

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: 2026-10-11 03:00:14. Filters applied: disease name contains "Frontonasal dysplasia" (16 matching pairs). · Rows: 16 · Generated: 2026-10-11 16:54:05

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Frontonasal dysplasia with alopecia and genital anomaly	Parietal foramina	1	1	ALX4 (8)	0.33333	1.00000	1.299e-4	3.931e-4	93
11p11.2 deletion syndrome	Frontonasal dysplasia with alopecia and genital anomaly	1	1	ALX4 (5)	0.25000	1.00000	1.948e-4	5.354e-4	93
Frontonasal dysplasia with alopecia and genital anomaly	Potocki-shaffer syndrome	1	1	ALX4 (5)	0.25000	1.00000	1.948e-4	5.354e-4	93
Anhidrotic ectodermal dysplasia	Craniofrontonasal dysplasia	1	1	EDA (2)	0.20000	1.00000	2.598e-4	6.509e-4	117
Craniofrontonasal dysplasia	X-linked intellectual disability-cerebellar hypoplasia syndrome	1	1	OPHN1 (3)	0.20000	1.00000	2.598e-4	6.509e-4	117
craniofacial dysplasia - osteopenia syndrome	Frontonasal dysplasia	1	1	IRX5 (5)	0.12500	1.00000	4.546e-4	9.726e-4	
Frontonasal dysplasia	Frontonasal dysplasia with alopecia and genital anomaly	1	1	ALX4 (7)	0.12500	1.00000	4.546e-4	9.726e-4	
Frontonasal dysplasia	Frontonasal dysplasia, severe microphthalmia, severe facial clefting syndrome	1	1	ALX1 (7)	0.12500	1.00000	4.546e-4	9.726e-4	
Frontonasal dysplasia	frontorhiny	1	1	ALX3 (4)	0.12500	1.00000	4.546e-4	9.726e-4	
Craniofrontonasal dysplasia	X-linked hypohidrotic ectodermal dysplasia	1	1	EDA (3)	0.16667	0.50000	5.195e-4	1.061e-3	117
Frontonasal dysplasia	Parietal foramina	1	1	ALX4 (6)	0.11111	0.50000	9.090e-4	1.576e-3	
Craniofrontonasal dysplasia	Dysphoric mood	1	1	EFNB1 (7)	0.12500	0.25000	1.039e-3	1.739e-3	
Christ-siemens-touraine syndrome	Craniofrontonasal dysplasia	1	1	EDA (2)	0.11111	0.25000	1.298e-3	2.063e-3	117
Frontonasal dysplasia with alopecia and genital anomaly	Polydactyly	1	1	ALX4 (6)	0.02500	1.00000	2.533e-3	3.446e-3	
Craniofacial abnormalities	Frontonasal dysplasia, severe microphthalmia, severe facial clefting syndrome	1	1	ALX1 (6)	0.00637	1.00000	1.013e-2	1.147e-2	
Desbuquois syndrome	Frontonasal dysplasia, severe microphthalmia, severe facial clefting syndrome	1	1	ALX1 (6)	0.00176	1.00000	3.682e-2	3.867e-2	