

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 "Hypertensive heart disease" (16 matching pairs). · Rows: 16 · Generated: 2026-10-10 03:03:20

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hypertensive heart disease	Hypertensive nephropathy	7	0	PRKAG2 (1), SCARB1 (1), TCF7L2 (1), APOL1 (1), FTO (1), PDILT (1), DCDC1 (1)	0.29167	0.70000	2.282e-19	4.189e-18	
Diabetic nephropathy type 2	Hypertensive heart disease	3	0	TCF7L2 (1), FTO (1), PDILT (1)	0.11538	0.30000	1.601e-7	1.083e-6	
Diabetic polyneuropathy	Hypertensive heart disease	2	0	TCF7L2 (1), FTO (1)	0.11111	0.22222	1.363e-5	6.603e-5	
Hypertensive heart disease	Osteomyelitis	2	0	TCF7L2 (1), FTO (1)	0.11111	0.22222	1.363e-5	6.603e-5	
Hydronephrosis	Hypertensive heart disease	2	0	PDILT (1), UMOD (1)	0.09524	0.20000	2.497e-5	1.166e-4	
Hypertensive heart disease	Potassium deficiency	2	0	FGF5 (1), PRDM8 (1)	0.07407	0.20000	5.776e-5	2.331e-4	
focal segmental glomerulosclerosis 4, susceptibility to	Hypertensive heart disease	1	1	APOL1 (2)	0.09091	1.00000	6.494e-4	1.241e-3	
Hypertensive heart disease	Lafora body disease	1	1	PRDM8 (3)	0.09091	1.00000	6.494e-4	1.241e-3	
Hypertensive heart disease	PRKAG2-related cardiomyopathy	1	1	PRKAG2 (2)	0.09091	1.00000	6.494e-4	1.241e-3	
Hypertensive heart disease	Progressive myoclonic epilepsy with intracellular inclusions	1	1	PRDM8 (3)	0.09091	1.00000	6.494e-4	1.241e-3	
Hypertensive heart disease	Trichomegaly	1	1	FGF5 (5)	0.09091	1.00000	6.494e-4	1.241e-3	
autosomal dominant medullary cystic kidney disease with or without hyperuricemia	Hypertensive heart disease	1	1	UMOD (2)	0.08333	0.50000	1.298e-3	2.063e-3	
Follicular cyst	Hypertensive heart disease	1	1	SCARB1 (3)	0.08333	0.50000	1.298e-3	2.063e-3	
Cholesterol ester transfer protein deficiency	Hypertensive heart disease	1	1	SCARB1 (2)	0.07692	0.33333	1.947e-3	2.828e-3	
Hyperalphalipoproteinemia	Hypertensive heart disease	1	1	SCARB1 (2)	0.07692	0.33333	1.947e-3	2.828e-3	
Bile duct disorder	Hypertensive heart disease	1	0	PRKAG2 (1)	0.06250	0.16667	3.891e-3	4.941e-3	