

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 "Factor x deficiency" (9 matching pairs). · Rows: 9 · Generated: 2026-10-10 16:43:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital factor x deficiency	Factor x deficiency	1	1	F10 (6)	0.50000	1.00000	6.494e-5	2.331e-4	
Blood coagulation disorder	Congenital factor x deficiency	1	1	F10 (5)	0.04000	1.00000	1.559e-3	2.376e-3	
Blood coagulation disorder	Factor x deficiency	1	1	F10 (3)	0.04000	1.00000	1.559e-3	2.376e-3	
Congenital factor x deficiency	Thrombosis	1	1	F10 (4)	0.02174	1.00000	2.922e-3	3.876e-3	
Factor x deficiency	Thrombosis	1	1	F10 (3)	0.02174	1.00000	2.922e-3	3.876e-3	
Congenital factor x deficiency	Psoriatic arthritis	1	1	F10 (4)	0.01351	1.00000	4.741e-3	5.862e-3	
Factor x deficiency	Psoriatic arthritis	1	1	F10 (4)	0.01351	1.00000	4.741e-3	5.862e-3	
Congenital factor x deficiency	Preeclampsia	1	1	F10 (4)	0.01010	1.00000	6.364e-3	7.629e-3	
Factor x deficiency	Preeclampsia	1	1	F10 (4)	0.01010	1.00000	6.364e-3	7.629e-3	