



CREB-Binding Protein is expressed as a central Concept connected to co-occurring Concepts mined from the over 16 million articles in the MEDLINE® database dating from 1950 to 2003. The co-occurring Concepts and their semantic type are stored in the Araicom Knowledge Warehouse.

## Navigate Concept Relationships

A Concept Map is an interactive navigation tool for browsing Concept relationships. Each Concept in the map may be selected as a central Concept in a new Concept Map. A History pane to the left of the Concept Map records each successive selection of central Concepts. Concept Maps are generated independent of the navigation tool for preprocessing and the recorded path of central Concept selections may be stored for post processing.

## Access Relevant Literature

PubMed® citations relevant to the central Concept are displayed in the right panel adjacent to the Concept Map. Each PubMed® citation is the bibliographic information for one of the over 16 million articles in the MEDLINE® database dating from 1950 to present.

The screenshot displays the Araicom Concept Map interface. The central panel shows a concept map with 'CREB-Binding Protein' at the center. It is connected to several concepts: 'amino acid, peptide, or protein (6)', 'nucleic acid, nucleoside, or nucleotide (2)', 'steroid (1)', 'pharmacologic substance (2)', 'chemical viewed structurally (1)', 'Macromolecular Substances', 'Hydroxamic Acids', 'trichostatin A', 'organic chemical (3)', and 'all-trans-Retinoic Acid'. The right panel shows search results for 'CREB-Binding Protein' with five citations listed, including authors, titles, and PMIDs. The left panel includes a history of searches, a legend for UMLS and MeSH relationships, and user options.

## Integrated NLM resources

The Concepts and their semantic type are defined in the National Library of Medicine's Unified Medical Language System® (UMLS) Metathesaurus®. This is a very large biomedical and health vocabulary database built from the electronic versions of over 100 "source vocabularies." The vocabularies are representative of thesauri, classifications, code sets, and lists of controlled terms used in patient care, health services billing, public health statistics, indexing and cataloging biomedical literature, and/or basic, clinical, and health services research. Using Concepts defined by UMLS® ensures that our application "understands" the meaning of the language of biomedicine and health.

References for: **Concept Map of CREB-Binding Protein**

[http://www.nlm.nih.gov/research/umls/about\\_umls.html](http://www.nlm.nih.gov/research/umls/about_umls.html)

<http://www.nlm.nih.gov/pubs/factsheets/umlsmeta.html>

[http://www.nlm.nih.gov/research/umls/source\\_faq.html](http://www.nlm.nih.gov/research/umls/source_faq.html)

<http://www.nlm.nih.gov/pubs/factsheets/medline.html>

<http://www.nlm.nih.gov/pubs/factsheets/pubmed.html>

[http://www.nlm.nih.gov/research/umls/META3\\_current\\_semantic\\_types.html](http://www.nlm.nih.gov/research/umls/META3_current_semantic_types.html)



## Find the Hidden Relationships in Biomedical Research

To walk through a demonstration, go to [www.araicom.com](http://www.araicom.com) and click DEMO.

In this self-guided demo, you will be able to:

- Select a biomedical concept
- View the related PubMed® articles
- Select hypotheses supporting available literature

If you have questions about system features or how to use the demo  
contact Araicom via e-mail: [info@araicom.com](mailto:info@araicom.com)