



HALA ALBAHLOUL

Diseases Genes

The association between
diseases and genes

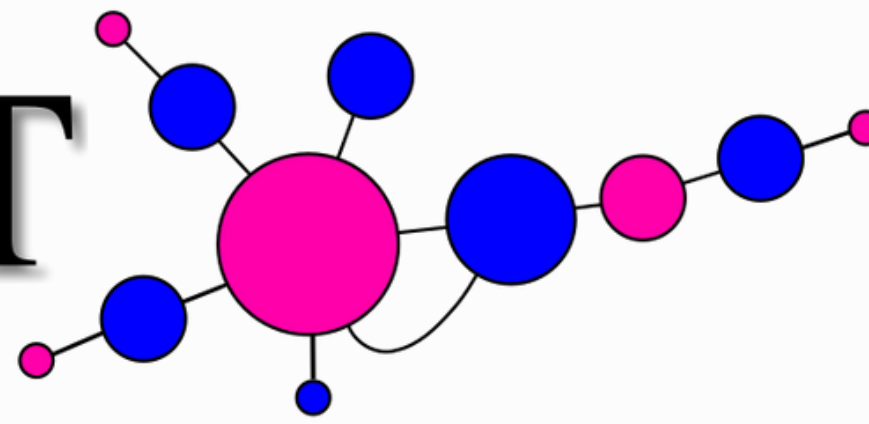


How are
diseases related?

What diseases are
you likely to get?

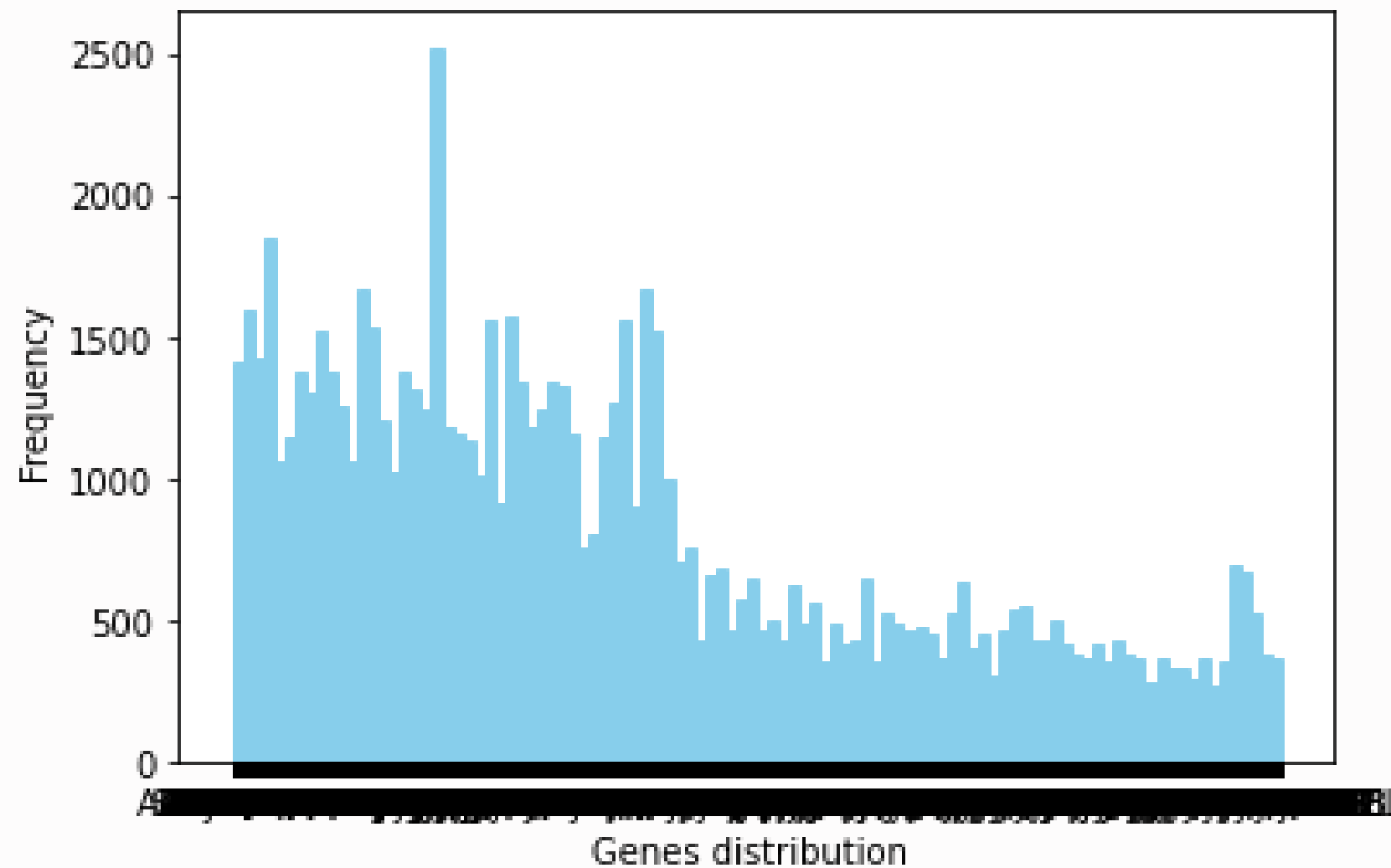
Based on Genes in common

DisGeNET



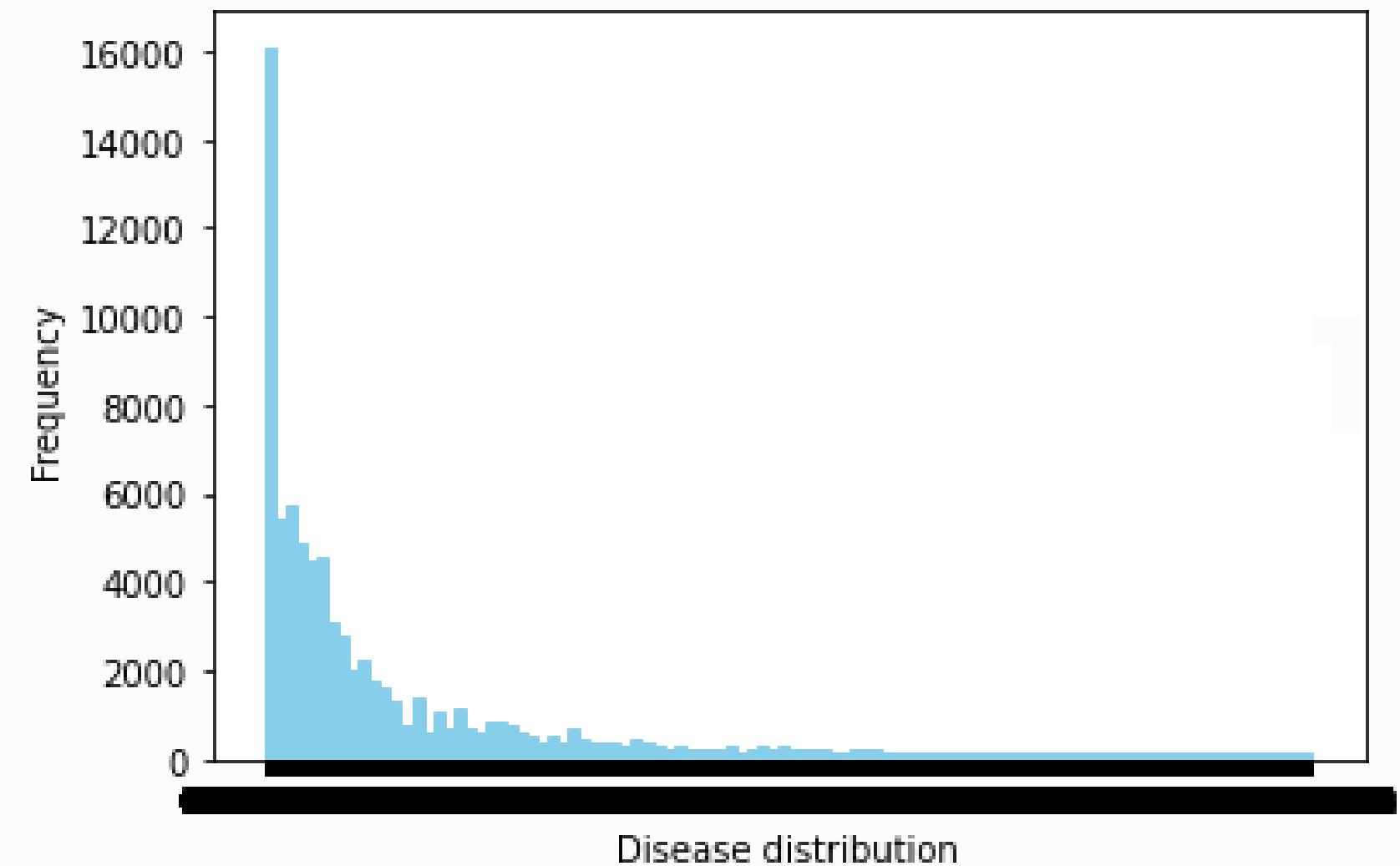
9411

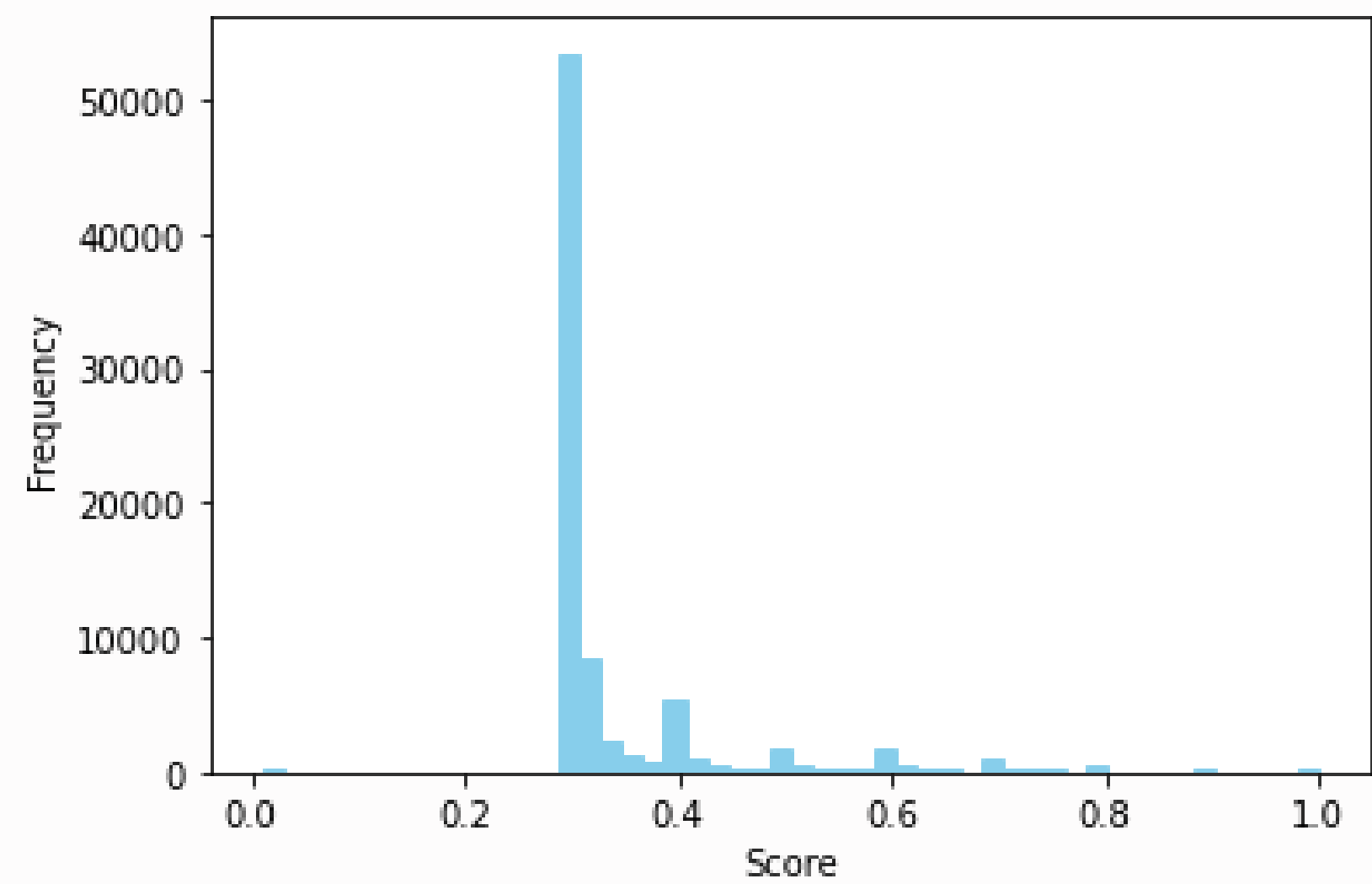
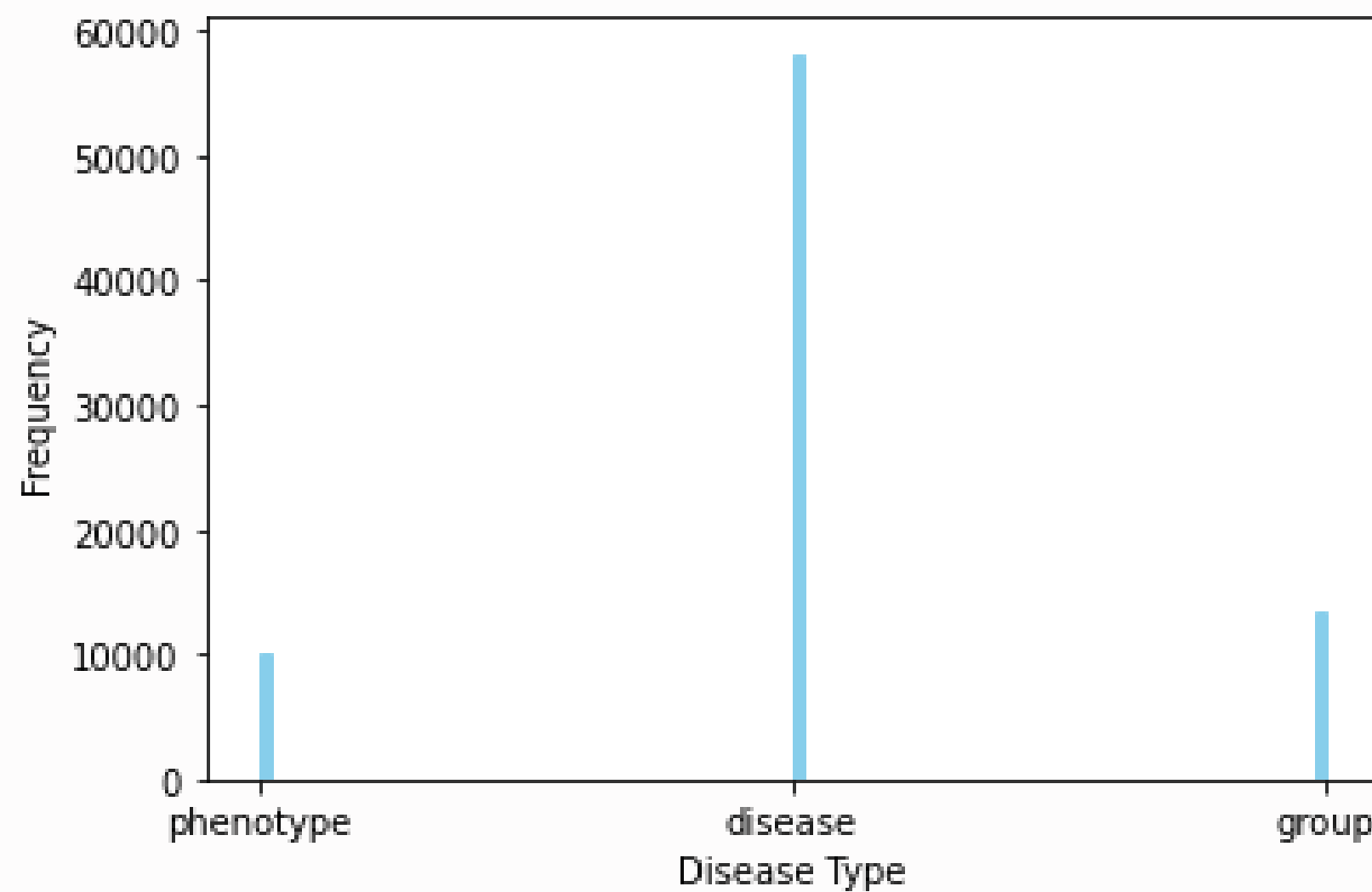
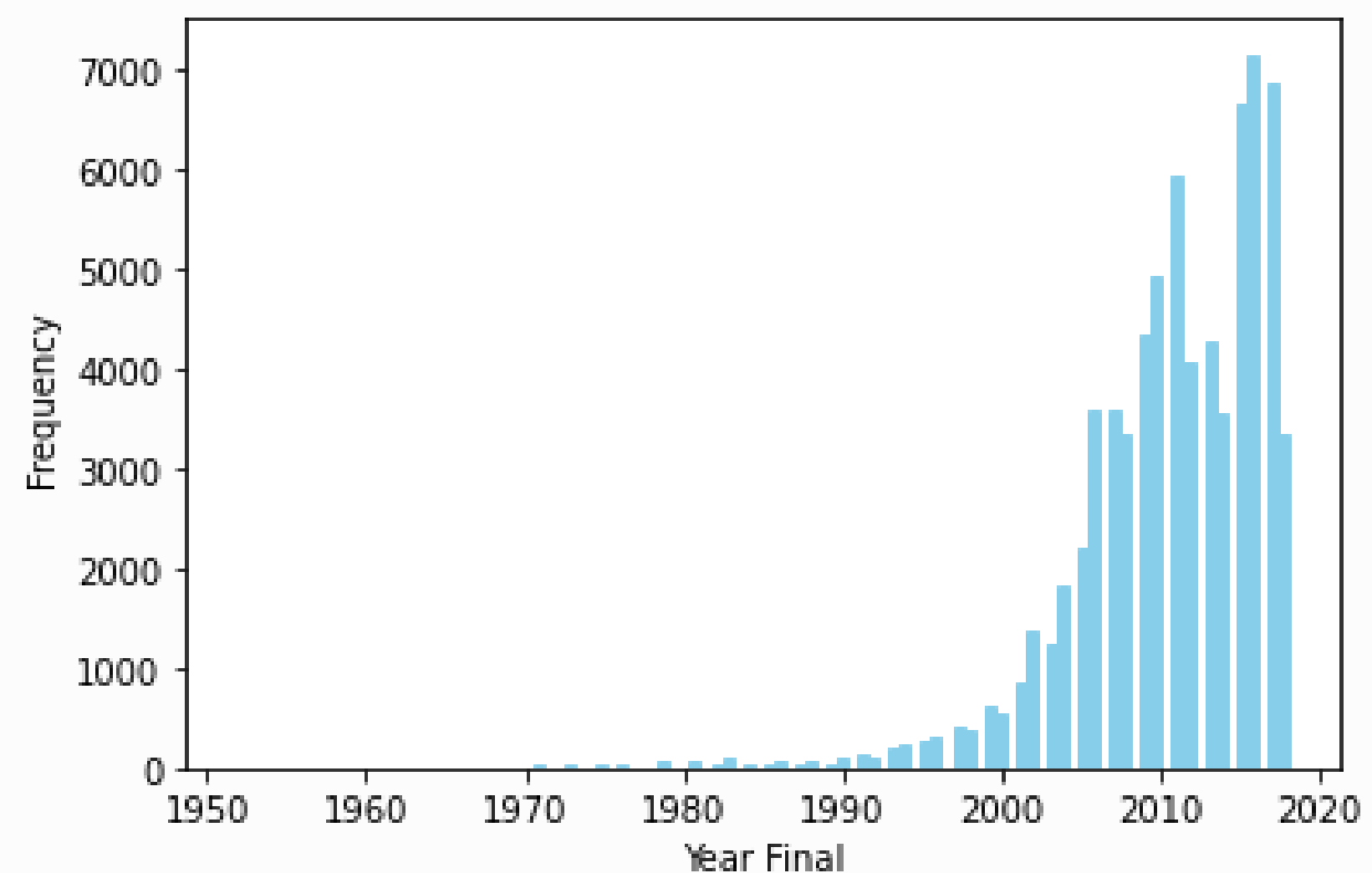
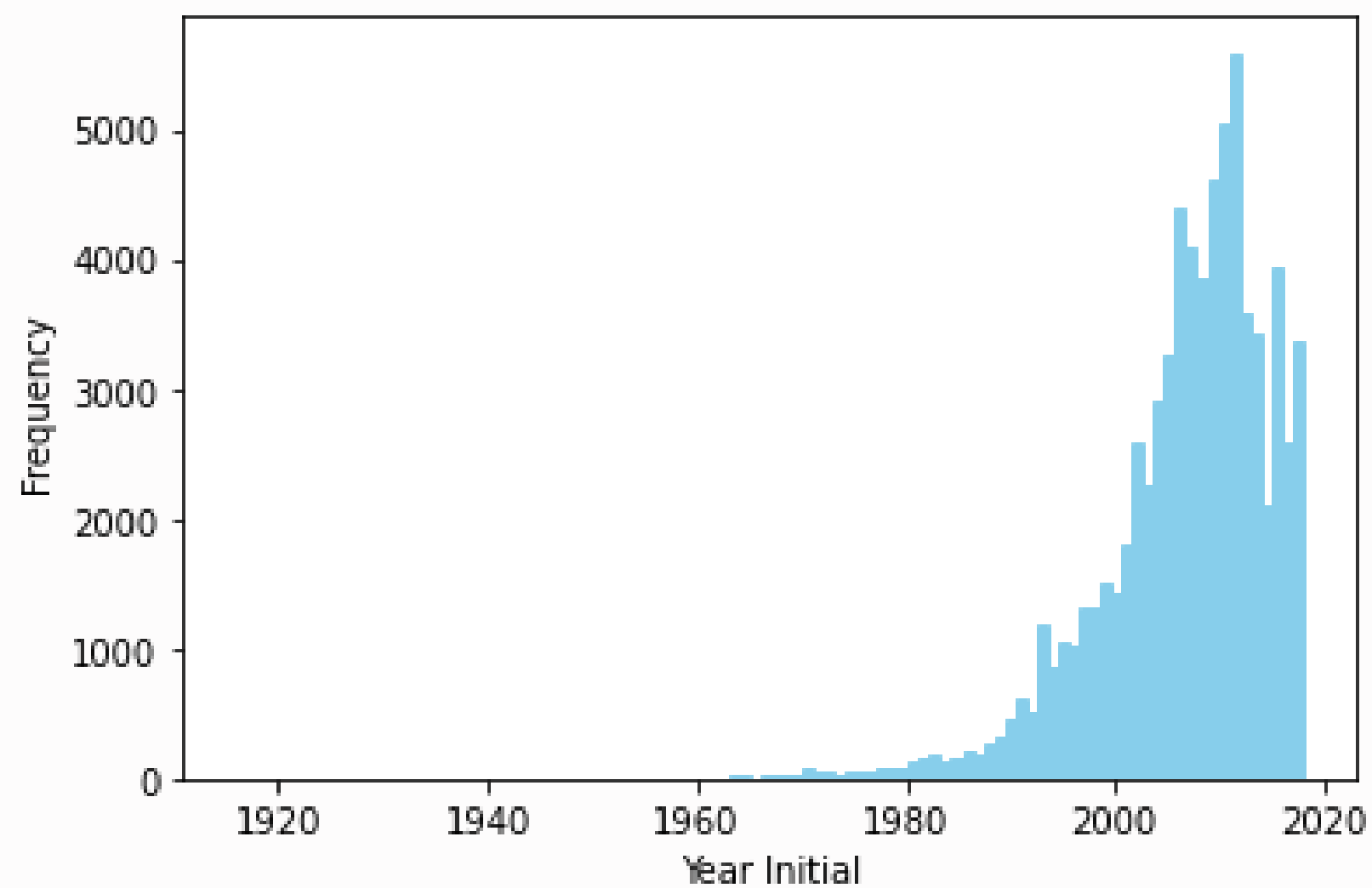
Genes



10370

Diseases





Process

How data is
selected?

Score > 0.5
Recent years
Early years



Hypergeomitrec
Filter

Filter the low
probabilitis



Work with
Gephi

Filter and draw

A Lucrative Industry

Diseases **Network**

Edges: 311

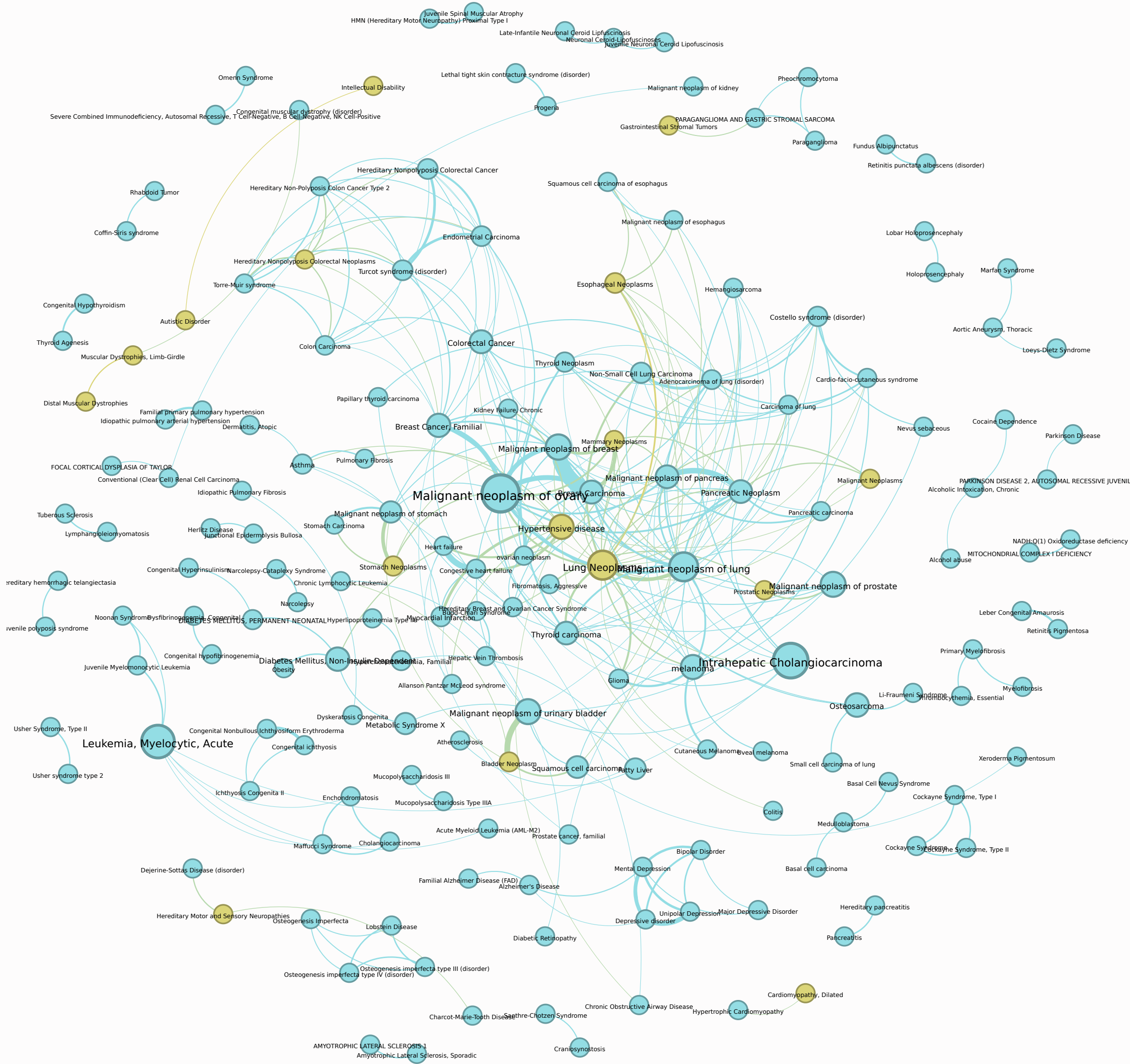
Filter:

Years > 2014

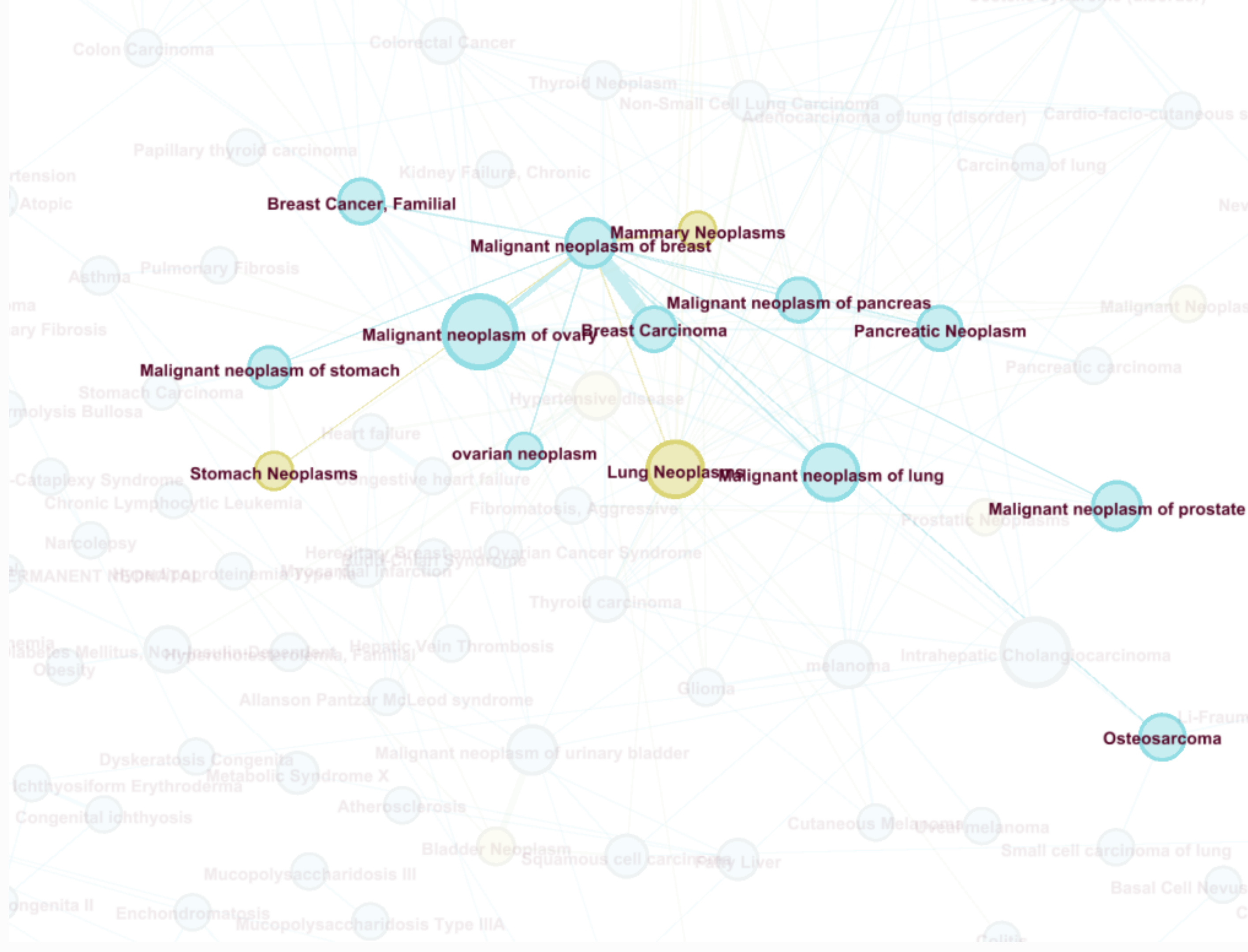
Score > 0.5

Wiegth

Degree



1998-2008 16

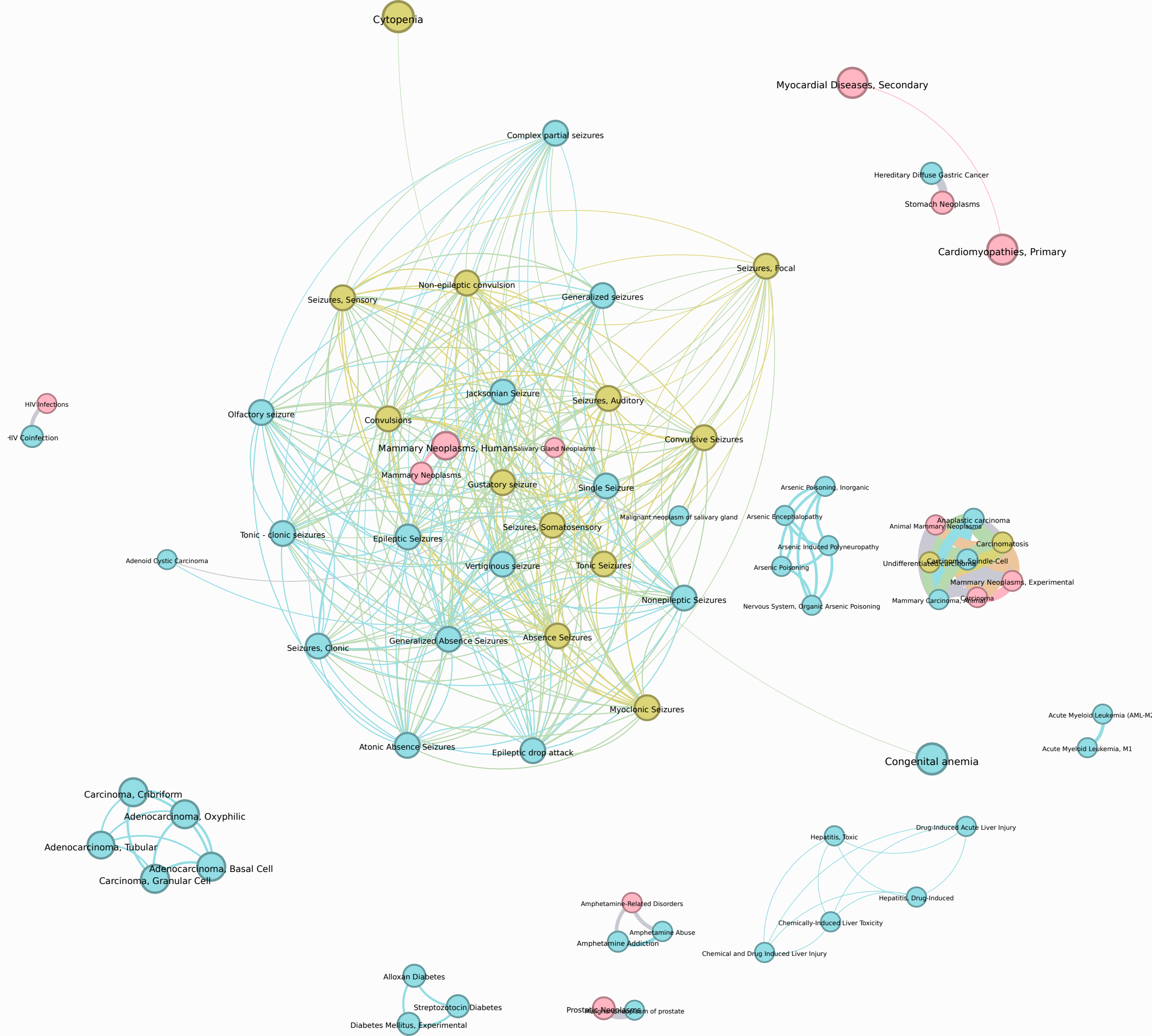


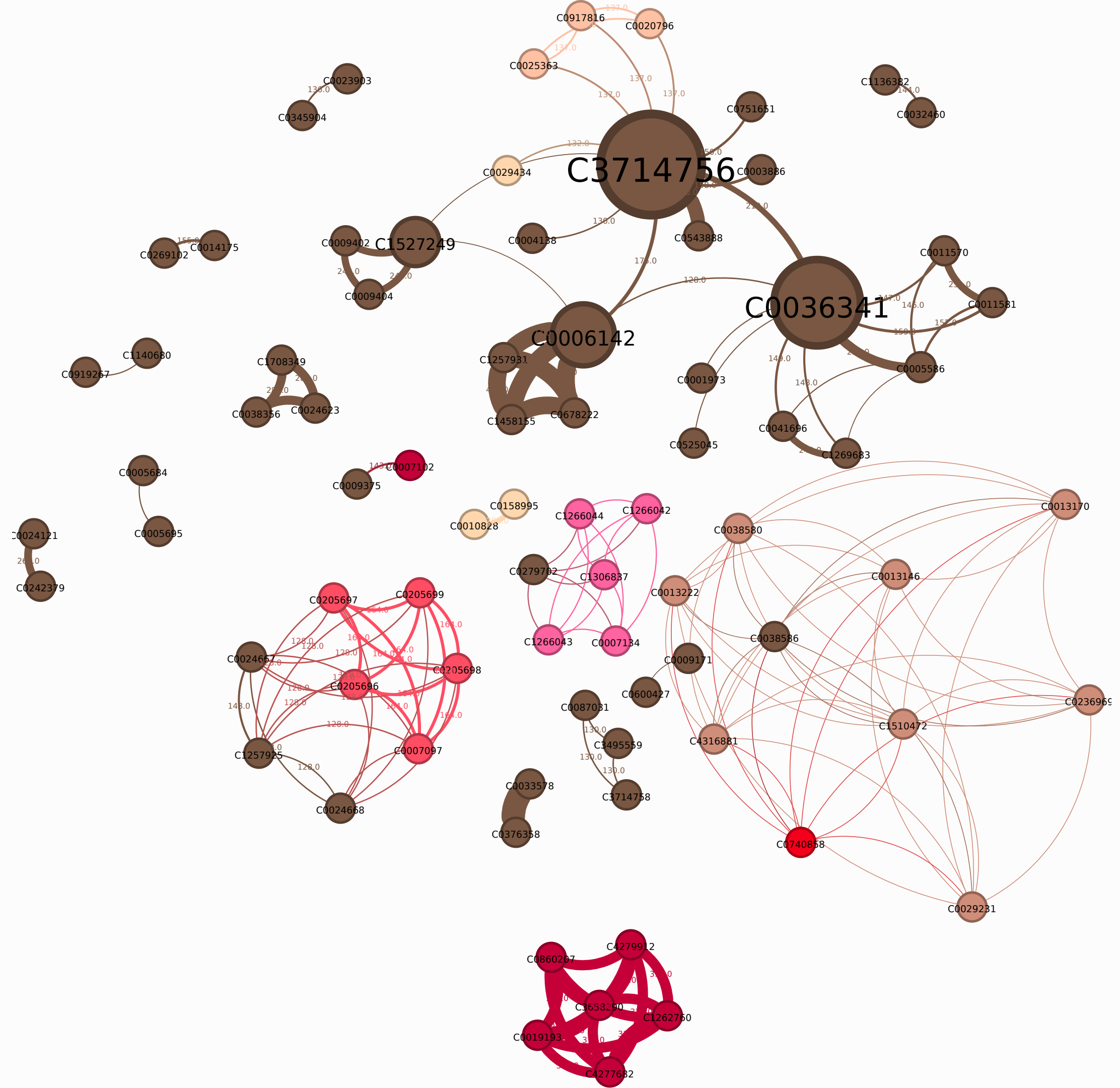
Edges: 311

Years: 1998-2008

Wiegth

Degree





Github Repository

<https://github.com/halaalbahloul/DisgenetDataAnalysis>

Thank you for your attension!

How is the score for a gene-disease pair, or variant-disease pair computed?

The DisGeNET score for GDAs takes into account the number and type of sources (level of curation, organisms), and the number of publications supporting the association, while the score for the VDAs takes into account sources, and number of papers. The scores range from 0 to 1.