

OPENING UP SCIENCE WITH VIVO

Kristi L. Holmes, PhD

@kristiholmes

@vivocollab



Let's talk about the data...

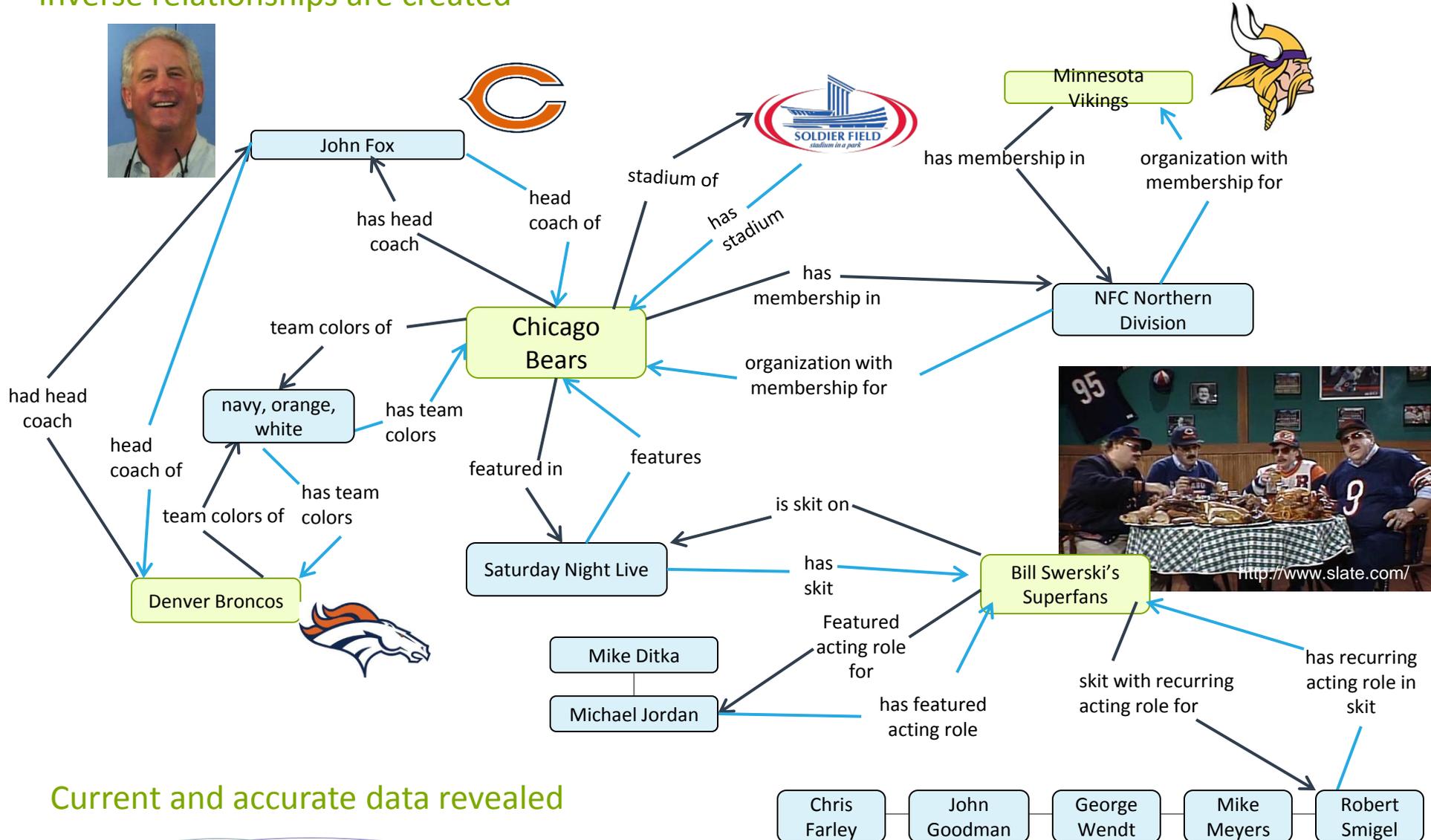
The Semantic Web isn't just about putting data on the web. It is about making links, so that a person or machine can explore the web of data. With linked data, when you have some of it, you can find other related data.



Detailed Data Relationships

Inverse relationships are created

Connections among concepts illustrated



Current and accurate data revealed

Let's think about why this is important on the institutional level...



Current challenges

Faculty

- *Research is increasingly more interdisciplinary*
 - How can you find collaborators, track competitors, and stay abreast of current research inside large institutions, at other institutions, and globally?
 - How can you find others with shared interests or expertise?
 - How can you build diverse teams? Find mentors? Be identified as a partner by community groups?

Support: facilities and personnel

- Library administration or directors of core facilities want to align their strategic plan with the evolving research needs of their clientele.
- Identifying growth areas of research through increasing publications, focused areas of research and grant dollars enables this task to become more evidence-based.

Administrators

- *Research institutions can be extremely large and diverse*
 - How can administrators showcase and monitor research activity, track competitors, and stay abreast of current research inside large institutions, at other institutions, and globally?
 - How can you enhance visibility and present a unified picture of an institution?

Research Networking

Information about scholars is optimized using a Web-based infrastructure of standards and technologies which allows for a distributable, machine readable description of data that allows for stronger data and smart web application linkages across many universities, agencies, societies both within the US and abroad.

Why is this important?

Linked data infrastructure allows for

- Visualizations, research and clinical data integration, and deep semantic searching across multiple types and sources of data
- By breaking data out of traditional database silos, research networking platforms promote a network effect within a single site and across multiple sites
 - The value of the network increases with the amount of linked data and applications that are available to consume the linked data.

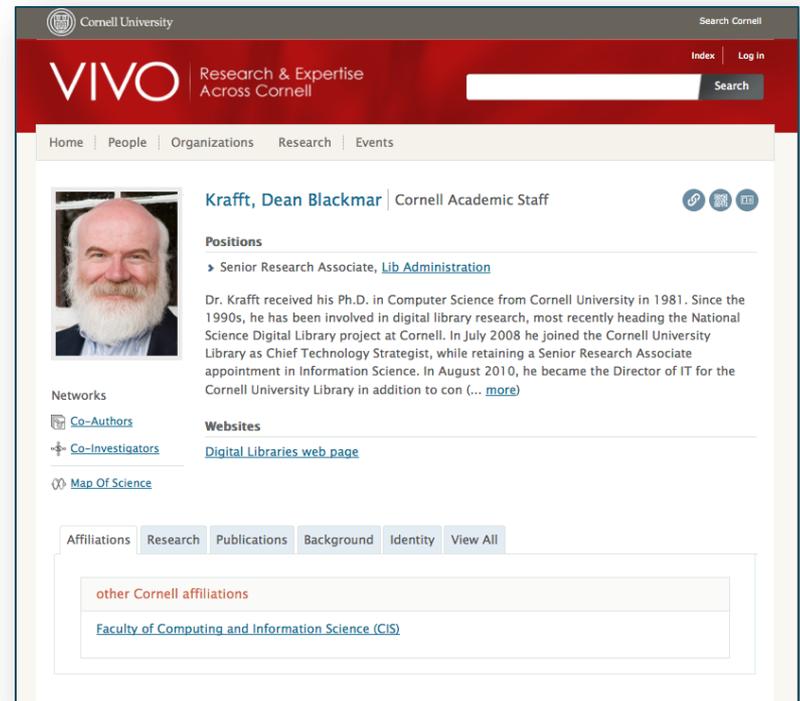


What is VIVO?

1. An open source semantic web application
2. An information model
3. An open community

VIVO

connect • share • discover



The screenshot shows the VIVO profile page for Dean Blackmar Kraft at Cornell University. The page features a red header with the VIVO logo and the text "Research & Expertise Across Cornell". Below the header is a navigation bar with links for Home, People, Organizations, Research, and Events. The main content area includes a profile picture of Dean Kraft, his name "Kraft, Dean Blackmar", and his affiliation "Cornell Academic Staff". Under the "Positions" section, it lists "Senior Research Associate, Lib Administration". A detailed biography follows, mentioning his Ph.D. in Computer Science from Cornell University in 1981 and his involvement in digital library research, including heading the National Science Digital Library project and serving as Chief Technology Strategist and Director of IT for the Cornell University Library. The page also has sections for "Networks" (Co-Authors, Co-Investigators, Map Of Science) and "Websites" (Digital Libraries web page). At the bottom, there are tabs for "Affiliations", "Research", "Publications", "Background", "Identity", and "View All". The "Affiliations" tab is active, showing "other Cornell affiliations" and "Faculty of Computing and Information Science (CIS)".

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Cornell University Search Cornell

VIVO Research & Expertise Across Cornell

Home | People | Organizations | Research | Events

Krafft, Dean Blackmar | Cornell Academic Staff

Positions
Senior Research Associate, [Lib Administration](#)

Dr. Krafft received his Ph.D. in Computer Science from Cornell University in 1981. Since the 1990s, he has been involved in digital library research, most recently heading the National Science Digital Library project at Cornell. In July 2008 he joined the Cornell University Library as Chief Technology Strategist, while retaining a Senior Research Associate appointment in Information Science. In August 2010, he became the Director of IT for the Cornell University Library in addition to con (... [more](#))

Networks
Co-Authors
Co-Investigators
Map Of Science

Websites
[Digital Libraries web page](#)

Affiliations | Research | Publications | Background | Identity | View All

other Cornell affiliations
[Faculty of Computing and Information Science \(CIS\)](#)

VIVO enabling national networking of scientists

Home | People | Organizations | Research | Events

College of Liberal Arts and Sciences

Explore 77 publications activity across 554 scientific sub-disciplines

13 Disciplines | 554 Sub-Disciplines

Search: [] x

Sub-Disciplines	# of pubs.	% activity
Organic Chemistry	10.7	13.9
Computer Aided Molecular Design	10.0	13.0
Applied Optics	6.2	6.7
Pharmaceutical Design	4.8	6.3
Inorganic Chemistry	2.6	3.4
Thermal Analysis	2.3	3.0
Mass Spectrometry	2.1	2.7
Aquaculture	2.0	2.6
Food Engineering	2.0	2.6
Surface Science	1.7	2.2
Peptides	1.4	1.8
Clinical Cancer Research	1.3	1.7

1 - 13 of 554 | First | Prev | Next | Last

Math and Physics | Chemistry | Health Professionals | Math and F
Electrical Engineering and Computer Science | Medical Specialties | Brain Research
Biotechnology | Interdisciplinary Diseases | Social Sciences
Chemical, Mechanical, and Civil Engineering | Earth Sciences | Biology | Humanities

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mapped 14.72% of 523 publications

VIVO

An open-source semantic web application that enables the discovery of research and scholarship across disciplines in an institution.

VIVO harvests data from verified sources and offers detailed profiles of faculty and researchers.

Public, structured linked data about investigators interests, activities and accomplishments, and tools to use that data to advance science.

VIVO enjoys a robust open community space to support implementation, adoption, & development efforts around the world.
See <http://wiki.duraspace.org/display/VIVO>



<http://vivoweb.org>



<http://twitter.com/VIVOcollab>



<http://www.facebook.com/VIVOcollaboration>

VIVO enabling national networking of scientists

Home | People | Organizations | Research | Events | Index | Help

Conlon, Michael | Associate Director and Chief Operating Officer

Positions

- Biomedical Informatics, Director 2010 -
- Clinical and Translational Science Institute, Faculty 2010 -
- Clinical and Translational Science Institute, Associate Director and Chief Operating Officer 2010 -
- Health Outcomes Policy, Faculty 2008 -
- Health Outcomes Policy, Research Associate Professor 1992 -
- Health Outcomes Policy, Interim Division Chief, Biomedical Informatics 2009 - 2010
- Clinical and Translational Science Institute, Associate Director 2009 - 2010
- Information Technology, Associate CIO, IT Architecture 2008 - 2010
- Information Technology, Director of Data Infrastructure 2002 - 2010
- MarCon Global Data Solutions, Chief Technical Officer 1997 - 2002
- University of Florida Academic Health Center, Chief Information Officer 1997 - 2002
- College of Liberal Arts and Sciences, Director, Information Resources and Technological Programs 1993 - 1997
- Statistics (CLAS), Research Assistant Professor 1983 - 1992
- Center for Instructional Research and Computing Activities, Assistant Director, Academic Computing 1982 - 1983
- Center for Instructional Research and Computing Activities, Director, Statistical Consulting Center 1980 - 1983

Publications in VIVO

36 in the last 10 full years (141 total)

Co-Author Network

Map Of Science

Co-Investigator Network

Dr. Conlon is Associate Director and Chief Operating Officer of the University of Florida Clinical and Translational Science Institute, Director of Biomedical Informatics, UF College of Medicine, and Principal Investigator of the NIH project "VIVO: Enabling National Networking of Scientists." His responsibilities include development of academic biomedical informatics, expansion and integration of research and clinical information resources and strategic planning for academic health and un (... [more](#))



A VIVO profile allows you to:

The screenshot displays a VIVO profile for Michael Conlon, Associate Director and Chief Operating Officer. The profile includes a header with the VIVO logo and navigation links. A sidebar on the left shows a profile picture, contact information (BDE, email, phone), and links to the Clinical and Translational Science Institute and VIVO Home Page. The main content area lists various positions held from 1992 to 2010, such as Director of Biomedical Informatics, Associate Director of Clinical and Translational Science Institute, and Chief of Health Outcomes and Policy. It also lists research areas like Biomedical Informatics, Informatics, and Electronic Data Capture. At the bottom, there are tabs for Affiliation, Publications, Research, Teaching, Service, Background, Contact, Identity, and Other. The Affiliation tab is active, showing a list of affiliations including preferred title, Research Computing Advisory Committee Member, CTSI Executive Operations Committee Member, National Informatics Key Function Committee of the Clinical and Translational Science Award Consortium Member, Society for Clinical and Translational Science Member, and Clinical Trial Compliance Oversight Committee Member.

Discover potential colleagues or campus resources by work area, authorship, & collaborations.

Showcase credentials, expertise, skills, and professional achievements for individuals and campus groups.

Connect within focus areas and geographic expertise.

Simplify reporting tasks and link data to external applications – e.g., to generate biosketches or CV or for reporting purposes.

Publish the URL or link the profile to other applications.

Display visualizations of expertise areas or complex collaboration networks and relationships.

University of Florida *i*

Explore **487** publications activity across 554 scientific sub-disciplines *i*

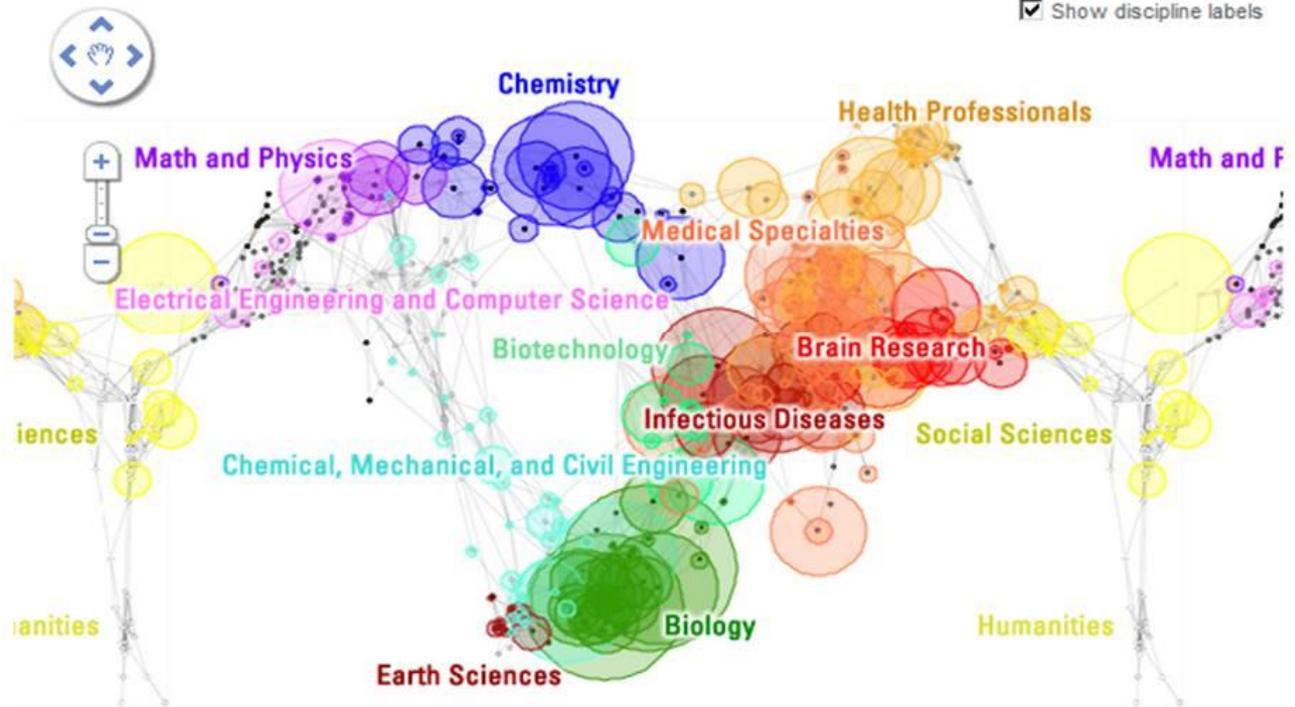
[13 Disciplines](#) | 554 Sub-Disciplines *i*

Search: X

1 - 13 of 554 [« First](#) [« Prev](#) [Next »](#) [Last »](#)

Sub-Disciplines	# of pubs.	% activity
Pest Management Science	24.2	5.0
Wildlife Research	19.1	3.9
Protein Science	13.1	2.7
Clinical Cancer Research	12.6	2.6
Brain	12.0	2.5

Show discipline labels



Top 290 disciplines shown

Google

[Terms of Use](#)

mapped 14.55% of 3,346 publications *i*



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Networks
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Math and Physics | Chemistry | Health Professionals | Math and F
Electrical Engineering and Computer Science | Medical Specialties | Brain Research
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mapped 14.72% of 523 publications

CTSA: Recommendations and Best Practices for Research Networking

The Research Networking Recommendations were approved by the CTSA Consortium Executive and Steering Committee on October 25, 2011.

Recommendations for Research Networking:

- **Recommendation:** All CTSA's should encourage their institution(s) to implement research networking tool(s) institution-wide that utilize **RDF triples** and an **ontology** compatible with the **VIVO ontology**.
- **Recommendation:** Information in people profiles at institutions should be publicly available as data as a general principle, specifically as **Linked Open Data**. To ensure quality of information, **authoritative electronic data sources versus manual entry** should be emphasized. Institutions will vary in the amount of information that they will include and make publicly available but the value is enhanced by the quality and quantity of information.
- **Recommendation:** Monitoring of the research networking landscape, technology, and tools should continue to be overseen by experts from the CTSA consortium (e.g., the **Research Networking group** of the **Informatics KFC**).

Building a large web of data, greater than any one effort

A globe of the Earth is shown from space, with a complex network of glowing blue and yellow lines overlaid on it. These lines represent data connections, forming a dense web that covers the continents. The lines are thicker in some areas, indicating higher concentrations of data activity. The background is the dark, starry space of the universe.

Data Creators, Data
Aggregators, & Data
Consumers

Repositories. Tools.
Applications. Workflows

A couple of local examples...



Brown University

- PLATFORM: VIVO
- DATA: Faculty CVs in Word or PDF converted to structured data by bibliographic services vendor
 - Data structures mapped to VIVO ontologies
 - Data converted to RDF and ingested into VIVO
 - Sparql queries create RDF graphs (relationships)



Brown University

https://vivo.brown.edu

Search



Manage your profile

Researchers@BROWN

Search

Home | People | Organizations | Help

Welcome to Researchers@Brown

Researchers@Brown brings together, in one site, publicly available information on the people, departments, and activities that collectively make up research and scholarship in all disciplines at Brown University.

The Spring 2014 initial release of Researchers@Brown contains data from institutional sources and verbatim content from faculty profiles in the Directory of Research and Researchers at Brown (DRRB), a precursor system. Faculty members who do not have a profile can request one by contacting the appropriate [faculty affairs office](#).

A new "[Publications](#)" section is now available. Features include:

- Publications harvested from PubMed every Sunday night
- Enter DOI or PMID to have full citation automatically retrieved
- Become part of weekly harvest by entering a few PMIDs
- Links to full text when available
- Future harvesting from other sources (Web of Science, etc.)

A new "Geographic Research Area" section, using a standard set of

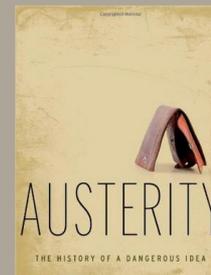
BROWN RESEARCH IN THE NEWS

»Progress on detecting glucose levels in saliva

»Cells to Silicon: Your Brain in 2050

»Epidemiology in South Africa: STI testing could boost HIV prevention
» [View More](#)

RECENT FACULTY BOOKS



Weill Cornell Medical College

- PLATFORM: VIVO
- DATA: a variety of sources, applied and leveraged in various ways...

Weill Cornell Medical College



Weill Cornell Medical College

Index | Log in

Search

- Home
- People
- Organizations
- Research
- Support

Welcome to the VIVO for Weill Cornell Medical College and the CTSC

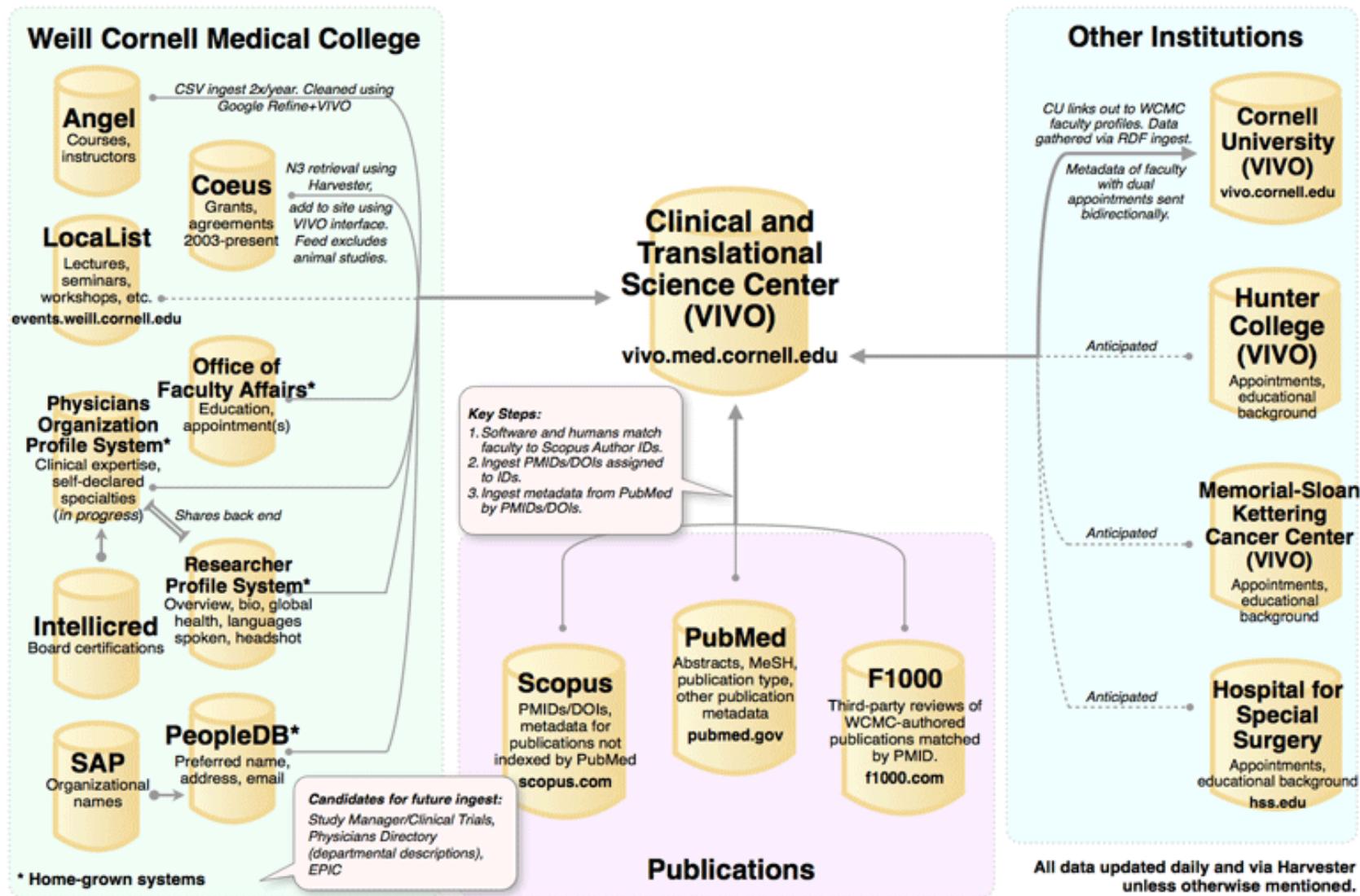
VIVO is a research-focused discovery tool that enables collaboration among scientists across all disciplines. VIVO contains information about researchers associated with the **Clinical and Translational Science Center**.



Browse or search for people, departments, courses, grants, and publications.

People (6,534)	Adjunct Faculty
Activities (7)	Affiliated Faculty
Events (69)	Courtesy Faculty
Organizations (3,368)	Faculty Member
Research (74,537)	Faculty Member Emeritus
Locations (324)	Full-Time WCMC Faculty
	Instructor
	Lecturer

WCMC CTSC's VIVO data sources



VIVO Dashboard

A Drupal-based tool for visualizing semantic data

Publications

Post-M.D. Appointments

Request Analysis

All

Most Cited

By Person

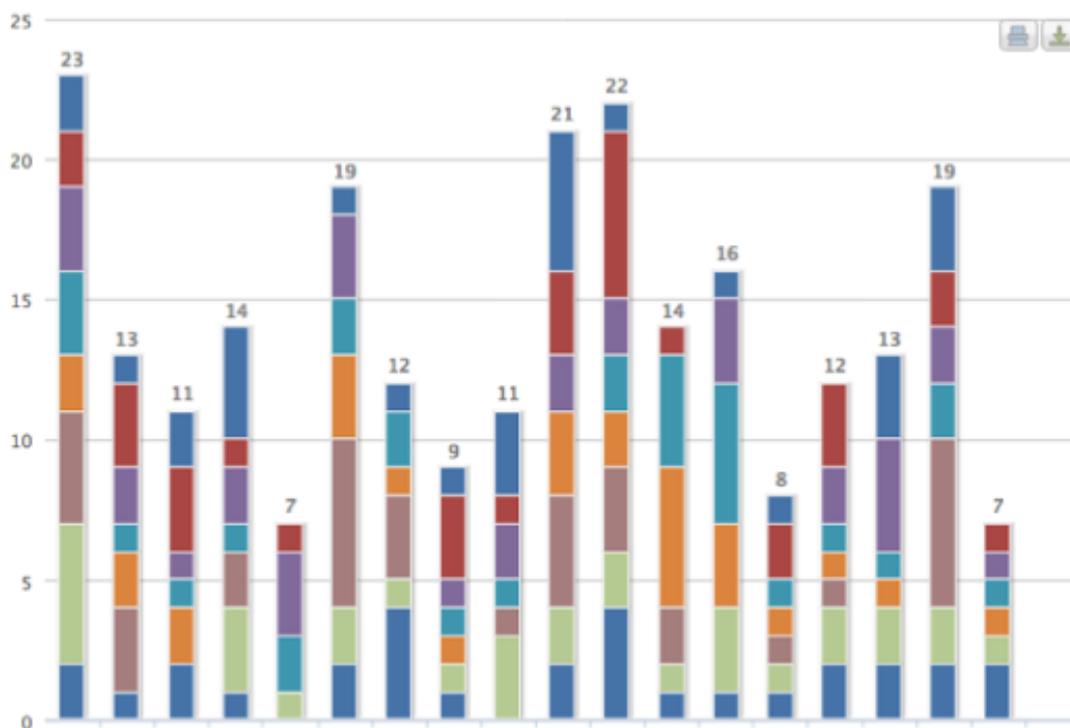
By Organization

PubMed Central Deposits

Publications

Graph

List



VIVO Dashboard

On demand publication reporting and more

Read more: goo.gl/snG20

Home Results

Year

1995 - 2013

By Month

Journal

Publication Type

- Article
- Clinical Guideline
- Comment
- Conference Paper
- Editorial Article
- In Process
- Letter
- Report
- Research Article
- Review

Organization

Developers: Don Carpenter, Zeheng Wang



Multi-disciplinary coverage includes:

-  arXiv
-  PubMed
-  CiNii*
-  RePEc
-  dblp
-  Scopus*
-  Web of Science*†
-  CrossRef*
-  Google Books
-  ORCID
-  Altmetric
-  figshare

*Subject to subscriptions †Lite and Premium web services

Data, Tools and Scientists

Principal Investigator/Program Director (Last, First, Middle)

BIOGRAPHICAL SKETCH
Provide the following information for the key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. DO NOT EXCEED FOUR PAGES.

NAME: Michael Conlon
ORCID iD: MCONLON

POSITION TITLE: Interim Director of Biomedical Informatics, University of Florida

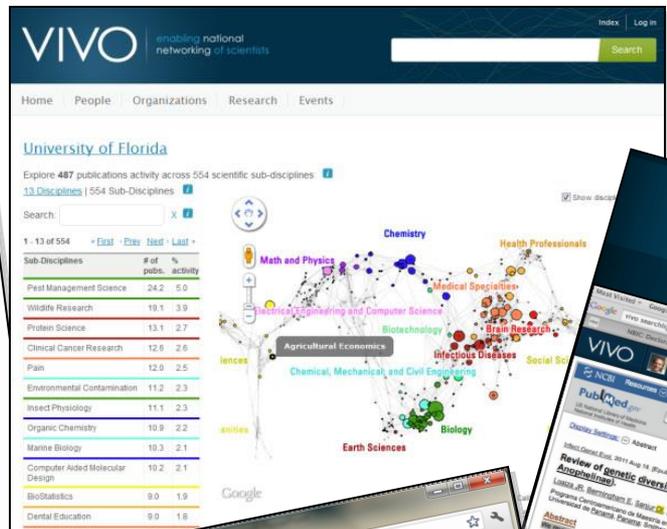
EDUCATION/TRAINING	DEGREE (if applicable)	YEARS	FIELD OF STUDY
Bucknell University, Lewisburg, PA	B.A.	1975	Mathematics
Bucknell University, Lewisburg, PA	B.A.	1975	Economics
University of Florida, Gainesville, FL	M.Stat	1979	Statistics
University of Florida, Gainesville, FL	Ph.D.	1982	Statistics

A. Positions and Honors

- 2008- Interim Director, Biomedical Informatics, College of Medicine, University of Florida.
- 2008- Associate Director, IT Architecture
- 2008- Associate Director, Clinical and Translational Science Institute, University of Florida
- 2008- Interim Director, Clinical and Translational Informatics Program, University of Florida
- 2008- Research Associate Professor, Department of Epidemiology and Health Policy Research, University of Florida
- 2005-08 PeopleSoft Implementation Officer, University of Florida
- 2002- Director of Data Infrastructure, University of Florida
- 2002- Co-founder and Chief Technology Officer, MarCon Global Data Solutions, Incorporated
- 1997-02 Assistant Vice President for Health Affairs, Academic Information Systems and Support and Information Officer, University of Florida Health Science Center
- 1993-07 Director of Information Resources and Technology Programs, College of Health, Learning and Performance Sciences, University of Florida
- 1992-08 Research Associate Professor, Data Infrastructure, University of Florida
- 1982-93 Asst. Dir. of Acad. Computing, University of Florida
- 1980-83 Director, Statistical Consulting Center, University of Florida

Other Experience

- 2009- Member, InCommon working group
- 2009- Chair, Health Science Center Information Systems
- 2008- Member, Health Science Center Information Systems
- 2008-09 Chair, University Planning Group on Information Systems
- 2007-08 Member, Health Science Center Information Systems
- 2004- Member, Educause Working Group on Information Systems
- 2003- Chair, Information Technology Advisory Committee
- 2003-05 Editor, AmStat Online, American Statistical Association
- 2002- Member, Information Technology Advisory Committee
- 2002-03 Chair, University Directory Services Committee
- 2001-03 Member, Microsoft national Higher Education Steering Committee



<http://vivosearch.org/>
<http://vivosearchlight.org/>
<http://vivo.cns.iu.edu/gallery.html>

VIVO search scenarios

- Multiple campuses of one university
- Regional connections
 - e.g., Illinois ties with regional federal labs
- Consortia – 62+ CTSA's, USDA plus land grant universities
- International
 - 13 Netherlands universities and the National Library
 - German Universities
 - AgriVIVO – UN FAO



CTSAsearch Home **What is CTSAsearch?**

CTSA Search
Participation Details
Google Search

Polyglot Home
Federated Search

Search for Investigators at Multiple Institutions

Current Status

- Total persons indexed: 48,544
- Total publications by those persons indexed as part of their profile: 450,131

Currently Harvested Sites	Platform
Cornell University	VIVO
Northwestern University	SciVal Experts and VIVO
Oregon Health Science University	SciVal Experts
University of California, San Francisco	Profiles
University of Florida	VIVO
University of Iowa	Loki

Indexed Content

- Persons and their associated properties (name, research statement, etc.)
- Academic Articles for each person with associated properties. Where DOIs or PMIDs exist additional information is added from MEDLINE, including
 - Abstract
 - Keywords
 - MeSH terms
 - Chemicals
 - Genes

We currently use pmid2doi data from crossref.org and pmid2doi.org to crosswalk DOIs to PMIDs.

We harvest linked open data through SPARQL endpoints using queries based on the VIVO ontology. If you would like to participate, contact [Drew Fishman](#) with details on how to access your SPARQL endpoint.

VIVO Searchlight

A convenient way to find researchers

<http://vivosearchlight.org/>
@mileswortho

Searchlight is a small app that automatically shows you VIVO profiles related to the page you're reading.



VIVO **Baldwin, Kristin** Assistant Professor The Scripps Research Institute

PubMed **A new twist on behavioral genetics by incorporating wild-derived mouse strains.**
Sudo T, Bada K, Ogasawara M, Sano H, Mori N, Kawanishi K, Takahashi A, Mouse Genomics Resource Laboratory, National Institute of Genetics.

Abstract
Behavior has been proven to be extremely variable among human individuals. One of the most important factors for such variations of behavior is genetic diversity. A variety of mouse strains are reportedly suitable animal models for investigating the genetic basis of large individual differences in behavior. Laboratory strains have been shown to exhibit different behavioral traits due to variations in their genetic background. However, they show low-level genetic polymorphism because the original colonies used for establishing the strains comprised a relatively small number of mice. Furthermore, because the laboratory strains were derived from fancy mice, they have lost the original behavioral phenotype of wild mice. Therefore, incorporation of inbred strains derived from wild mice of different mouse subspecies for behavioral studies is a marked advantage. In the long-term process of establishing a variety of wild-derived inbred strains from wild mice captured all over the world, a number of strains have been established. We previously identified a marked variety in behavioral traits using a Minkha battery. This review reports on the usefulness of wild-derived strains for genetic analyses of behavioral

VIVO Search

BETA

Known Issue: Data for Cornell University and Indiana University is incomplete. We continue to gather complete data from the seven partner institutions.

Find research and expertise

<http://vivosearch.org/>

alzheimer

People



People Publications¹⁷⁷ Organizations²⁹ Activities¹⁴ Events⁸ Courses Equipment

113 results

Morris, John Carl

... but not tau **Alzheimer** pathology in cognitively normal aging. Morris, John Carl The portable CDR translating the clinical dementia rating interview into a PDA ...

WashU in St. Louis School of Medicine

Rubin, Eugene Harold

... Prof of Psychiatry Rubin, Eugene Harold Rubin, Eugene Harold Very mild senile dementia of the **Alzheimer** type. I. Clinical assessment. Rubin, Eugene ...

WashU in St. Louis School of Medicine

Results by Institution

WashU in St. Louis School of Medicine	52
University of Florida	35
Harvard University	11
Weill Cornell Medical College	8
Cornell University	4
The Scripps Research Institute	3

AgriVIVO

HOME SEARCH TOOLS ABOUT CONTACT

AgriVIVO is a search portal built to facilitate connections between all actors in the agricultural field, bridging across separately hosted directories and online communities. **This is a prototype**

You can search for **people, organizations and events**. Read more on **how to have data included in AgriVIVO**. Read our new **FAQ**, and our **terms of use**.



Last import date (pilot): 27/01/2013 - Next import: early May 2013

9
DATA PROVIDERS

107
PEOPLE

4,186
ORGANIZATIONS

73
EVENTS

AgriVIVO Tools



Q Search for people

Enter keywords...

Examples: "climate change", "capacity building", "rural development", "information management"

Search by location

- Choose a country -

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Peptides	1.4	1.8
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Math and Physics | Chemistry | Health Professionals | Math and F
Electrical Engineering and Computer Science | Medical Specialties | Brain Research
Biotechnology | Interdisciplinary Diseases | Social Sciences
Chemical, Mechanical, and Civil Engineering | Earth Sciences | Biology | Humanities

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mapped 14.72% of 523 publications

VIVO Community



Pages

PAGE TREE

- [Introduction](#)
- [VIVO Technical Documentation](#)
- [Working Groups and Task Forces](#)
- [Community](#)
- [Search the VIVO wiki](#)

Pages

VIVO

Created by Jim Blake, last modified by Jon Corson-Rikert on Jan 30, 2015

VIVO is an open source [semantic web tool](#) for research discovery for finding people and the research they do. Originally funded by the U.S. National Institutes of Health, VIVO supports editing, searching, browsing and visualizing research activity across disciplines. VIVO's search returns results faceted by type for rapid retrieval of desired information across disciplines at one institution or, through a prototype at [vivosearch.org](#), across multiple distributed institutions.

What is VIVO?

- [Introduction | A short tour of VIVO | FAQs](#)
- VIVO is used at [many institutions](#) including international ones
- The latest version of VIVO is 1.7, released in June of 2014. See [what's new](#) .
- Follow us on social media – [Twitter](#), [blog](#)
- The VIVO project is a part of [Duraspace](#). Learn how to support VIVO through [institutional membership](#) in Duraspace.

Developers

- VIVO is a Java Enterprise application built around the Jena Semantic Web Framework. [Download VIVO's source code on GitHub](#)
- [Installation and upgrade guides](#)
- Want to quickly install and evaluate VIVO? Install a [VIVO Vagrant profile](#)
- Standing working groups
 - [Apps and Tools Working Group](#) – VIVO works with a variety of apps and tools to aid in data import, export, and reuse.
 - [Implementation and Development Working Group](#)
 - [VIVO-ISF Ontology Working Group](#)
- Shorter term, focused [task forces](#) and the process of proposing them



Calendar

The VIVO community offers a variety of workgroup sessions, conferences, and hackathons.

Tuesday, February 3

- 1:00pm [VIVO-ISF ontology open office hours](#)
- 3:00pm [VIVO i-fest planning call \(biweekly\)](#)

Thursday, February 5

- 1:00pm [Implementation/Development Call](#)

Friday, February 6

- 1:00pm [VIVO Steering Group](#)

Monday, February 9

- 4:00pm [VIVO Management Team](#)

Thursday, February 12

Events shown in time zone: Eastern Time



Participate in the community

- Have a question?

VIVO projects around the world



<https://wiki.duraspace.org/display/VIVO/Sites+implementing+VIVO>

Current and future VIVO efforts



VIVO Updates

VIVOs

- 120+ impl. & pilot projects
- 35+ countries
- 15+ CTSAs

Standards

- CTSAconnect Integrated Semantic Framework ontology
- ORCID
- CASRAI
- others

Partners

- Symplectic
- euroCRIS
- W3C, DERI, ConceptWeb Alliance, OpenPHACTS
- Institutions/organizations

Events

- VIVO conference Aug. 2015
- Spring Implementation Fest @ OHSU
- DuraSpace VIVO webinars

Community

- VIVO wiki
- Listservs
- Weekly calls
- GitHub
- vivoweb.org
- @VIVOcollab

What roles can the library play?

Libraries:

- Are a trusted, neutral entity
- Have a tradition of service and support
- Strive to serve all missions of the institution
- Are technology centers and have IT and data expertise

Library Staff:

- Have skills—information organization, instruction, usability, subject expertise
 - Have close relationships with their clients (buy in)
 - Understand user needs
 - Understand the importance of collaboration and know how to bring people together
 - Have knowledge of institution, research, education, clinical landscape
- 

What roles can the library play?

Librarians are successfully stepping up to the semantic web plate in a variety of roles related to institutional research networking platforms.

- Outreach and adoption activities
- Education and training on the use of the platform
- Ontology and controlled vocabulary expertise, extending the model
- Negotiations with data providers
- Programming, technical support
- Workgroup representation
- ...and more!

Research networking also provides an opportunity for libraries to become familiar with many concepts around linked open data and the semantic web.



Acknowledgements

Funding:

- Northwestern University Clinical and Translational Sciences Institute, NIH award UL1TR000150
- VIVO, NIH award U24 RR029822
- VIVO/DuraSpace

Questions/Follow-up:

- kristi.holmes@northwestern.edu
- kristi@vivoweb.org
- **Twitter:** @kristiholmes

Thanks!