

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: 2026-10-10 03:00:13. Filters applied: disease name contains "renal tubular acidosis, distal, 2, with progressive sensorineural hearing loss" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 06:58:36

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Nephrolithiasis	renal tubular acidosis, distal, 2, with progressive sensorineural hearing loss	1	1	ATP6V1B1 (2)	0.00826	1.00000	7.793e-3	9.066e-3	
renal tubular acidosis, distal, 2, with progressive sensorineural hearing loss	Usher syndrome	1	1	ATP6V1B1 (2)	0.02222	1.00000	2.858e-3	3.806e-3	
Polydactyly	renal tubular acidosis, distal, 2, with progressive sensorineural hearing loss	1	1	ATP6V1B1 (2)	0.02500	1.00000	2.533e-3	3.446e-3	
Distal renal tubular acidosis	renal tubular acidosis, distal, 2, with progressive sensorineural hearing loss	1	1	ATP6V1B1 (4)	0.10000	1.00000	5.845e-4	1.156e-3	
renal tubular acidosis, distal, 2, with progressive sensorineural hearing loss	Urogenital abnormalities	1	1	ATP6V1B1 (2)	0.10000	1.00000	5.845e-4	1.156e-3	