Resource Summary Report

Generated by NIF on May 14, 2025

Connectivity Maps Web Services

RRID:SCR_008453
Type: Tool

Proper Citation

Connectivity Maps Web Services (RRID:SCR_008453)

Resource Information

URL: http://bio.informatics.iupui.edu/cmaps

Proper Citation: Connectivity Maps Web Services (RRID:SCR_008453)

Description: C-Maps project is an international collaboration between Discovery Informatics and Computing Laboratory in Indiana University Purdue University Indianapolis (IUPUI) and State Key Laboratory of Intelligent Technology and Systems (LITS) in Tsinghua University China. Connectivity Maps (C-Maps) is created to connect diseases with genes/proteins whose mutations cause them and drugs which treat them. Recent studies focus on developing systematic methods to build C-Maps using gene-expression data to connect small molecules, genes, and disease. Justin Lamb et. al. established a systematic approach to build C-Map using gene-expression profiling as the common vocabulary to connect small molecules, genes, and diseases. They created the first installment of a reference collection of gene-expression profiles from cultured human cell treated with bioactive small molecules, together with pattern-matching software to mine these data [1]. Atul J Butte et. al build a C-Maps using the UMLS (Unified Medical Language System) annotation of gene expression data to connect phenotypic, disease, environmental and experimental contexts as well as genes with differential expression associated with these concepts [2] Sponsor. We would like to thank the generous grant support from Indiana University - Purdue University Indianapolis, and National Basic Research Program of China (973 Program), National High Technology Research and Development Program of China (863 Program).

Synonyms: C-Maps

Resource Type: topical portal, portal, data or information resource

Funding:

Resource Name: Connectivity Maps Web Services

Resource ID: SCR_008453

Alternate IDs: nif-0000-30380

Record Creation Time: 20220129T080247+0000

Record Last Update: 20250513T061004+0000

Ratings and Alerts

No rating or validation information has been found for Connectivity Maps Web Services.

No alerts have been found for Connectivity Maps Web Services.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Huang H, et al. (2015) DMAP: a connectivity map database to enable identification of novel drug repositioning candidates. BMC bioinformatics, 16 Suppl 13(Suppl 13), S4.

Huang H, et al. (2012) C²Maps: a network pharmacology database with comprehensive disease-gene-drug connectivity relationships. BMC genomics, 13 Suppl 6(Suppl 6), S17.

Li J, et al. (2009) Building disease-specific drug-protein connectivity maps from molecular interaction networks and PubMed abstracts. PLoS computational biology, 5(7), e1000450.