

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 "Cervical dysplasia" (7 matching pairs). · Rows: 7 · Generated: 2026-10-11 02:49:48

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Cervical dysplasia	Uterine disease	2	2	MTHFR (2), POU4F1 (2)	0.66667	1.00000	8.436e-9	6.818e-8	204
Ataxia with intention tremor and hypotonia	Cervical dysplasia	1	1	POU4F1 (3)	0.33333	1.00000	1.299e-4	3.931e-4	204
Cervical dysplasia	Microvascular angina	1	1	MTHFR (2)	0.33333	1.00000	1.299e-4	3.931e-4	204
Cervical dysplasia	homocystinuria due to methylene tetrahydrofolate reductase deficiency	1	1	MTHFR (2)	0.33333	1.00000	1.299e-4	3.931e-4	204
Cervical dysplasia	Mitral valve disease	1	0	MTHFR (1)	0.25000	0.50000	2.598e-4	6.509e-4	
Cervical dysplasia	Portal vein thrombosis	1	0	MTHFR (1)	0.20000	0.50000	3.896e-4	8.665e-4	204
Cerebellar dysfunction with variable cognitive and behavioral abnormalities	Cervical dysplasia	1	0	POU4F1 (1)	0.12500	0.50000	7.792e-4	1.405e-3	204