

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 "Primary ciliary dyskinesia 1" (47 matching pairs). · Rows: 47 · Generated: 2026-10-20 05:45:26

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Kartagener syndrome	Primary ciliary dyskinesia 1	1	1	DNAI1 (2)	0.50000	1.00000	6.457e-5	1.985e-4	
Polynesian bronchiectasis	Primary ciliary dyskinesia 1	1	1	DNAI1 (3)	0.10000	1.00000	5.811e-4	1.000e-3	
Polynesian bronchiectasis	Primary ciliary dyskinesia 15	1	1	CCDC40 (3)	0.10000	1.00000	5.811e-4	1.000e-3	233
Ellis-van creveld syndrome	Primary ciliary dyskinesia 14	1	1	CCDC39 (3)	0.10000	1.00000	5.811e-4	1.000e-3	236
Polynesian bronchiectasis	Primary ciliary dyskinesia 17	1	1	DNAAF19 (2)	0.10000	1.00000	5.811e-4	1.000e-3	233
Ciliary dyskinesia, with or without situs inversus	Primary ciliary dyskinesia 1	1	1	DNAI1 (3)	0.08333	1.00000	7.102e-4	1.174e-3	
Ciliary dyskinesia, with or without situs inversus	Primary ciliary dyskinesia 11	1	1	RSPH4A (2)	0.08333	1.00000	7.102e-4	1.174e-3	233
Ciliary dyskinesia, with or without situs inversus	Primary ciliary dyskinesia 17	1	1	DNAAF19 (2)	0.08333	1.00000	7.102e-4	1.174e-3	233
Ciliary dyskinesia, with or without situs inversus	Primary ciliary dyskinesia 15	1	1	CCDC40 (3)	0.08333	1.00000	7.102e-4	1.174e-3	233
Primary ciliary dyskinesia 14	Situs ambiguus	1	1	CCDC39 (3)	0.04545	1.00000	1.356e-3	1.965e-3	
Primary ciliary dyskinesia 17	Situs inversus	1	1	DNAAF19 (2)	0.04545	1.00000	1.356e-3	1.965e-3	
Primary ciliary dyskinesia 19	Situs ambiguus	1	1	DNAAF11 (2)	0.04545	1.00000	1.356e-3	1.965e-3	
Primary ciliary dyskinesia 15	Situs ambiguus	1	1	CCDC40 (3)	0.04545	1.00000	1.356e-3	1.965e-3	
Primary ciliary dyskinesia 13	Situs ambiguus	1	1	DNAAF1 (3)	0.04545	1.00000	1.356e-3	1.965e-3	186
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 16	1	1	DNAL1 (3)	0.03226	1.00000	1.937e-3	2.646e-3	15
Primary ciliary dyskinesia	Primary ciliary dyskinesia 14	1	1	CCDC39 (2)	0.03226	1.00000	1.937e-3	2.646e-3	
Primary ciliary dyskinesia	Primary ciliary dyskinesia 19	1	1	DNAAF11 (2)	0.03226	1.00000	1.937e-3	2.646e-3	15
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 15	1	1	CCDC40 (3)	0.03226	1.00000	1.937e-3	2.646e-3	
Primary ciliary dyskinesia	Primary ciliary dyskinesia 15	1	1	CCDC40 (2)	0.03226	1.00000	1.937e-3	2.646e-3	
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 19	1	1	DNAAF11 (2)	0.03226	1.00000	1.937e-3	2.646e-3	15
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 17	1	1	DNAAF19 (2)	0.03226	1.00000	1.937e-3	2.646e-3	
Primary ciliary dyskinesia	Primary ciliary dyskinesia 17	1	1	DNAAF19 (2)	0.03226	1.00000	1.937e-3	2.646e-3	
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 18	1	1	DNAAF5 (3)	0.03226	1.00000	1.937e-3	2.646e-3	15
Primary ciliary dyskinesia	Primary ciliary dyskinesia 18	1	1	DNAAF5 (2)	0.03226	1.00000	1.937e-3	2.646e-3	15
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 14	1	1	CCDC39 (3)	0.03226	1.00000	1.937e-3	2.646e-3	
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 1	1	1	DNAI1 (3)	0.03226	1.00000	1.937e-3	2.646e-3	
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 13	1	1	DNAAF1 (3)	0.03226	1.00000	1.937e-3	2.646e-3	
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 10	1	1	DNAAF2 (3)	0.03226	1.00000	1.937e-3	2.646e-3	15

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 12	1	1	RSPH9 (2)	0.03226	1.00000	1.937e-3	2.646e-3	15
Congenital nasopharyngeal atresia	Primary ciliary dyskinesia 11	1	1	RSPH4A (2)	0.03226	1.00000	1.937e-3	2.646e-3	
Ciliary dyskinesia	Primary ciliary dyskinesia 11	1	1	RSPH4A (7)	0.01124	1.00000	5.682e-3	6.721e-3	
Ciliary dyskinesia	Primary ciliary dyskinesia 19	1	1	DNAAF11 (7)	0.01124	1.00000	5.682e-3	6.721e-3	15
Ciliary dyskinesia	Primary ciliary dyskinesia 1	1	1	DNAI1 (6)	0.01124	1.00000	5.682e-3	6.721e-3	
Ciliary dyskinesia	Primary ciliary dyskinesia 18	1	1	DNAAF5 (8)	0.01124	1.00000	5.682e-3	6.721e-3	15
Ciliary dyskinesia	Primary ciliary dyskinesia 10	1	1	DNAAF2 (8)	0.01124	1.00000	5.682e-3	6.721e-3	15
Ciliary dyskinesia	Primary ciliary dyskinesia 14	1	1	CCDC39 (8)	0.01124	1.00000	5.682e-3	6.721e-3	
Ciliary dyskinesia	Primary ciliary dyskinesia 16	1	1	DNAL1 (8)	0.01124	1.00000	5.682e-3	6.721e-3	15
Brain aneurysm	Primary ciliary dyskinesia 12	1	1	RSPH9 (2)	0.01124	1.00000	5.682e-3	6.721e-3	
Ciliary dyskinesia	Primary ciliary dyskinesia 12	1	1	RSPH9 (7)	0.01124	1.00000	5.682e-3	6.721e-3	15
Ciliary dyskinesia	Primary ciliary dyskinesia 13	1	1	DNAAF1 (7)	0.01124	1.00000	5.682e-3	6.721e-3	
Atherosclerosis	Primary ciliary dyskinesia 10	1	1	DNAAF2 (3)	0.00833	1.00000	7.683e-3	8.815e-3	
Primary ciliary dyskinesia 19	Sarcoidosis	1	1	DNAAF11 (2)	0.00610	1.00000	1.052e-2	1.171e-2	
Color vision deficiency	Primary ciliary dyskinesia 16	1	1	DNAL1 (3)	0.00103	1.00000	6.237e-2	6.395e-2	
Autism	Primary ciliary dyskinesia 11	1	1	RSPH4A (3)	0.00068	1.00000	9.504e-2	9.587e-2	
Autism	Primary ciliary dyskinesia 10	1	1	DNAAF2 (4)	0.00068	1.00000	9.504e-2	9.587e-2	
Autism	Primary ciliary dyskinesia 13	1	1	DNAAF1 (4)	0.00068	1.00000	9.504e-2	9.587e-2	
Primary ciliary dyskinesia 18	Schizophrenia	1	1	DNAAF5 (3)	0.00039	1.00000	1.639e-1	1.643e-1	