

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 "Periventricular nodular heterotopia" (14 matching pairs). · Rows: 14 · Generated: 2026-10-11 07:41:19

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Periventricular heterotopia, x-linked	Periventricular nodular heterotopia	6	6	ARFGEF2 (3), FLNA (7), MAP1B (6), NEDD4L (6), ARF1 (6), ERMARD (8)	0.42857	0.85714	3.496e-19	6.366e-18	
Cerebrofacioarticular syndrome	Periventricular nodular heterotopia	2	2	FAT4 (3), DCHS1 (3)	0.15385	1.00000	5.568e-7	3.406e-6	
Periventricular nodular heterotopia	Van maldergem syndrome	2	2	FAT4 (5), DCHS1 (6)	0.15385	1.00000	5.568e-7	3.406e-6	
Periventricular heterotopia, x-linked	periventricular nodular heterotopia 7	1	1	NEDD4L (2)	0.12500	1.00000	4.546e-4	9.726e-4	
BRCA1-related cancer predisposition	Periventricular nodular heterotopia	1	1	BRCA1 (2)	0.07692	1.00000	7.793e-4	1.405e-3	
fanconi anemia, complementation group s	Periventricular nodular heterotopia	1	1	BRCA1 (2)	0.07692	1.00000	7.793e-4	1.405e-3	
FAT4-related neurodevelopmental disorder	Periventricular nodular heterotopia	1	1	FAT4 (3)	0.07692	1.00000	7.793e-4	1.405e-3	
Periventricular heterotopia with microcephaly, autosomal recessive	Periventricular nodular heterotopia	1	1	ARFGEF2 (6)	0.07692	1.00000	7.793e-4	1.405e-3	
Periventricular laminar heterotopia	Periventricular nodular heterotopia	1	1	ARFGEF2 (3)	0.07692	1.00000	7.793e-4	1.405e-3	
Periventricular nodular heterotopia	periventricular nodular heterotopia 7	1	1	NEDD4L (6)	0.07692	1.00000	7.793e-4	1.405e-3	
periventricular nodular heterotopia 7	Syndactyly	1	1	NEDD4L (3)	0.04348	1.00000	1.429e-3	2.226e-3	
Cobblestone lissencephaly	Periventricular nodular heterotopia	1	1	TMTC3 (2)	0.07143	0.50000	1.558e-3	2.376e-3	
Appendicitis	periventricular nodular heterotopia 7	1	1	NEDD4L (2)	0.03226	1.00000	1.948e-3	2.828e-3	
Cleft palate	periventricular nodular heterotopia 7	1	1	NEDD4L (3)	0.01639	1.00000	3.897e-3	4.941e-3	