GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-20 03:00:20. Filters applied: disease name contains "Sensorineural hearing impairment" (15 matching pairs). · Rows: 15 · Generated: 2026-10-20 03:38:17

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Deafness, autosomal recessive	Peripheral neuropathy with sensorineural hearing impairment syndrome	1	1	GJB3 (2)	0.50000	1.00000	6.457e-5	1.985e-4	367
Erythrokeratoderma	Peripheral neuropathy with sensorineural hearing impairment syndrome	1	1	GJB3 (2)	0.50000	1.00000	6.457e-5	1.985e-4	367
Erythrokeratodermia variabilis et progressiva 1	Peripheral neuropathy with sensorineural hearing impairment syndrome	1	1	GJB3 (2)	0.50000	1.00000	6.457e-5	1.985e-4	367
Deafness, digenic	Peripheral neuropathy with sensorineural hearing impairment syndrome	1	1	GJB3 (3)	0.33333	1.00000	1.291e-4	3.269e-4	
Abnormal corpus callosum morphology	Sensorineural hearing impairment	1	0	RNF220 (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Leukodystrophy, hypomyelinating, 23, with ataxia, deafness, liver dysfunction, and dilated cardiomyopathy	Sensorineural hearing impairment	1	0	RNF220 (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Maternally-inherited diabetes and deafness	Sensorineural hearing impairment	1	0	TRNL1 (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Multiple symmetric lipomatosis	Sensorineural hearing impairment	1	0	TRNK (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Greither disease	Peripheral neuropathy with sensorineural hearing impairment syndrome	1	0	GJB3 (1)	0.20000	1.00000	2.583e-4	5.384e-4	367
Merrf syndrome	Sensorineural hearing impairment	1	0	TRNK (1)	0.16667	0.50000	5.165e-4	9.125e-4	
Childhood-onset sensorineural hearing impairment	Xx gonadal dysgenesis syndrome	1	0	PRORP (1)	0.11111	1.00000	5.165e-4	9.125e-4	485
Childhood-onset sensorineural hearing impairment	Perrault syndrome	1	1	PRORP (2)	0.06667	1.00000	9.039e-4	1.411e-3	485
Childhood-onset sensorineural hearing impairment	Combined oxidative phosphorylation deficiency	1	1	PRORP (5)	0.01449	1.00000	4.390e-3	5.339e-3	
Biliary cirrhosis	Childhood-onset sensorineural hearing impairment	1	1	PRORP (2)	0.00775	1.00000	8.264e-3	9.403e-3	
Biliary cholangitis	Childhood-onset sensorineural hearing impairment	1	1	PRORP (2)	0.00676	1.00000	9.491e-3	1.064e-2	