

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 "dilated cardiomyopathy 1J" (10 matching pairs). · Rows: 10 · Generated: 2026-10-11 10:45:28

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
dilated cardiomyopathy 1J	Sensorineural deafness with dilated cardiomyopathy	1	1	EYA4 (3)	0.50000	1.00000	6.494e-5	2.331e-4	
Catecholaminergic polymorphic ventricular tachycardia	dilated cardiomyopathy 1JJ	1	1	LAMA4 (2)	0.04762	1.00000	1.299e-3	2.063e-3	4
dilated cardiomyopathy 1J	Left ventricular noncompaction cardiomyopathy	1	1	EYA4 (2)	0.02564	1.00000	2.468e-3	3.371e-3	
dilated cardiomyopathy 1JJ	Left ventricular noncompaction cardiomyopathy	1	1	LAMA4 (2)	0.02564	1.00000	2.468e-3	3.371e-3	4
dilated cardiomyopathy 1J	Hereditary hearing loss	1	1	EYA4 (2)	0.01961	1.00000	3.247e-3	4.245e-3	
dilated cardiomyopathy 1JJ	Wolff-parkinson-white syndrome	1	1	LAMA4 (2)	0.01923	1.00000	3.312e-3	4.310e-3	4
Arrhythmogenic right ventricular cardiomyopathy	dilated cardiomyopathy 1JJ	1	1	LAMA4 (2)	0.01887	1.00000	3.377e-3	4.374e-3	4
Brugada syndrome	dilated cardiomyopathy 1JJ	1	1	LAMA4 (2)	0.01563	1.00000	4.091e-3	5.162e-3	4
dilated cardiomyopathy 1J	nonsyndromic genetic hearing loss	1	0	EYA4 (1)	0.01205	1.00000	5.325e-3	6.490e-3	
dilated cardiomyopathy 1J	Nonsyndromic hearing loss	1	1	EYA4 (4)	0.00840	1.00000	7.663e-3	8.954e-3	