

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: 2026-10-08 03:00:13. Filters applied: disease name contains "Bladder dysfunction" (9 matching pairs). · Rows: 9 · Generated: 2026-10-08 02:57:23

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Bladder dysfunction	Urinary bladder dysfunction	1	1	CHRNA3 (4)	0.50000	1.00000	6.494e-5	2.317e-4	
Bladder dysfunction	Bronchitis	1	1	CHRNA3 (3)	0.02941	1.00000	2.143e-3	3.042e-3	
Bladder dysfunction	Peripheral vascular disease	1	1	CHRNA3 (3)	0.02941	1.00000	2.143e-3	3.042e-3	
Bronchitis	Urinary bladder dysfunction	1	1	CHRNA3 (3)	0.02941	1.00000	2.143e-3	3.042e-3	
Peripheral vascular disease	Urinary bladder dysfunction	1	1	CHRNA3 (3)	0.02941	1.00000	2.143e-3	3.042e-3	
Bladder dysfunction	Vascular disease	1	1	CHRNA3 (3)	0.01887	1.00000	3.377e-3	4.374e-3	
Urinary bladder dysfunction	Vascular disease	1	1	CHRNA3 (3)	0.01887	1.00000	3.377e-3	4.374e-3	
Aortic aneurysm	Bladder dysfunction	1	1	CHRNA3 (3)	0.01587	1.00000	4.026e-3	5.086e-3	
Aortic aneurysm	Urinary bladder dysfunction	1	1	CHRNA3 (3)	0.01587	1.00000	4.026e-3	5.086e-3	