# Building an Interdisciplinary Collaboration Community with

## VIVO

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\*VIVO Collaboration

### What is VIVO?

- VIVO is a researcher discovery tool that describes the research life at an institution.
- VIVO is an open-source semantic web application that faciliates collaboration.
- VIVO includes profiles of researchers, publications, grants, seminars, courses, and more!
- VIVO data is dynamically harvested from authoritative sources both locally and nationally.
- VIVO data is stored as linked open data that can be repurposed by a variety of web applications.
- VIVO is funded by a \$12.2 million National Institutes of Health grant to expand Cornell University Library's VIVO software and develop a national network of researchers.

Sam is a liaison librarian to the College of Dentistry and is often asked how students can stay up-to-date on current faculty publications.

Noah is seeking PhD programs in Materials Science and Engineering and wants to find a program with faculty specializing in his research interest, piezoelectric energy harvesting devices for powering wearable electronics and wireless sensor networks.

Sara wants to

conduct an

internship to help

determine her research

interests. She needs to find

labs on campus which are

conducting research in

evolutionary

genetics.

Kate is a senior majoring in Chemistry. She is seeking an advisor for her Honors Thesis, an analysis of water quality after the 2010 Gulf oil spill.

Students

Locate a mentor,

Find an institution

that has your area of

advisor, or

study

collaborator

Dr. Rogers is a new faculty member in Synthetic Biology. He wants to easily locate fellow researchers from around the country and world to apply for a grant.

Researchers

Locate potential

research area

collaborators in your

Find out what other

colleagues are doing

Track your competitors

can be used to auto-

Maintain a rich profile that

generate a CV or Bio-sketch

Dr. Gleeson relies grants each year. She's the application process

on grant funding to run her Biological Anthropology lab and applies for multiple looking for a tool to make smoother.

> Dr. Jacoby, the Chair of the Psychology Department, needs to gather a list of all the peer reviewed publications in his department for an annual report to the Dean.

Gautam, a recent Nanotechnology Post-Doc, is looking for a position in his

to represent the publication trends at Big State University. Visualizing these trends will this complex relationship.

Dr. Shepard, the University President, needs to present to the Board of Trustees on the complex reporting lines between the Medical School, the College of Public Health, and the Hospital. He wants to generate charts that accurately represent

Rupert Giles, the

Director of University

Libraries, is looking for a way

help subject specialists

know where to focus

their budgets.

- Aggregate publication lists for a department
- for annual reporting

The Dean of Liberal Arts & Sciences, needs to find all of the grants awarded to 17 departments in her college. She wants to do this quickly without contacting all the departmental faculty.

Chen Song, a journalist for the local newspaper, needs to find a professor of Microbiology to comment on a recent discovery made by the University.

Jane McCallahan, an AP Chemistry teacher, wants to find a Materials Science professor to Skype with her students about careers in

> Nas Torkman is looking for a neurosurgeon local University.

### Administrators

- Generate organizational charts for complex systems
- Monitor grants in a college
- Visualize the research trends at your University

Chemistry.

### The Public

- Discover an expert
- Interviews for Journalists

enabling national networking of scientists

### How You Can Become Involved with VIVO

1. Download, Adopt, and Implement VIVO

http://vivoweb.org/participate

2. Provide Data You can participate by providing machine readable data for research discovery:

http://vivoweb.org/contact

3. Develop Applications A collaborative development project for VIVO:

http://sourceforge.net/projects/vivo

4. Join VIVO on Facebook!

www.facebook.com/VIVOCollaboration

5. Attend the 2011 VIVO Conference:

http://vivoweb.org/conference



\*VIVO Collaboration: Cornell University: Dean Krafft (Cornell PI), Manolo Bevia, Jim Blake, Nick Cappadona, Brian Caruso, Jon Corson-Rikert, Elly Cramer, Medha Devare, Elizabeth Hines, Huda Khan, Deepak Konidena, Brian Lowe, Joseph McEnerney, Holly Mistlebauer, Stella Mitchell, Anup Sawant, Christopher Westling, Tim Worrall, Rebecca Younes. University of Florida: Mike Conlon (VIVO and UF PI), Beth Auten, Michael Barbieri, Chris Barnes, Kaitlin Blackburn, Cecilia Botero, Kerry Britt, Erin Brooks, Amy Buhler, Ellie Bushhousen, Linda Butson, Chris Case, Christine Cogar, Valrie Davis, Mary Edwards, Nita Ferree, Rolando Garcia-Milian, George Hack, Chris Haines, Sara Henning, Rae Jesano, Margeaux Johnson, Meghan Latorre, Yang Li, Jennifer Lyon, James Pence, Hannah Norton, Narayan Raum, Nicholas Rejack, Alexander Rockwell, Sara Russell Gonzalez, Nancy Schaefer, Dale Scheppler, Nicholas Skaggs, Matthew Tedder, Michele R. Tennant, Alicia Turner, Stephen Williams. Indiana University: Katy Borner (IU PI), Kavitha Chandrasekar, Bin Chen, Shanshan Chen, Ryan Cobine, Jeni Coffey, Suresh Deivasigamani, Ying Ding, Russell Duhon, Jon Dunn, Poornima Gopinath, Julie Hardesty, Brian Keese, Namrata Lele, Micah Linnemeier, Nianli Ma, Robert F McDonald, Asik Pradhan Gongaju, Mark Price, Michael Stamper, Yuyin Sun, Chintan Tank, Alan Walsh, Brian Wheeler, Feng Wu, Angela Zoss. Ponce School of Medicine: Richard J. Noel, Jr. (Ponce PI), Ricardo Espada Colon, Damaris Torres Cruz, Michael Vega Negrón. The Scripps Research Institute: Gerald Joyce (Scripps PI), Catherine Dunn, Sam Katkov, Brant Kelley, Paula King, Angela Nagarajan (WUSTL PI), Kristi L. Holmes, Caerie Houchins, George Joseph, Sunita B. Koul, Leslie D. McIntosh. Weill Cornell Medical College: Curtis Cole (Weill PI), Paul Albert, Victor Brodsky, Mark Bronnimann, Adam Cheriff, Oscar Cruz, Dan Dickinson, Richard Hu, Chris Huang, Itay Klaz, Kenneth Lee, Peter Michelini, Grace Migliorisi, John Ruffing, Jason Specland, Tru Tran, Vinay Varughese, Virgil Wong.

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Amelia is the data curation librarian and she needs to locate faculty seeking to collaborate with the library to preserve their datasets and other

research materials.

Librarians

to gather/curate/share

Identify research data

Track research to

Customize library

collections and

budgeting

services

prioritize collection

Anya often

overhears students in

the library saying how dif-

ficult it is to find faculty

advisors.

CV Data

Stan, the new

Biology librarian, wants

to become familiar with

what faculty are researching

in order to determine what

books and journals to

aquire.

Dr. Ying needs

to recruit

Post-Doctoral

assistants for his

Fractal lab group, but

doesn't know where

Publications

to start.

Research

VIVO

Grants

Teaching