

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 "immunodeficiency 15a" (5 matching pairs). · Rows: 5 · Generated: 2026-10-09 14:05:48

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
immunodeficiency 15a	Severe combined immunodeficiency	1	1	IKBKB (4)	0.01923	1.00000	3.312e-3	4.308e-3	
Combined immunodeficiency disease	immunodeficiency 15a	1	1	IKBKB (2)	0.02222	1.00000	2.858e-3	3.805e-3	
Dermatitis	immunodeficiency 15a	1	1	IKBKB (2)	0.02564	1.00000	2.468e-3	3.370e-3	
Hyperbilirubinemia	immunodeficiency 15a	1	1	IKBKB (3)	0.07143	1.00000	8.443e-4	1.499e-3	
immunodeficiency 15a	severe combined immunodeficiency due to IKK2 deficiency	1	0	IKBKB (1)	0.50000	1.00000	6.494e-5	2.329e-4	