

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 "Pendred syndrome" (8 matching pairs). · Rows: 8 · Generated: 2026-10-11 21:01:17

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Auditory neuropathy	Pendred syndrome	3	0	OTOF (1), DIAPH1 (1), MYO7A (1)	0.08333	0.42857	2.572e-7	1.678e-6	
Arthrogryposis with ectodermal dysplasia	Pendred syndrome	1	0	OTOF (1)	0.12500	1.00000	4.546e-4	9.726e-4	
East syndrome	Pendred syndrome	1	1	KCNJ10 (7)	0.12500	1.00000	4.546e-4	9.726e-4	
hearing loss, autosomal recessive 116	Pendred syndrome	1	1	CLDN9 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Pendred syndrome	Sensorineural hearing loss thrombocytopenia syndrome	1	1	DIAPH1 (3)	0.12500	1.00000	4.546e-4	9.726e-4	
Pendred syndrome	progressive microcephaly-seizures-cortical blindness-developmental delay syndrome	1	1	DIAPH1 (2)	0.12500	1.00000	4.546e-4	9.726e-4	
Pendred syndrome	Seizures, tonic-clonic, photosensitive	1	1	KCNJ10 (6)	0.11111	0.50000	9.090e-4	1.576e-3	
Pendred syndrome	Usher syndrome type 1	1	1	MYO7A (2)	0.11111	0.50000	9.090e-4	1.576e-3	