

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 "Gitelman syndrome" (7 matching pairs). · Rows: 7 · Generated: 2026-10-11 20:04:26

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Bartter syndrome	Gitelman syndrome	4	3	CLCNKB (6), SLC12A1 (7), CASR (1), SLC12A3 (5)	0.33333	0.66667	8.068e-13	9.814e-12	
free sialic acid storage disease	Gitelman syndrome	1	1	SLC17A5 (2)	0.14286	1.00000	3.897e-4	8.665e-4	
Genetic renal tubular disease	Gitelman syndrome	1	1	SLC12A3 (5)	0.14286	1.00000	3.897e-4	8.665e-4	
Gitelman syndrome	mucopolysaccharidosis type 1	1	1	IDUA (2)	0.14286	1.00000	3.897e-4	8.665e-4	
Gitelman syndrome	neonatal severe primary hyperparathyroidism	1	1	CASR (2)	0.14286	1.00000	3.897e-4	8.665e-4	
Gitelman syndrome	Hypokalemia-hypomagnesemia	1	1	SLC12A3 (6)	0.14286	1.00000	3.897e-4	8.665e-4	
Gitelman syndrome	Pfaundler-hurler syndrome	1	0	IDUA (1)	0.11111	0.33333	1.169e-3	1.895e-3	