

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Hyper-immunoglobulin e syndrome 4b, autosomal recessive, with recurrent infections" (5 matching pairs). · Rows: 5 · Generated: 2026-10-20 03:56:58

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hyper-immunoglobulin e syndrome 4b, autosomal recessive, with recurrent infections	Recurrent infections	1	0	IL6ST (1)	0.12500	1.00000	4.520e-4	8.260e-4	
Hyper-immunoglobulin e syndrome 4b, autosomal recessive, with recurrent infections	Stuve-wiedemann syndrome	1	1	IL6ST (4)	0.14286	1.00000	3.874e-4	7.329e-4	
Hyper-immunoglobulin e syndrome 4b, autosomal recessive, with recurrent infections	Hyperandrogenism	1	1	IL6ST (2)	0.16667	1.00000	3.228e-4	6.412e-4	
Hyper-immunoglobulin e syndrome	Hyper-immunoglobulin e syndrome 4b, autosomal recessive, with recurrent infections	1	1	IL6ST (2)	0.20000	1.00000	2.583e-4	5.384e-4	
Hyper-immunoglobulin e syndrome 4a, autosomal dominant, with recurrent infections	Hyper-immunoglobulin e syndrome 4b, autosomal recessive, with recurrent infections	1	0	IL6ST (1)	0.50000	1.00000	6.457e-5	1.985e-4	