

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 "Multinodular goiter" (9 matching pairs). · Rows: 9 · Generated: 2026-10-11 06:37:20

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
2,4-dienoyl-coa reductase deficiency	Multinodular goiter	1	1	NADK2 (4)	0.03333	0.50000	3.634e-3	4.667e-3	
Multinodular goiter	Ochoa syndrome	1	1	HPSE2 (2)	0.03333	0.50000	3.634e-3	4.667e-3	
Multinodular goiter	Urofacial syndrome	1	1	HPSE2 (5)	0.03333	0.50000	3.634e-3	4.667e-3	
1p31p32 microdeletion syndrome	Multinodular goiter	1	1	NFIA (3)	0.03448	1.00000	1.818e-3	2.677e-3	
Multinodular goiter	progressive encephalopathy with leukodystrophy due to DECR deficiency	1	1	NADK2 (2)	0.03448	1.00000	1.818e-3	2.677e-3	
Multinodular goiter	Urinary system disease	2	0	BCAS3 (1), MACROD2 (1)	0.04762	0.13333	3.300e-4	7.830e-4	
Multinodular goiter	Thyroid disease	5	0	NFIA (1), INSR (1), TG (1), FAM227B (1), MICOS10 (1)	0.06494	0.17857	3.685e-8	2.770e-7	
Hyperthyroidism	Multinodular goiter	6	0	NFIA (1), TG (1), FAM227B (1), PRDM11 (1), FGF7 (1), MICOS10 (1)	0.07895	0.21429	4.415e-10	4.141e-9	
Multinodular goiter	Toxic nodular goiter	10	0	NFIA (1), BCAS3 (1), INSR (1), TG (1), FAM227B (1), ITPK1 (1), PRDM11 (1), MBIP (1), FGF7 (1), MICOS10 (1)	0.27778	0.58824	1.230e-24	2.934e-23	