

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 "Distal renal tubular acidosis" (6 matching pairs). · Rows: 6 · Generated: 2026-10-11 19:03:56

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
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	
Cryohydrocytosis	Distal renal tubular acidosis	1	1	SLC4A1 (7)	0.09091	0.50000	1.169e-3	1.895e-3	
Distal renal tubular acidosis	Hereditary xerocytosis	1	1	SLC4A1 (6)	0.08333	0.33333	1.753e-3	2.609e-3	
Distal renal tubular acidosis	Xerocytosis	1	1	SLC4A1 (6)	0.08333	0.33333	1.753e-3	2.609e-3	
Distal renal tubular acidosis	Hennekam syndrome	1	1	CCBE1 (5)	0.08333	0.33333	1.753e-3	2.609e-3	
Distal renal tubular acidosis	Hypomaturation amelogenesis imperfecta	1	1	WDR72 (2)	0.06250	0.14286	4.085e-3	5.160e-3	