 03:00:13. Filters applied: disease name contains "Paroxysmal atrial fibrillation" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 16:43:19

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital short qt syndrome	Paroxysmal atrial fibrillation	2	2	KCNQ1 (2), CACNA2D1 (2)	0.25000	0.50000	5.060e-7	3.140e-6	
Cardiovascular abnormalities	Paroxysmal atrial fibrillation	2	0	KCNQ1 (1), MYBPC3 (1)	0.14286	0.50000	2.782e-6	1.505e-5	
Paroxysmal atrial fibrillation	Short qt syndrome	2	2	KCNQ1 (6), CACNA2D1 (2)	0.14286	0.50000	2.782e-6	1.505e-5	
Jervell and lange-nielsen syndrome	Paroxysmal atrial fibrillation	1	1	KCNQ1 (7)	0.16667	0.50000	5.195e-4	1.061e-3	
Concentric hypertrophic cardiomyopathy	Paroxysmal atrial fibrillation	1	0	MYBPC3 (1)	0.14286	0.33333	7.792e-4	1.405e-3	