

VIVO

ORD Expertise Location System



I'm a new hire and not familiar with ORD, how can I find information on a particular research topic or a potential mentor without having to look through all the lab intranet pages?

I need to find a biologist with a background in bioinformatics.

What expertise is missing in this project staffing? Is there someone with that expertise in ORD already?

I need to find someone that has experience with tools and validation techniques to characterize mechanisms driving Monitored Natural Recovery.

Who else is working on statistical inferences in behavioral ecology?

How can I locate relevant experts for an EPA symposium/workshop?

ORD Strategic Action Plan for IM/IT; Create an Expertise Locator

“Although ORD's researchers generally know their colleagues well and vice versa, an increased emphasis on integrated research may require them to work with researchers in other disciplines. Additionally, researchers outside ORD or EPA may need to identify potential ORD partners for scientific collaboration. This action develops a searchable resource that catalogues the skills and expertise of ORD researchers for sharing information internally and externally.”

ORD Delta Team

“Develop a searchable database cataloguing the skills and expertise of ORD federal staff. ORD has more than 1900 federal staff across its 13 locations. In order to promote integrated Transdisciplinary research across discipline, geographic location, and organizational structure, there is a need for a searchable database to catalogue the skills, expertise and interest of researchers. This project will allow the integrated trans-disciplinary research teams to identify the existing personnel that that can support research efforts, come together on topics of interest and share ideas.”

ORD Climate Survey feedback

- “A cross-divisional database (kept up to date) including researchers, their expertise in instrumentation, operating procedures, field collection and tools”
- “ORD needs to identify core expertise among its scientific capability and establish a mechanism for better assignment of core capabilities to research projects and/or programs”
- “We need to improve our information exchange on the scientific and technical expertise available within the organization”
- “Set up a mechanism (like a facebook) that provides areas of expertise for ORD staff. It will make collaboration much easier if I can identify the right people to go to.”

A **semantic web application** that enables the discovery of research and scholarship **across disciplines** in an institution.

Cornell University

VIVO Research & Expertise Across Cornell

Home | People | Organizations | Research | Events



Doyle, Jeffrey J. | Cornell Faculty Member

Positions

- ▶ Professor, [Plant Biology \(BIOPL\)](#), [College of Agriculture and Life Sciences \(CALS\)](#)
- ▶ Professor, [Plant Breeding and Genetics \(PB&G\)](#), [College of Agriculture and Life Sciences \(CALS\)](#)

My training is as a plant systematist, studying the evolutionary relationships of plants. Beginning with my doctoral work I have been interested in genomics. My work in this area involves comparative genomics of polyploid species. My work involves the large and economically important legume family ("beans"), and includes studies addressing the origin of nodulation (symbiotic nitrogen fixation) and the study of gene families involved in cell wall (... [more](#))

Research Areas 

[biodiversity](#) | [evolution](#) | [genetics](#) | [genomics](#) | [molecular genetics](#) | [plant breeding and genetics](#)

Affiliations | Research | Publications | Teaching | Service | Background | Other | View All

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Peter K. Haff

Professor in the Nicholas School of the Environment

The neoenvironment is the total environment in which we live. It is the sum of the natural, human, and technological systems and processes that surround us. It includes for example forest ecosystems, animals and machines, nanotechnology, the internet, highways, medical systems, power grids, human populations, political parties, governments and bureaucracies, robots and religions and their interactions with each other. In an age in which both the level and acceleration of technology are hi (... [more](#))

Appointments and Affiliations

- ▶ Professor in the Nicholas School of the Environment, [Earth and Ocean Sciences, Nicholas School of the Environment](#) 1997 -
- ▶ Director of Graduate Studies, [Earth and Ocean Sciences, Nicholas School of the Environment](#) 2012 -

Contact Information

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Education and Training

Keywords

Selected Publications

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Publications in VIVO



17 in the last 10 full years (81 total) 

Co-Author Network

Co-Investigator Network

Benefits of VIVO

- **Automatically** populates much of the data in profiles, **reducing the need for manual input**
- Can **export a profile** into a printable CV or NIH Biosketch
- Stores profile information in a flexible format so it can be **easily “re-purposed”**
- No sign in needed to browse VIVO and users can **sign in with EPA credentials** (EPA email address and LAN password) to edit their profiles
- Utilizes an **intuitive** and **easy to use** interface for manual input of data
- Provides **network analysis and visualization tools** to maximize the benefits afforded by the data available in VIVO
- Provides access to an **international community of collaborators** – researchers, implementers, developers

Data entry via semi-automatic prepopulation and direct user input

Data we have preloaded:

- Web of Science indexed journal articles affiliated with ORD researchers (almost 10,000 journal citations)
- Lists of associations, universities, gov. agencies and journals for selection by users
 - the purpose of pre-loading data like this is to ensure standardization so users are not inputting multiple variations of the same thing
- Relevant HR data (name, email, position title, organization, etc.,)
- Additional data like education, research overview and certifications where available (from biosketches and intranet content)

Data to be entered by users:

- Expertise, previous positions, training, etc., (information not always collected or maintained across EPA)

EPA Customization Work

- Set up LDAP authentication so federal employees can log in with EPA credentials to manage their profiles
- Created a custom VIVO theme (changed color scheme to match the ORD color palette, added a link to ORD intranet, edited the VIVO logo, added instructional text and links to guidance, added an FAQs page)
- Created an EPA ontology
 - New employee subclasses that correlate with HR appointment types (permanent, student workers, federal advisory committee members, experts and consultants, term appointment, etc.,)
 - Add'l organization types that were missing from academic-based VIVO ontology (i.e. branch, group, office, staff)
 - Data properties for HR identification and curation purposes

Timeline and Next Steps

- Currently piloting (with a cross-ORD group of testers)
- Plan to roll out across ORD in late Summer 2014

After initial ORD rollout:

- Work on report capability and internet/intranet site population via reuse of VIVO data
- Integration with additional systems to pull in more data
- Implementation of add'l functionality and customization
- Discuss expanding use throughout EPA (outside of ORD) and providing access outside of EPA

Welcome to VIVO

VIVO is a research and expertise discovery tool that supports collaboration across disciplines, geographic locations and organizational structures.

You can browse or search for information on people, organizations and research. If this is your first time using VIVO, please read the [ORD VIVO Quick Start Guide](#).

Manage your profile

Log in using EPA Email

Search VIVO

limit search → ▼ Search

Get the most out of VIVO with these helpful [tips on searching](#).

Statistics

1.8_k

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Research

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Locations