

Visualization in VIVO:

A case study in how VIVO data and technology can be used

VIVO – A semantic web technology that enables collaboration and discovery among scientists across interdisciplinary networks

Coverage of different visualization levels

- **Macro:** International Researcher Network, Temporal Graph, Map of Science
- **Meso:** Temporal Graph, Map of Science
- **Micro:** Ego-Centric Network, Temporal graph

Visualizations for different entity layers

- **National layer** – Visualization of the adoption of National Researcher Networks at the international level and also their evolution through time
- **Institutional layer** – Analysis of the investments (funding), outputs (publications) and the disciplinary focus.
- **Individual layer** – Statistic and ego-centric scholarly networks on VIVO personal profile page

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Empower others to visualize VIVO data

- Existing Visualization data download in Graphml and CSV formats
- Provide data ready for analysis through visualization tools such as [Sci2](http://sci2.cns.iu.edu) (<http://sci2.cns.iu.edu>) and [Gephi](http://gephi.org) (<http://gephi.org>)
 - Organization hierarchy data
 - Bimodal network of people-organizations
 - Bimodal network of people-funding awards
 - Bimodal network of people-publications
 - Bimodal network of people-courses

University of Florida

How do you want to compare?

by Grants

Who do you want to compare?

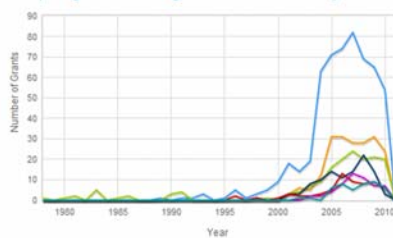
Search: X

Records 1 - 10 of 30 < First < Prev Next > Last >

Entity Label	Grant Count	Entity Type
<input checked="" type="checkbox"/> Continuing Education	562	UF Department, Agent, Non-Academic Department, Department
<input checked="" type="checkbox"/> Florida Museum of Natural History	203	Museum, Agent
<input checked="" type="checkbox"/> College of Agricultural and Life Sciences	166	Agent, UF College, College
<input checked="" type="checkbox"/> College of Engineering	103	Agent, UF College, College
<input checked="" type="checkbox"/> Evelyn F. and William L. McKnight Brain Institute of the University of Florida	64	UF Center, Agent, Center
<input checked="" type="checkbox"/> International Center	54	UF Department, Agent, Non-Academic Department, Department
<input checked="" type="checkbox"/> Florida Sea Grant	44	UF Center, Agent, Center
<input type="checkbox"/> Whitney Laboratory for Marine Bioscience	42	UF Research Laboratory, Agent, Laboratory, Research Laboratory
<input type="checkbox"/> Water Institute	38	UF Center, Agent, Center
<input type="checkbox"/> College of Dentistry	35	Agent, UF College, College

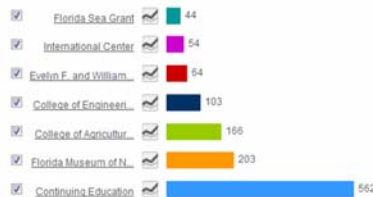
Save as CSV Clear

Comparing Grants of Organizations in University of Florida



Total Number of Grants

You have selected 7 of a maximum 10 organizations to compare. Clear



Temporal Analysis (When) Temporal visualizations of the number of papers / funding awarded at the institution, school, department, and people level

Sub-Disciplines	# of publs.	% 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
Pain	12.0	2.5
Environmental Contamination	11.2	2.3
Insect Physiology	11.1	2.3
Organic Chemistry	10.9	2.2
Marine Biology	10.3	2.1
Computer Aided Molecular Design	10.2	2.1
BioStatistics	9.0	1.9
Dental Education	9.0	1.8
Hormone Research	9.0	1.9

Topical Analysis (What) Science map overlays will show where a person, department, or university publishes most in the world of science.

Conlon, Mike

Associate Director and Chief Operating Officer

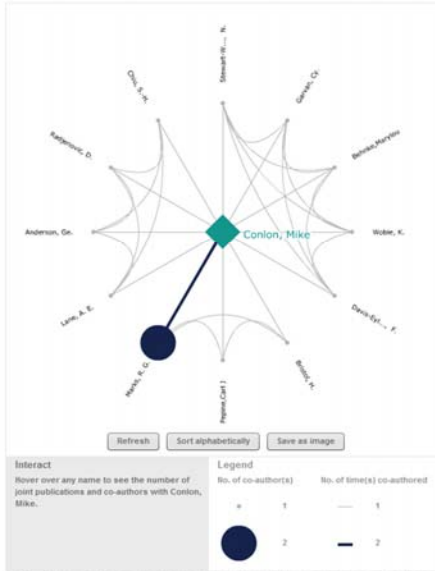


Co-Author Network (GraphML File)

Profile

Conlon, Mike
Associate Director and Chief O...
VIVO profile | Co-author network
5 Publication(s)
12 Co-author(s)
1991 First Publication
2004 Last Publication

Note: This information is based solely on publications which have been loaded into the VIVO system. This may only be a small sample of the person's total work.



Sorted into communities; Co-authors are placed near one another if they frequently collaborate with each other and each other's co-authors in the graph.

Network Analysis (With Whom?) Who is co-authoring, co-investigating, co-inventing with whom? What teams are most productive in what projects?



International Researcher Network Visualization 1.0

cyberinfrastructure for NETWORK SCIENCE CENTER cns.iu.edu

Data Types
Check in the boxes next to the data types you'd like to see displayed on the map.
 People
 Publications
 Patents
 Funding
 Courses

System Types
 Elsevier SciVal Experts
 Harvard Catalyst Profiles
 Stanford CAP
 VIVO

Timeline
 Oct, 2011
 Nov, 2011
 Play Pause Stop

UF | George A Smathers Libraries University of Florida

VIVO enabling national networking of scientists

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Home > People Organizations Research Events Index Help

People Find By: Subject Area Department Courses



Geospatial Analysis (Where?) Where are the various NRN instances and what data holdings do they have? <http://nrn.cns.iu.edu>

