

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 "Diabetes insipidus" (25 matching pairs). · Rows: 25 · Generated: 2026-10-11 14:46:52

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Nephrogenic diabetes insipidus	Neurogenic diabetes insipidus	4	4	AVP (5), PRKCA (2), AQP2 (5), AVPR2 (6)	0.80000	1.00000	4.271e-16	6.517e-15	
Arginine vasopressin resistance	Neurogenic diabetes insipidus	2	2	AQP2 (6), AVPR2 (5)	0.40000	1.00000	5.062e-8	3.708e-7	
Arginine vasopressin resistance	Nephrogenic diabetes insipidus	2	2	AQP2 (3), AVPR2 (3)	0.40000	1.00000	5.062e-8	3.708e-7	
Diabetes insipidus	Neurogenic diabetes insipidus	2	2	AVP (3), AQP2 (5)	0.28571	0.50000	3.036e-7	1.951e-6	
Diabetes insipidus	Nephrogenic diabetes insipidus	2	2	AVP (4), AQP2 (2)	0.28571	0.50000	3.036e-7	1.951e-6	
Amnesia	Diabetes insipidus	2	2	AVP (2), POMC (2)	0.09524	0.50000	7.733e-6	3.896e-5	
PRPS1 deficiency disorder	X-linked intellectual disability-limb spasticity-retinal dystrophy-diabetes insipidus syndrome	1	1	PRPS1 (2)	0.50000	1.00000	6.494e-5	2.331e-4	257
Arts syndrome	X-linked intellectual disability-limb spasticity-retinal dystrophy-diabetes insipidus syndrome	1	1	PRPS1 (5)	0.50000	1.00000	6.494e-5	2.331e-4	257
Prpp synthetase superactivity	X-linked intellectual disability-limb spasticity-retinal dystrophy-diabetes insipidus syndrome	1	1	PRPS1 (3)	0.50000	1.00000	6.494e-5	2.331e-4	257
phosphoribosylpyrophosphate synthetase superactivity	X-linked intellectual disability-limb spasticity-retinal dystrophy-diabetes insipidus syndrome	1	1	PRPS1 (2)	0.50000	1.00000	6.494e-5	2.331e-4	257
Ataxia with deafness and vision loss	X-linked intellectual disability-limb spasticity-retinal dystrophy-diabetes insipidus syndrome	1	0	PRPS1 (1)	0.33333	1.00000	1.299e-4	3.931e-4	257
Diabetes insipidus	Eye pain	1	1	POMC (2)	0.20000	1.00000	2.598e-4	6.509e-4	
X-linked intellectual disability-limb spasticity-retinal dystrophy-diabetes insipidus syndrome	X-linked nonsyndromic hearing loss	1	1	PRPS1 (2)	0.20000	1.00000	2.598e-4	6.509e-4	257
Diabetes insipidus	Sacroiliitis	1	1	POMC (2)	0.20000	1.00000	2.598e-4	6.509e-4	
Diabetes insipidus	Rhabdomyoma	1	1	POMC (2)	0.20000	1.00000	2.598e-4	6.509e-4	
Hereditary arginine vasopressin deficiency	Nephrogenic diabetes insipidus	1	1	AVP (3)	0.20000	1.00000	2.598e-4	6.509e-4	
Hereditary arginine vasopressin deficiency	Neurogenic diabetes insipidus	1	1	AVP (4)	0.20000	1.00000	2.598e-4	6.509e-4	
Diabetes insipidus	Hereditary arginine vasopressin deficiency	1	1	AVP (3)	0.20000	1.00000	2.598e-4	6.509e-4	

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Arginine vasopressin deficiency	Nephrogenic diabetes insipidus	1	1	AVP (3)	0.20000	1.00000	2.598e-4	6.509e-4	
Arginine vasopressin deficiency	Diabetes insipidus	1	1	AVP (2)	0.20000	1.00000	2.598e-4	6.509e-4	
Arginine vasopressin deficiency	Neurogenic diabetes insipidus	1	1	AVP (3)	0.20000	1.00000	2.598e-4	6.509e-4	
Arginine vasopressin resistance	Diabetes insipidus	1	1	AQP2 (2)	0.16667	0.50000	5.195e-4	1.061e-3	
Neurogenic diabetes insipidus	Shy-drager syndrome	1	1	AVP (3)	0.14286	0.33333	7.792e-4	1.405e-3	
Diabetes insipidus	Shy-drager syndrome	1	1	AVP (2)	0.14286	0.33333	7.792e-4	1.405e-3	
Nephrogenic diabetes insipidus	Shy-drager syndrome	1	1	AVP (4)	0.14286	0.33333	7.792e-4	1.405e-3	