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 & PROTEINS

Identification of sudden interests in research/published papers on certain genes and proteins using Kleinberg’s burst detection algorithm. The diagrams show the amount and the time spans of major burst for genes and proteins.

ASSOCIATION MAPS

A gene-gene, gene-paper, gene-protein, protein-paper and protein-protein map was generated. The figure shows the gene-paper (left) and gene-gene (right) network. Highlighted in red is a single gene (CMM) and all its connections within the given network.

DATASETS

- 53804 Medline publication (1960 - Feb 2004)
- 299 Genes downloaded from Entrez-Gene
- 367 Proteins downloaded from Uniprot


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