Mapping Medline Papers, Genes, and Proteins Related to Melanoma Research

Goal
To provide researchers, practitioners and students with a global map of a research domain, to help them answer questions such as: What are the major research areas, experts, institutions, regions, nations, grants, publications, journals in a certain area of research? Which areas are most insular? What are the main connections for each area? What is the relative speed of areas? What new research areas are evolving? How are the objects of study (e.g., genes, proteins) interconnected via papers?

Top researched genes and proteins
Identification of sudden interests in research/published papers on certain genes and proteins using Kleinberg's burst detection algorithm. Examples of major bursts for genes and proteins along with their time-period are shown here.

Genes:
- CDK4 (1996-2001)

Proteins:
- Glycoprotein (1983-1990)

Time series analysis
The structure & dynamics of melanoma research was examined:

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