

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: 2026-10-20 03:00:20. Filters applied: disease name contains "Myelodisplasic proliferative syndrome" (10 matching pairs). · Rows: 10 · Generated: 2026-10-20 03:54:55

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Brain abnormalities neurodegeneration dysosteosclerosis	Myelodisplasic proliferative syndrome	1	1	CSF1R (6)	0.20000	1.00000	2.583e-4	5.384e-4	
CBL-related disorder	Myelodisplasic proliferative syndrome	1	1	CBL (2)	0.20000	1.00000	2.583e-4	5.384e-4	
Early-onset calcifying leukoencephalopathy-skeletal dysplasia	Myelodisplasic proliferative syndrome	1	1	CSF1R (4)	0.20000	1.00000	2.583e-4	5.384e-4	
Growth retardation, mild developmental delay, chronic hepatitis syndrome	Myelodisplasic proliferative syndrome	1	1	SH2B3 (4)	0.20000	1.00000	2.583e-4	5.384e-4	
Juvenile myelomonocytic leukemia	Myelodisplasic proliferative syndrome	1	0	CBL (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Leukoencephalopathy, diffuse hereditary, with spheroids 1	Myelodisplasic proliferative syndrome	1	1	CSF1R (2)	0.20000	1.00000	2.583e-4	5.384e-4	
Myelodisplasic proliferative syndrome	Myelofibrosis with myeloid metaplasia	1	0	MPL (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Myelodisplasic proliferative syndrome	Noonan syndrome-like disorder with or without juvenile myelomonocytic leukemia	1	0	CBL (1)	0.20000	1.00000	2.583e-4	5.384e-4	
Myelodisplasic proliferative syndrome	Thrombocythemia	2	2	SH2B3 (4), MPL (6)	0.22222	0.50000	7.502e-7	4.635e-6	
Myelodisplasic proliferative syndrome	Testicular sertoli cell tumor	4	0	SH2B3 (1), CSF1R (1), MPL (1), CBL (1)	0.18182	1.00000	2.497e-12	2.608e-11	