

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 "T-cell immunodeficiency" (9 matching pairs). · Rows: 9 · Generated: 2026-10-09 01:21:26

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hemifacial microsomia	T-cell immunodeficiency	1	1	FOXI3 (2)	0.20000	1.00000	2.598e-4	6.505e-4	48
Goldenhar syndrome	T-cell immunodeficiency	1	1	FOXI3 (2)	0.09091	1.00000	6.494e-4	1.241e-3	48
Craniofacial microsomia	T-cell immunodeficiency	1	1	FOXI3 (5)	0.06250	1.00000	9.742e-4	1.665e-3	48
Pharyngeal disorder	t-cell immunodeficiency, congenital alopecia, and nail dystrophy	1	1	FOXN1 (2)	0.03125	1.00000	2.013e-3	2.900e-3	
T-cell immunodeficiency	Tooth agenesis	1	1	FOXI3 (2)	0.02381	1.00000	2.663e-3	3.595e-3	
Combined immunodeficiency disease	t-cell immunodeficiency, congenital alopecia, and nail dystrophy	1	1	FOXN1 (3)	0.02222	1.00000	2.858e-3	3.805e-3	11
Severe combined immunodeficiency	t-cell immunodeficiency, congenital alopecia, and nail dystrophy	1	1	FOXN1 (3)	0.01923	1.00000	3.312e-3	4.308e-3	11
Migraine	T-cell immunodeficiency	1	1	FOXI3 (2)	0.00247	1.00000	2.624e-2	2.801e-2	
Autism	t-cell immunodeficiency, congenital alopecia, and nail dystrophy	1	1	FOXN1 (2)	0.00068	1.00000	9.501e-2	9.603e-2	