

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 "Huntington disease" (16 matching pairs). · Rows: 16 · Generated: 2026-10-11 05:52:08

Disease A	Disease B	Shared Genes	Corroborated Shared Genes	Shared Gene Names	Similarity Score	Overlap Coefficient	P-value	FDR Q-value	Shared Cluster
Huntington disease	Mood disorder	12	5	GRIK2 (1), NRF1 (2), BDNF (1), GLUL (1), MAOA (2), MAOB (2), NPY (1), PRNP (6), SIRT1 (1), GRIN2A (1), HTT (8), NPY2R (1)	0.03448	0.19672	1.654e-9	1.471e-8	
Bowen's disease	Huntington disease	3	3	NRF1 (2), TFAM (2), PPARGC1A (2)	0.04762	0.75000	2.360e-7	1.551e-6	
Huntington disease	Hypotension	5	5	GRIN2B (2), MAOA (2), MAOB (2), IL6 (2), CNR1 (2)	0.04032	0.08197	6.604e-6	3.351e-5	
Dementia in huntington's disease	Huntington disease	2	2	PRNP (6), JPH3 (6)	0.03226	1.00000	1.544e-5	7.431e-5	
Huntington disease	Interstitial nephritis	2	2	FAN1 (4), MTMR10 (2)	0.03226	1.00000	1.544e-5	7.431e-5	
Hepatic encephalopathy	Huntington disease	3	3	GLUL (2), MAOA (2), MAOB (2)	0.04110	0.21429	2.087e-5	9.881e-5	57
Huntington disease	Pheochromocytoma	3	3	MAOA (2), MAOB (2), GDNF (2)	0.04000	0.18750	3.193e-5	1.475e-4	
Cerebellar-facial-dental syndrome	Huntington disease	1	1	BRF1 (6)	0.01613	1.00000	3.962e-3	5.015e-3	
Congenital brain dysgenesis due to glutamine synthetase deficiency	Huntington disease	1	1	GLUL (5)	0.01613	1.00000	3.962e-3	5.015e-3	57
dilated cardiomyopathy 1V	Huntington disease	1	1	PSEN2 (2)	0.01613	1.00000	3.962e-3	5.015e-3	
Gastroschisis	Huntington disease	1	1	ADD1 (2)	0.01613	1.00000	3.962e-3	5.015e-3	
Huntington disease	hyper-IgE recurrent infection syndrome 5, autosomal recessive	1	1	IL6R (2)	0.01613	1.00000	3.962e-3	5.015e-3	
Huntington disease	Interleukin 6 quantitative trait	1	1	IL6R (3)	0.01613	1.00000	3.962e-3	5.015e-3	
Huntington disease	karyomegalic interstitial nephritis	1	1	FAN1 (2)	0.01613	1.00000	3.962e-3	5.015e-3	
Huntington disease	Rib fracture	1	0	TENM2 (1)	0.01587	0.50000	7.908e-3	9.192e-3	
Huntington disease	Salt-sensitive hypertension	1	1	ADD1 (2)	0.01563	0.33333	1.184e-2	1.326e-2	