

## GeDiPNet Cluster 50 -- 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: 2026-10-07 03:00:12. · Rows: 36 · Generated: 2026-10-07 07:45:31

| Disease A                                               | Disease B                                               | Similarity Score | Shared Genes | P-value   | FDR Q-value |
|---------------------------------------------------------|---------------------------------------------------------|------------------|--------------|-----------|-------------|
| Marfan syndrome                                         | Thoracic aortic aneurysm and aortic dissection          | 0.49123          | 28           | 4.645e-67 | 3.412e-65   |
| Aneurysm                                                | Aortic aneurysm                                         | 0.36364          | 24           | 5.637e-57 | 3.460e-55   |
| Aortic aneurysm                                         | Thoracic aortic aneurysm and aortic dissection          | 0.28395          | 23           | 1.480e-46 | 7.604e-45   |
| Congenital contractural arachnodactyly                  | Thoracic aortic aneurysm and aortic dissection          | 0.33962          | 18           | 1.880e-41 | 8.632e-40   |
| Congenital contractural arachnodactyly                  | Marfan syndrome                                         | 0.32727          | 18           | 5.651e-41 | 2.568e-39   |
| Aortic aneurysm                                         | Marfan syndrome                                         | 0.23256          | 20           | 3.654e-38 | 1.540e-36   |
| Loeys-dietz syndrome                                    | Marfan syndrome                                         | 0.30435          | 14           | 1.951e-35 | 7.531e-34   |
| Ehlers-danlos syndrome                                  | Thoracic aortic aneurysm and aortic dissection          | 0.24638          | 17           | 2.333e-34 | 8.699e-33   |
| familial thoracic aortic aneurysm and aortic dissection | Thoracic aortic aneurysm and aortic dissection          | 0.28571          | 12           | 2.139e-32 | 7.494e-31   |
| Loeys-dietz syndrome                                    | Thoracic aortic aneurysm and aortic dissection          | 0.28889          | 13           | 2.246e-32 | 7.857e-31   |
| Ehlers-danlos syndrome                                  | Marfan syndrome                                         | 0.20548          | 15           | 6.730e-29 | 2.089e-27   |
| familial thoracic aortic aneurysm and aortic dissection | Marfan syndrome                                         | 0.24444          | 11           | 2.392e-28 | 7.281e-27   |
| Congenital aneurysm of ascending aorta                  | Thoracic aortic aneurysm and aortic dissection          | 0.22727          | 10           | 3.581e-25 | 9.317e-24   |
| Congenital contractural arachnodactyly                  | Loeys-dietz syndrome                                    | 0.27778          | 10           | 7.739e-25 | 1.983e-23   |
| Aortic aneurysm                                         | Congenital contractural arachnodactyly                  | 0.16456          | 13           | 1.230e-24 | 3.099e-23   |
| Congenital contractural arachnodactyly                  | Ehlers-danlos syndrome                                  | 0.19355          | 12           | 2.869e-24 | 7.095e-23   |
| Aortic aneurysm                                         | Congenital aneurysm of ascending aorta                  | 0.15385          | 10           | 3.426e-23 | 8.014e-22   |
| Ehlers-danlos syndrome                                  | Loeys-dietz syndrome                                    | 0.19608          | 10           | 9.536e-23 | 2.158e-21   |
| Congenital aneurysm of ascending aorta                  | Loeys-dietz syndrome                                    | 0.26087          | 6            | 3.988e-16 | 6.495e-15   |
| Congenital contractural arachnodactyly                  | familial thoracic aortic aneurysm and aortic dissection | 0.16667          | 6            | 2.355e-14 | 3.390e-13   |
| Congenital aneurysm of ascending aorta                  | familial thoracic aortic aneurysm and aortic dissection | 0.25000          | 5            | 8.678e-14 | 1.195e-12   |
| familial thoracic aortic aneurysm and aortic dissection | Loeys-dietz syndrome                                    | 0.20833          | 5            | 4.779e-13 | 6.292e-12   |
| Ehlers-danlos syndrome                                  | Keratoconus                                             | 0.05405          | 8            | 8.069e-10 | 7.786e-9    |
| Marfan syndrome                                         | Mitral valve prolapse                                   | 0.05814          | 5            | 1.879e-7  | 1.320e-6    |
| Ehlers-danlos syndrome                                  | Mitral valve prolapse                                   | 0.05747          | 5            | 2.115e-7  | 1.481e-6    |
| Keratoconus                                             | Thoracic aortic aneurysm and aortic dissection          | 0.04082          | 6            | 4.485e-7  | 2.971e-6    |
| Keratoconus                                             | Marfan syndrome                                         | 0.03333          | 5            | 1.376e-5  | 7.048e-5    |
| Loeys-dietz syndrome                                    | loeys-dietz syndrome 6                                  | 0.05882          | 1            | 1.039e-3  | 1.720e-3    |
| Aneurysm                                                | neonatal/infantile epilepsy syndrome                    | 0.03571          | 1            | 1.753e-3  | 2.593e-3    |
| Boudin-mortier syndrome                                 | Congenital contractural arachnodactyly                  | 0.03333          | 1            | 1.883e-3  | 2.746e-3    |

| Disease A                              | Disease B                                          | Similarity Score | Shared Genes | P-value  | FDR Q-value |
|----------------------------------------|----------------------------------------------------|------------------|--------------|----------|-------------|
| Congenital contractural arachnodactyly | loeys-dietz syndrome 6                             | 0.03333          | 1            | 1.883e-3 | 2.746e-3    |
| Boudin-mortier syndrome                | Marfan syndrome                                    | 0.02273          | 1            | 2.793e-3 | 3.736e-3    |
| Ehlers-danlos syndrome                 | ehlers-danlos syndrome, musculocontractural type 2 | 0.02222          | 1            | 2.858e-3 | 3.796e-3    |
| Aneurysm                               | Vitreous body disease                              | 0.03448          | 1            | 3.504e-3 | 4.511e-3    |
| Aortic aneurysm                        | neonatal/infantile epilepsy syndrome               | 0.01587          | 1            | 4.026e-3 | 5.083e-3    |
| Aortic aneurysm                        | Vitreous body disease                              | 0.01563          | 1            | 8.037e-3 | 9.341e-3    |