

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: 2026-10-09 03:00:13. Filters applied: disease name contains "Osteogenic sarcoma" (6 matching pairs). · Rows: 6 · Generated: 2026-10-09 07:57:16

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Bone osteosarcoma	Osteogenic sarcoma	2	2	CHEK2 (2), RB1 (2)	0.50000	1.00000	2.531e-8	1.927e-7	4
CHEK2-related cancer predisposition	Osteogenic sarcoma	1	1	CHEK2 (2)	0.33333	1.00000	1.299e-4	3.929e-4	4
Osteogenic sarcoma	Retinoblastoma	1	1	RB1 (5)	0.33333	1.00000	1.299e-4	3.929e-4	4
Male breast neoplasms	Osteogenic sarcoma	1	1	CHEK2 (2)	0.16667	0.50000	5.195e-4	1.060e-3	
Bladder cancer	Osteogenic sarcoma	1	0	RB1 (1)	0.16667	0.50000	5.195e-4	1.060e-3	
Osteogenic sarcoma	Woolly hair	1	1	RB1 (2)	0.12500	0.50000	7.792e-4	1.405e-3	