

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 "Testicular germ cell tumor" (10 matching pairs). · Rows: 10 · Generated: 2026-10-10 14:16:07

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Peripheral neuropathy, autosomal recessive, with or without impaired intellectual development	Testicular germ cell tumor	1	1	MCM3AP (6)	0.01613	0.50000	7.778e-3	9.066e-3	
glutaric acidemia type 3	Testicular germ cell tumor	1	1	SUGCT (2)	0.01639	1.00000	3.897e-3	4.941e-3	
immunodeficiency 37	Testicular germ cell tumor	1	1	BCL10 (2)	0.01639	1.00000	3.897e-3	4.941e-3	
khan-khan-katsanis syndrome	Testicular germ cell tumor	1	1	NCAPG2 (2)	0.01639	1.00000	3.897e-3	4.941e-3	
Mucosa-associated lymphoma	Testicular germ cell tumor	1	1	BCL10 (2)	0.01639	1.00000	3.897e-3	4.941e-3	
Testicular germ cell tumor	Transient neonatal diabetes mellitus	2	2	HNF1B (3), GATA4 (3)	0.02941	0.22222	5.282e-4	1.078e-3	
Renal cysts and diabetes syndrome	Testicular germ cell tumor	2	2	HNF1B (6), GATA4 (2)	0.03226	0.66667	4.468e-5	2.029e-4	
Testicular germ cell tumor	Testicular neoplasms	3	3	DMRT1 (2), ATF7IP (2), KITLG (2)	0.04615	0.42857	1.947e-6	1.087e-5	
Pancreatic neoplasms	Testicular germ cell tumor	7	4	HNF1B (2), TERT (2), STK11 (2), MMP2 (1), ALOX5 (1), SUGCT (2), ALOX12B (1)	0.04094	0.11667	3.379e-7	2.164e-6	
Testicular carcinoma	Testicular germ cell tumor	53	6	HNF1B (1), DMRT1 (1), GATA4 (1), PIK3CD (1), TERT (1), ATF7IP (1), CENPE (1), GAB2 (1), HEATR3 (1), LIPG (1), MAD1L1 (2), PDE8A (1)	0.77941	0.88333	8.063e-136	1.321e-133	