

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 "Partial adenosine deaminase deficiency" (5 matching pairs). · Rows: 5 · Generated: 2026-10-11 02:17:20

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Hyperemia	Partial adenosine deaminase deficiency	1	1	ADA (2)	0.06250	0.50000	1.818e-3	2.677e-3	
Omenn syndrome	Partial adenosine deaminase deficiency	1	1	ADA (3)	0.08333	0.50000	1.298e-3	2.063e-3	
Partial adenosine deaminase deficiency	severe combined immunodeficiency, autosomal recessive, T cell-negative, B cell-negative, NK cell-negative, due to adenosine deaminase deficiency	1	1	ADA (2)	0.33333	1.00000	1.299e-4	3.931e-4	
Partial adenosine deaminase deficiency	Pelvic organ prolapse	2	2	PKIG (2), ADA (2)	0.01429	1.00000	8.091e-5	2.890e-4	
Partial adenosine deaminase deficiency	Severe combined immunodeficiency	2	1	PKIG (1), ADA (7)	0.03846	1.00000	1.076e-5	5.301e-5	