

Information Visualization MOOC

Unit 7: Dynamics & Deployment

Exemplary Visualizations

Interactive Visualizations

Desktop

- Tableau
- Sci2/GUESS
- Gephi
- Cytoscape

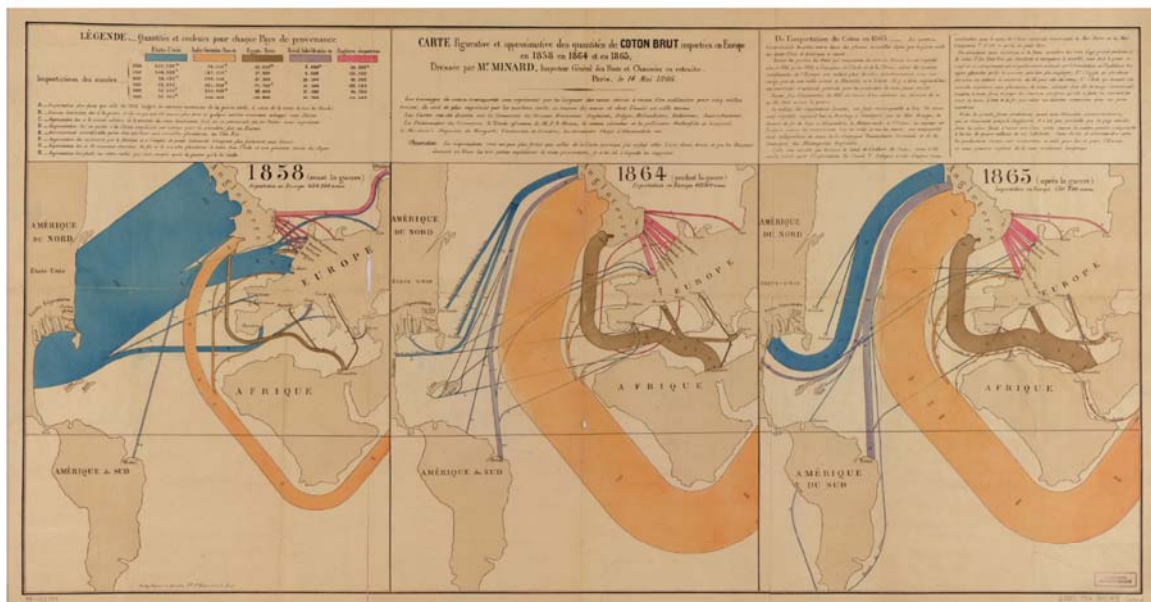
Large Touch Displays

- Illuminated Diagram display
- NASCast

Online (also hand-held mobile)

- Sci2 Web services
- MapSustain & Gene Therapy
- NIH Topic Map
- VIVO National Researcher Network

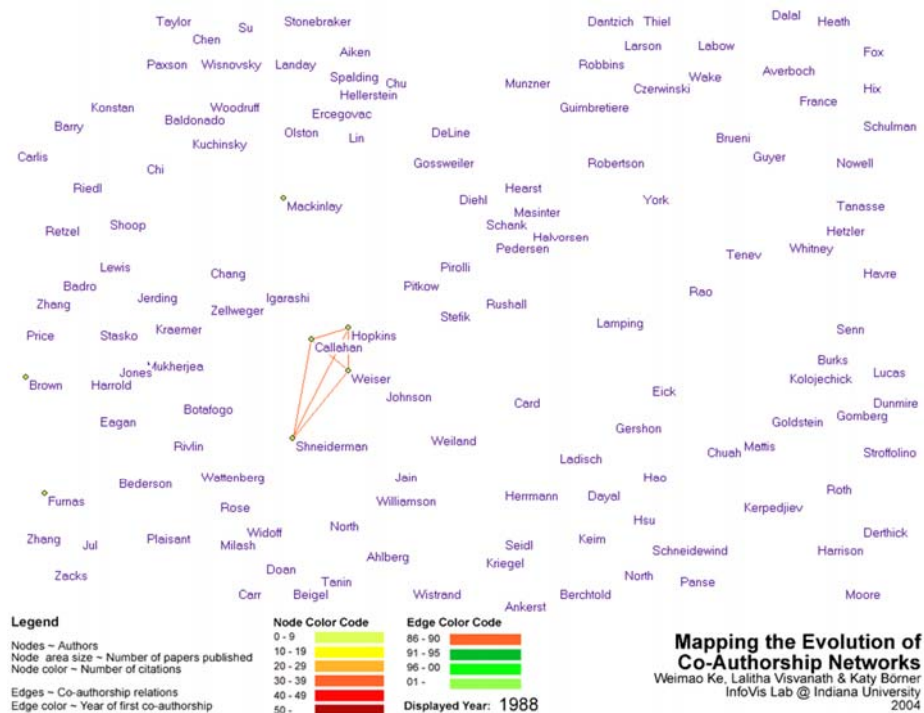
4



Europe Raw Cotton Imports in 1858, 1864 and 1865 - Charles Joseph Minard - 1866

Mapping the Evolution of Co-Authorship Networks

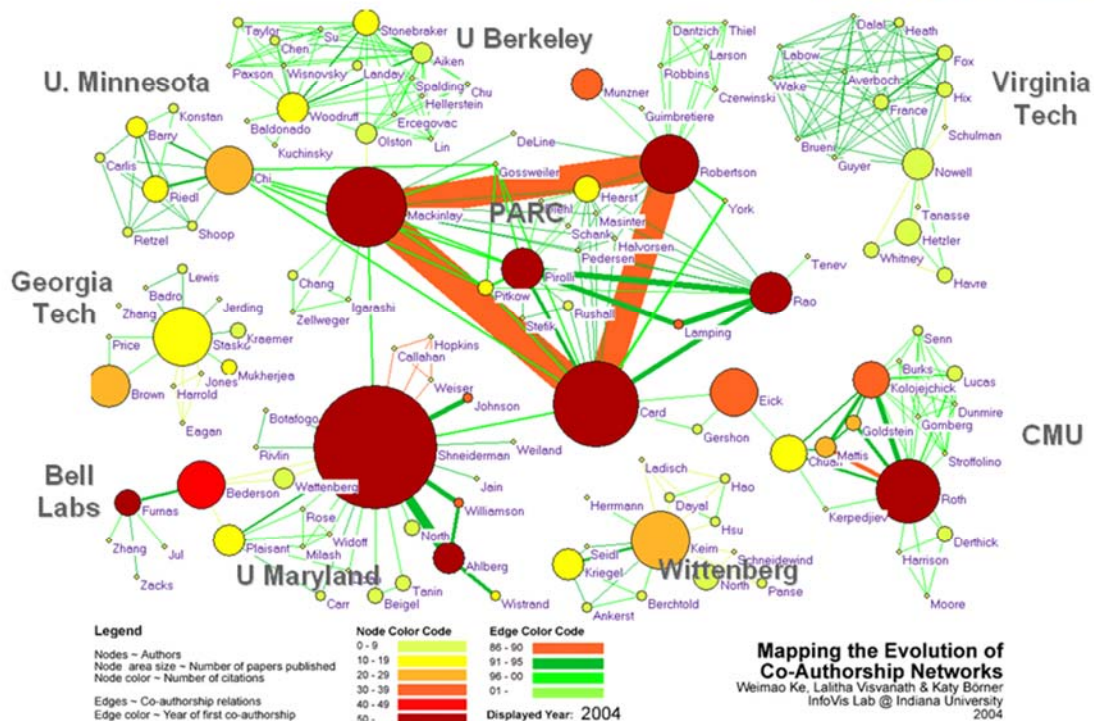
Ke, Visvanath & Börner. 2004. Won 1st prize at the IEEE InfoVis Contest.



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Mapping the Evolution of Co-Authorship Networks

Ke, Visvanath & Börner. 2004. Won 1st prize at the IEEE InfoVis Contest.



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Interactive Visualizations

Desktop

- Tableau
- Sci2/GUESS
- Gephi
- Cytoscape

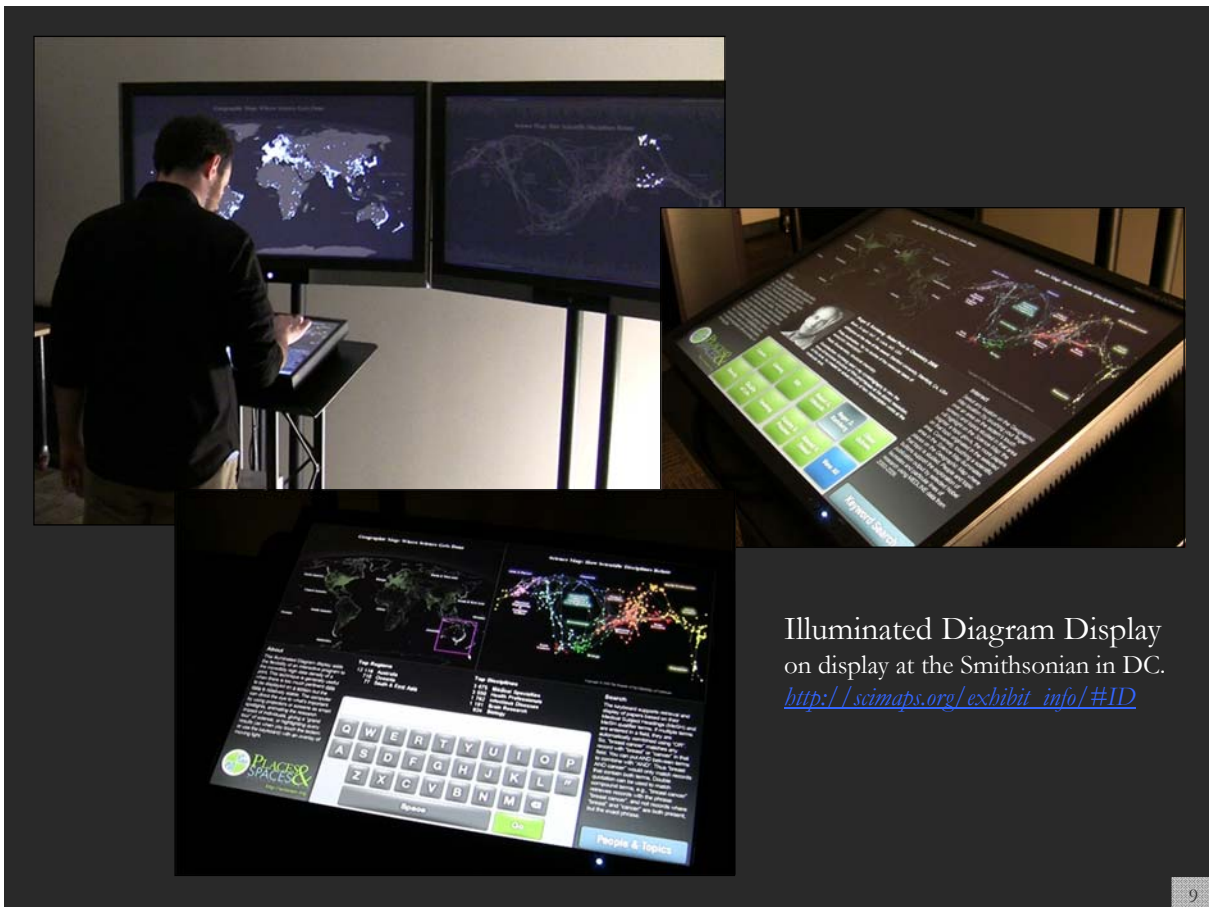
Large Touch Displays

- **Illuminated Diagram display**
- **NASCast**

Online (also hand-held mobile)

- Sci2 Web services
- MapSustain & Gene Therapy
- NIH Topic Map
- VIVO National Researcher Network
- NASA Global Temperature

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Illuminated Diagram Display
on display at the Smithsonian in DC.
http://scimaps.org/exhibit_info/#ID

Geographic Map: Where Science Gets Done

Science Map: How Scientific Disciplines Relate

Copyright © 2008 The Regents of the University of California

About

This Illuminated Diagram display adds the flexibility of an interactive program to the incredibly high data density of a print. This technique is generally useful when there is too much pertinent data to be displayed on a screen but the data is relatively stable. The computer can direct the eye to what's important by using projectors or screens as smart spotlights, animating the research impact of individuals, giving a "grand tour" of science, or highlighting query results (as when you touch the lectern or use the keyboard) with an overlay of moving light.

<http://scimaps.org>

Top Five Continents

- North America - 4,000 records
- South & East Asia - 3,589
- Australia - 2,431
- Africa - 2,208
- South America - 1,562

Top Five Scientific Disciplines

- Math & Physics - 4,000 records
- Health Professionals - 3,589
- Social Sciences - 2,431
- Aeronautical, Chemical, Mechanical & Civil Engineering - 2,208
- Humanities - 1,562

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Space

Go

Search

The keyboard supports retrieval and display of papers based on their Medical Subject Headings (MeSH) and MeSH qualifier terms. If multiple terms are entered in a field, they are automatically combined using "OR". So, "breast cancer" matches any record with "breast" or "cancer" in that field. You can put AND between terms to combine with "AND". Thus "breast AND cancer" would only match records that contain both terms. Double quotation can be used to match compound terms, e.g., "breast cancer" retrieves records with the phrase "breast cancer", and not records where "breast" and "cancer" are both present, but the exact phrase.

People & Topics

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Geographic Map: Where Science Gets Done

Science Map: How Scientific Disciplines Relate

Copyright © 2008 The Regents of the University of California

About

This Illuminated Diagram display adds the flexibility of an interactive program to the incredibly high data density of a print. This technique is generally useful when there is too much pertinent data to be displayed on a screen but the data is relatively stable. The computer can direct the eye to what's important by using projectors or screens as smart spotlights, animating the research impact of individuals, giving a "grand tour" of science, or highlighting query results (as when you touch the lectern or use the keyboard) with an overlay of moving light.

<http://scimaps.org>

Elinor Ostrom - Nobel Prize in Economic Sciences 2009

Born: 7 August 1933, New York, NY, USA
Affiliation at the time of the award: Indiana University, Bloomington, IN, USA, Arizona State University, Tempe, AZ, USA
Prize motivation: "for her analysis of economic governance, especially the commons"
Field: Economic governance
Contribution: Challenged the conventional wisdom by demonstrating how local property can be successfully managed by local commons without any regulation by central authorities or privatization.

Interact

Select any location on the Geographic Map location (by brushing your finger over an area on the lectern's touch screen) and topics studied in that area will highlight on the Science Map; the brighter a topic glows, the more papers on that topic originated in the selected area. Conversely, touching a scientific area in the Science Map illuminates places on the Geographic Map where that topic is studied. People and topic buttons support the exploration of publication output by selected Noble laureates and particular lines of research using MEDLINE data from 2000-2009.

Cancer

Cloning

HIV

Robert G. Edwards

Roger D. Kornberg

Elinor Ostrom

Obesity

Quality of Life

Smoking

Stanley B. Prusiner

Ahmed H. Zewail

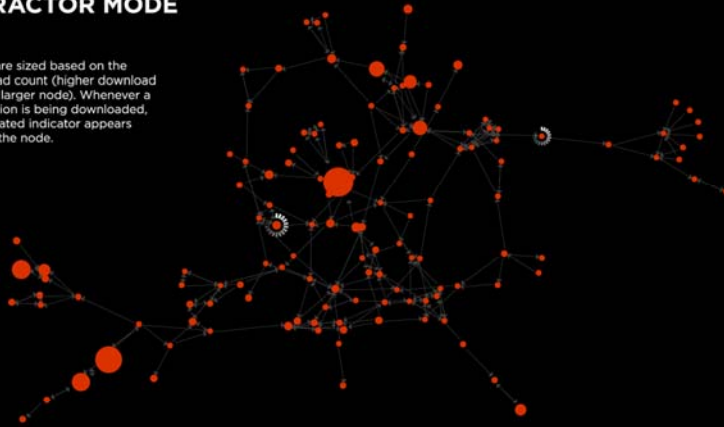
View All

Keyword Search

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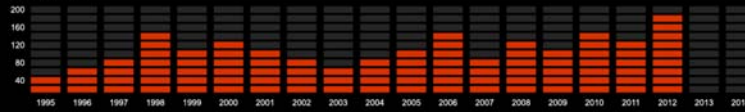
ATTRACTOR MODE

Nodes are sized based on the download count (higher download count = larger node). Whenever a publication is being downloaded, an animated indicator appears around the node.



Click here to learn about how this visualization was created.

Reports by year



NAScast REPORT VISUALIZATION

Select one of the 19 categories below, then select a sub-topic to see the visualization.

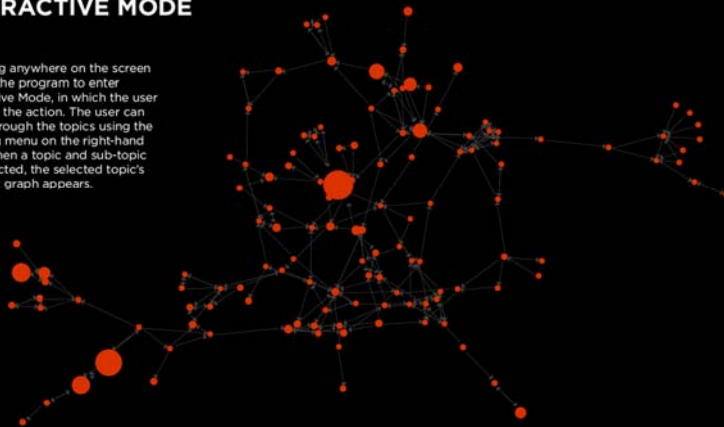
- Agribusiness
- Biomedical and Social Sciences
- Computers and Information Technology
- Engineering and Technology
- Health and Medicine**
- Aging
- Children's Health
- Diseases - Cancer
- Diseases - Other
- Environmental Health
- Food and Nutrition
- Math, Chemistry and Physics
- Math, Chemistry and Physics
- Math, Chemistry and Physics

Health and Medicine Diseases - Cancer

At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis praesentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi sint occaecati cupiditate non provident, similique sunt in culpa qui officia excepteur sint occaecati cupidatat.

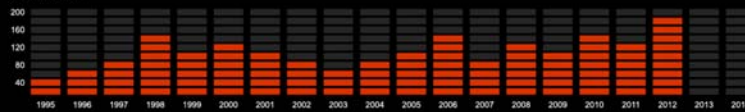
INTERACTIVE MODE

Touching anywhere on the screen causes the program to enter Interactive Mode, in which the user controls the action. The user can cycle through the topics using the scrolling menu on the right-hand side. When a topic and sub-topic are selected, the selected topic's network graph appears.



Click here to learn about how this visualization was created.

Reports by year



NAScast REPORT VISUALIZATION

Select one of the 19 categories below, then select a sub-topic to see the visualization.

- Agribusiness
- Biomedical and Social Sciences
- Computers and Information Technology
- Engineering and Technology
- Health and Medicine**
- Food and Nutrition
- Math, Chemistry and Physics
- Math, Chemistry and Physics
- Math, Chemistry and Physics

Health and Medicine Diseases - Cancer

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Interactive Visualizations—Examples

Desktop

- Tableau
- Sci2/GUESS
- Gephi
- Cytoscape

Large Touch Displays

- Illuminated Diagram display
- NAScast

Online (also hand-held mobile)

- Sci2 Web services
- MapSustain & Gene Therapy
- NIH Topic Map
- VIVO National Researcher Network



Sci² Tool Web Services

As visual interface to publically available NIH RePORT Expenditure and Results RePORTER)/ RePORTER data provided by NIH.



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NETE A|V - Temporal Analysis

Find and select one or multiple PIs

1 CHOOSE A DATA SET | **2 CHOOSE AN ANALYSIS** | **3 VISUALIZE**

Choose the data set that you would like to visualize

☐ Principal Investigators by Name
☒ Principal Investigators by Organization

Organization : Include Co-PIs ☐ **SEARCH**

| Select Select All / Deselect All | Name | Organization | Total Projects | Projects with Award Amounts | Profile Id |
|---|--------------------|--------------------------------|----------------|-----------------------------|------------|
| <input type="checkbox"/> | CEDAR, HOWARD | HEBREW UNIVERSITY OF JERUSALEM | 6 | 6 | 1858057 |
| <input type="checkbox"/> | YANAI, JOSEPH | HEBREW UNIVERSITY OF JERUSALEM | 3 | 3 | 1869372 |
| <input type="checkbox"/> | OLSON, SARA H | HEBREW UNIVERSITY OF JERUSALEM | 6 | 6 | 1872521 |
| <input type="checkbox"/> | MINKE, BARUCH | HEBREW UNIVERSITY OF JERUSALEM | 1 | 1 | 1876962 |
| <input type="checkbox"/> | SCHULDINER, SHIMON | HEBREW UNIVERSITY OF JERUSALEM | 3 | 3 | 1901430 |

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NETE A|V - Temporal Analysis

Visualize portfolio of projects on the timescale

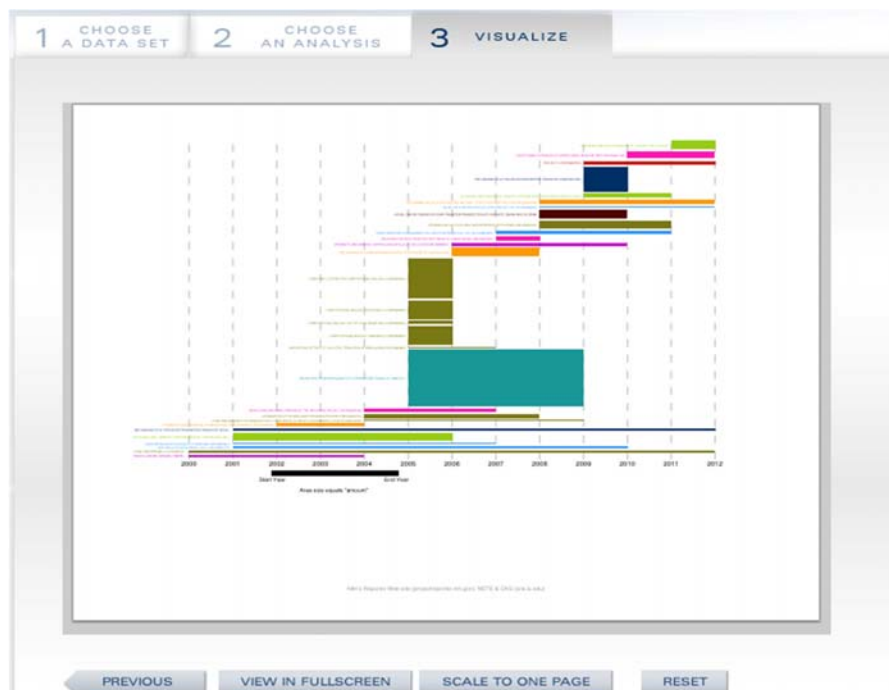
- Projects with award amounts
- Projects by IC funding
- Projects by PIs

The screenshot shows the 'CHOOSE AN ANALYSIS' step of the NETE A|V interface. It features three tabs at the top: '1 CHOOSE A DATA SET', '2 CHOOSE AN ANALYSIS' (which is active), and '3 VISUALIZE'. Below the tabs, the text 'Choose an analysis that you would like to do:' is followed by four radio button options: 'All projects with award amounts', 'Top 20 projects by average award amount', 'All projects with award amounts by IC funding' (which is selected), and 'All projects by PI'. Below these options are two input fields for 'Start Fiscal Year' and 'End Fiscal Year'. At the bottom are three buttons: 'PREVIOUS', 'NEXT', and 'RESET'.

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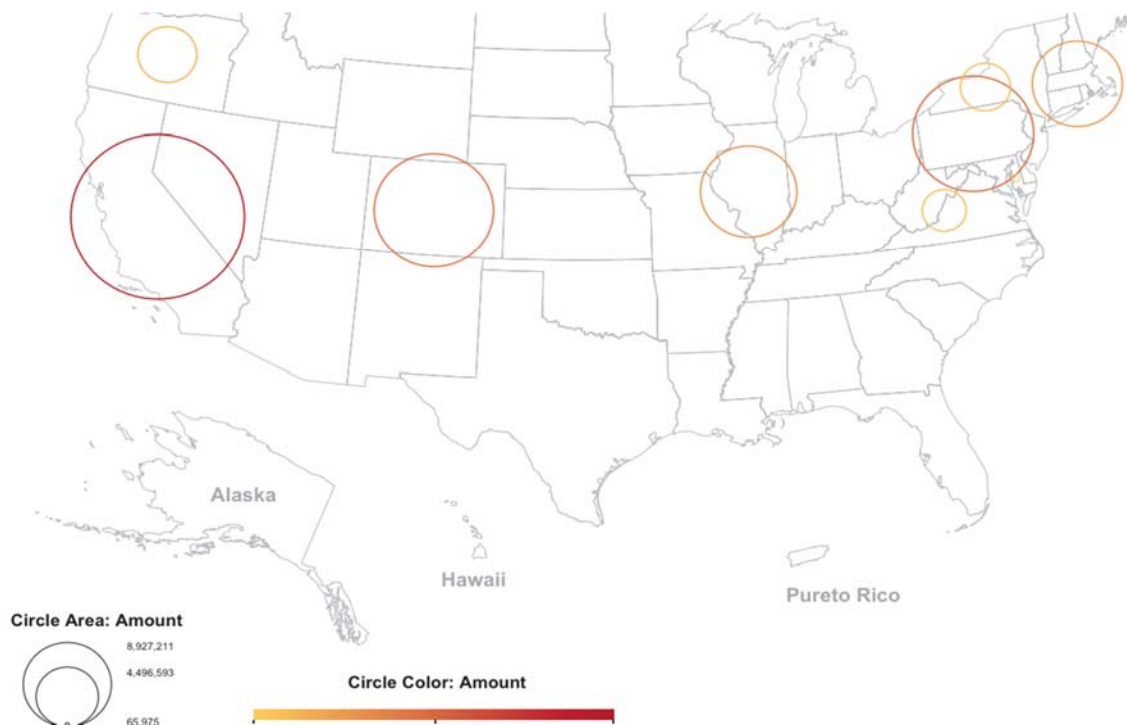
NETE A|V - Temporal Analysis – Projects with Award Amounts

Four-variable visualizations—e.g., time, amounts, Pis, and projects



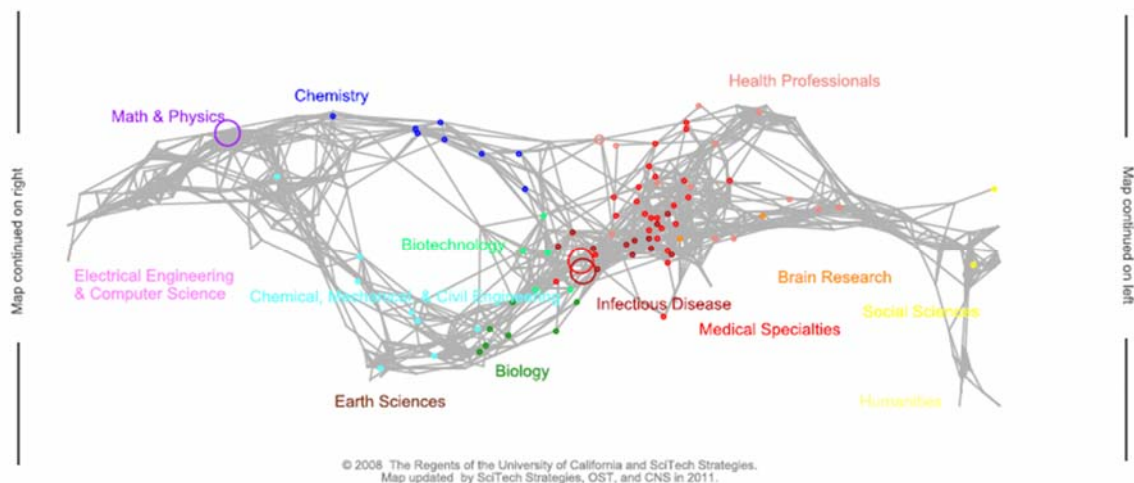
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NETE A|V - Geospatial Analysis – Projects by External Organization



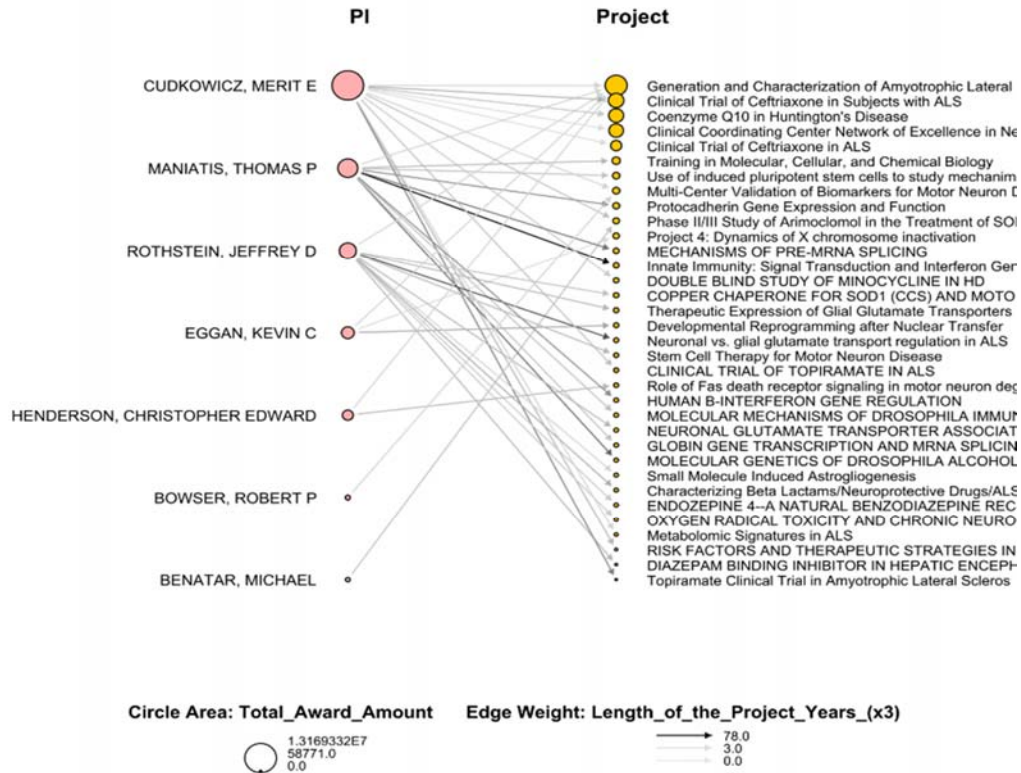
20

NETE A|V - Topical Analysis – Publications in a Project Portfolio



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NETE A|V - Network Analysis – (Co-) PIs to Projects



22

MAPSustain

Mapping Sustainability Research

Geographic Map **Science Map**

Map data ©2010 Europa Technologies, Inc.

Detail **About**

Geographic Visualization

Here we have a more traditional view of the records - a geographic overlay. Featured here are the records that list both a city and state in the United States. Feel free to search, zoom, pan, and click for descriptions.

☒ Funding
☒ NIH
☒ NSF
☒ USDA

☒ Publications
☒ DOE
☒ ISI
☒ Medline

☒ Patents
☒ USPTO

Citations ☒ Count ☐

Amount ☒ Count ☐

From year 1901 to year 2009

Search by keyword

<http://mapsustain.cns.iu.edu>

CYBERINFRASTRUCTURE for NETWORK SCIENCE CENTER
 School of Library and Information Science, Indiana University

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Geographic Map
Science Map

Maps
Detail
Data
About

About

A new field of *Sustainability Science and Engineering* is emerging that seeks to understand the fundamental character of interactions between nature and human society and to help steer the impact of humanity's needs on the planet's natural resources towards sustainable trajectories. The field is unified in clear terms by its ultimate goals but occupies an interdisciplinary position among traditional research fields, spanning both science and engineering and spreading across disciplines as diverse as agriculture, ecology, oceanography, climate studies, economics, a diverse set of social sciences, energy and materials and several additional aspects of engineering, physics, biology, and chemistry. Although Sustainability Science and engineering is by now widely discussed in the scientific and engineering community, and is beginning to be connected to the political agenda for economic and social development, it remains unclear to what extent its many facets are being integrated into a global perspective and whether researchers are utilizing it as a nexus to collaborate across traditional scientific and engineering fields.

Please consult the [Mapping the Structure and Evolution of Sustainability Science](#) workshop web page for further information and details.

Web Page Design

This web site provides an interactive interface to publication, patent, and funding data on 'biomass' and 'biofuel' research. Visitors are invited to explore what funding is available in what geospatial regions and in what areas of science and what publications and patents

Google Map JavaScript API was used to implement both maps with two aggregation layers for each. The geographic map aggregates to the **state level** and the **city level**. The science map has a high level of aggregation of 13 top-level scientific **disciplines** and a low level of 554 **sub-disciplines**.

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Geographic Map
Science Map

Maps
Detail
Data
About

Datasets

The dataset covers 13,528 records on "biomass" and "biofuel" research and technology from seven different publication, patent, funding datasets for the years 1901 to 2010.

Funding

National Institutes of Health (NIH) awards retrieved from the Scholarly Database (<http://sdb.slis.indiana.edu>) at Indiana University on 11/20/2010. Search query used was biomass OR biofuel OR "bio mass" OR "bio fuel" in the 'All Text' field.

National Science Foundation (NSF) awards retrieved from the Scholarly Database (<http://sdb.slis.indiana.edu>) at Indiana University on 11/20/2010. Search query used was biomass OR biofuel OR "bio mass" OR "bio fuel" in the 'All Text' field.

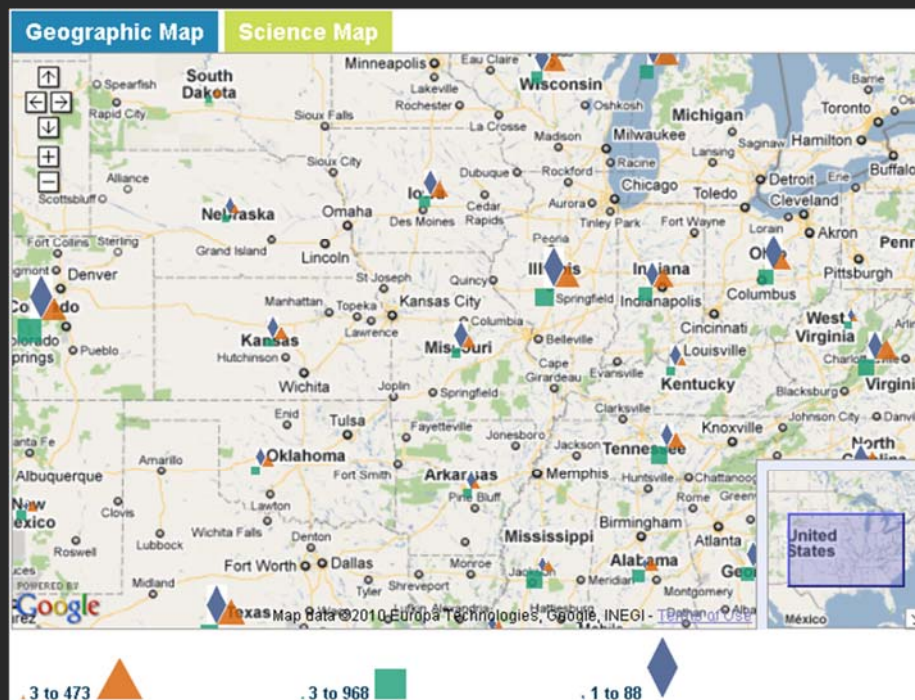
US Department of Agriculture (USDA) awards made available by a staff member of the Office of Scientific and Technical Information from the US Department of Energy (DOE).

Publications

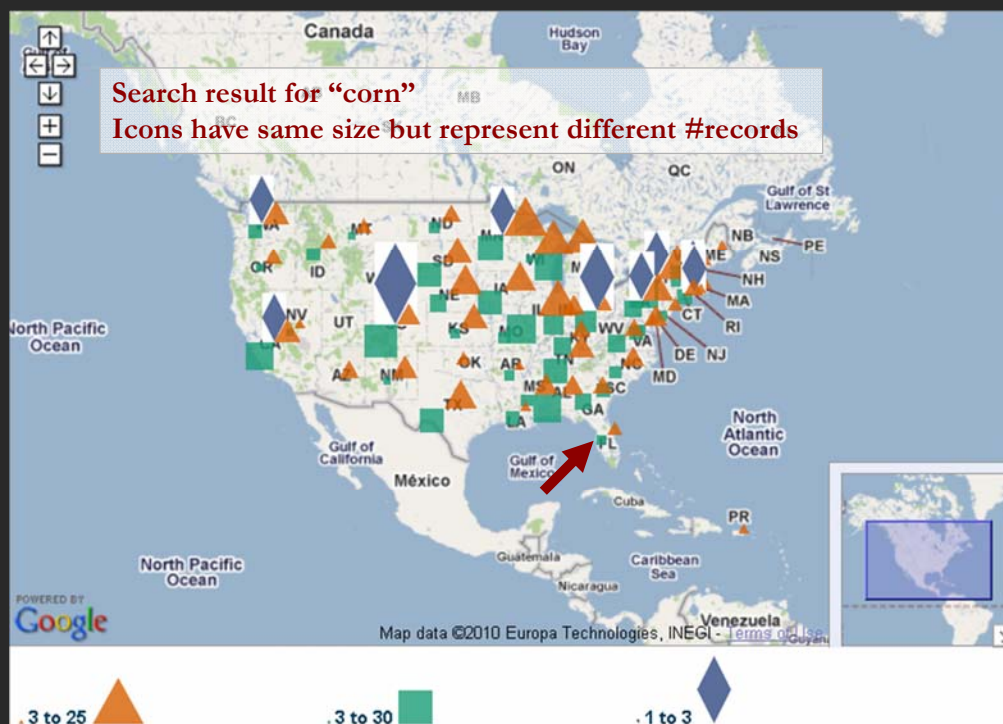
MEDLINE papers by the National Library of Medicine retrieved from the Scholarly Database (<http://sdb.slis.indiana.edu>) at Indiana University on 11/20/2010. Search query used was biomass OR biofuel OR "bio mass" OR "bio fuel" in the 'All Text' field.

The geographic map at **state level**.

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The geographic map at city level.



Science Map



Maps

Detail

Data

About

> Florida

MEDLINE
2002

- [Recovery Of Dairy Manure Nutrients By Benthic Freshwater Algae](#)

DOE
1985

- [Enzymatic Hydrolysis And Fermentation Of Corn For Fuel Alcohol](#)

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Information Bridge: DOE Scientific and Technical Information - - Document #5789929 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.osti.gov/bridge/product.biblio.jsp?osti_id=5789929

Most Visited Getting Started Latest Headlines

MapSustain Information Bridge: DOE Scientifi...

DOE Scientific and Technical Information

DOE • OSTI

Home • Basic Search • Fielded Search • Alerts • Help

FAQ • Widget • Site Map

SHARE

Bibliographic Citation

[See/Add Document Discussions](#) [Return to Search Results](#) [Return to Original Search Page](#) [Download as EndNote](#)

Full Text Availability information may be found in the Availability, Publisher, Research Organization, Resource Relation and/or Author (affiliation information) fields and/or via the "Full-text Availability" link. For a journal article, please see the Resource Relation field.

Title Enzymatic hydrolysis and fermentation of corn for fuel alcohol
[Word Cloud](#) [More Like This](#)

Creator/Author Mullins, J.T.

Publication Date 1985 Jan 01

OSTI Identifier OSTI ID: 5789929

Other Number(s) Journal ID: CODEN: BIBA

Resource Type Journal Article

Resource Relation Journal Name: Biotechnol. Bioeng.; (United States); Journal Volume: 27:3

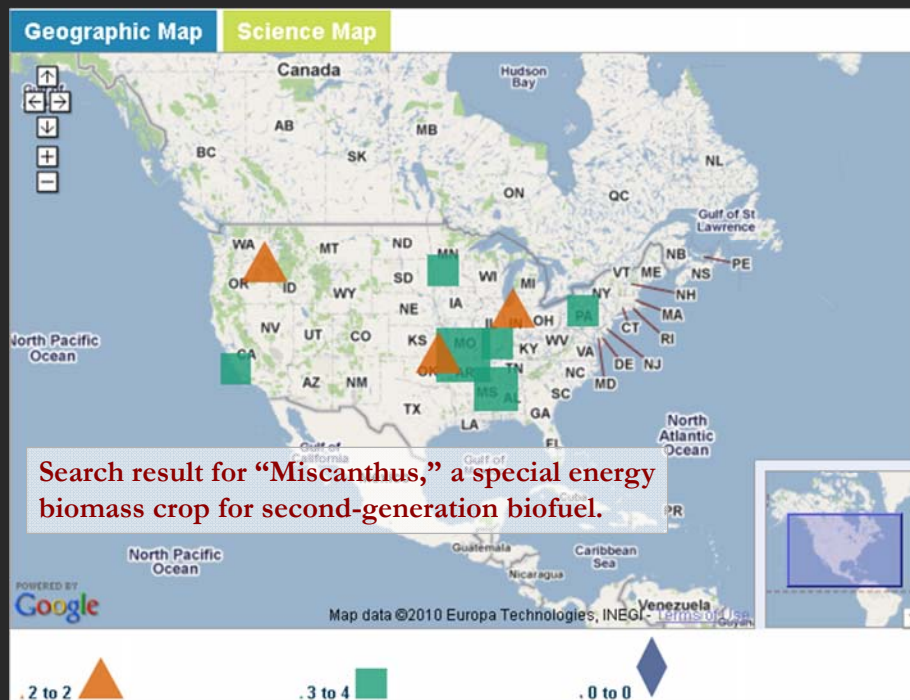
Research Org Univ. of Florida, Gainesville

Subject 09 BIOMASS FUELS; 32 ENERGY CONSERVATION, CONSUMPTION, AND UTILIZATION; ETHANOL FUELS; BIOSYNTHESIS; MAIZE; ENZYMATIC HYDROLYSIS; FERMENTATION; PRODUCTIVITY; COST; ENERGY EFFICIENCY; EXPERIMENTAL DATA; WASTE PRODUCT UTILIZATION; ALCOHOL FUELS; BIOCONVERSION; CEREALS; CHEMICAL REACTIONS; DATA; DECOMPOSITION; EFFICIENCY; FUELS; GRASS; HYDROLYSIS; INFORMATION; LYSIS; NUMERICAL DATA; PLANTS

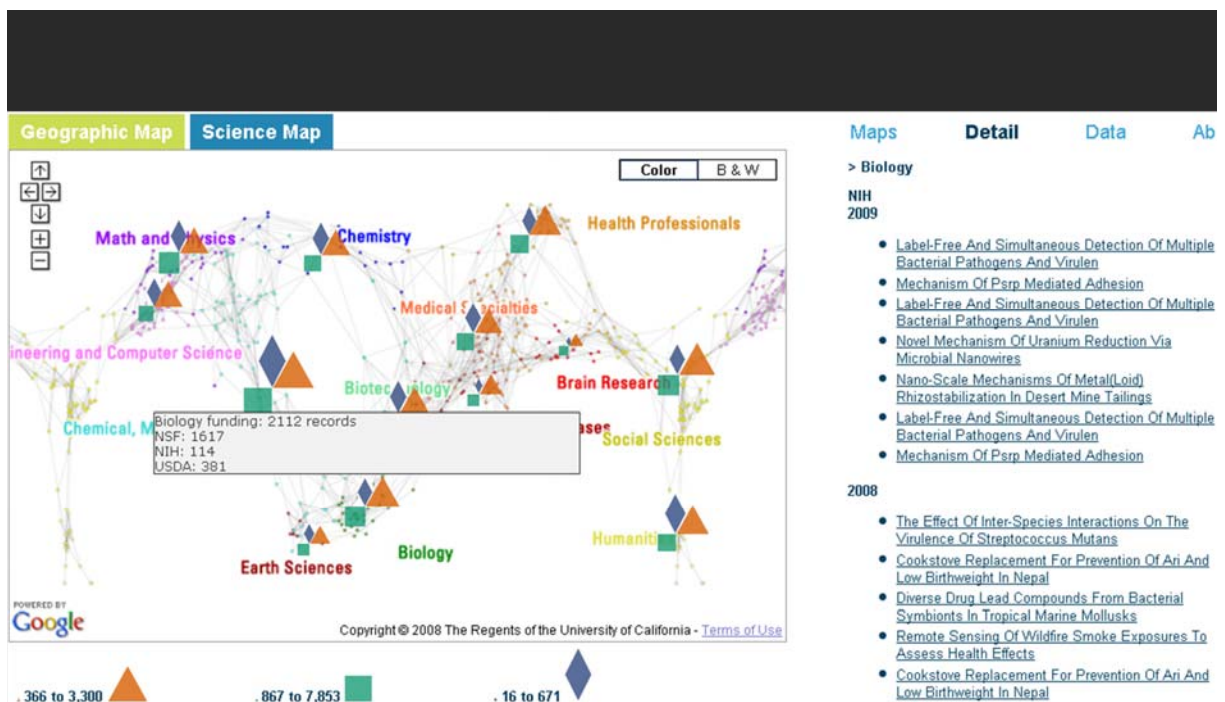
Done

Detailed information on demand
via original source site for exploration and study.

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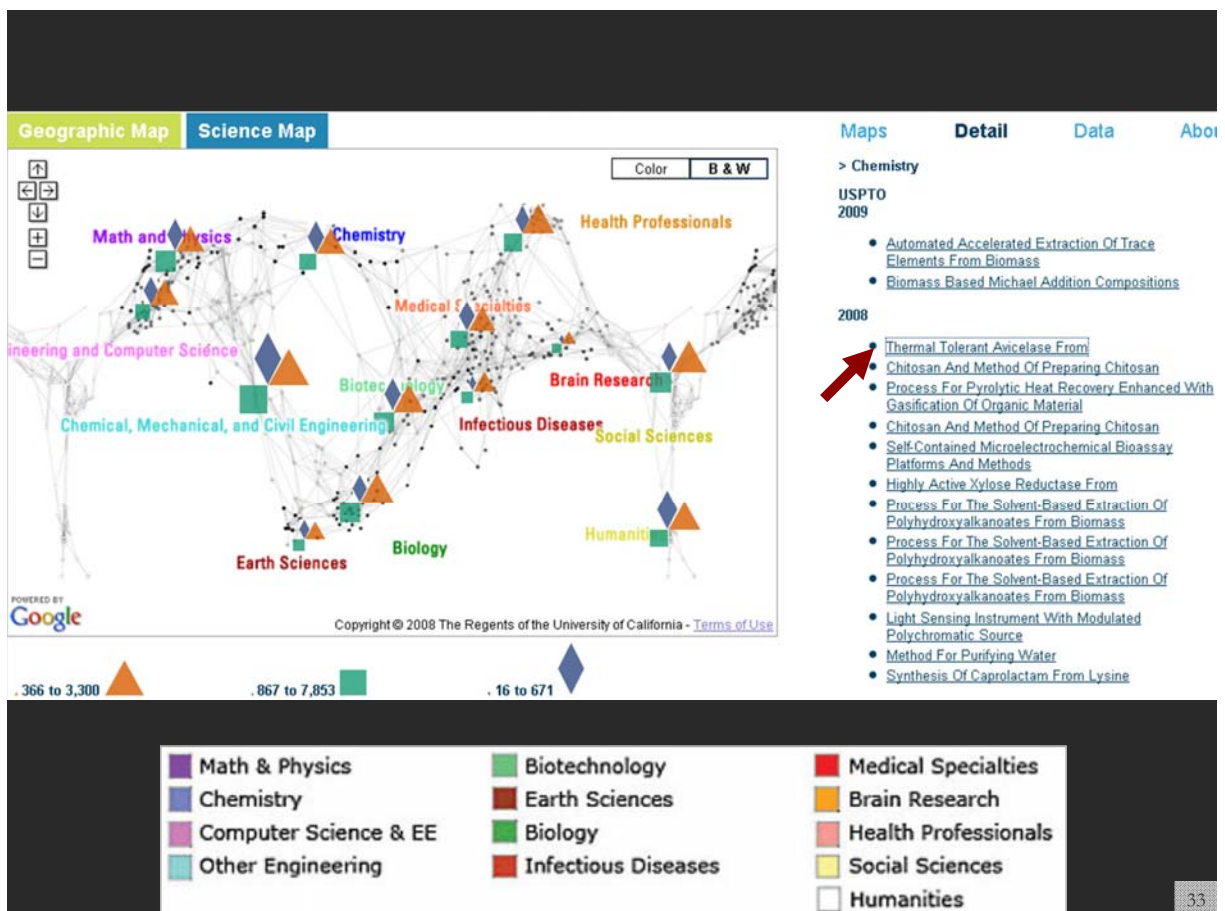
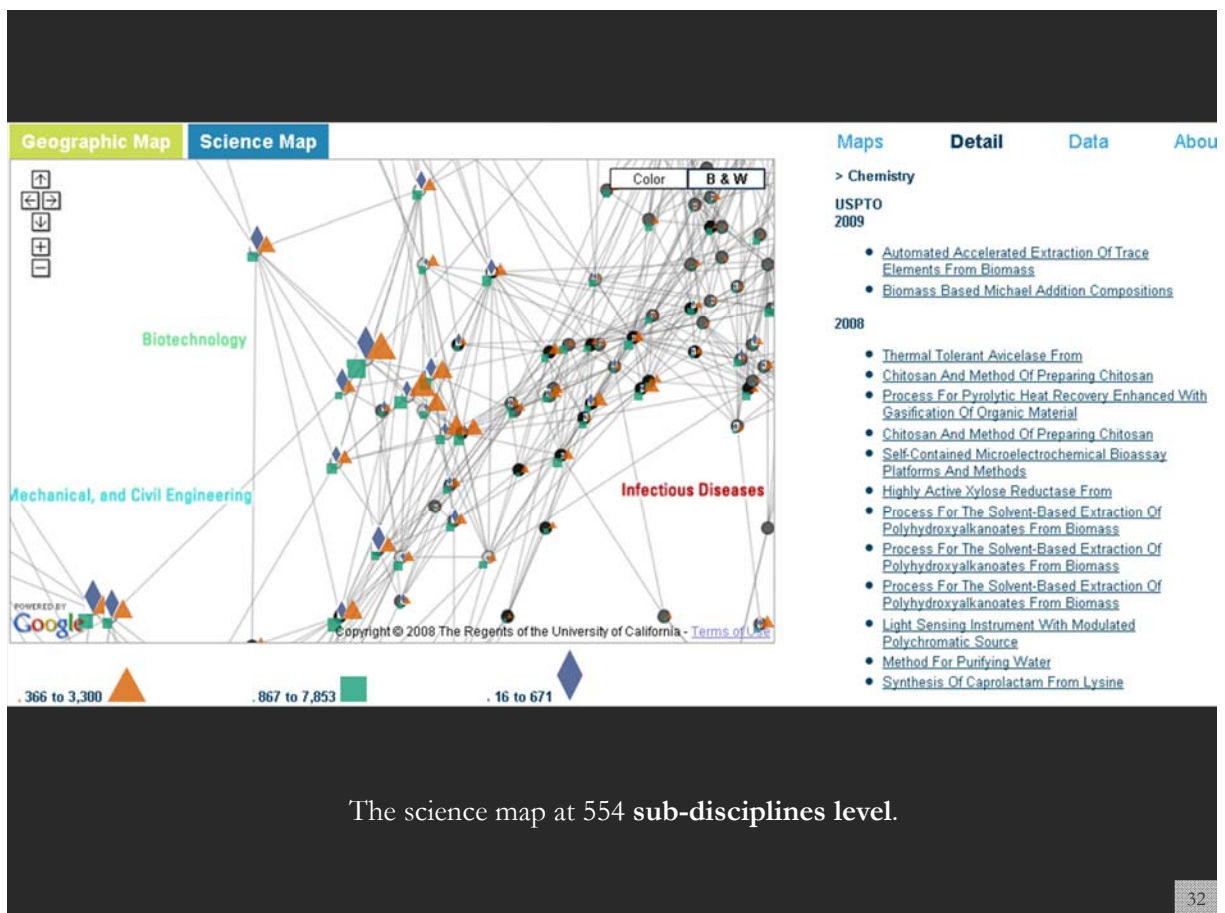


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The science map at 13 top-level scientific disciplines level.

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United States Patent: 7364890 - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO1&Sect2=HITOFF&d=PALL&p=1&u=/netacgi/PTO/srch

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MapSustain United States Patent: 7364890 United States Patent: 7364890 Information Bridge: DOE Scientific a...

USPTO PATENT FULL-TEXT AND IMAGE DATABASE

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Images

(1 of 1)

United States Patent
Ding, et al.

7,364,890
April 29, 2008

Thermal tolerant avicelase from *Acidothermus cellulolyticus*

Abstract

The invention provides a thermal tolerant (thermostable) cellulase, AvIII, that is a member of the glycoside hydrolase (GH) family. AvIII was isolated and characterized from *Acidothermus cellulolyticus* and, like many cellulases, the disclosed polypeptide and/or its derivatives may be useful for the conversion of biomass into biofuels and chemicals.

Inventors: Ding; Shi-You (Golden, CO), Adney; William S. (Golden, CO), Vinzant; Todd B. (Golden, CO), Himmel; Michael E. (Littleton, CO)

Assignee: Midwest Research Institute (Kansas City, MO)

Appl. No.: 09/017,226

Done

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NGVB
National Gene Vector Biorepository

About/Contact/Search

Gene Therapy Geographic Data Map

Information
Gene Therapy Data Maps
Archiving Services
Insertion Site Analysis
Pharm/Tox Resources
Clinical Trial Testing
Reagent Repository
Educational Resources
My NGVB

LOG IN
user name:
password:
Login

Get user name and password
Can't remember your password?

Map data ©2012 Tele Atlas - Terms of Use

Maps Detail Data About

Geographic Visualization

This map shows provides a tool to locate site of gene therapy research in the US. The map is searchable by publication, patent application, federal grants and clinical trials. The maps also include controls to select subsets of the entire gene therapy data set. Checkboxes allow users to limit data sources by institution or by source type (i.e., funding, publications, patents, or clinical trial). Radio buttons toggle the markers between representing a count of the records or another relevant numerical representation (dollar amount for funding, citations for publications and years for clinical trials). The map can also be limited by date by year and years for the query. A


From year 1972 to year 2011

Search by: cancer Search

2 to 468 0 to 0 0 to 28 0 to 19

<http://kongch.cns.iu.edu/genetherapy/geomap.html>

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[About/Contact/Search](#)

Information

Gene Therapy Data Maps

Archiving Services

Insertion Site Analysis

Pharm/Tox Resources

Clinical Trial Testing

Reagent Repository

Educational Resources

My NGVB

LOG IN

user name:


password:

Login

[Get user name and password](#)

[Can't remember your password?](#)

Gene Therapy Geographic Data Map



From year 1972 to year 2011

Search by:

2 to 468 0 to 0 0 to 28 0 to 19

[Export Data to CSV](#)

Maps Detail **Data** About


> Maryland

TRIALS

2011

- Phase III Study Of Metastatic Cancer That Expresses Mage-A3/12 Using Lymphodepleting Conditioning Followed By Infusion Of Anti-Mage-A3/12 Tcr-Gene Engineered Lymphocytes
- Phase III Study Of Metastatic Cancer That Expresses Nv-Eso-1 Using Lymphodepleting Conditioning Followed By Infusion Of Gene Engineered Lymphocytes Cotransduced With Genes Encoding Il-12 And Anti-Nv-Eso-1 Tcr
- A Phase III Study Of The Safety And

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[Home](#) [Search](#) [Study Topics](#) [Glossary](#)

Full Text View

[Tabular View](#)

No Study Results Posted

[Related Studies](#)

MAGE-A3/12 Metastatic Cancer Treatment With Anti-MAGE-A3/12 TCR-Gene Engineered Lymphocytes

This study has been suspended.

First Received on January 7, 2011. Last Updated on March 14, 2012 [History of Changes](#)

| | |
|--------------------------------|--|
| Sponsor: | National Cancer Institute (NCI) |
| Information provided by: | National Institutes of Health Clinical Center (CC) |
| ClinicalTrials.gov Identifier: | NCT01273181 |

Purpose

Background:

- MAGE-A3/12 is a type of protein commonly found on certain types of cancer cells, particularly in metastatic cancer. Researchers have developed a process to take lymphocytes (white blood cells) from cancer patients, modify them in the laboratory to target cancer cells that contain MAGE-A3/12, and return them to the patient to help attack and kill the cancer cells. These modified white blood cells are an experimental treatment, but researchers are interested in determining their safety and effectiveness as a possible treatment for cancers that involve MAGE-A3/12.

Objectives:

- To evaluate the safety and effectiveness of anti-MAGE-A3/12 lymphocytes as a treatment for metastatic cancers that have not responded to standard treatment.

Eligibility:

- Individuals at least 18 years of age who have been diagnosed with metastatic melanoma, renal cell cancer, or another type of metastatic cancer that has not responded to standard treatment.

Design:

- Participants will be screened with a full medical history and physical examination, as well as blood and urine tests, tumor samples, and imaging studies.
- Participants will have leukapheresis to collect enough white blood cells for modification in the laboratory.
- Seven days before the start of anti-MAGE-A3/12 treatment, participants will have chemotherapy with cyclophosphamide and fludarabine to suppress the immune system in preparation for the treatment.

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NIH TOPIC MAPS

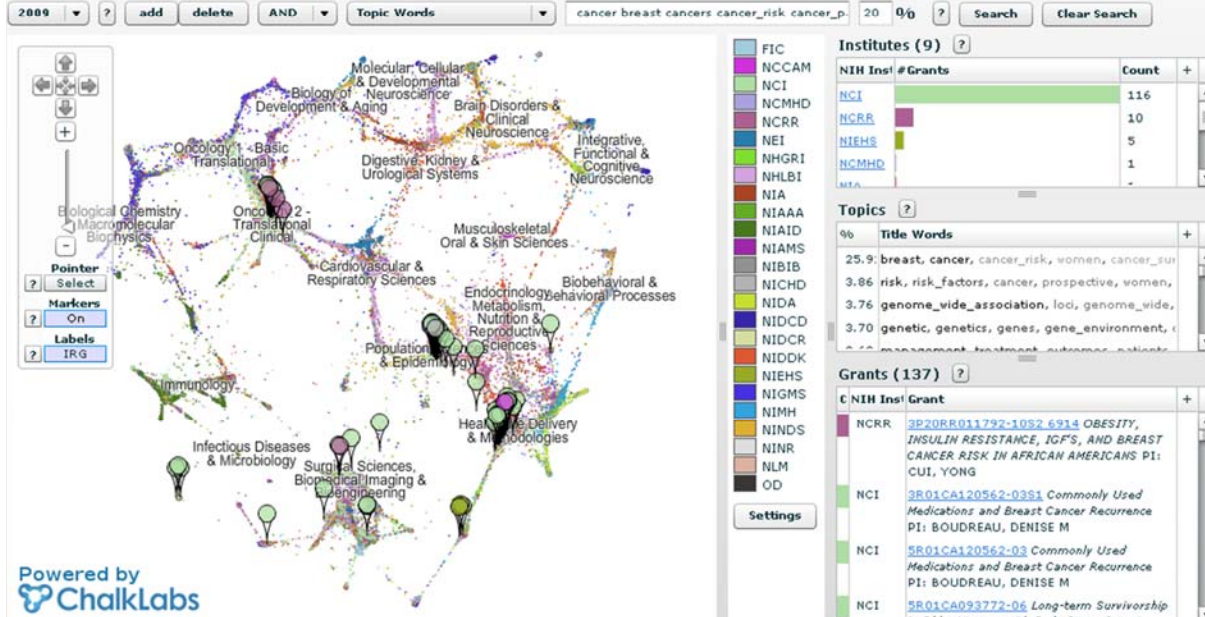
NIH Map Viewer

Show Topic Browser ?

Export Data

Methods

Feedback



<https://app.nihmaps.org>

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NIH TOPIC MAPS

NIH Topic Browser - Institute Information

NLM NCI NEI NCCAM NIEHS NIGMS NINR NICHD NINDS NIA NCMHD NIAMS NIH NIDDK NHLBI NIAAA NIMH NHGRI FIC NIBIB NIDCR NCCR NIAID NIDA NIDCD

Institute: NCI - National Cancer Institute

Export Data

Top Topics

| % | Topic | Topic Words | Title Words | Phrases | |
|------|---------------------|---|---|---|--|
| 4.05 | 210 | cancer cancer_center program cancer_research | cancer_center, program, cancer, core, spore, tr | anderson cancer_center, shared resource, can | |
| 2.42 | 397 | cancer tumor tumorigenesis tumors myc tumor | cancer, tumorigenesis, myc, tumor_suppressor, | tumor progression, malignant transformation, t | |
| 2.28 | 430 | cancer treatment therapy patients tumor disea | cancer, therapy, treatment, tumor, prostate, br | cancer treatment, treatment cancer, metastatic | |
| 1.73 | 16 | metastasis invasion tumor metastatic progressi | metastasis, cancer, invasion, breast, tumor, pro | tumor progression, invasion metastasis, cancer | |
| 1.47 | 345 | clinical_trials trials oncology cancer treatment cl | clinical_trials, clinical_oncology, oncology, unit, p | clinical_trials unit, phase_j clinical_trials, cancer | |
| 1.43 | 686 | cancer breast cancers cancer_risk cancer_patie | breast, cancer, cancer_risk, women, cancer_sur | breast cancer, breast cancer_risk, breast cancer | |
| 1.41 | 370 | tumor immunotherapy t_cells t_cell immunity an | tumor, immunotherapy, t_cell, immunity, t_cells, | antitumor immunity, adoptive immunotherapy, t | |
| 1.14 | 480 | therapeutic agents treatment therapies targets | therapeutic, targeting, agents, treatment, ther | therapeutic agents, therapeutic targets, therap | |
| 1.08 | 346 | biomarkers markers biomarker disease patients | biomarkers, biomarker, markers, disease, cance | disease progression, biomarker validation, seru | |
| 0.98 | 660 | prostate cancer pca cancer_cells incap androge | prostate, cancer, cancer_cells, androgen_recep | prostate cancer, prostate cancer_cells, prostate | |
| 0.90 | 171 | scientific committee administrative management | core, administrative, administration, planning, a | steering committee, internal external, institutor | |
| 0.87 | 182 | breast cancer her2 cancer_cells human mcd7 ne | breast, cancer, cancer_cells, her2, human, estre | breast cancer, breast cancer_cells, her2 neu, br | |
| 0.85 | 437 | risk risk_factors cases cohort prospective high | risk, risk_factors, cancer, prospective, women, e | cases controls, prospective cohort_study, modif | |
| 0.85 | 23 | tumor tumors tumor_growth mice treatment tun | tumor, tumors, cancer, tumor_growth, targeting | tumor regression, tumor burden, tumor progres | |
| 0.85 | 695 | core statistical projects biostatistics investigat | core, biostatistics, data_management, bioinform | biostatistics core, projects core, data_managem | |
| 0.79 | 603 | intervention interventions program prevention p | intervention, prevention, interventions, program | randomized_controlled trial, intervention reduce | |

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NIH TOPIC MAPS

A Topic Database of NIH-Funded Grants

NIH Topic Browser

Show Map Viewer ?

Export Data

Methods

Feedback

Topics by NIH Institute

Topics by Category

2009

?

add

delete

AND

Exact Text

cancer

Search

Clear Search

2009 Grants (137)

Institutes (9)

| Col | NIH Inst | Project/Subproj | Title | Investigator(s) | # 1 Topic | # 1 Topic Word | NIH Inst | # Grants | Count |
|-----|----------|------------------------|---|---------------------|-----------|----------------|----------|----------|-------|
| | NCRR | 3P20RR011792-10S2 6914 | OBESITY, INSULIN RESISTANCE, IGF'S, AND BREAST CANCER RISK IN AFRICAN AMERICANS | CUI, YONG | 686 (50%) | cancer brea... | NCI | 116 | 116 |
| | NCI | 3R01CA120562-03S1 | Commonly Used Medications and Breast Cancer Recurrence | BOUDREAU, DENISE M | 686 (42%) | cancer brea... | NCRR | 10 | 10 |
| | NCI | 5R01CA120562-03 | Commonly Used Medications and Breast Cancer Recurrence | BOUDREAU, DENISE M | 686 (42%) | cancer brea... | NIHES | 5 | 5 |
| | NCI | 5R01CA093772-06 | Long-term Survivorship in Older Women with Early Stage Breast Cancer | SILLIMAN, REBECCA A | 686 (42%) | cancer brea... | NCMHD | 1 | 1 |
| | NCI | 5R01CA064277-11 | Shanghai Breast Cancer Study | ZHENG, WEI | 686 (41%) | cancer brea... | NIA | 1 | 1 |
| | | | | | | | NCCAM | 1 | 1 |
| | | | | | | | NIHCHD | 1 | 1 |
| | | | | | | | NIHNR | 1 | 1 |
| | | | | | | | NHGRI | 1 | 1 |

Topics

Similar Grants

Show Top 100 on Map

| % | Topic | Topic Words | Title Words | Similar | C | NIH Inst | Grant |
|-------|-------|---|-------------------------------------|---------|-----|-------------------|--|
| 25.91 | 686 | cancer breast | cancers cancer_risk cancer_patients | 6.51 | NCI | 1R01CA129639-01A2 | Genome-Wide Association Study of Radiation Exposure and Bilateral Breast Cancer PI: BERNSTEIN, JONINE LISA |
| 3.86 | 437 | risk risk_factors cases cohort prospective high_ris | risk, risk_factors, v | 6.46 | NCI | 1K07CA136758-01A1 | Genetic variants in the PI3K pathway in mammographic density and breast cancer PI: THOMPSON, CHERYL L. |
| 3.76 | 544 | snps snp genome_wide_association cases genes | genome_wide_ass | 6.31 | NCI | 5P50CA116199-05 | UTMDACC SPORE in Breast Cancer PI: HORTOBAGYI, GABRIEL N |
| 3.70 | 173 | genetic genes risk susceptibility polymorphisms | genetic, genetics, tr | 6.02 | NCI | 2R01CA050385-21A1 | Risk Factors for Breast Cancer in Younger Nurses PI: WILLETT, WALTER C. |
| 2.62 | 252 | treatment patients management patient outcome | management, tre | 4.6 | NCI | 5R01CA127617-02 | Who Cares For Older Breast Cancer Survivors And How Does It Affect Quality? PI: MANDELBLATT, JEANNE |
| 1.64 | 235 | conference meeting workshop symposium scienti | th, conference, sy | | | | |
| 1.63 | 351 | community implementation community_based he | community, preve | | | | |
| 1.54 | 325 | million disease treatment united_states public_h | disease, treatmen | | | | |
| 1.51 | 580 | training candidate career skills applicant program | treatment, depres | | | | |

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NIH TOPIC MAPS

A Topic Database of NIH-Funded Grants

3P20RR011792-10S2 6914

Map Viewer

Topic Browser

Export Data

Methods

Feedback

2009 NCRR CUI, YONG

NIH RePORTer

Map Similar Grants

Highlight on Map

Show Parent/Other Subs

OBESITY, INSULIN RESISTANCE, IGF'S, AND BREAST CANCER RISK IN AFRICAN AMERICANS

The purpose of this study is to better understand how lifestyle factors and their interaction with genetic factors influence a women's risk of developing breast cancer. In order to learn more about the causes of breast cancer, we need to compare the lifestyles of people who have breast cancer with those who do not. 600 women are expected to be enrolled.

Top Topics

| | | | |
|-------|-----|---|---|
| 50.00 | 686 | cancer breast | cancers cancer_risk cancer_patients women cancer_surviv |
| 11.54 | 378 | african_american white ethnic racial african_americans black race white | |
| 11.54 | 548 | obesity weight bmi obese overweight weight_loss body_mass_index kg | |

Tags

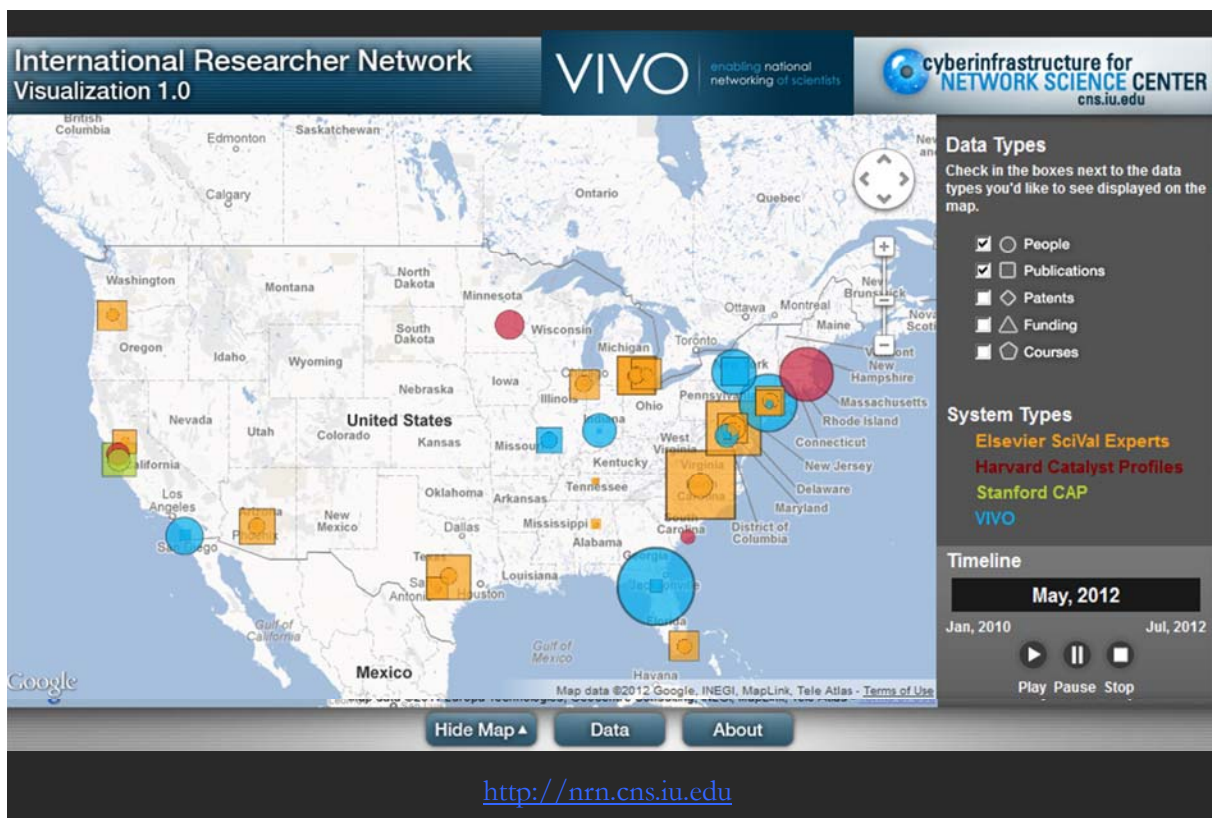
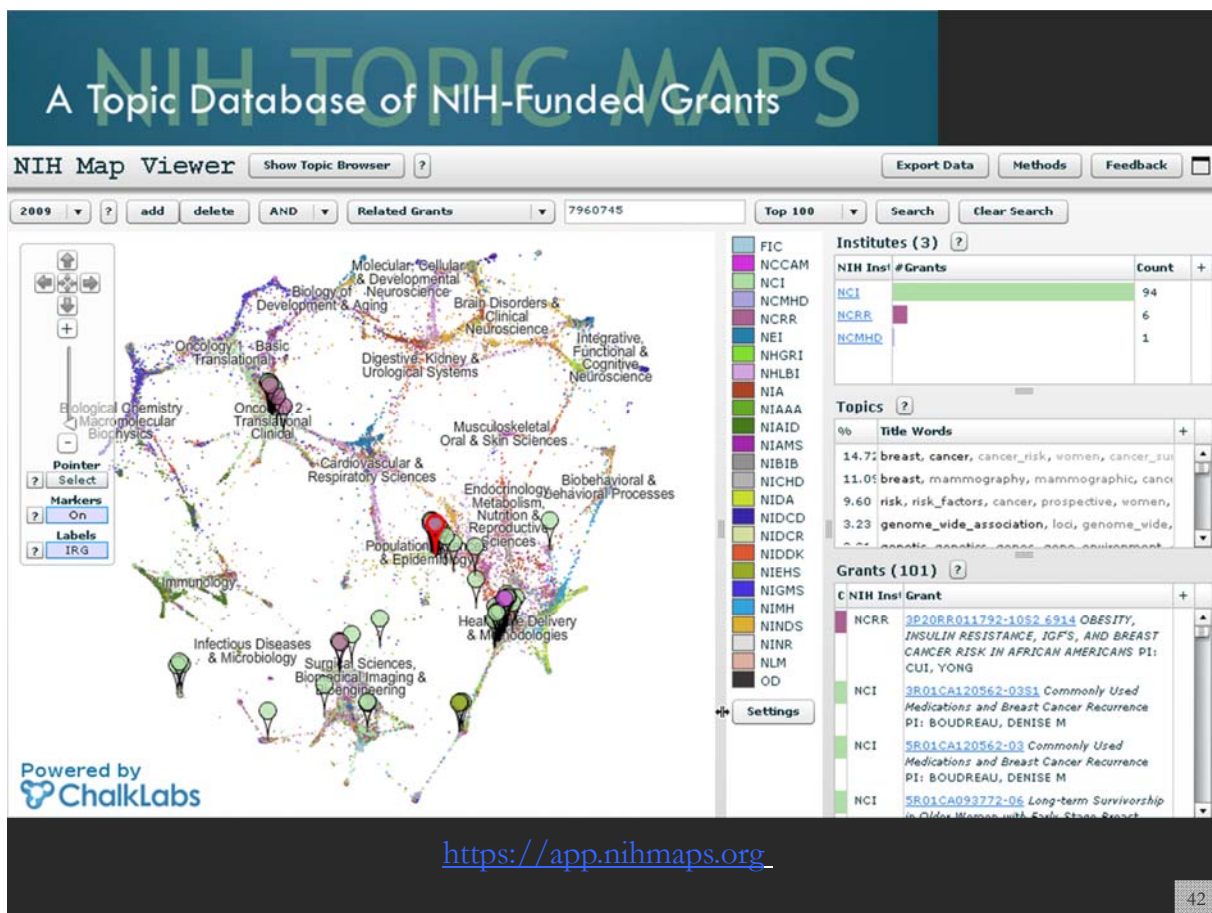
| |
|--|
| NIH Reporting Categories |
| Breast Cancer... Cancer... Obesity |
| NIH Concept Keywords |
| African American... cancer risk... Clinical Research... Computer Retrieval of Information on |

Similar Grants

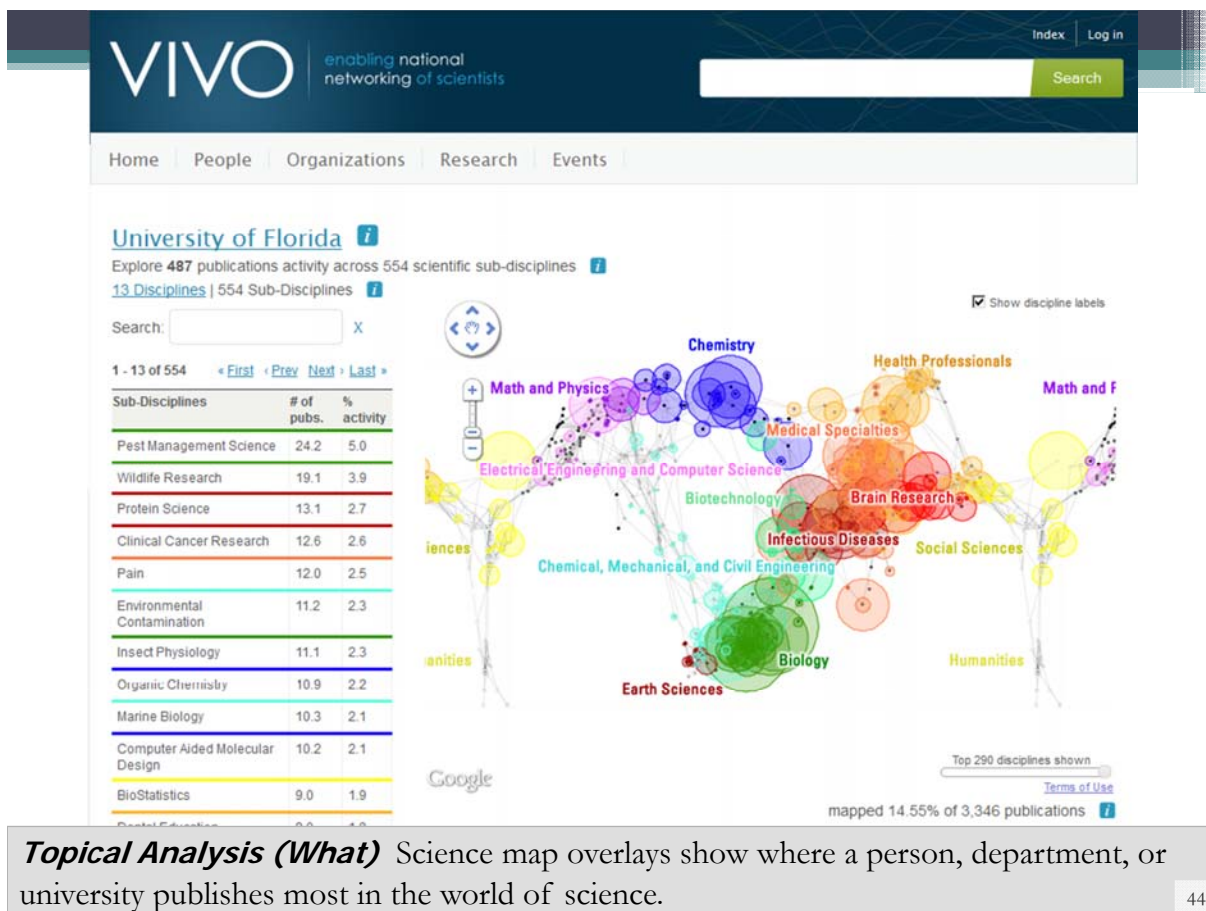
| Similar | Co | NIH Inst | Project/Subproj | Title | Investigator(s) | # 1 Topic | # 1 Topic Word |
|---------|----|----------|------------------------|--|------------------------|-----------|------------------|
| 0.54 | | NCI | 3K22CA127519-03S1 | Beyond Adiposity: Insulin and Inflammation in Postmenopausal Breast Cancer | NUNEZ, NOMELI PANIAGUA | 686 (33%) | cancer breast... |
| 0.54 | | NCI | 5K22CA127519-03 | Beyond Adiposity: Insulin and Inflammation in Postmenopausal Breast Cancer | NUNEZ, NOMELI PANIAGUA | 686 (33%) | cancer breast... |
| 0.48 | | NCI | 5R01CA128799-02 | Mechanisms for Increased Breast Cancer Risk in Type 2 Diabetes | LEROITH, DEREK | 66 (17%) | diabetes diab... |
| 0.48 | | NCI | 3P30CA013696-36S2 0007 | BREAST CANCER RESEARCH | PARSONS, RAMON E | 210 (40%) | cancer cancer... |
| 0.48 | | NCI | 3P30CA013696-36S3 0007 | BREAST CANCER RESEARCH | PARSONS, RAMON E | 210 (40%) | cancer cancer... |

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Geospatial Analysis (Where) A geospatial map of the US is used to show where what science is performed by whom.



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Other Examples

- Max Planck Research Networks, <http://max-planck-research-networks.net>
- NOAA's Science on a Sphere, <http://www.sos.noaa.gov>
- Disney, <http://disney.go.com/disneyinteractivestudios>
- UCSB's AlloSphere, <http://www.allosphere.ucsb.edu>

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