

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 "immunodeficiency 123 with hpv-related verrucosis" (5 matching pairs). · Rows: 5 · Generated: 2026-10-10 02:34:02

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
immunodeficiency 123 with hpv-related verrucosis	Mycosis fungoides	1	1	CD28 (2)	0.25000	1.00000	1.948e-4	5.354e-4	
Berylliosis	immunodeficiency 123 with hpv-related verrucosis	1	1	CD28 (2)	0.09091	1.00000	6.494e-4	1.241e-3	
immunodeficiency 123 with hpv-related verrucosis	Sezary syndrome	1	1	CD28 (2)	0.03571	1.00000	1.753e-3	2.609e-3	
Chloracne	immunodeficiency 123 with hpv-related verrucosis	1	1	CD28 (3)	0.02941	1.00000	2.143e-3	3.044e-3	
immunodeficiency 123 with hpv-related verrucosis	T-cell leukemia-lymphoma	1	1	CD28 (2)	0.02703	1.00000	2.338e-3	3.243e-3	