

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: 2026-10-09 03:00:13. Filters applied: disease name contains "Benign hypercalcemia" (6 matching pairs). · Rows: 6 · Generated: 2026-10-09 07:57:13

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Benign hypercalcemia	Hypocalciuric hypercalcemia	2	2	AP2S1 (6), CASR (7)	0.50000	1.00000	2.531e-8	1.927e-7	
Benign hypercalcemia	Calcium metabolism disorders	2	1	AP2S1 (2), CASR (1)	0.22222	1.00000	2.362e-7	1.552e-6	
Benign hypercalcemia	neonatal severe primary hyperparathyroidism	1	1	CASR (2)	0.33333	1.00000	1.299e-4	3.929e-4	
Benign hypercalcemia	Kidney and ureter calculus	1	0	CASR (1)	0.16667	0.50000	5.195e-4	1.060e-3	
Benign hypercalcemia	Hypocalcemia	1	1	CASR (7)	0.12500	0.50000	7.792e-4	1.405e-3	
Benign hypercalcemia	Hereditary chronic pancreatitis	1	1	CASR (2)	0.10000	0.50000	1.039e-3	1.739e-3	