GeDiPNet Shared-Gene Disease Pairs

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test (P(X>=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: 2026-10-22 03:00:19. Filters applied: disease name contains "Renal hypodysplasia/aplasia" (14 matching pairs). · Rows: 14 · Generated: 2026-10-22 01:20:54

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Renal hypodysplasia/aplasia	Renal hypodysplasia/aplasia 1	1	0	ITGA8 (1)	0.50000	1.00000	6.457e-5	1.985e-4	
Renal agenesis	Renal hypodysplasia/aplasia	1	1	ITGA8 (3)	0.05882	1.00000	1.033e-3	1.574e-3	
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Renal agenesis	Renal hypodysplasia/aplasia 2	1	1	FGF20 (3)	0.05882	1.00000	1.033e-3	1.574e-3	420
Hereditary parkinson disease	Renal hypodysplasia/aplasia 2	1	1	FGF20 (2)	0.03448	1.00000	1.808e-3	2.493e-3	
Inflammatory skin disease	Renal hypodysplasia/aplasia 2	1	1	FGF20 (2)	0.01299	1.00000	4.907e-3	5.889e-3	
Periodontitis	Renal hypodysplasia/aplasia	1	1	ITGA8 (2)	0.00629	1.00000	1.020e-2	1.140e-2	
Periodontitis	Renal hypodysplasia/aplasia 1	1	1	ITGA8 (2)	0.00629	1.00000	1.020e-2	1.140e-2	
Ovarian neoplasms	Renal hypodysplasia/aplasia	1	1	ITGA8 (2)	0.00446	1.00000	1.440e-2	1.582e-2	
Ovarian neoplasms	Renal hypodysplasia/aplasia 1	1	1	ITGA8 (2)	0.00446	1.00000	1.440e-2	1.582e-2	
Kidney failure	Renal hypodysplasia/aplasia	1	1	ITGA8 (2)	0.00392	1.00000	1.640e-2	1.778e-2	
Kidney failure	Renal hypodysplasia/aplasia 1	1	1	ITGA8 (2)	0.00392	1.00000	1.640e-2	1.778e-2	
Eczema	Renal hypodysplasia/aplasia 2	1	1	FGF20 (2)	0.00272	1.00000	2.363e-2	2.523e-2	
Renal hypodysplasia/aplasia 2	Substance abuse	1	1	FGF20 (2)	0.00193	1.00000	3.332e-2	3.495e-2	