

# Indiana CTSI

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# What this talk is about...

- Collaboration background
- Indiana CTSI HUB Applications
- CTSA collaboration initiatives
- Future Directions

# Collaboration Background

- The intellectual capital needed to undertake scholarly research is no longer found at a single lab or institution.
- Collaborative research is becoming the norm.
- The resources necessary for research are distributed.
- Online public research datasets are changing the research process.

# Collaboration Trends

Persistence beyond face to face relationships requires:

- Motivations and Rewards
- Trust
- Dealing with cultural differences
- Governance and Management
- Shared Infrastructures and resource management
- Metrics and Assessment
- Sustainability – financial, intellectual, infrastructure

Cf. Beyond Being There: A Blueprint for Advancing the Design, Development, and Evaluation of Virtual Organizations

(<http://www.ci.uchicago.edu/events/VirtOrg2008/>)

# Types of Research Collaborations

- Communities of scholars who share tools. (eg., nanoHUB)
- Distributed research projects with online analytical workflows. (eg., cceHUB)
- Institutional collaborations to accelerate research processes and activities. (eg., IndianaCTSI HUB)

# The Indiana CTSI HUB

The screenshot shows the homepage of the Indiana CTSI HUB. At the top left is the logo for INDIANACTSI, Clinical and Translational Sciences Institute, with the tagline "Accelerating Clinical and Translational Research". To the right are logos for the University of Indiana, Purdue University, and IU Health. Below the header is a navigation menu with options like Home, About, News & Events, Research Resources, Training & Education, Grants & Funding, Community Engagement, Volunteer for Research, Tools, and Contribute. The main content area features two large images: one of a scientist at a microscope with the text "We Provide" and a sticky note that says "How do you like the new look?", and another of two scientists with the text "We Serve". Below these are three columns of service categories: Clinical Research Services, Grants & Funding, and Community Members. A "News Alerts" section is at the bottom left, and a "Featured Item" section is at the bottom right, featuring a photo of two researchers and the text "Indiana CTSI researchers create Center for Urban Health".

Statewide multi-institutional initiative

‘Translation’ of research from basic to pre-clinical to clinical research, ultimately to improve health care.

Focus on process improvement (funding, collaboration, research administration)

Communities other than Researchers

# Indiana CTSI HUB Foundations

The Usual HUB capabilities...

- Modular 'Model View Controller' Architecture
- Built in publishing tools, etc. for sharing content
- Over 6800 Joomla extensions to add functionality

We add...

- Federated Identity support for authentication
- Ontology-based tagging in partnership with the National Center for Biomedical Ontologies (NCBO)

# Indiana CTSI HUB Applications

- Grant Management System (Open Journal System)
- Public listing of Clinical Trials
- Online Core Facilities
- Small Group Collaboration/File Sharing (Alfresco Share)
- Data Collection and Management (REDCap)
- Matchmaking for licensing to industry (i2iconnect)
- Volunteer Recruitment for Clinical Trials (INResearch)
- Email Newsletter



# Alfresco Share

500 Users and 5 GB of documents. <https://alfresco.uits.iu.edu>

**Alfresco Share** My Dashboard My Profile Sites People

**CHEP Site**  
Site Dashboard  
Calendar

**Document**

**Library**

- Documents
  - 9-22-2010
  - Academic
  - ARRA ACI
  - CCC
  - CEB
  - CHEP Ser
  - CHEP Wo
  - Communic
  - Enduring /
  - Logos
  - March 5th
  - Reports

**Tags**

**1 Search for People**

anurag Search

**Anurag Shankar** (ashankar)  
Title: Project Analyst  
Company: IU Add >>

...Add External (non-IU, Purdue, or Notre Dame) Users

First Name:  Add >>  
Last Name:   
Email:

**2 Invite Users**

Set All Roles to ▾

**Anurag Shankar** (ashankar)  
ashankar@indiana.edu Select Role ▾

Invite or back to Site Members

# REDCap

175 Users and 110 Projects. <https://redcap.uits.iu.edu>

**REDCap™**

Logged in as **site\_admin**

- My Projects
- Project Home
- Project Setup

**Data Collection**

- Demographics
- Baseline Data
- Month 1 Data
- Month 2 Data
- Month 3 Data
- Completion Data

**Applications**

- Calendar
- Data Export Tool
- Data Import Tool
- Data Comparison Tool
- Logging
- File Repository
- Graphical Data View & Stats
- Report Builder

**Reports**

- test2
- test123
- PSJ
- test report
- Diabetes
- Sample
- testingsmh
- test
- canada
- 1234
- Bubba's Report
- trial
- Asthma
- test
- delete this report

**Vanderbilt Medical Center**

Vanderbilt University  
Vanderbilt Institute for Clinical and Translational Research

**REDCap Demo Database**

Project status: ✔ Production

**Quick Tasks**

- Export data**: Export your data from REDCap to open or view in Excel or various stats packages.
- Create a report**: Build custom reports for quick views of your data, and export reports to Excel/CSV.
- Data Access Groups**: Create groups of users to limit user access to certain records/responses, in which only users within a given Data Access Group can access records created by users within that group.

**Project Dashboard**

The tables below provide general dashboard information, such as a list of all users with access to this project, general project statistics, and upcoming calendar events (if any).

**Current Users**

User	Expires
site_admin (Joe User)	never

**Project Statistics**

Records in project	81
Data exports	259
Logged events	2537
Most recent activity	12:08pm 02/07/2011
Space usage for docs	18.37 MB
Project status	<span style="color: green;">✔</span> Production

**Upcoming Calendar Events (next 7 days)**

Time	Date	Description
		No upcoming events

# i2i connect

914 Listings and 542 Users. <http://i2iconnect.org>



## Browse Contacts by Specialty

Use the tree menu below to browse contacts by category, that category.



- HOME
- ABOUT
- SEARCH CONTACTS
- ADVANCED SEARCH
- BROWSE BY SPECIALTY
- BROWSE BY DISEASE
- FEEDBACK

## Find Your Biomedical

Are you a researcher or a tech transfer expert with intellectual property or a disclosure ready for a marketplace? If so, you have come to the right place.

We now support:

**Healthcare IT Categories**

i2iConnect finds information about

- + Anesthesiology (16)
- + Cardiovascular (19)
- + Clinical Chemistry & Clinical Toxicology (4)
- + Dental (7)
- + ENT (10)
- + Gastroenterology & Urology (14)
- + General & Plastic Surgery (11)
- + General Hospital & Personal Use (18)
- + Healthcare IT (0)
- + Hematology & Pathology (9)
- + Immunology & Microbiology (4)
- + Neurology (9)
- + Obstetrical & Gynecological (11)
- + Ophthalmic (5)
- + Orthopedic (20)
- + Physical Medicine (4)
- + Radiology (15)

Our RSS

Subscribe to our RSS by clicking the icon below. ([Learn more](#))



### Latest Contacts

[Katherine Moynihan](#)  
[Brandon Emikes](#)  
[Christopher Radl](#)  
[charles buck](#)  
[Erwin Chan](#)

# INResearch.org

[Home](#) | [About Us](#) | [Why Participate?](#) | [Register](#) | [Find a Study](#) | [FAQs](#) | [Researchers](#) | [Clinicians](#) | [Log In](#)



## What is INresearch.org

Welcome and thank you for visiting INresearch.org!

INresearch.org is a secure, password-protected registry of Indiana resident volunteers who want to participate in health-related research. Signing up is free! The goal of this registry is to match interested volunteers with researchers. This registry was developed by the **Indiana Clinical and Translational Sciences Institute**, a collaboration between **Indiana University**, **Purdue University** and the **University of Notre Dame**. Our goal is to improve health care by discovering new treatments and cures.

I want to participate ...

[Register now](#)

The Indiana CTSI currently has approximately 1,700 research studies open to recruitment. Although this is a statewide institute, the majority of these studies take place in Indianapolis on the Indiana University-Purdue University Indianapolis (IUPUI) campus.

## Hear from those who participated...

*"My experience in three clinical trials has been phenomenal. Although not cured, my quality of life for the nearly four years since diagnosis has been excellent. The professionalism and compassion of my [physician], the nurses, and staff have been truly exceptional." - IU Clinical Research participant at Indiana University School of Medicine*

*"Research studies not only offer the potential for improved treatment to the individual clinical trial participant, but very importantly, provide the means for development of improved and safe therapies." - IU Clinical Research participant at Indiana University School of Medicine*

Public portal to recruit volunteers for clinical trials

Collects medical information for prospective volunteers

To do: develop a researcher interface into this to recruit for trials and integrate data from Indiana Health Information Exchange (IHIE)

# CTSA Research Networking

## VIVO ([vivoweb.org](http://vivoweb.org))

- Ontology of terms for faculty profiles
- A set of architectural standards, based on Linked Open Data
- Applications that consume Linked Open Data (like VIVO)

## Eagle-I ([eagle-i.org](http://eagle-i.org))

- Ontology of terms for resources (cores, databases, biobanks)
- Architectural standards of resource inventory systems
- Integrated system for managing and exposing resources

## Direct2Experts ([direct2experts.org](http://direct2experts.org))

- 29 CTSA's demonstrating federated profile search.

# Future Directions

- Profile Integration with Faculty Profiles with VIVO, Faculty profile systems at IUB and IUSM, and Indiana Database of University Research Expertise (INDURE).
- Creation of middleware to both consume and expose Linked Open Data (by August, 2011) as part of VIVO.
- CTSA2Community HUB (ctsa2community.org) as a repository of best practices for community engaged research.
- (Hopefully) BAH 10-001 RFA for Linked Open Data

# Thank you.

Questions?

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