

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 "Cowchock syndrome" (6 matching pairs). · Rows: 6 · Generated: 2026-10-12 02:53:56

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Charcot-marie-tooth disease, x-linked	Cowchock syndrome	1	1	AIFM1 (6)	0.10000	0.50000	1.039e-3	1.739e-3	
Cowchock syndrome	X-linked hereditary sensory and autonomic neuropathy with deafness	1	1	AIFM1 (5)	0.33333	1.00000	1.299e-4	3.931e-4	
Cowchock syndrome	Leukodystrophy	2	1	AIFM1 (2), RAB33A (1)	0.07407	1.00000	2.742e-6	1.489e-5	
Cowchock syndrome	Spondyloepimetaphyseal dysplasia	2	1	AIFM1 (4), RAB33A (1)	0.07692	1.00000	2.531e-6	1.383e-5	
Cowchock syndrome	Deafness, x-linked	2	1	AIFM1 (4), RAB33A (1)	0.18182	1.00000	3.796e-7	2.393e-6	
Beta-hydroxyisobutyryl-coa deacylase deficiency	Cowchock syndrome	2	1	AIFM1 (2), RAB33A (1)	0.50000	1.00000	2.531e-8	1.927e-7	