

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 "Hereditary chronic pancreatitis" (9 matching pairs). · Rows: 9 · Generated: 2026-10-10 06:06:31

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hereditary chronic pancreatitis	Pancreatitis	7	7	CFTR (4), CPA1 (3), CTRC (4), PRSS1 (6), PRSS2 (3), TRPV6 (3), SPINK1 (5)	0.11864	0.87500	5.186e-17	8.466e-16	
Hereditary chronic pancreatitis	Tropical calcific pancreatitis	2	2	CTRC (2), SPINK1 (5)	0.22222	1.00000	2.362e-7	1.551e-6	
Hereditary chronic pancreatitis	neonatal severe primary hyperparathyroidism	1	1	CASR (2)	0.11111	1.00000	5.195e-4	1.061e-3	
Congenital bilateral absence of vas deferens	Hereditary chronic pancreatitis	1	1	CFTR (6)	0.10000	0.50000	1.039e-3	1.739e-3	
Benign hypercalcemia	Hereditary chronic pancreatitis	1	1	CASR (2)	0.10000	0.50000	1.039e-3	1.739e-3	
Hereditary chronic pancreatitis	Intestinal hypomagnesemia	1	1	TRPV6 (2)	0.10000	0.50000	1.039e-3	1.739e-3	
Hereditary chronic pancreatitis	Pancreatic trypsinogen deficiency	1	1	PRSS1 (3)	0.10000	0.50000	1.039e-3	1.739e-3	
Hereditary chronic pancreatitis	Obstructive azoospermia	1	1	CFTR (2)	0.08333	0.25000	2.077e-3	2.969e-3	
Hereditary chronic pancreatitis	Spermatogenic failure, y-linked	1	1	CFTR (2)	0.04545	0.12500	7.252e-3	8.565e-3	