

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 "Congenital sensorineural hearing loss" (6 matching pairs). · Rows: 6 · Generated: 2026-10-11 11:14:10

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital ear anomaly	Congenital sensorineural hearing loss	5	0	MYO15A (1), USH2A (1), TBCEL-TECTA (1), MITF (1), TECTA (1)	0.14286	0.62500	1.314e-12	1.574e-11	
Congenital sensorineural hearing loss	Waardenburg syndrome type 2	1	1	MITF (2)	0.11111	1.00000	5.195e-4	1.061e-3	
Congenital sensorineural hearing loss	Deafness with congenital and adult-onset progressive leukodystrophy	1	1	KARS1 (3)	0.11111	1.00000	5.195e-4	1.061e-3	
Congenital sensorineural hearing loss	Early onset progressive leukoencephalopathy-central nervous system calcification-hearing loss-visual impairment syndrome	1	0	KARS1 (1)	0.11111	1.00000	5.195e-4	1.061e-3	
Congenital sensorineural hearing loss	Early-onset progressive leukoencephalopathy-central nervous system calcification-deafness-visual impairment syndrome	1	1	KARS1 (2)	0.11111	1.00000	5.195e-4	1.061e-3	
Congenital sensorineural hearing loss	Usher syndrome type 2	1	1	USH2A (2)	0.10000	0.50000	1.039e-3	1.739e-3	