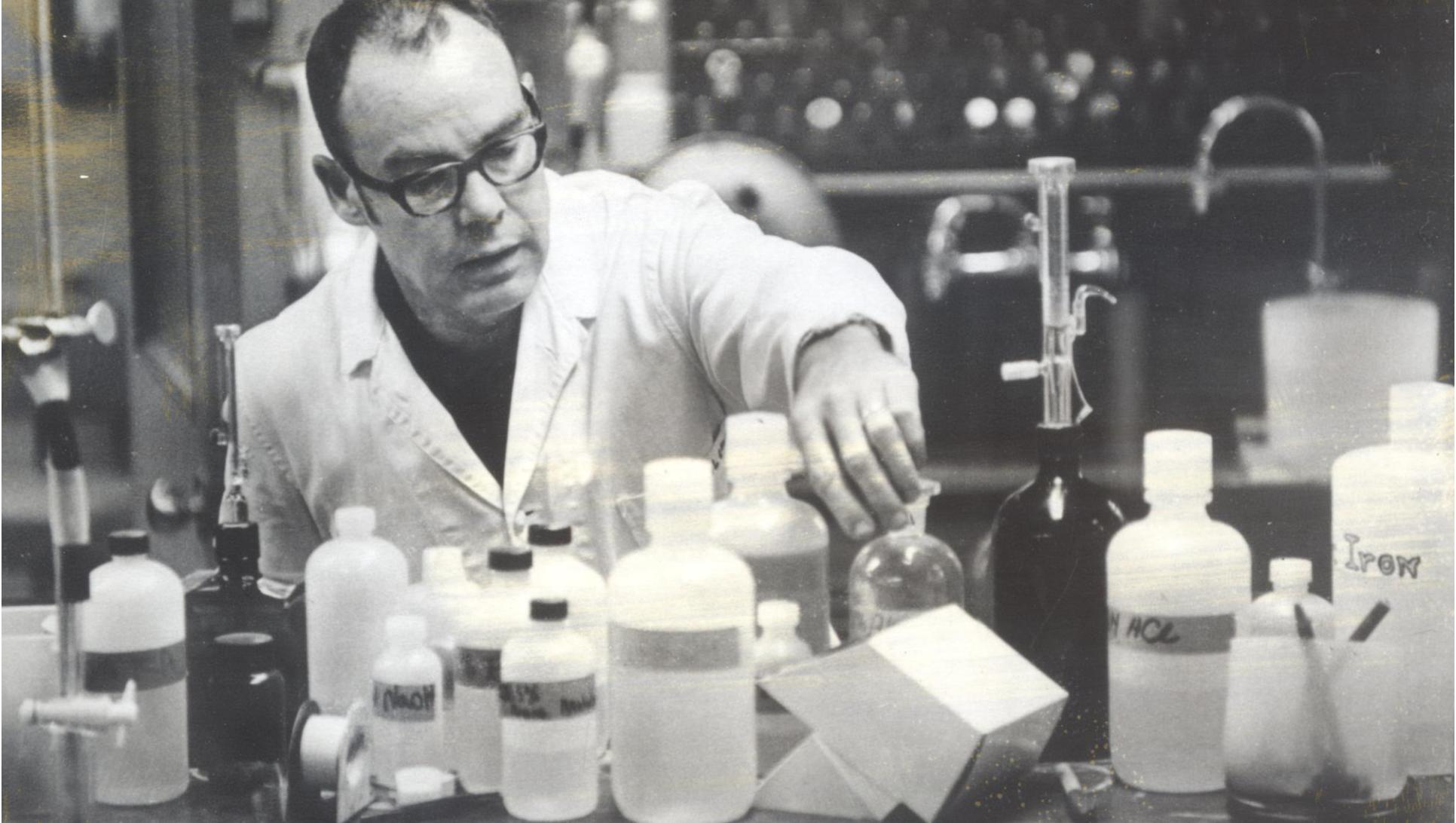
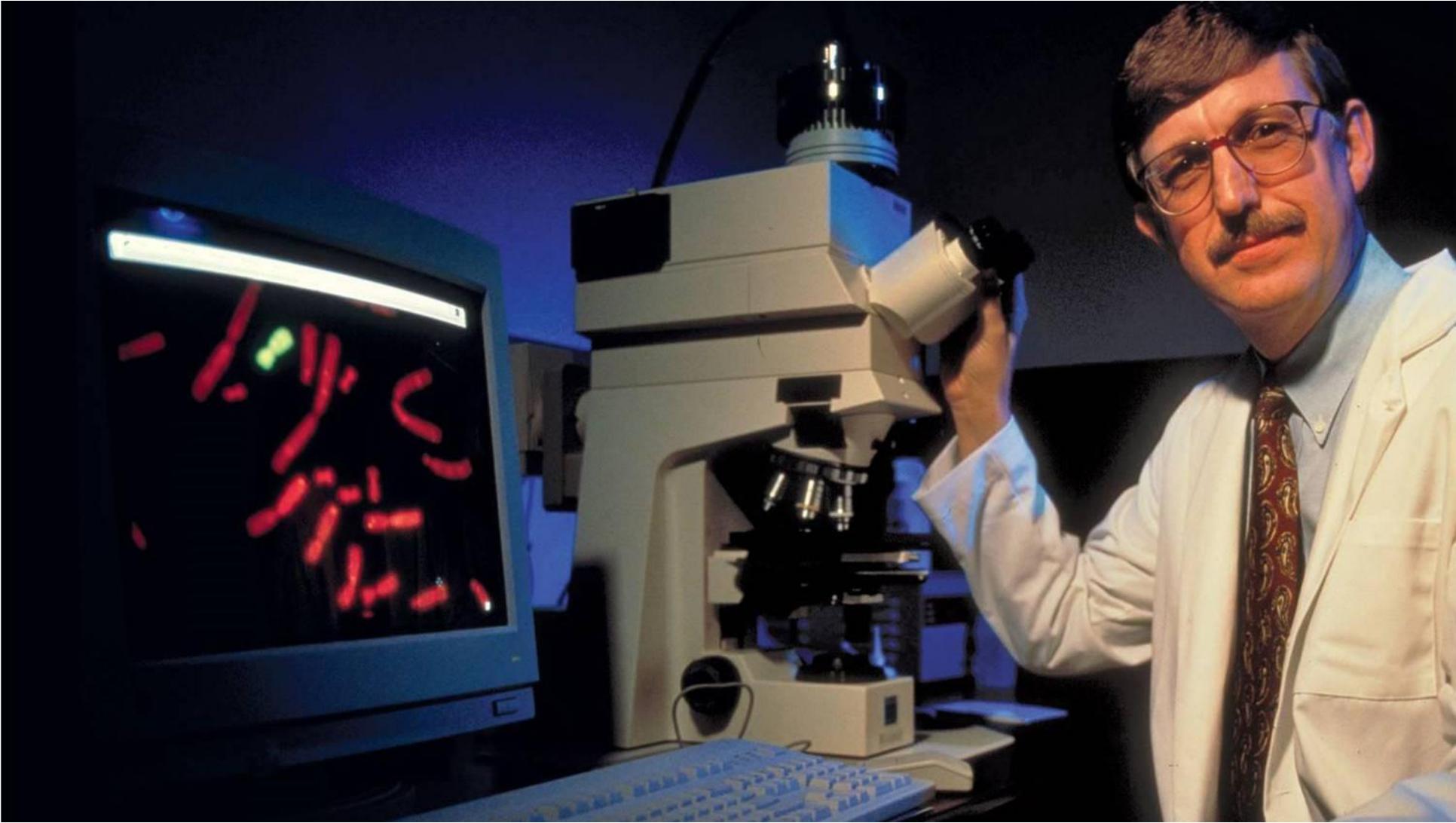


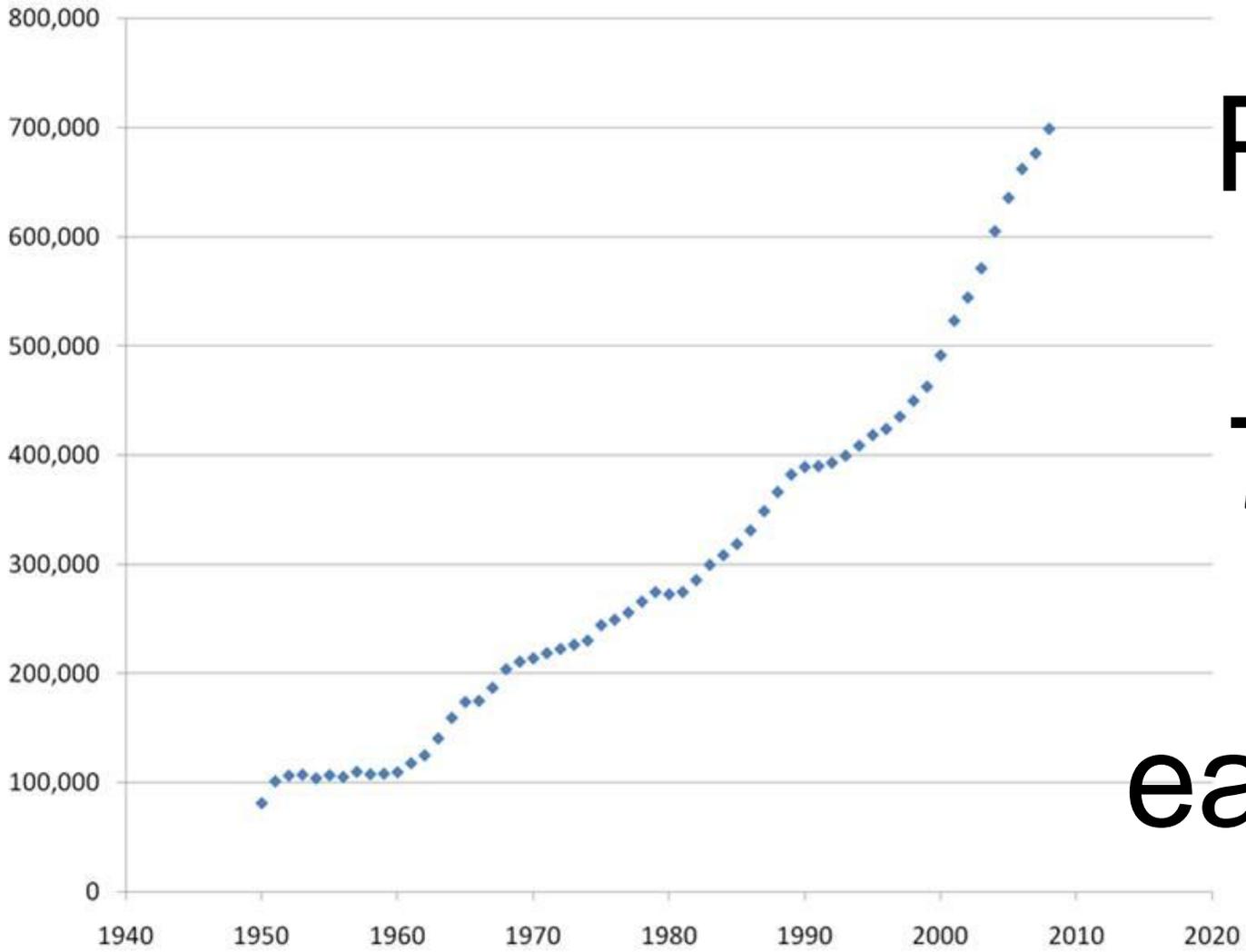
VIVO:
Data, Tools and Community
for Research Discovery





But then ...





PubMed
adds
700,000
articles
each year





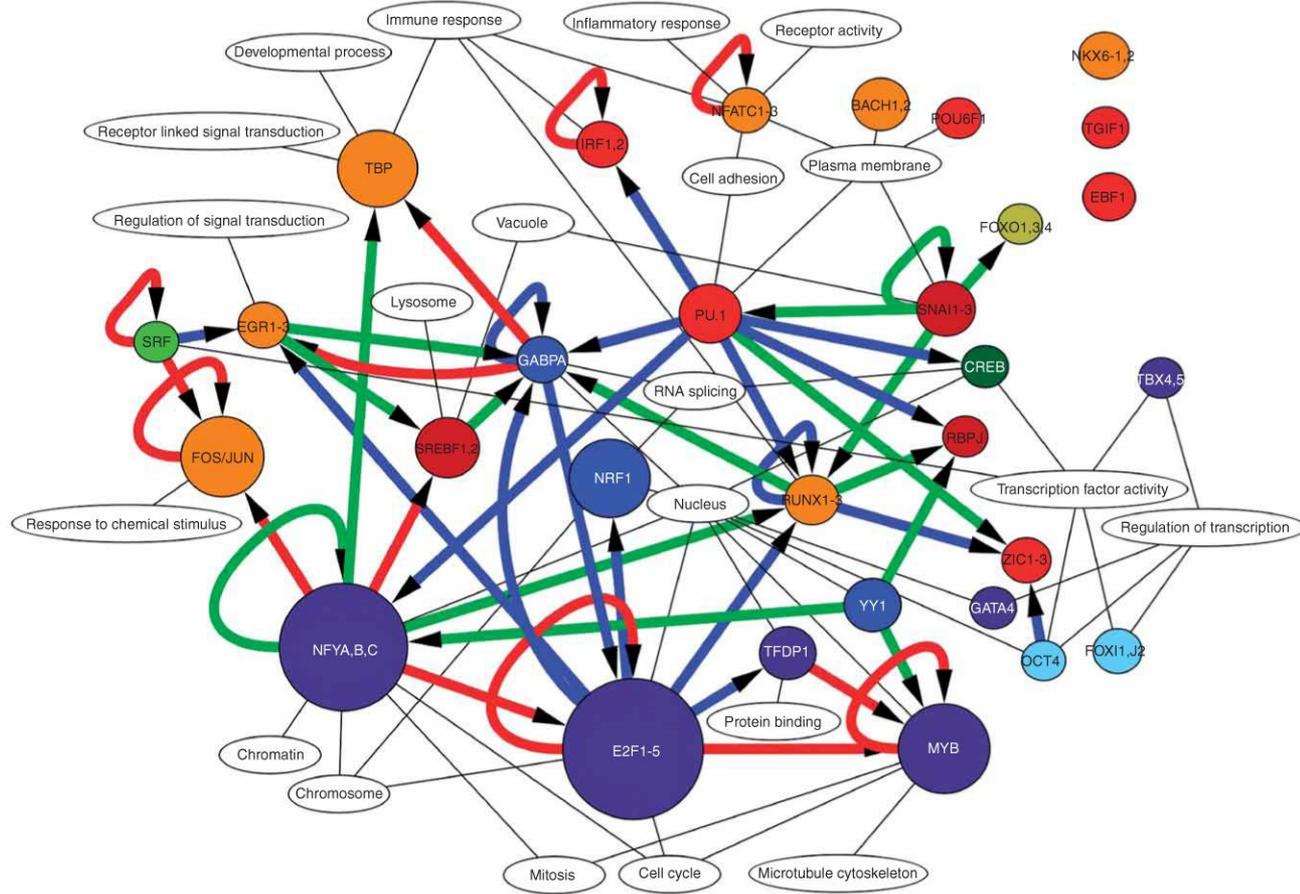
University	2003	2004	2005	2006	2007	2008	2009	2010
 Harvard University	1	1	1	1	1	1	1	1
 University of California, Berkeley	4	4	4	4	3	3	3	2
 Stanford University	2	2	2	3	2	2	2	3
 Massachusetts Institute of Technology	6	5	5	5	5	5	5	4
 University of Cambridge	5	3	2	2	4	4	4	5
 California Institute of Technology	3	6	6	6	6	6	6	6
 Princeton University	7	7	7	8	8	8	8	7
 Columbia University	10	9	9	7	7	7	7	8
 University of Chicago	11	10	10	8	9	9	8	9
 University of Oxford	9	8	8	10	10	10	10	10
 Yale University	8	11	11	11	11	11	11	11
 Cornell University	12	12	12	12	12	12	12	12
 University of California, Los Angeles	15	16	16	14	13	13	13	13
 University of California, San Diego	14	13	13	13	14	14	14	14
 University of Pennsylvania	18	15	15	15	15	15	15	15
 University of Washington	16	20	20	17	16	16	16	16
 University of Wisconsin–Madison	27	18	18	16	17	17	17	17
 Johns Hopkins University	24	22	22	20	19	20	19	18
 University of California, San Francisco	13	17	17	18	18	18	18	18
 University of Tokyo	19	14	14	19	20	19	20	20
 University College London	20	25	25	26	25	22	21	21
 University of Michigan, Ann Arbor	21	19	19	21	21	21	22	22
 ETH Zurich	25	27	27	27	27	24	23	23
 Kyoto University	30	21	21	22	22	23	24	24
 University of Illinois at Urbana-Champaign	45	25	25	25	26	26	25	25

2010 Shanghai ranking of world universities

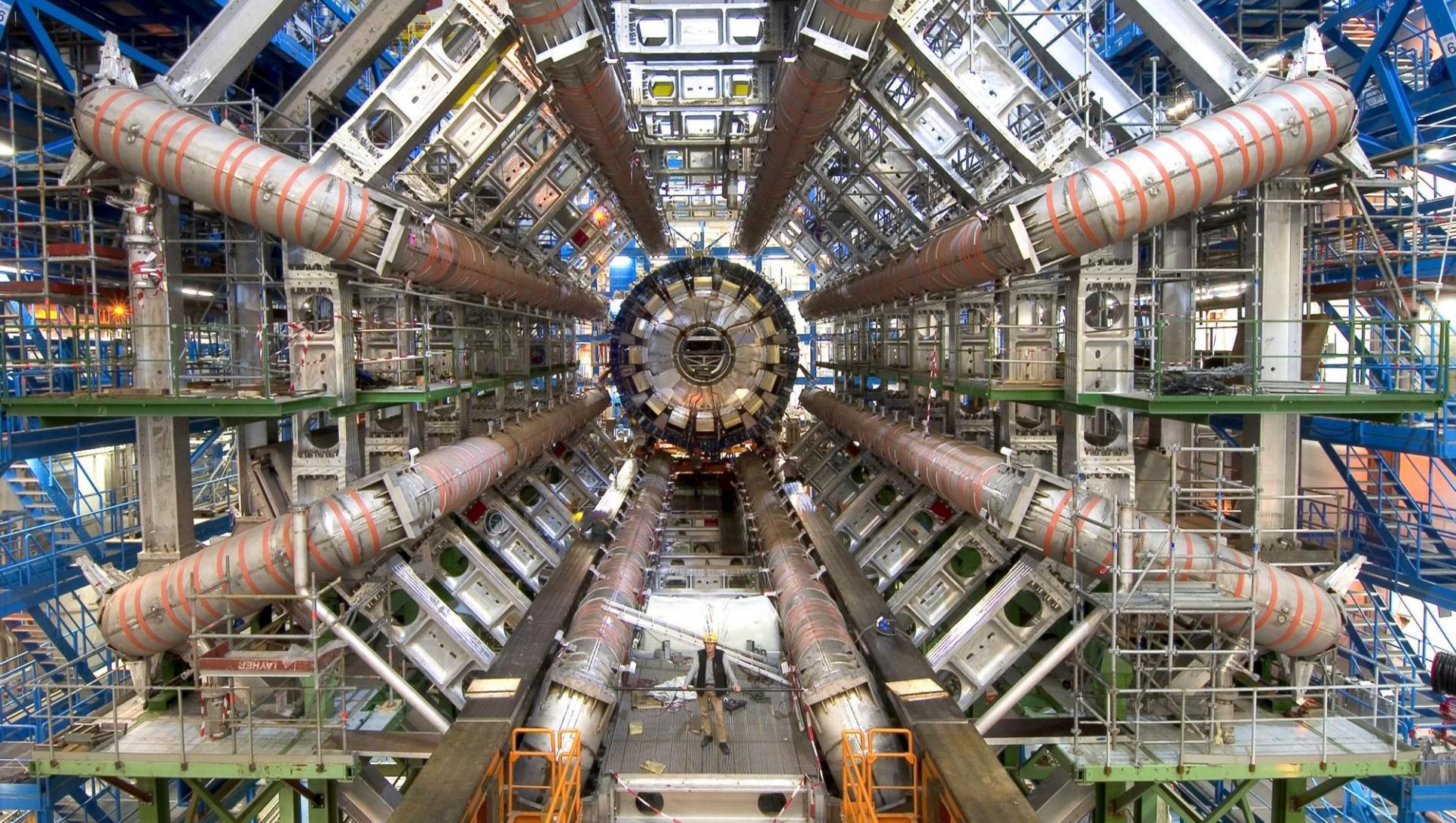
http://en.wikipedia.org/wiki/Academic_Ranking_of_World_Universities

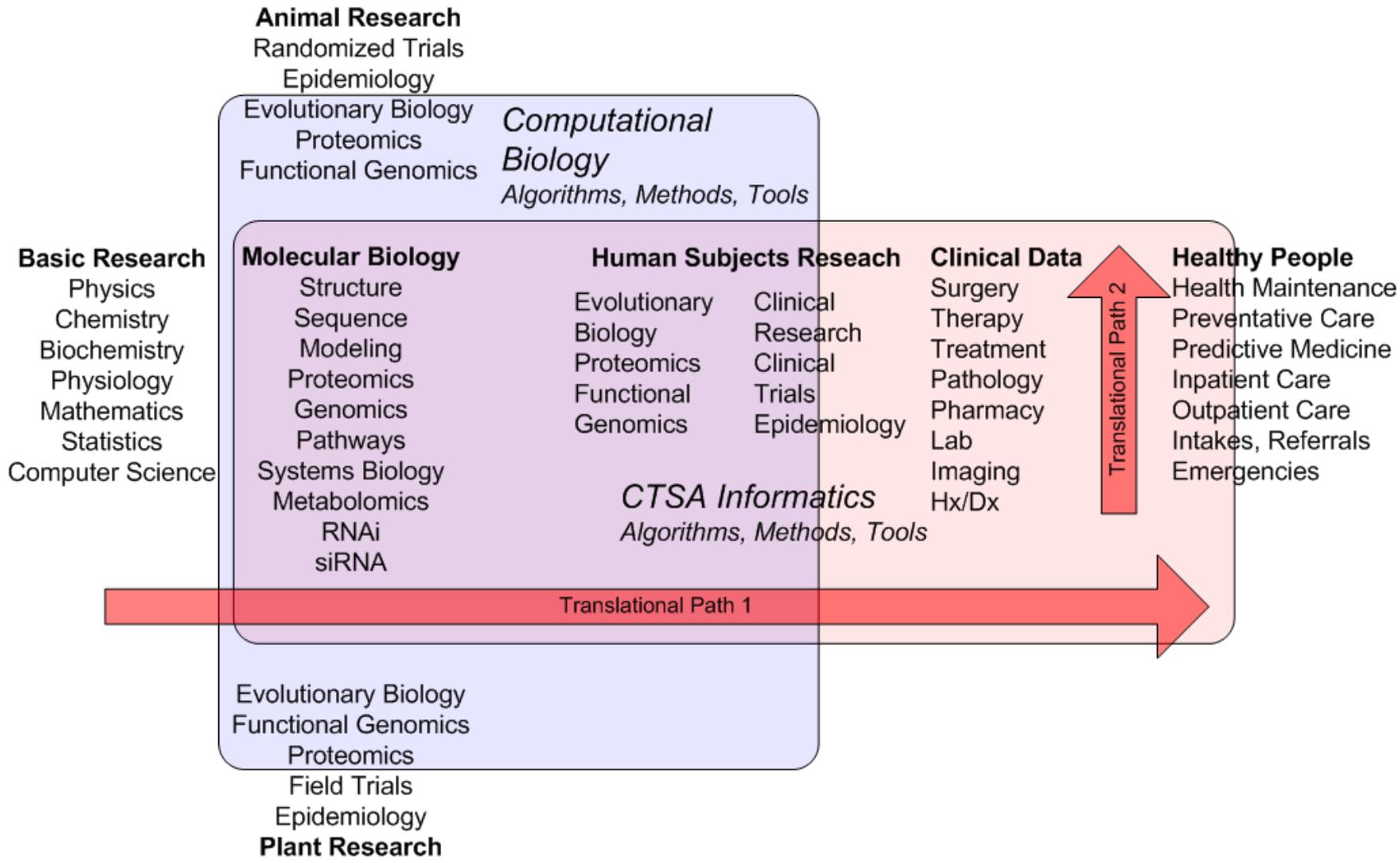
twitter

How do we respond?



The FANTOM Consortium & Riken Omics Science Center, **The transcriptional network that controls growth arrest and differentiation in a human myeloid leukemia cell line** *Nature Genetics* 41, 553 - 562 (2009)

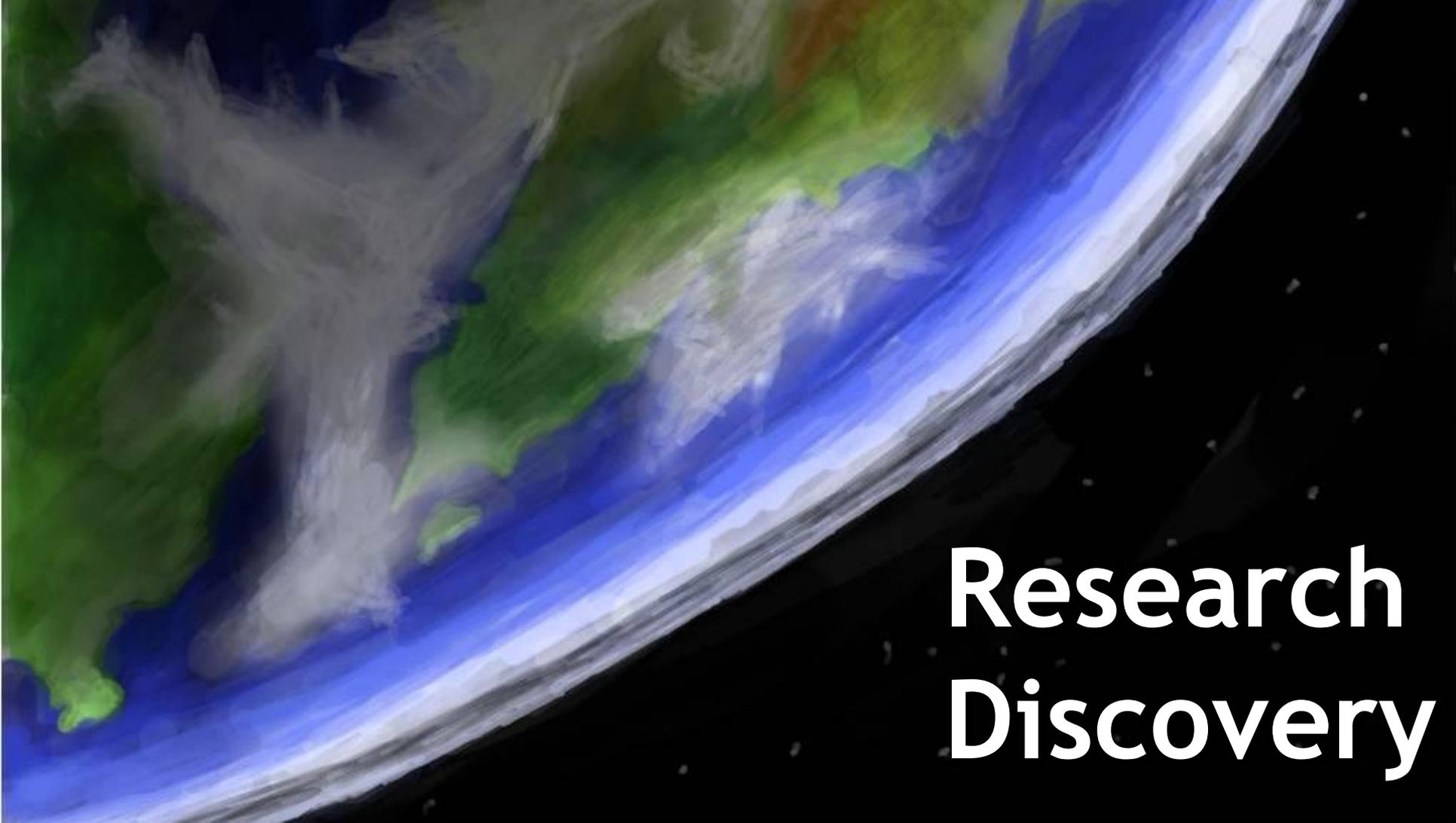






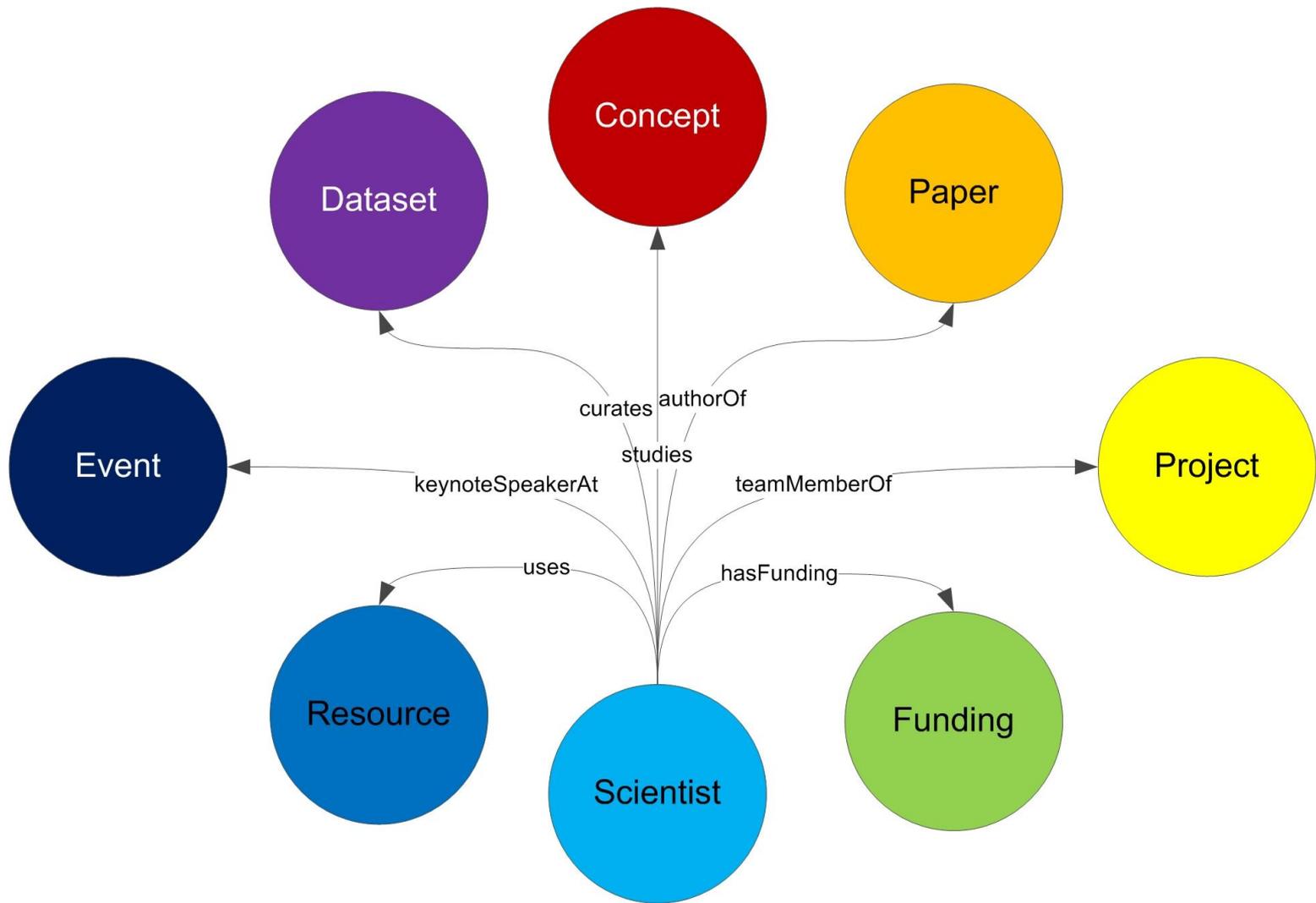


How can we know
what is going on,
build teams,
solve problems?



**Research
Discovery**





How can we create a world
platform for research
discovery?

VIVO

Incomplete Data Disclaimer

- Accuracy of the visual elements is good to the underlying data
- Data are also approximate data
 - Small part of the environment is a general representation
 - are being understood in regard with spatial information
- To guard against these data require an understanding of the factors along with the visual elements

Under the hood: **DISCLAIMER**

All data images are created by our app - a link to each page is available right if buttons above the map on the slide.





enabling national networking of scientists

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An interdisciplinary national network

Enabling **collaboration** and discovery among **scientists** across all disciplines.

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The national network of scientists will facilitate the discovery of researchers and collaborators across the country. Institutions will participate in the network by installing VIVO, or by providing semantic web-compliant data to the network.



VIVO Conference 2011 >
 August 24-26, 2011
 Gaylord Hotel & Conference Center,
 Washington DC

[VIVO Conference 2010 materials](#)

In the Press

August 15, 2011
[Wellspring Partners with VIVO, Launches Flintbox Researcher Profiles](#)
Source: Wellspring Worldwide | Flintbox

August 10, 2011

Events

[Library and Information Technology Association \(LITA\) National Forum 2011](#)
 Sep 29 - Oct 2, 2011
 St. Louis, MO

[Internet2 Fall 2011 Member Meeting](#)
 Oct 3 - Oct 6, 2011

Blog

SEP [2011 VIVO Conference](#)
 2 The 2011 VIVO Conference was simply amazing! We'd like to thank everyone for attending and contributing to the conference and we'd especially like to thank our keynote

VIVO is open standards and open linked data regarding science - people, papers/products, funding, events/presentations, resources, projects/studies, data, concepts - and the relationships between them

VIVO is open source, community maintained software tools for research discovery and networking

VIVO is a world community of collaborators - scientists, implementers, developers



VIVO

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networking of scientists[Log in](#)[About](#)[Contact Us](#)[Support](#)[Index](#) [Search](#)[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 and Policy](#), Faculty 2008 -
- › [Health Outcomes and Policy](#), Research Associate Professor 1992 -
- › [Health Outcomes and Policy](#), Interim Division Chief, Biomedical Informatics 2009 - 2010
- › [Clinical and Translational Science Institute](#), Associate Director 2009 - 2010

**13 publications**
within the last 10 years
(121 total) [RDF](#) mconlon@ufl.edu

3522738872

- › [Clinical and Translational Science Institute](#)
- › [VIVO Home Page](#)

[Co-Author Network](#)[Co-Investigator
Network](#)



Profile



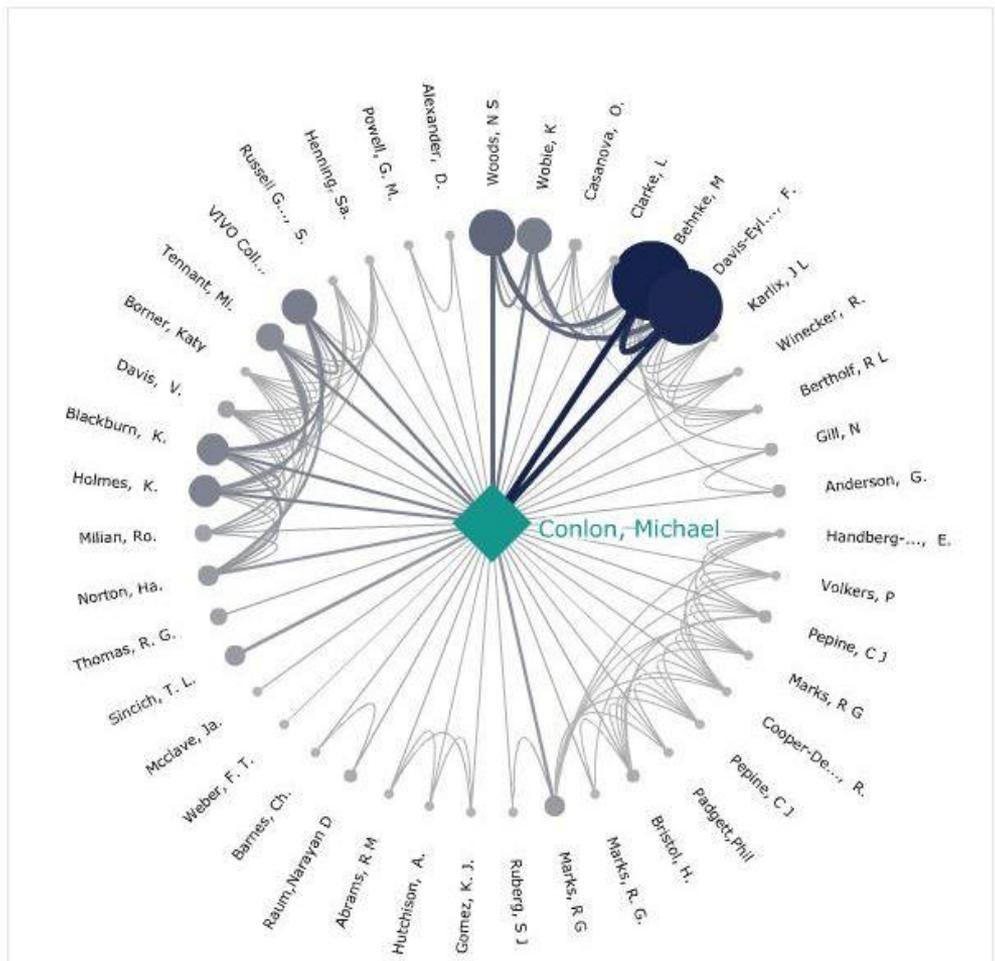
Conlon, Michael

Associate Director and Chief O...

[VIVO profile](#) | [Co-author network](#)

- 120 Publication(s)
- 43 Co-author(s)
- 1981 First Publication
- 2011 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.



University of Florida i

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

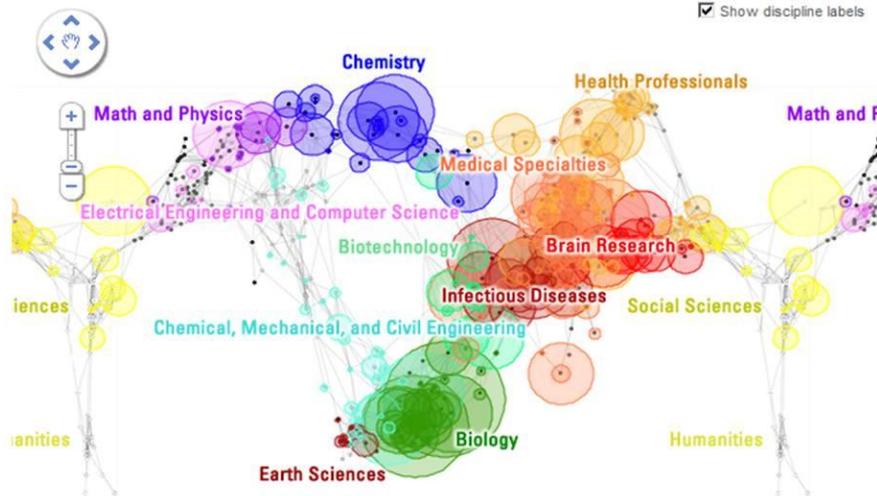
[13 Disciplines](#) | 554 Sub-Disciplines i

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
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

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Top 290 disciplines shown

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mapped 14.55% of 3,346 publications i

ScienceMap.
Examine
collections
of publications
for individuals,
work groups,
institutions

Conlon, Michael Associate Director

Clinical and Translational Science



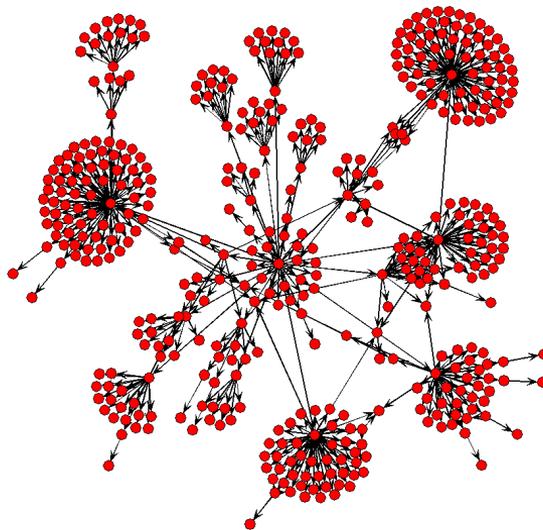
description

Dr. Conlon is Associate Director and C

```
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  xmlns:j.0="http://vivo.ufl.edu/ontology/vivo-ufl/"
  xmlns:j.1="http://xmlns.com/foaf/0.1/"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:j.2="http://vivoweb.org/ontology/core#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" >
  <rdf:Description
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  <j.2:featuredIn
    rdf:resource="http://vivo.ufl.edu/ontology/vivo-ufl:
  <j.2:principalInvestigator
    rdf:resource="http://vivo.ufl.edu/ontology/vivo-ufl:
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  <j.2:featuredIn
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    rdf:resource="http://vivo.ufl.edu/ontology/vivo-ufl:
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  <j.2:workFax>352 273 8703<
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  <j.2:personInPosition
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  <rdf:type rdf:resource="http://vivo.ufl.edu/ontology/vivo-ufl:
  <j.2:hasResearchArea
    rdf:resource="http://vivo.ufl.edu/ontology/vivo-ufl:
  </rdf:Description
</rdf:RDF
```

```
processOrg<-function(uri) {
  x<-xmlParse(uri)
  u<-NULL
  name<-
  xmlValue(getNodeSet(x,"//j.1:
  )
  subs<-
  getNodeSet(x,"//j.1:
  if(length(subs)==0
  list(name=name,subs=
  else {
    for(i in 1:length
      sub.uri<-
      getURI(xmlAttrs(subs
      u<-c(u,process
    }
  list(name=name,s
  }
}
```

Software reads VIVO RDF and displays



VIVO produces both HTML and RDF

Find research and expertise

People



People include faculty members, librarians and academic staff.
Try these keywords: [pesticides](#), [cardiology](#), [alternative energy](#)

A demonstration of multi-institutional search

A group of eight top research institutions dedicated to facilitating global research efforts recognize the challenges faced by researchers in uncovering parallel and related efforts, and have decided to join forces in standardizing the way institutional data gets published. Each institution uses the VIVO software to manage and publish up-to-date information about researchers and their activities.

Distribution of institutional data



VIVO Searchlight

A convenient way to find researchers

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



The screenshot shows a web browser window with a PubMed article page. A VIVO Searchlight overlay is positioned at the top of the page, displaying a list of researcher profiles. The profile for Kristin Baldwin is highlighted. The background shows the PubMed article interface, including the article title, author information, and search options.

VIVO Searchlight

- Schlegel, Peter N
Wash Cornell
- Fox, Geoffrey
Indiana University
- Head, Steve
Scripps Research Institute
- Baldwin, Kristin**
Scripps Research Institute
- Province, Michael A
WashU in St. Louis

Baldwin, Kristin
Assistant Professor
The Scripps Research Institute

Dr. Kristin Baldwin studies the sense of smell by genetically visualizing the neural circuits of the mouse olfactory system and uses mouse cloning and stem cell technology to investigate the molecular mechanisms that govern neural circuit formation and function throughout the nervous system.

[Open VIVO profile](#)

PubMed
US National Library of Medicine
National Institutes of Health

Search

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Exp. Acad. 2011;90(4):347-54.

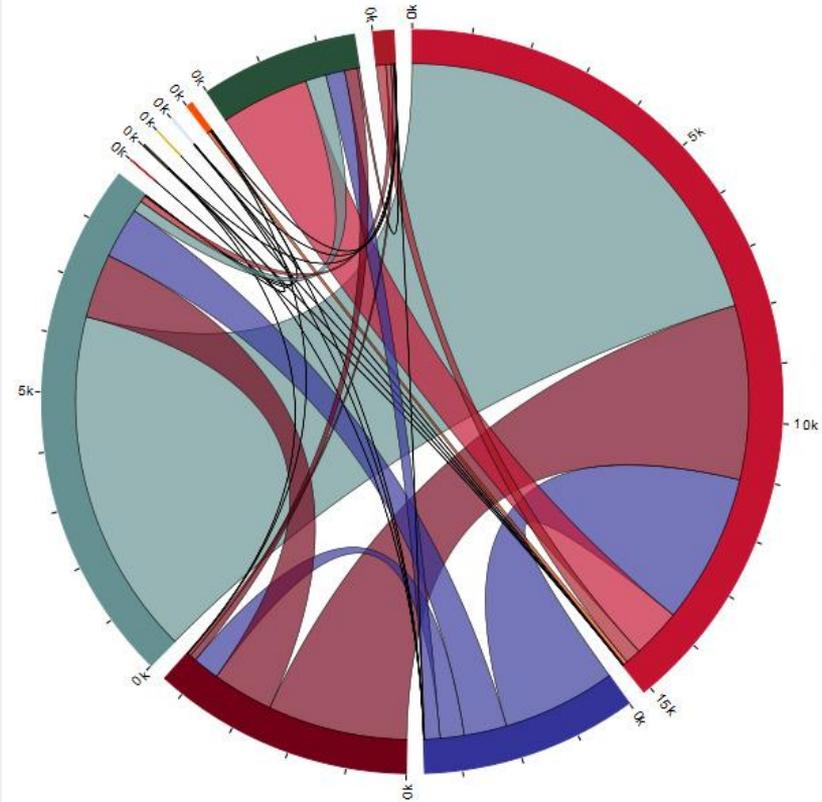
Inter-institutional Collaboration Explorer

This figure at right displays “collaborative publications” found at 2 or more Researcher Networking websites.

The idea that institutions don't work together and that biomedical research is conducted in silos is not true. Researchers, even when separated by great distances, are in fact willing to work together, and this visualization demonstrates that they often do.

Contact: Nick Benik (nbenik@gmail.com),
Harvard Medical School, Boston, MA.
URL: <http://xcite.hackerceo.org/VIVOViz>

Institutions		
<input checked="" type="checkbox"/>	Harvard Med School	(15124)
<input checked="" type="checkbox"/>	Northwestern Med School	(3630)
<input checked="" type="checkbox"/>	U. of Minnesota	(4388)
<input checked="" type="checkbox"/>	U. California at San Fran	(8874)
<input checked="" type="checkbox"/>	Cornell	(1)
<input checked="" type="checkbox"/>	Cornell Medical	(32)
<input checked="" type="checkbox"/>	Ponce School of Med	(3)
<input checked="" type="checkbox"/>	Scripps Research Institute	(22)
<input checked="" type="checkbox"/>	Univ. of Florida	(100)
<input checked="" type="checkbox"/>	Washington U at St. Louis	(2635)
<input checked="" type="checkbox"/>	Mendeley	(352)



For The Consortium

- [e-Newsletter](#)
- [Calendar](#)
- [New Participant Q & A](#)
- [Federated Access Q & A](#)
- [Communication Toolkit](#)
- [Governance](#)
- [CTSA Committee Participants](#)
- [Program Information](#)

Consortium Leadership

Strategic Goal Committees

Key Function Committees

Sharing a Common Vision

Working together as a national consortium, CTSA institutions share a common vision to improve human health by transforming the research and training environment to enhance the efficiency and quality of clinical and translational research. The CTSA program is led by the National Center for Research Resources, part of the National Institutes of Health.



[Learn More](#)

National Consortium Strategic Goals

Learn how the goals of the CTSA Consortium are being carried out by the Strategic Goal Committees.



[More](#)

Featured Institution

University of Texas Southwestern Medical Center at Dallas

Each month, this section highlights the activities of a CTSA at a local level. View this month's feature and more in our featured institutions section.



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- [CTSA Fact Sheet](#)
- [Media Information](#)
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- [CTSA Consortium Publications](#)
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CTSA Institutions

USDA



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SEARCH [input] IN [dropdown: Entire Site] [GO]



GRADPSYCH

How to handle a tough audience

Experts offer five tips for dealing with difficult questions



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Password [input]

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- Renew your membership
- Public user registration

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Resources for practitioners from the APA Practice Organization

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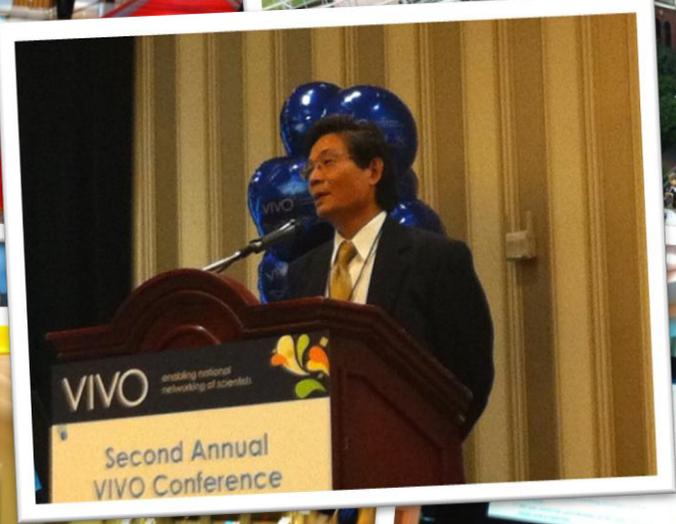
Psychology Topics

- ADHD
- Aging
- Alzheimer's
- Anger
- Anxiety
- Autism
- Bipolar Disorder
- Bullying
- Children
- Death & Dying
- Eating Disorders
- Emotional Health
- Ethics
- Hate Crimes
- Sexuality
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2. Jackson Laboratory scientist wins Shaw Prize, "Nobel of the East" (1960) http://www.jax.org/news/images/pressimages/300dpi_images/coleman/coleman1960.jpg
3. Biochemistry at Stanford. From the Stanford Biochemistry web site.
5. Francis Collins. From the NIH web site.
7. Courtesy of UF Health Science Center News and Communications
14. <http://apod.nasa.gov/apod/ap080225.html>
17. Institut Pasteur Korea Conducts Special 'IPK Life Science Mentoring' Program . <http://ip-korea.org>
20. Courtesy of Weill Cornell Medical College
21. Figure by M. Conlon
24. Bruckner Building Supply web site. <http://brucknemyc.com/our-products/in-the-yard/>
25. First annual VIVO Conference.
<https://picasaweb.google.com/110849244647388519713/FirstAnnualVIVONationalConference2010?authkey=Gv1sRgCP6K8LDBpOrKlg#5512757184241893154>
38. Abraham Lincoln Building of the United States Agricultural Library. http://en.wikipedia.org/wiki/File:United_States_National_Agricultural_Library.jpg
40. VIVO map by M. Conlon
41. Second annual VIVO conference. Photographs by M. Conlon
42. The VIVO team outside the Gaylord during the great DC quake of 2011. 8/22/2011. Photograph courtesy of Michelle Issing.