

VIVO: Creating a virtual community to foster interdisciplinary research

Or how Leibniz, Ans & Ari van Tienhoven, and Tim Berners-Lee helped us do it.



Janet McCue
Director, Mann Library
AUL for Life Sciences
Cornell University Library
Librarians & e-Science (CIC Meeting, May 2008)



Cornell University

Enhancing Science and Engineering at Harvard

“Harvard scientists span the range of the life, physical, medical, and engineering sciences. Their number and range represent both a strength and a weakness. In principle, there are almost limitless opportunities for interdisciplinary collaboration, but our size makes it hard for each investigator to find potential collaborators in the larger community of scholars, especially outside their fields.”

Cornell's New Life Science Initiative

- Department – Open hiring policy;
- Campus wide research & endowment activities;
- Goal: Draw together the "biologists, physicists, chemists, computational scientists and engineers in an atmosphere where traditional departmental and college boundaries become secondary to the intellectual work itself?"



Kathy Chiang
Head, Life Sciences and
Specialized Services



Medha Devare
Bioinformatics and
Life Sciences
Librarian



Ans & Ari van Tienhoven



Jon Corson-Rikert
Head, Information Technology
Services

“An essential process is the joining together of subcultures when a wider common language is needed. Often two groups independently develop very similar concepts, and describing the relationship between them brings great benefits. Like a Finnish-English dictionary, or a weights and measure conversion table, the relations allow communication and collaboration even when the commonality of concept has not (yet) led to a commonality of terms.”

*Tim Berners-Lee, James Hendler, Ora Lassila, “The Semantic Web,”
Scientific American, May 2001*

VIVO is a way to connect people:

- Helps faculty, administrators, and students discover common interests and connections;
- Allows Cornell to transcend the campus, dept, and administrative structures;
- Provides an integrated view of the life sciences at Cornell;
- Uses an entity-relationship model to organize and present information on people, research, and education activities;
- Leverages concepts and standards from the semantic web community to provide seamless access to diverse resources;
- Supplements the discovery power of search engines by presenting each displayed page in a context of related information;
- Provides a discovery and navigation layer about the 10M diffuse webpages at Cornell.



VIVO - A Service of Cornell University Library

Browse or search VIVO to discover who's working on a particular research topic; what they've taught or published recently; where facilities might be and what online tools are available to expedite research.



Searching VIVO: use the shortest term you can (e.g., "rice" instead of "rice research", or the last name only for people searches); see [search tips](#) for more help.

Search examples:

<input type="text" value="nanofab*"/>	<input type="button" value="search!"/>	<i>(an asterisk matches variations at the beginning or end of words)</i>
<input "="" type="text" value='"climate change'/>	<input type="button" value="search!"/>	<i>(a leading quote indicates you want to search for a phrase, not individual words)</i>
<input type="text" value="crystallography"/>	<input type="button" value="search!"/>	

VIVO is an ongoing project of the **Life Sciences Working Group** in the Cornell libraries, and coverage is not yet complete. At present we are adding content from the College of Engineering and Weill Cornell Medical College. Please [contact us](#) if you or your unit should be included in the site, or if you have any corrections, comments, or suggestions for improvements. You may also speak with Medha Devare at 255-2199.

Life Sciences in the Library

The Cornell Library is your gateway to life sciences information and services, both at Cornell and in the worldwide community.

- [Bibliographic Databases](#)
- [Library Services](#)
- [Cornell Unit Libraries](#)

New Life Sciences Initiative

The Cornell New Life Sciences Initiative (NLSI) is a university-wide collaboration that will enhance and support life sciences research and education. It is the most far-reaching research initiative in Cornell's history.

- [Focus Areas](#)

Cross-campus and Collaborative Initiatives

Cross-campus and collaborative activities, projects, and other items of special interest in relation to the life sciences at Cornell.

- [Ithaca - Weill Medical College Collaboration](#)

Life Sciences News

News features relating to recent life sciences research achievements or activities at Cornell.

- [Sustainability center names three new associate directors | Cornell Chronicle feature | 05/02/2008 Chronicle feature](#)
The Cornell Center for a Sustainable Future (CCSF) has named three new associate directors who will use their expertise in three key areas -energy, environment and economic development - to connect Cornell's research and scholarship to sustainability.
- [Mother's Day special: With straw and plastic, a one-acre flower is 'painted' for sky viewers | Cornell Chronicle feature | 05/02/2008 Chronicle Feature](#)



On May 11, a group of Cornell students will unveil a temporary artwork titled "Turfwork!," intended to be viewed from the air.



Baeumner, Antje

Associate Professor

AFFILIATIONS

RESEARCH

TEACHING

BACKGROUND

PUBLICATIONS

COLLEGE-SPECIFIC

AFFILIATIONS

head of

[Physical/Life Sciences Interface](#) | NLSI/Genomics focus area

has faculty appointment in

[Biological and Environmental Engineering \(BEE\)](#) | Cornell department

member of graduate field

[Biological and Environmental Engineering](#) | graduate field

[Biomedical Engineering](#) | graduate field

[Environmental Toxicology](#) | graduate field

[Food Science and Technology](#) | graduate field

[Material Science and Engineering](#) | graduate field

faculty affiliate in

[Institute for Comparative and Environmental Toxicology \(ICET\)](#) | research institute

[Nanobiotechnology Center \(NBTC\)](#) | research center



- [Biological & Environmental Engineering profile](#)
- [Bioanalytical Microsystems & Biosensors Lab](#)
- [New Life Sciences Initiative profile](#)



Baeumner, Antje *Associate Professor*

[AFFILIATIONS](#)

RESEARCH

[TEACHING](#)

[BACKGROUND](#)

[PUBLICATIONS](#)

[COLLEGE-SPECIFIC](#)

RESEARCH

primary investigator of

[CRYPTOSPORIDIUM PARVUM BIOSENSOR FOR DRINKING WATER SAFETY](#) | Research Grant

[DEVELOPMENT OF A LIPOSOME-BASED CD4+ T-CELL BIOSENSOR](#) | Research Grant

[ELECTROCHEMICAL MICROBIOSensor FOR BOTULINUM TOXIN DETECTION ON THE FARM AND IN FOOD](#) | Hatch project

co investigator of

[BIOSENSOR FOR RAPID DETECTION OF MYCOBACTERIUM AVIUM SUBSP. PARATUBERCULOSIS](#) | Hatch project

[NATIONAL MULTIDISCIPLINARY FOOD SCIENCE SUMMER RESEARCH PROGRAM](#) | Research Grant

has research areas

[biomedical instrumentation and diagnostics](#) | research concentration area (BME)

[food science](#) | collaborative research area (CALs)

[genomics](#) | collaborative research area (CALs)

[materials science](#) | collaborative research area (CALs)

[nanobiotechnology](#) | research concentration area (Engineering)

[nanomaterials, nanodevices, and nanoscience](#) | strategic research area (Engineering)

[pathogens](#) | collaborative research area (CALs)

[science education](#) | collaborative research area (CALs)



- [Biological & Environmental Engineering profile](#)
- [Bioanalytical Microsystems & Biosensors Lab](#)
- [New Life Sciences Initiative profile](#)

Sample search in VIVO: "proteom*"

Search Results

Jump to results of type: [people](#) [activities](#) [events](#) [organizations](#) [online resources](#) [publications](#) [places](#)

people

Cornell Faculty Member (41)

[Beer, Steven V.](#) | Professor

[Begley, Tadhg P.](#) | Professor

[Bensadoun, Andre](#) | Professor Emeritus

[Beyenbach, Klaus W.](#) | Professor

[Cadle-Davidson, Lance E.](#) | Assistant Adjunct Professor

36 more

Cornell Academic Staff (3)

[Blankenship, James E.](#) | Senior Lecturer

[Friso, Giulia](#) | Research Associate

[Zhang, Sheng](#) | Director of Proteomics & Mass Spectrom Facility

activities

Cornell Semester Course (3)

[Molecular Principles of Biomedical Engineering](#) | 3 credit course

[Plant Biochemistry](#) | 3 credit course

[Plant Molecular Biology II](#) | 1 credit course

Graduate Field/Program (2)

[Pharmacology \(Weill\)](#) | biomedical graduate program of study

[Tri-Institutional Program in Computational Biology and Medicine \(CBM\)](#) | graduate program

Research Area (2)

[proteomics](#) | research concentration area (Engineering)

[systems biology and biomedical engineering](#) | strategic research area (Engineering)

Research Grant (10)

[A HYBRID QUADRUPOLE TIME-OF-FLIGHT TANDEM MASS SPECTROMETER INTEGRATED WITH UPLC FOR CHARACTERIZATION OF PROTEIN COMPLEXES AND COMPARATIVE PROTEOMICS](#) | Research Grant



Prospective Students

Current Students

Alumni/Families/Friends

Faculty/Staff

Public

CALS > CALS Research

CALS Research Portal

The CALS Research Portal helps you find information about the people, grants, collections, projects, events, and the facilities that make the CALS research environment so vibrant.

Search the portal

To retrieve more results, use fewer and broader terms (e.g., "cognitive" instead of "cognition disorders"); to find people, start with the last name only; see [search tips](#) for more help.

Browse the portal by academic priority

Welcome to CALS Research

CALS has a long tradition of discovery and scholarship from the social sciences to the environmental sciences to life sciences. Our researchers are among the best in the world, with world-class facilities at their disposal. We engage in cutting-edge research and technology transfer with the goal of improving the lives of people in the state, nation, and throughout the world.

Academic Priorities

There are four priority areas of research in the College of Agriculture and Life Sciences — [Land-Grant Mission](#), [Applied Social Sciences](#), [Environmental Sciences](#), and [New Life Sciences](#) — all of which correspond to the College's [Academic Priorities](#). Please use the search box to the right or browse with these links to explore information about research in specific academic priority areas.

Research in CALS is administered through the Office of the Senior Associate Deans. This office reviews, identifies, implements, facilitates, and communicates the College's research priorities. This Research Portal is an example of a comprehensive project which brings together and disseminates information about research activities throughout the College.



Sources of Content - Affiliations

Barrett, Christopher *Professor*

- AFFILIATIONS**
- RESEARCH
- TEACHING
- SERVICE
- BACKGROUND
- PUBLICATIONS
- INTERNATIONAL

AFFILIATIONS

head of [Persistent Poverty and Upward Mobility](#) | 2008-2011 Theme Project

Self-entry or via related center, initiative or program

has faculty appointment in [Applied Economics and Management \(AEM\)](#) | Cornell department

Human Resources database

member of graduate field
[Economics](#) | graduate program
[International Agriculture and Rural Development](#) | graduate field
[International Development](#) | graduate field
[Natural Resources](#) | graduate field

Student Information System

faculty affiliate in
[African Food Security and Natural Resources Management \(AFSNRM\)](#) | academic program office
[Center for the Study of Inequality \(CSI\)](#) | research center
[Comparative Economic Development](#) | academic program office
[Cornell Center for a Sustainable Future](#) | research and educational resource center
[Institute for African Development](#) | research institute
[International Programs \(IP/CALS\)](#) | academic program office

Self-entry or via related center, initiative or program



- Applied Economics & Management profile
- Center for a Sustainable Future Associate Director, Economic Development Programs profile
- Barrett web page

Self entry of links and picture upload



Sources of Content - Research

Barrett, Christopher *Professor*

- AFFILIATIONS
- RESEARCH**
- TEACHING
- SERVICE
- BACKGROUND
- PUBLICATIONS
- INTERNATIONAL

RESEARCH

primary investigator of

- [AFRICAN FOOD SECURITY AND NATURAL RESOURCE MANAGEMENT - SECOND COHORT FIELD RESEARCH](#) | Research Grant
- [CONCEPTUAL AND STATISTICAL FOUNDATION FOR THE ESTIMATION OF POVERTY TRAPS](#) | Research Grant
- [CORNELL AFRICAN FOOD SECURITY AND NATURAL RESOURCE MANAGEMENT PROGRAM](#) | Research Grant
- [MODELING SOIL FERTILITY REPLENISHMENT INVESTMENT BEHAVIOR AMONG SMALLHOLDER FARMERS IN THE WESTERN KENYA HIGHLANDS](#) | Research Grant

Office of Sponsored Programs data warehouse

co investigator of

- [CORNELL AFRICAN FOOD SECURITY AND NATURAL RESOURCE MANAGEMENT PROGRAM](#) | Research Grant
- [HOMEOSTASIS AND DEGRADATION IN FRAGILE TROPICAL AGROECOSYSTEMS.](#) | Research Grant

has research areas

- [applied economics](#) | collaborative research area (CALS)
- [biocomplexity](#) | collaborative research area (CALS)
- [biodiversity](#) | collaborative research area (CALS)
- [food system and/or policy](#) | collaborative research area (CALS)
- [international agriculture](#) | collaborative research area (CALS)
- [international development](#) | collaborative research area (CALS)
- [natural resources](#) | collaborative research area (CALS)
- [resource policy and management](#) | collaborative research area (CALS)
- [risk analysis and assessment](#) | collaborative research area (CALS)
- [rural development](#) | collaborative research area (CALS)
- [sustainable development](#) | collaborative research area (CALS)

Self-entry from controlled vocabulary



- Applied Economics & Management profile
- Center for a Sustainable Future Associate Director, Economic Development Programs profile
- Barrett web page



Self-update view showing editable and non-editable properties

Manage your profile >>

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Academic Profile

To learn more about VIVO, see:

Barrett, Christopher B. Professor

- AFFILIATIONS
- RESEARCH
- TEACHING
- SERVICE
- BACKGROUND
- PUBLICATIONS
- INTERNATIONAL
- ADMINISTRATION
- OTHER

Hello, Christopher B. Barrett



AFFILIATIONS

- overview statement
- head of
- member of graduate field
- faculty affiliate in
- member of group
- former faculty member in

RESEARCH

TEACHING

SERVICE

BACKGROUND

PUBLICATIONS

INTERNATIONAL

ADMINISTRATION

OTHER

Editable

Non-editable

AFFILIATIONS

overview statement

head of

Persistent Poverty and Upward Mobility 2008-2011 Theme Project

has faculty appointment in

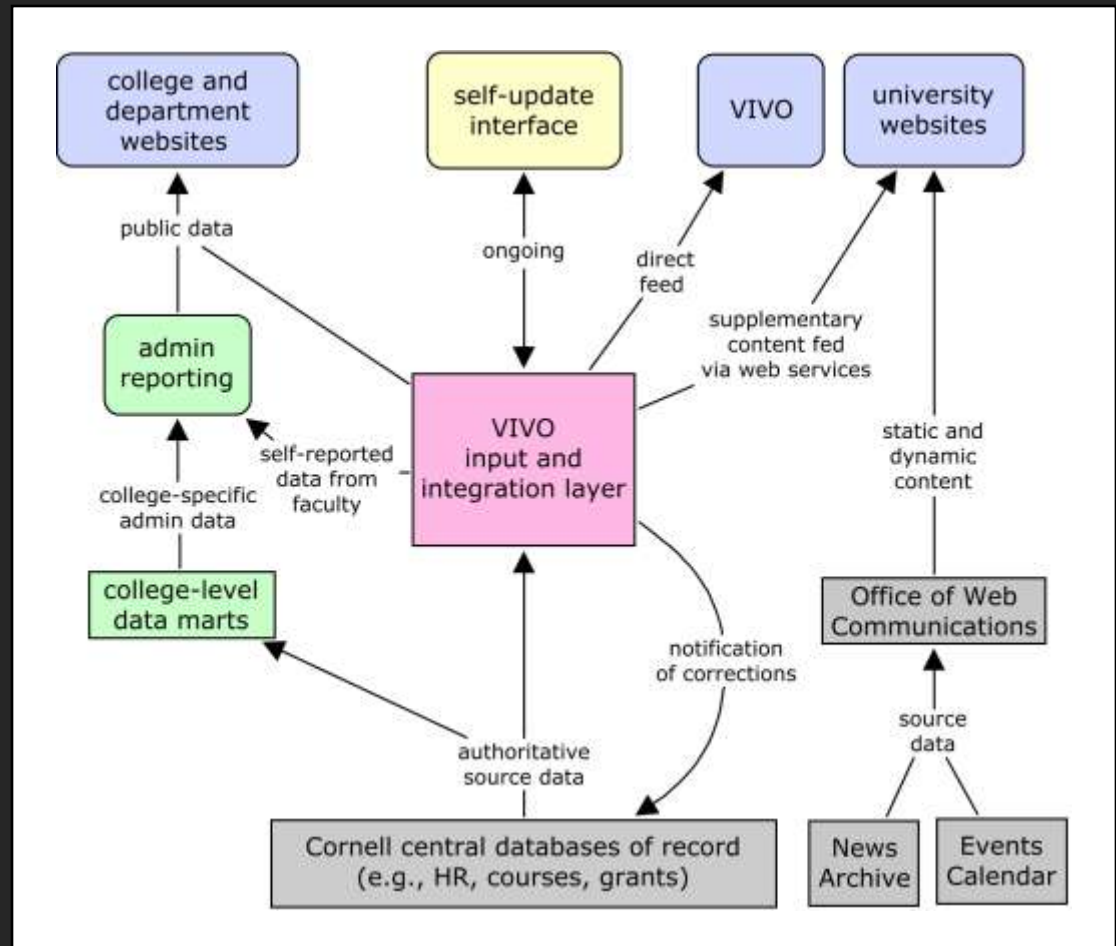
Applied Economics and Management (AEM) Cornell department

member of graduate field

- Economics graduate program
- International Agriculture and Rural Development graduate field
- International Development graduate field
- Natural Resources graduate field

Academic reporting dataflows

- VIVO combines authoritative data from central databases with self-reported data on academic and research activities
- Integrated data syndicated for Web display
- “Faculty as academic” data from VIVO combined with “faculty as employee” data for administrative reporting



VIVO in 2003:

- Potential benefits of Semantic Web technologies clear but tools & work applications scarce;
- Designed and built our own software that emulated the performance of Semantic Web applications but still relied on conventional relational database technologies.

VIVO in 2008:

- Tools available to leverage standard formats have matured considerably;
- RDF/XML data and OWL ontologies can be exchanged with other systems;
- Data consistency with the underlying model can be checked;
- Inference engine updates categorizations used to filter and aggregate data in real time
- SPARQL query language takes advantage of rich data model to allow more nuanced displays and highly tunable data feeds to other websites

Semantic Web Technologies are ready for production use at least at the scale of VIVO and can provide real benefits.

Graduate Programs in the Life Sciences

Home Graduate Fields Faculty Departments Research Facilities Events Search



Explore our Graduate Fields



Applied Biology



Biomedical Sciences



Ecology, Evolution, and Integrative Biology



Genetics, Genomics, and Bioinformatics



Molecular and Cellular Biology



Physical, Chemical, and Computational Biology

On campus, a biorevolution has transformed research. Biology is no longer just being done by biologists. Scientists and scholars from traditionally separate disciplines pursue biological questions and work with biological systems and biologists.

Begin the process of studying in one of the world's most exciting and diverse academic environments.

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Life Sciences News



[Planetary scientist Don Campbell named director of Cornell center that manages NSF's Arecibo Observatory](#)



[With Cornell's help, a glorious Saturn steps into the spotlight in New York City](#)

[more news »](#)

Find Research

[Search](#)

Life Sciences Seminars

Monday, May. 5
[Indonesia's Statistical Agency and Its Data](#)

Monday, May. 5
[Adolescent Obesity in the U.S. Virgin Islands, The First Measurement Survey: Implications of Environmental Factors & Migration](#)

[more events »](#)

Graduate Programs in the Life Sciences



[Home](#)
[Graduate Fields](#)
[Faculty](#)
[Departments](#)
[Research Facilities](#)
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Graduate Field of Neurobiology and Behavior

The graduate program aims to advance the understanding of neurobiology and behavior by encouraging a free interchange of ideas and techniques among students and faculty. Thus a student might employ the techniques of immunocytochemistry and intracellular recording in one aspect of a project while conducting ecological surveys to study other aspects of the same project. Informal exchanges of ideas and information go on in laboratories and in weekly journal clubs, which draw undergraduate and graduate students, postdoctoral associates, and faculty members from across the campus to discuss articles and themes of current interest.

Meet our Faculty



Adkins-Regan, Elizabeth
Professor



Johnston, Robert E.
Professor



Adler, Craig A.
Professor of Biology



Kotlikoff, Michael I.
Austin O. Hooy Dean, College of
Veterinary Medicine



Bass, Andrew H.
Professor of Neurobiology and
Behavior



Lin, David
Assistant Professor of Neurobiology



Booker, Ronald
Associate Professor



Lindau, Manfred
Professor



Bradbury, Jack W.
Robert G. Engel Professor



Linster, Christiane
Associate Professor

Faculty Spotlight



Andrew H. Bass
Professor of Neurobiology and
Behavior

Research Focus:

Research in our laboratory focuses on two projects concerning the central and peripheral nervous systems of sound-producing/"vocalizing" teleost fishes: (1) Characterization, and hormonal influences on, sex differences in the morphology of single, physiologically-identified neurons. (2) Temporal and spectral encoding of acoustic communication signals. These projects revolve around studies of alternative mating tactics in species with two male morphs that differ in a large suite of behavioral, neurobiological and neuroendocrine characters including divergent acoustic courtship behaviors and vocal control pathways. We answer questions regarding the existence of behaviors and their underlying mechanisms using a multidisciplinary, neuroethological approach that combines field studies of vocal communication with laboratory studies of the nervous system that utilize one or more of the following approaches: neurophysiology combined with anatomical tract tracing, neuroendocrinology, electron microscopy, immunocytochemistry, and in situ hybridization.

Departments

Where faculty members in this field work

- Applied and Engineering Physics (A&EP)
- Biomedical Sciences (VTBMS)
- Ecology and Evolutionary Biology (EEB)

New Adopters

- University of Florida

- Kansas State University

- University of Melbourne

University of Florida
Marston Science Library

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Marston Science Library > Faculty Activities Directory > Units

Units

Colleges at the University of Florida.

- [College of Agriculture and Life Sciences \(CALS\) | College | CALS Website](#)
- [College of Engineering | College | College of Engineering Website](#)
- [College of Liberal Arts and Sciences \(CLAS\) | College | CLAS Website](#)
- [George A. Smathers Libraries | Library | Library Homepage](#)

Departments | **Centers & Institutes**

- [Agricultural and Biological Engineering | Academic Department | Department](#)
- [Agricultural Business Center | Center | Center Website](#)

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Kansas State University > Facilities

Facilities

Research facilities at K-State

- [Bioprocessing and Industrial Value Added Programs \(BIVAP\) | Research facility | BIVAP web page](#)
- [Fish Ecology | Research group](#)
- [Grassland Ecology | Research group | APBS](#)



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New Vitro Portal

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New Vitro Portal

Home

History of Medicine, Dentistry & Health Sciences at Melbourne

A historical compendium of the people, departments, schools, research centres and affiliated organisations that make up the Faculty of Medicine, Dentistry and Health Sciences at the University of Melbourne, with references to archival materials and a bibliography of historical published literature.

- [Start at the entry for the Faculty of Medicine](#), for an overview
- [Browse alphabetical listings of the entities](#)
- [Search the contents of this website](#)

Select a discipline:

<ul style="list-style-type: none">• Anatomy• Bacteriology• Biochemistry & Molecular Biology• Dentistry• General Practice• Medical Biology• Medicine• Microbiology & Immunology• Obstetrics & Gynaecology• Ophthalmology• Otolaryngology	<ul style="list-style-type: none">• Paediatrics• Pathology• Pharmacology• Physiology• Physiotherapy• Nursing• Psychiatry• Psychology• Public Health• Radiology• Surgery
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- [Other resources relating to the history of Medicine at the University of Melbourne.](#)
- [Acknowledgements](#)

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Published by the Centre for the Study of Health & Society, The University of Melbourne, September 2003
<http://www.jmhgateways.unimelb.edu.au/umfm/index.html>

VIVO's flexible and open-ended data model will allow:

- Researchers to find facilities, equipment, and collaborators;
- Students to find courses based on how their interests overlap those of faculty
- Visitors unfamiliar with Cornell to navigate to a Web page of interest and understand its context without having to first unravel college and department structures -- whether starting from Google, the Cornell search engine, or VIVO itself.
- Cornell to bring together the biologists, the physicists, the chemists, the computational scientists, etc. in order to create a virtual community.



Agents of Integration



Gottfried Leibniz (1646-1716)

17th Century German philosopher,
mathematician and librarian

Believed that scientific progress depends on the ease of communication between scholars & that the role of the library was to keep open the channels of communication.

We are living in an extraordinary time:

“Our knowledge about life on Earth is growing rapidly through advances in scientific disciplines ranging from microbiology to paleontology, from geology to astrobiology.

The integration of that knowledge is increasing our understanding about the interconnected nature of life...”

Lanting, Frans. *LIFE: A Journey Through Time*.
TASCHEN, 2006





To learn more about VIVO, see:

vivo.cornell.edu

"VIVO: Connecting people, creating a virtual life sciences community." Medha Devare, Jon Corson-Rikert et al. *D-Lib Magazine* (July-August 2007): 1-18.

"VIVO: Case Study of an Ontology-Based Web Site." Brian Lowe, Jon Corson-Rikert, and Medha Devare. Technical Report FS-06-06, Semantic Web for Collaborative Knowledge Acquisition: papers from the AAI Fall Symposium, 106-107, AAI Press, 2006.

"VIVO Development Roadmap: Enhancing an Ontology-Based University Research Portal with OWL and Rules" <http://sunsite.informatik.rwth-aachen.de/Publications/CEUR-WS/Vol-258/paper05.pdf>, Proceedings of the OWLED 2007 Workshop on OWL: Experiences and Directions 2007 Innsbruck, Austria June 6-7, 2007.

Cornell's New Life Sciences Initiative: <http://www.lifesciences.cornell.edu>

To try Vitro for your own application:

vitro.mannlib.cornell.edu

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?

?

Additional Applications

global access
to information

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Welcome

An experimental portal for tracking research literature availability, especially in the developing world.



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Namibia | country

eligible for programs

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- [PERI](#) | journal access program | [ISI](#) | [how to access](#)
- [TEAL](#) | journal access program | [TEAL](#) | [how to access](#)

eligible for content through agreements

- [AMA: Agricultural Mechanization in Asia, Africa and Latin America](#) | journal | [AMA: Agricultural Mechanization in Asia, Africa and Latin America via TEAL](#)
- [African Crop Science Journal](#) | journal | [African Crop Science Journal via TEAL](#)
- [African Farming and Food Processing](#) | journal | [African Farming and Food Processing via TEAL](#)
- [Agribusiness](#) | journal | [Agribusiness via TEAL](#)
- [Agricola](#) | bibliographic database | [AGRICOLA via TEAL](#)
- [Agricultural Economics](#) | journal | [Agricultural Economics via TEAL](#)
- [Agricultural Systems](#) | journal | [Agricultural Systems via TEAL](#)
- [Agricultural Water Management](#) | journal | [Agricultural Water Management via TEAL](#)
- [Agricultural and Forest Meteorology](#) | journal | [Agricultural and Forest Meteorology via TEAL](#)
- [Agriculture, Ecosystems and Environment](#) | journal | [Agriculture, Ecosystems and Environment via TEAL](#)
- [Agrociencia](#) | journal | [Agrociencia via TEAL](#)
- [Agronomie](#) | journal | [Agronomie via TEAL](#)
- [Agronomy Journal](#) | journal | [Agronomy Journal via TEAL](#)
- [American Academy of Pediatrics Journals](#) | journal set | [American Academy of Pediatrics via HINARI](#)
- [American Association for Cancer Research Journals](#) | journal set | [American Association for Cancer Research via HINARI](#)

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The remaining slides are leftovers
(in case you wonder where they went)