

GeDiPNet Cluster 2 -- Pairs Within Cluster

Similarity: Jaccard index on shared curated genes (disease_gdp). Significance: upper-tail hypergeometric test, Benjamini-Hochberg FDR-corrected across all tested pairs. See scripts/build_related.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-08 03:00:13. · Rows: 205 · Generated: 2026-10-08 11:14:54

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
Diabetes mellitus type 2	Metabolic syndrome	0.38646	1222	<1e-300	<1e-300
Attention deficit hyperactivity disorder	Substance abuse	0.37808	445	<1e-300	<1e-300
Bipolar disorder	Major depressive disorder	0.29256	720	<1e-300	<1e-300
Bipolar disorder	Schizophrenia	0.24942	751	1.236e-309	1.437e-306
Congestive heart failure	Heart failure	0.36268	173	1.014e-267	9.218e-265
Major depressive disorder	Schizophrenia	0.25160	905	1.917e-248	1.294e-245
Attention deficit hyperactivity disorder	Autism	0.24106	499	1.995e-238	1.265e-235
Coronary artery disease	Myocardial infarction	0.23231	325	1.904e-223	9.957e-221
Depression	Major depressive disorder	0.12281	245	4.042e-184	1.127e-181
Major depressive disorder	Mood disorder	0.11943	241	2.232e-163	4.915e-161
Attention deficit hyperactivity disorder	Schizophrenia	0.17873	553	2.308e-161	4.877e-159
Autism	Schizophrenia	0.19445	652	2.317e-159	4.705e-157
Attention deficit hyperactivity disorder	Major depressive disorder	0.18287	474	3.771e-152	7.171e-150
Cardiovascular disease	Hypertension	0.16153	220	5.382e-135	8.796e-133
Major depressive disorder	Neurotic disorder	0.12594	268	3.729e-132	5.910e-130
Alzheimer disease	Dementia	0.13449	333	8.537e-132	1.343e-129
Attention deficit hyperactivity disorder	Bipolar disorder	0.17713	350	1.737e-130	2.711e-128
Autism	Major depressive disorder	0.17381	507	7.076e-118	1.028e-115
Autism	Bipolar disorder	0.16899	388	1.309e-117	1.889e-115
Bipolar depression	Bipolar disorder	0.08333	102	1.322e-109	1.761e-107
Cardiovascular disease	Coronary artery disease	0.13709	190	1.368e-101	1.590e-99
Alzheimer disease	Gastroesophageal reflux disease	0.08185	189	1.565e-93	1.495e-91
Bipolar disorder	Mood disorder	0.11038	151	3.754e-87	3.245e-85
Coronary artery disease	Hypertension	0.14193	285	7.573e-83	6.286e-81
Attention deficit hyperactivity disorder	Metabolic syndrome	0.14171	299	2.425e-82	1.982e-80
Diabetes mellitus type 2	Schizophrenia	0.18608	882	2.653e-82	2.159e-80
Coronary artery disease	Diabetes mellitus type 2	0.13366	498	7.272e-80	5.741e-78
Insomnia	Major depressive disorder	0.13433	360	1.383e-75	1.056e-73
Atrial fibrillation	Heart failure	0.12669	150	2.290e-74	1.735e-72
Attention deficit hyperactivity disorder	Insomnia	0.13389	258	5.862e-74	4.395e-72

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
Coronary artery disease	Stroke	0.10467	139	3.708e-72	2.722e-70
Metabolic syndrome	Schizophrenia	0.13791	466	1.270e-70	9.226e-69
Hypertension	Myocardial infarction	0.11613	180	1.553e-66	1.076e-64
Coronary artery disease	Heart failure	0.11081	161	1.562e-66	1.078e-64
Insomnia	Metabolic syndrome	0.12671	268	2.019e-64	1.341e-62
Diabetes mellitus type 2	Obesity	0.12708	482	4.610e-64	3.042e-62
Coronary artery disease	Metabolic syndrome	0.12713	276	1.167e-63	7.631e-62
Diabetes mellitus type 2	Hypertension	0.12410	467	5.122e-63	3.297e-61
Insomnia	Schizophrenia	0.12244	395	2.682e-62	1.710e-60
Major depressive disorder	Obesity	0.12840	359	6.213e-62	3.938e-60
Bipolar disorder	Depression	0.08932	123	6.307e-62	3.986e-60
Cannabis abuse	Substance abuse	0.10858	62	8.531e-61	5.279e-59
Diabetes mellitus type 2	Major depressive disorder	0.15540	678	7.589e-60	4.669e-58
Major depressive disorder	Substance abuse	0.09215	209	8.411e-59	5.070e-57
Diabetes mellitus type 2	Insomnia	0.11768	438	1.095e-58	6.580e-57
Heart failure	Stroke	0.12306	87	2.621e-58	1.562e-56
Insomnia	Neurotic disorder	0.10102	139	3.555e-56	2.054e-54
Metabolic syndrome	Obesity	0.12018	268	1.008e-54	5.698e-53
Cardiovascular disease	Myocardial infarction	0.11319	103	2.870e-54	1.614e-52
Depression	Mood disorder	0.12891	66	1.745e-53	9.732e-52
Obesity	Schizophrenia	0.12058	402	3.189e-52	1.733e-50
Alzheimer disease	Schizophrenia	0.15087	624	4.237e-51	2.273e-49
Insomnia	Substance abuse	0.09993	145	8.924e-51	4.750e-49
Attention deficit hyperactivity disorder	Neurotic disorder	0.09524	134	9.152e-51	4.859e-49
Metabolic syndrome	Substance abuse	0.09441	157	5.384e-49	2.760e-47
Cardiovascular disease	Heart failure	0.10798	88	5.250e-48	2.615e-46
Hypertension	Major depressive disorder	0.11510	321	3.889e-47	1.910e-45
Mood disorder	Neurotic disorder	0.10876	72	6.271e-47	3.065e-45
Bipolar disorder	Obesity	0.10932	238	6.845e-44	3.156e-42
Atrial fibrillation	Coronary artery disease	0.10093	184	1.259e-41	5.520e-40
Diabetes mellitus type 2	Gout	0.09060	324	3.561e-40	1.505e-38
Neurotic disorder	Post-traumatic stress disorder	0.09605	56	6.952e-40	2.908e-38
Anxiety disorder	Mood disorder	0.10697	43	3.400e-39	1.389e-37
Gout	Metabolic syndrome	0.09716	188	4.528e-39	1.846e-37

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
Alzheimer disease	Diabetes mellitus type 2	0.14747	681	6.259e-39	2.542e-37
Alzheimer disease	Major depressive disorder	0.12885	477	2.092e-36	7.998e-35
Atrial fibrillation	Metabolic syndrome	0.09555	189	2.815e-36	1.074e-34
Bipolar depression	Mood disorder	0.09783	36	1.293e-35	4.789e-34
Atrial fibrillation	Hypertension	0.09402	173	4.260e-35	1.547e-33
Color vision deficiency	Scoliosis	0.09469	173	1.167e-34	4.173e-33
Diabetes mellitus type 2	Osteoarthritis	0.07991	282	8.671e-33	2.916e-31
Post-traumatic stress disorder	Substance abuse	0.07946	53	1.353e-32	4.529e-31
Color vision deficiency	Major depressive disorder	0.09502	254	3.401e-32	1.124e-30
Attention deficit hyperactivity disorder	Scoliosis	0.09356	183	4.005e-32	1.315e-30
Major depressive disorder	Scoliosis	0.09751	266	4.049e-32	1.328e-30
Insomnia	Willis-ekbom disease	0.05653	68	6.499e-31	2.038e-29
Alzheimer disease	Metabolic syndrome	0.10511	335	1.534e-29	4.604e-28
Gout	Hypertension	0.08664	157	1.800e-29	5.388e-28
Coronary artery disease	Gout	0.08633	156	3.232e-29	9.616e-28
Gastroesophageal reflux disease	Post-traumatic stress disorder	0.08539	38	8.581e-28	2.422e-26
Coronary artery disease	Venous thromboembolism	0.06447	90	2.682e-27	7.382e-26
Dementia	Major depressive disorder	0.07185	171	8.268e-27	2.237e-25
Irritable bowel syndrome	Neurotic disorder	0.06942	37	1.322e-26	3.564e-25
Atrial fibrillation	Obstructive pulmonary disease	0.07640	101	1.696e-26	4.555e-25
Anxiety disorder	Neurotic disorder	0.06985	38	2.924e-26	7.617e-25
Gastroesophageal reflux disease	Obstructive pulmonary disease	0.07152	56	3.165e-26	8.224e-25
Color vision deficiency	Schizophrenia	0.08843	285	1.320e-25	3.339e-24
Mood disorder	Post-traumatic stress disorder	0.07957	37	1.342e-25	3.386e-24
Bipolar depression	Depression	0.07843	28	3.058e-25	7.597e-24
Metabolic syndrome	Willis-ekbom disease	0.04692	67	3.245e-25	8.033e-24
Coronary artery disease	Migraine	0.06538	95	8.954e-25	2.173e-23
Schizophrenia	Scoliosis	0.09060	297	1.101e-24	2.653e-23
Attention deficit hyperactivity disorder	Color vision deficiency	0.08368	160	1.114e-24	2.682e-23
Metabolic syndrome	Osteoarthritis	0.07847	148	1.184e-24	2.841e-23
Parkinson disease	Schizophrenia	0.06300	182	1.263e-24	3.013e-23
Color vision deficiency	Obesity	0.08375	167	4.278e-24	9.966e-23
Dementia	Obesity	0.07272	121	6.311e-24	1.451e-22
Endometriosis	Migraine	0.07133	52	3.129e-23	6.972e-22

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
Gastroesophageal reflux disease	Substance abuse	0.06702	50	9.361e-23	2.012e-21
Hypertension	Migraine	0.06148	90	1.270e-21	2.613e-20
Anxiety disorder	Post-traumatic stress disorder	0.07692	25	5.263e-21	1.052e-19
Endometriosis	Major depressive disorder	0.05223	116	7.822e-21	1.557e-19
Dementia	Scoliosis	0.06912	105	8.940e-21	1.778e-19
Oligodendroglioma	Scoliosis	0.06769	101	1.672e-20	3.282e-19
Color vision deficiency	Oligodendroglioma	0.06788	97	1.683e-20	3.300e-19
Diabetes mellitus type 2	Scoliosis	0.08606	326	5.547e-20	1.062e-18
Obesity	Osteoarthritis	0.07242	130	6.224e-20	1.189e-18
Anxiety disorder	Depression	0.06767	27	7.523e-20	1.431e-18
Coronary artery disease	Osteoarthritis	0.07208	126	9.204e-20	1.746e-18
Major depressive disorder	Parkinson disease	0.06048	142	5.085e-19	9.193e-18
Color vision deficiency	Dementia	0.06644	97	8.194e-19	1.469e-17
Alzheimer disease	Parkinson disease	0.05896	153	1.374e-18	2.437e-17
Bipolar disorder	Parkinson disease	0.06254	103	4.429e-18	7.701e-17
Hypertension	Osteoarthritis	0.06940	122	8.160e-18	1.391e-16
Migraine	Myocardial infarction	0.06028	56	1.855e-17	3.115e-16
Substance abuse	Willis-ekbom disease	0.05357	36	2.057e-17	3.451e-16
Major depressive disorder	Oligodendroglioma	0.06016	143	3.730e-17	6.158e-16
Cannabis abuse	Post-traumatic stress disorder	0.06667	20	4.549e-17	7.475e-16
Metabolic syndrome	Oligodendroglioma	0.06154	108	1.397e-16	2.231e-15
Dementia	Oligodendroglioma	0.06089	66	2.220e-16	3.495e-15
Migraine	Stroke	0.05814	40	2.391e-16	3.752e-15
Irritable bowel syndrome	Obstructive pulmonary disease	0.04518	30	6.274e-16	9.530e-15
Stroke	Venous thromboembolism	0.05380	34	4.349e-14	5.809e-13
Anxiety disorder	Cannabis abuse	0.06048	15	2.635e-13	3.367e-12
Anxiety disorder	Bipolar depression	0.05882	14	1.107e-12	1.340e-11
Irritable bowel syndrome	Post-traumatic stress disorder	0.05296	17	2.043e-12	2.379e-11
Endometriosis	Hypertension	0.04592	67	1.617e-11	1.762e-10
Anxiety disorder	Panic disorder	0.05233	9	2.071e-11	2.216e-10
Gastroesophageal reflux disease	Irritable bowel syndrome	0.04545	18	3.572e-11	3.721e-10
Myocardial infarction	Venous thromboembolism	0.04649	41	5.124e-11	5.283e-10
Hypertension	Venous thromboembolism	0.04190	60	3.599e-10	3.429e-9
Bipolar depression	Panic disorder	0.05263	7	2.590e-9	2.252e-8

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
Panic disorder	Pemphigus foliaceus	0.02857	1	2.208e-3	3.111e-3
Color vision deficiency	Ear disorder	0.00207	2	3.932e-3	4.985e-3
Congestive heart failure	phosphoenolpyruvate carboxykinase deficiency, cytosolic	0.00556	1	1.162e-2	1.305e-2
Congestive heart failure	Yoon-bellen neurodevelopmental syndrome	0.00556	1	1.162e-2	1.305e-2
3-methylcrotonyl-coa carboxylase deficiency	Cannabis abuse	0.00847	1	1.501e-2	1.662e-2
Irritable bowel syndrome	Patellar tendinitis	0.00735	1	1.733e-2	1.900e-2
Alopecia-neurological defects-endocrinopathy syndrome	Depression	0.00357	1	1.812e-2	1.980e-2
Alzheimer disease	Developmental delay with language and ocular abnormalities	0.00090	2	2.074e-2	2.254e-2
Intellectual developmental disorder growth metabolic	Venous thromboembolism	0.00292	1	2.221e-2	2.404e-2
Migraine	Trichilemmal cyst	0.00247	1	2.624e-2	2.802e-2
Cardiovascular disease	Midline facial cleft	0.00231	1	2.806e-2	2.988e-2
Heart failure	phosphoenolpyruvate carboxykinase deficiency, cytosolic	0.00212	1	3.052e-2	3.241e-2
Heart failure	Yoon-bellen neurodevelopmental syndrome	0.00212	1	3.052e-2	3.241e-2
Childhood-onset motor and cognitive regression syndrome with extrapyramidal movement disorder	Parkinson disease	0.00189	1	3.436e-2	3.633e-2
Diabetes deafness developmental delay and short stature syndrome	Parkinson disease	0.00189	1	3.436e-2	3.633e-2
inherited interstitial lung disease	Parkinson disease	0.00189	1	3.436e-2	3.633e-2
Parkinson disease	Partial deletion of short arm of chromosome 3	0.00189	1	3.436e-2	3.633e-2
neurodevelopmental disorder with spasticity, seizures, and brain abnormalities	Obstructive pulmonary disease	0.00179	1	3.630e-2	3.832e-2
Dementia	Sedoheptulokinase deficiency	0.00169	1	3.832e-2	4.015e-2
Congenital lactase deficiency	Osteoarthritis	0.00137	1	4.741e-2	4.920e-2
Cranioleptocutaneous dysplasia	Osteoarthritis	0.00137	1	4.741e-2	4.920e-2
Osteoarthritis	Pemphigus foliaceus	0.00137	1	4.741e-2	4.920e-2
Osteoarthritis	retinitis pigmentosa 18	0.00137	1	4.741e-2	4.920e-2
Osteoarthritis	SNUPN-related muscular dystrophy with or without multi-system involvement	0.00137	1	4.741e-2	4.920e-2
Atrial fibrillation	band heterotopia of brain	0.00116	1	5.605e-2	5.764e-2
Atrial fibrillation	Hemorrhagic destruction of the brain subependymal calcification and cataracts	0.00116	1	5.605e-2	5.764e-2
band heterotopia of brain	Color vision deficiency	0.00103	1	6.274e-2	6.418e-2
Color vision deficiency	phosphoenolpyruvate carboxykinase deficiency, cytosolic	0.00103	1	6.274e-2	6.418e-2
3-methylcrotonyl-coa carboxylase deficiency	Substance abuse	0.00193	1	6.590e-2	6.737e-2
Partial deletion of short arm of chromosome 3	Scoliosis	0.00097	1	6.709e-2	6.853e-2
3-methylcrotonyl-coa carboxylase deficiency	Parkinson disease	0.00188	1	6.753e-2	6.897e-2
Cranioleptocutaneous dysplasia	Insomnia	0.00093	1	7.007e-2	7.143e-2
Insomnia	Oculocerebrodental syndrome	0.00093	1	7.007e-2	7.143e-2
Attention deficit hyperactivity disorder	retinitis pigmentosa 18	0.00090	1	7.176e-2	7.308e-2

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
band heterotopia of brain	Coronary artery disease	0.00087	1	7.423e-2	7.553e-2
Coronary artery disease	Intellectual developmental disorder growth metabolic	0.00087	1	7.423e-2	7.553e-2
Hypertension	opsismodysplasia	0.00087	1	7.462e-2	7.588e-2
Birk-aharoni syndrome	Dementia	0.00169	1	7.517e-2	7.644e-2
Obesity	opsismodysplasia	0.00084	1	7.754e-2	7.875e-2
Bipolar disorder	inherited interstitial lung disease	0.00082	1	7.923e-2	8.035e-2
Bipolar disorder	Oculocerebrodental syndrome	0.00082	1	7.923e-2	8.035e-2
Bipolar disorder	retinitis pigmentosa 18	0.00082	1	7.923e-2	8.035e-2
Metabolic syndrome	Midline facial cleft	0.00077	1	8.462e-2	8.572e-2
Metabolic syndrome	opsismodysplasia	0.00077	1	8.462e-2	8.572e-2
Autism	Deafness, y-linked	0.00068	1	9.501e-2	9.603e-2
Autism	Hemorrhagic destruction of the brain subependymal calcification and cataracts	0.00068	1	9.501e-2	9.603e-2
Autism	retinitis pigmentosa 18	0.00068	1	9.501e-2	9.603e-2
band heterotopia of brain	Major depressive disorder	0.00051	1	1.273e-1	1.284e-1
Major depressive disorder	Vibratory urticaria	0.00051	1	1.273e-1	1.284e-1
Major depressive disorder	Yoon-bellen neurodevelopmental syndrome	0.00051	1	1.273e-1	1.284e-1
Major depressive disorder	Zinc deficiency	0.00051	1	1.273e-1	1.284e-1
Ear disorder	Scoliosis	0.00097	1	1.297e-1	1.308e-1
Coronary artery disease	Ear disorder	0.00087	1	1.430e-1	1.442e-1
Alzheimer disease	Vacuolar neuromyopathy	0.00045	1	1.440e-1	1.450e-1
Bipolar disorder	Birk-aharoni syndrome	0.00082	1	1.522e-1	1.532e-1
Auroneurodental syndrome	Metabolic syndrome	0.00077	1	1.621e-1	1.631e-1
Glyoxalase ii deficiency	Schizophrenia	0.00039	1	1.650e-1	1.656e-1
Hemorrhagic destruction of the brain subependymal calcification and cataracts	Schizophrenia	0.00039	1	1.650e-1	1.656e-1
hydroxyprolinemia	Schizophrenia	0.00039	1	1.650e-1	1.656e-1
Oculocerebrodental syndrome	Schizophrenia	0.00039	1	1.650e-1	1.656e-1
Phosphoribosylaminoimidazole carboxylase deficiency	Schizophrenia	0.00039	1	1.650e-1	1.656e-1
Alopecia-neurological defects-endocrinopathy syndrome	Diabetes mellitus type 2	0.00032	1	2.000e-1	2.002e-1
Diabetes mellitus type 2	Midline facial cleft	0.00032	1	2.000e-1	2.002e-1
Diabetes mellitus type 2	Oculocerebrodental syndrome	0.00032	1	2.000e-1	2.002e-1
Diabetes mellitus type 2	opsismodysplasia	0.00032	1	2.000e-1	2.002e-1
Diabetes mellitus type 2	pterin-4 alpha-carbinolamine dehydratase 1 deficiency	0.00032	1	2.000e-1	2.002e-1
Diabetes mellitus type 2	siddiqi syndrome	0.00032	1	2.000e-1	2.002e-1
Diabetes mellitus type 2	SNUPN-related muscular dystrophy with or without multi-system involvement	0.00032	1	2.000e-1	2.002e-1

Disease A	Disease B	Similarity Score	Shared Genes	P-value	FDR Q-value
Diabetes mellitus type 2	Warsaw breakage syndrome	0.00032	1	2.000e-1	2.002e-1
Birk-aharoni syndrome	Major depressive disorder	0.00051	1	2.384e-1	2.386e-1
Alzheimer disease	Ear disorder	0.00045	1	2.673e-1	2.675e-1
Ear disorder	Schizophrenia	0.00039	1	3.028e-1	3.030e-1
Auroneurodental syndrome	Diabetes mellitus type 2	0.00032	1	3.601e-1	3.601e-1