

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 "Nephropathic cystinosis" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 13:39:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cystinosis	Nephropathic cystinosis	2	1	CTNS (8), TAX1BP3 (1)	0.50000	1.00000	2.531e-8	1.927e-7	
Nephropathic cystinosis	Ocular cystinosis	1	1	CTNS (5)	0.25000	1.00000	1.948e-4	5.354e-4	
Nephropathic cystinosis	Nephrotic syndrome	1	1	CTNS (5)	0.00592	0.33333	3.200e-2	3.394e-2	
Dilated cardiomyopathy	Nephropathic cystinosis	1	0	TAX1BP3 (1)	0.00362	0.33333	5.225e-2	5.412e-2	
Hypothyroidism	Nephropathic cystinosis	1	1	SLC66A1 (2)	0.00265	0.33333	7.112e-2	7.249e-2	