

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 "Complement component deficiency" (15 matching pairs). · Rows: 15 · Generated: 2026-10-09 23:45:38

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cold paroxysmal hemoglobinuria	Terminal complement component deficiency	1	0	C5 (1)	0.07692	0.16667	2.725e-3	3.665e-3	
Hemoglobinuria paroxysmal	Terminal complement component deficiency	1	0	C5 (1)	0.07692	0.16667	2.725e-3	3.665e-3	
Complement component deficiency	Cyclic neutropenia	1	1	CFD (3)	0.05263	0.50000	2.207e-3	3.113e-3	
Complement component deficiency	Periodontal ehlers-danlos syndrome	1	1	C1S (6)	0.05263	0.50000	2.207e-3	3.113e-3	
atypical hemolytic-uremic syndrome with B factor anomaly	Complement component deficiency	1	1	CFB (6)	0.05556	1.00000	1.104e-3	1.826e-3	
C9 deficiency	Complement component deficiency	1	1	C9 (5)	0.05556	1.00000	1.104e-3	1.826e-3	383
Complement component deficiency	Hereditary c1 esterase inhibitor deficiency	1	1	SERPING1 (3)	0.05556	1.00000	1.104e-3	1.826e-3	383
C9 deficiency	Terminal complement component deficiency	1	1	C9 (2)	0.12500	1.00000	4.546e-4	9.726e-4	383
C1 esterase inhibitor deficiency	Terminal complement component deficiency	3	0	C8B (1), C9 (1), C8A (1)	0.27273	0.50000	1.150e-9	1.036e-8	383
C3 glomerulonephritis	Complement component deficiency	4	4	CFI (5), C3 (8), CFB (7), CFH (5)	0.18182	0.50000	7.096e-11	7.166e-10	
Complement component deficiency	Mesangiocapillary glomerulonephritis	4	4	CFI (5), C3 (6), CFB (5), CFH (5)	0.18182	0.50000	7.096e-11	7.166e-10	
Complement component deficiency	Complement pathway abnormality	4	4	C1S (5), C2 (5), C4B (5), C4A (5)	0.18182	0.50000	7.096e-11	7.166e-10	
Complement component deficiency	Macular degeneration	7	7	CFI (4), C2 (5), C3 (7), CFB (5), SERPING1 (3), CFH (4), C9 (6)	0.08974	0.41176	4.019e-13	5.033e-12	
Complement component deficiency	Terminal complement component deficiency	6	6	C8B (4), C5 (5), C9 (4), C8A (4), C6 (5), C7 (5)	0.31579	0.85714	4.681e-18	8.093e-17	383
C1 esterase inhibitor deficiency	Complement component deficiency	6	6	C2 (5), SERPING1 (5), C4B (5), C8B (4), C9 (4), C8A (4)	0.33333	1.00000	6.692e-19	1.203e-17	383