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**Comprehensive drug database established with support from Indiana CTSI, Lilly and NCATS**

The Integrative Data Science Laboratory at Indiana University Bloomington, and Data2Discovery Inc., an IU spinoff company, have partnered with Eli Lilly and Co. to create a public database that links multiple data resources to 2,500 drugs tested by Eli Lilly.



Dr. David J. Wild

The database, Phenotypic Drug Discovery Resource, was funded by grants from the Indiana Clinical and Translational Sciences Institute and Eli Lilly.

The work was overseen by David J. Wild, PhD, director of data science academic programs and CEO of Data2Discovery.

"The research has demonstrated a radically new approach to translational drug repurposing," said Dr. Wild. "We expect it to catalyze scientific and research discoveries in both clinical and preclinical applications."

The Integrative Data Science Laboratory and Data2Discovery developed technology to pull data about the drugs from multiple sources to create the comprehensive database. The goal is to advance drug discovery and health care intelligence.

To gather and organize the information, Data2Discovery created a data mining tool, Semantic Association Predication, based on research by the Integrative Data Science Laboratory. This work can be used to find new connections between drugs and their potential uses.

Already, the Semantic Association Predication method has created a list of drugs that could potentially be repurposed to treat mycobacterium tuberculosis. Planning is underway for these drugs to be laboratory tested.

Indiana Clinical and Translational Sciences Institute awarded a \$50,000 grant to Data2Discovery. Eli Lilly matched the Clinical and Translational Sciences Institute grant, and the National Center for Advancing Translational Sciences provided \$97,300 for development of the list of potential mycobacterium tuberculosis drugs.

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hepatocellular carcinoma.

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Carmel Egan Joins Indiana CTSI



Carmel Egan, PhD, a top project management and product development executive at Eli Lilly and Co., has joined the Indiana University School of Medicine as project leader of IU's Precision Health Initiative.

Dr. Egan, vice president, Medicines Development Unit at Lilly, has held a series of leadership positions at Lilly. Prior to her most recent position at Lilly, she served as vice president of special Alzheimer's disease initiatives in Lilly's Biomedicines Business Unit and previously as vice president of LRL Portfolio and Project Management.

She will coordinate activities of the Precision Health Initiative as part of her role as associate dean for research affairs at the school. Dr. Egan also has been named chief operating officer of the Indiana Clinical and Translational Sciences Institute.

The Precision Health Initiative, funded in part by the IU Grand Challenges Initiative, is a \$120 million multi-campus effort to incorporate the genetic, developmental, behavioral and environmental factors that contribute to an individual's health and develop highly targeted therapies that will improve the well-being of both individuals and the community.

Dr. Egan, received her PhD in chemistry from University College Dublin in Ireland prior to joining Lilly. She is married to Gerard Carthy and has two teenage sons Gerard and Kevin.

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# ATP Newsletter - November 2016

The Center for Medical Genomics in Indianapolis has two new Illumina sequencers, HiSeq 4000 and NextSeq 500. The CTSI funded Purdue Clinical Research Center was dedicated on May 6<sup>th</sup> and is now fully operational. It provides a research environment to study the role of diet and exercise in health and chronic disease prevention. The Angio BioCore will have an Essen Bioscience IncuCyte Zoom that allows real-time assessment of cellular behavior. A training seminar was held on Tuesday November 15 from 9-11am in R4-101.

## Center for Medical Genomics has new Illumina sequencers

The Center for Medical Genomics (CMG) has acquired two Illumina sequencers, one HiSeq 4000, and one NextSeq 500. As the leading sequencing platform, Illumina NGS systems have the proven record for delivering industry-leading data quality and accuracy, with a competitive price. More importantly, it is compatible with the largest selection of biological assays and informatics analysis tools. CMG projects services using the two instruments will begin mid-December.

In addition to the newly acquired Illumina sequencers, the CMG is also equipped with the Ion Proton sequencer, Sequenom for mid-throughput genotyping, and Affymetrix GeneChip system for gene expression analysis. In collaboration with IUSOM Bioinformatics Core, bioinformatics services will also be offered on a fee-for-service basis.

For more information contact: Dr. Yunlong Liu, [yunliu@iu.edu](mailto:yunliu@iu.edu)

## Purdue's Clinical Research Center is 'Cooking up' Research Opportunities

The Purdue Clinical Research Center (PU-CRC), which is part of the Indiana Clinical and Translational Institute funded by NIH, is now fully operational and provides an integrative, state-of-the-art research environment. The overarching goal of the center is to expand (human) clinical research opportunities for investigators across many disciplines to identify the role of diet and exercise in health and chronic disease prevention. The center was dedicated on May 6<sup>th</sup> 2016 at an event that brought back alumni and friends of the department to celebrate the 110<sup>th</sup> anniversary of nutrition.

The center includes over 12,000 sq. feet of newly renovated Nutrition and Exercise Clinical Research space including a wide-range of clinical and exercise equipment, services, and support. In August 2016, Dr. Heather Leidy, Associate Professor, joined the faculty within the Dept. of Nutrition Science to serve as the Center Director. Dr. Leidy is a nutritional physiologist who brings a wealth of experience and expertise in expanding the research capabilities and opportunities of the PU-CRC.

There are four specialty areas within the PU-CRC. The Bionutrition Unit, under the direction of the Bionutrition Manager, Amy Wright, BS, RD, contains a 2,150 sq ft. metabolic research kitchen and is fully-staffed with research dietitians, a culinary research chef, and dietetic students to provide 25,000 tightly-controlled meals per year through individualized and/or group diet development and menu planning. In addition, the PU-CRC also includes a Dietary Assessment Center, led by Dr. Regan Bailey, PhD, RD, with the capabilities to perform nutrition counseling, education, and 'in-real-time' entry and analysis of dietary intake data. Dr. Connie Weaver leads the bone and body composition core. Lastly, Robin Rhine, EMT, QMA, recently joined the center to serve as the Clinical Manager of the clinical testing facility. The center has 6 unique participant suites for repeated blood sampling/phlebotomy, infusions, sensory testing, blood pressure and heart rate monitoring, muscle biopsies. The center also includes a bone and body composition (Bod-Pod and DXA) suite and an exercise laboratory with equipment for resistance and cardio training along with metabolic and fitness testing capacities.

There are currently 16 active protocols that utilize the PU-CRC with sufficient capabilities to include many more. To learn more about the center, please see the following link: [Purdue CRC](#) or contact Dr. Leidy ([hleidy@purdue.edu](mailto:hleidy@purdue.edu)).

## Angio BioCore to house the Essen Bioscience IncuCyte ZOOM

The Angio BioCore will house the Essen Bioscience IncuCyte ZOOM. This instrumentation allows for the automated, extended, real-time assessment of cellular behavior under various experimental conditions. It has multiple capabilities of real time quantitative analysis for multiple biological processes such as proliferation, apoptosis, angiogenesis, cell migration/invasion, immune function, and 3D spheroid formation. This equipment was recently purchased through a CTSI Core Equipment grant awarded to the Angio BioCore (Director, Karen E. Pollok, PhD) and the newly established 3D BioPrinting Core (Director, Nic Moldovan, PhD). A number of research entities also contributed to the purchase of the IncuCyte ZOOM. We wish to thank the IUPUI Office of the Vice Chancellor for Research, Indiana University Simon Cancer Center, Wells Center for Pediatric Research, Division of Pediatric Hematology and Oncology, and the Department of Orthopaedic Surgery.

A seminar was held by Essen Bioscience on **Tuesday, November 15<sup>th</sup> at 9-11 am in R4-101** for anyone interested in learning about the capabilities of this new technology coming to campus. Once the installation and validation phases are completed, the machine will be available to the IUSM research community.

In addition, the Angio BioCore also houses the Seahorse XFP analyzer from Agilent Technologies. The Seahorse XFP allows users to perform routine tests of metabolic pathways in real time that measure oxygen consumption rate (OCR), which is an indicator of mitochondrial respiration, as well as extracellular acidification rate (ECAR), which is largely the result of glycolysis.

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Please email Emily Sims ([ecwillar@iupui.edu](mailto:ecwillar@iupui.edu)) or Matt Repass ([mjrepass@iupui.edu](mailto:mjrepass@iupui.edu)) of the Angio BioCore with any questions you may have regarding use and scheduling for the IncuCyte ZOOM or the Seahorse XFp.




Scientific Review Committee (SRC) Communications \_ news.htm[1/26/2017 4:28:01 PM]






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## iCReATE Program

Indiana CTSI **C**onnecting **R**esearchers **A**nd **T**ranslational **E**xpertise

In response to input from investigators utilizing the Indiana CTSI to support their research, the Indiana CTSI leadership has rolled several key resources into a single program. This program – **Indiana CTSI Connecting Researchers And Translational Expertise** – (iCReATE) is designed to more comprehensively promote high quality research and aide investigators in moving their research along the translational spectrum.

In the newly re-branded structure, the iCReATE program will have a greater focus on enhancing researchers' skillsets. By emphasizing the development of the investigator, in addition to the research project, *our overarching mission is to create a long lasting expansion of experienced translational researchers so they will be able to successfully conduct research across all translational phases and thus increase the broad translational impact at the campus, community, state, and national levels.*

### Translational Development Teams

The Project Development Team (PDT) Program and Peer Review Mentoring Committees (PRMC) have been merged into the new Translational Development Team (TDT) Program, which incorporates additional expertise in its membership. The Indiana CTSI contacts for this program are Julie Driscol ([judrisco@iu.edu](mailto:judrisco@iu.edu)) and Lane Coffee ([rlcoffee@iu.edu](mailto:rlcoffee@iu.edu))

### Translational Research Discovery Funds


The Indian CTSI's internal grant mechanism has been incorporated into the re-design of the iCReATE Program. The new infrastructure provides an integrated approach for researchers seeking financial support for their translational research endeavors. The Indiana CTSI contact for this program is Julie Driscol ([judrisco@iu.edu](mailto:judrisco@iu.edu)). She succeeds Anne Nguyen, the previous internal grants program manager whose role has expanded into other Indiana CTSI programs

### Grant Critique/Editing Core Resource


A new grant critique/editing core resource has been formed in order to provide grantsmanship advice. This resource will help to develop writing, organizational, and communication skills critically important in translational research. The Indiana CTSI contact for this program is Lane Coffee ([rlcoffee@iu.edu](mailto:rlcoffee@iu.edu)).

As always, you may contact your campus Navigators to assist in identifying and connecting to Indiana CTSI resources:


- Joel Ybe ([jybe@indiana.edu](mailto:jybe@indiana.edu))
- Bruce Melancon ([bmelanco@nd.edu](mailto:bmelanco@nd.edu))
- Tammy Sajdyk ([tsajdyk@iu.edu](mailto:tsajdyk@iu.edu))
- Faye Smith ([faesmith@regenstrief.org](mailto:faesmith@regenstrief.org))
- Tommy Sors ([tsors@purdue.edu](mailto:tsors@purdue.edu))




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## CTSI Pre-Doctoral Training in Translational Research - 2016.12

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**CV SUBMISSION PRIOR TO APPLICATION ( via [ictsi@purdue.edu](mailto:ictsi@purdue.edu)) DEADLINE - DECEMBER 5, 2016**  
**FULL APPLICATION DEADLINE - DECEMBER 12, 2016 (4:00 PM)**

The Indiana Clinical and Translational Sciences Institute (CTSI) is seeking applicants for special predoctoral training awards in translational research. In biomedical terminology translational research refers to what is popularly termed "bench to bedside", the process by which research in the lab "translates" into patient treatment. Translation may involve applying discoveries made during research (in the lab, through animal studies, etc.) to the development of clinical trials and studies in humans, or carrying out research aimed at enhancing the adoption of best practices, or both. These two types of translational research are usually described as consisting of either "T1 research" (basic biomedical research, e.g. study disease at a molecular or cellular level, as it progresses to the development of new treatment options at the clinical level) or "T2 research" (enhancing access to and the adoption of evidence- based strategies in clinical and community practice, institutionalizing programs, products, and services to improve health). These awards are aimed at predoctoral students whose research is at any point along this spectrum. **Funding is for two years (with the 2nd year of funding contingent upon satisfactory progress).** Benefits include a stipend as well as health insurance and partial coverage of tuition and fees.

### Opportunities available for CTSI Pre-doctoral Trainees include:

- Annual stipend comparable to other pre-doctoral training positions
- Partial tuition and fees for coursework relevant to the applicant's research
- Mentoring with a faculty member whose research program includes peer reviewed, extramurally funded clinical or translational research
- Networking with other pre and post-doctoral trainees, program mentors, and allied researchers from multiple institutions in Indiana to develop a corss-disciplinary community of scientists
- Attendance at a national meeting that involves similar trainees from 40 other medical schools and research institutions
- Funding is for one year and is renewable for one additional year based upon progress attained

Interested candidates must be prescreened for eligibility. Submit a copy of your CV to Dr. Colleen Gabauer in advance of the application deadline at [ictsi@purdue.edu](mailto:ictsi@purdue.edu) by **December 5, 2016**.

### Contact Information

Contact Name: Colleen L. Gabauer, Ed.D.

Contact Email: [ictsi@purdue.edu](mailto:ictsi@purdue.edu)

### Submission Checklist

1. The applicant meets the eligibility criteria outlined in the application guidelines and has received prior approval from the CTSI Education office to submit their application online.
2. The applicant has identified a Primary Mentor and Co-Mentor, that meet the criteria outlined in the application guidelines.
3. The application uses 12 pt font in Times New Roman or Arial format for questions 1-6.
4. The application includes:
  - Completed questions 1-7 (4.5 page maximum)
  - References
  - CV for applicant (4 page maximum)
  - Transcript from current graduate program for the applicant
  - Biosketch of Primary Mentor (4 page maximum)
  - Biosketch of Co-Mentor (4 page maximum)
5. The submission is collated into a single electronic file that is in PDF, Microsoft Word, or WordPerfect file format.
6. Two (2) letters of support (Primary Mentor and Co-Mentor) are required. These documents will be submitted separately - via email directly from the mentor to [ictsi@purdue.edu](mailto:ictsi@purdue.edu)

### Files for Investigators

- [DOWNLOAD THE COMPETITION GUIDELINES](#)
- [DOWNLOAD APPLICATION FORM](#)
- [SUBMISSION PROCEDURES CHECKLIST](#)

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## Global Health Research Pilot Projects -2016.12

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#### SUBMISSION DEADLINE – DECEMBER 12, 2016 (5:00 PM)

The Indiana CTSI with the IU Center for Global Health is soliciting proposals from applicants developing or currently involved in collaborative global health research projects. The purpose of this RFA is to foster and encourage the development of new collaborative interdisciplinary research that seeks to identify innovations to address key global health challenges and improve health outcomes in resource limited settings. This RFA will fund pilot research projects with: (1) a high potential for attracting new extramural research funding; (2) a focus on strengthening collaborative multidisciplinary research collaborations between Indiana CTSI partner institutions (IU, Purdue, and Notre Dame) and key academic research centers abroad; and (3) an emphasis in key, high-yield, research-related initiatives, including basic and translational sciences research, biobanking, cancer, population focused disease control, informatics and decision support systems, and implementation research dissemination.

Faculty from IU, Purdue, and Notre Dame are eligible to apply. Faculty at international institutions with existing collaborative partnerships with faculty at IU, Purdue, and Notre Dame are also eligible to apply.

Eligible proposals must be collaborative and include at least one co-principal investigator from an Indiana CTSI partner institution. Principal investigators/project directors must have the requisite skills, knowledge, time, and resources necessary to carry out the proposed research.. This opportunity is open to individuals with full-time faculty appointments, graduate level trainees, and post-graduate fellows. Individuals who have received salary support from the Indiana CTSI in the 12 months prior to the submission deadline may not serve as the principal investigator/project director and cannot derive salary support.

### Contact Information





Contact Name: David Plater  
Contact Email: [dplater@regenstrief.org](mailto:dplater@regenstrief.org)

### Submission Checklist

1. I meet the qualifications of faculty appointment at my respective institution as outlined in the competition guidelines.
2. The start date of the proposal is May 1, 2017 or later and duration is 12 months.
3. Budget includes direct costs only. Facilities and administrative costs, or indirects are not allowed.
4. The text of the Research Plan does not exceed 6 single-spaced pages, excluding references; type size is at least 11 point.
5. Biographical sketches have been completed in NEW NIH format.
6. Letter of supports (up to maximum of 3) are included.
7. The submission file is attached in a single PDF file, using the proposal forms provided and includes all the necessary signatures.

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Center for Diabetes and Metabolic Diseases.htm[1/26/2017 4:24:30 PM]

**Indiana Clinical and Translational Sciences Institute  
Purdue Retreat  
Tuesday, December 13, 2016**

*Hall for Discovery Learning Research (DLR)  
207 S Martin Jischke Drive  
West Lafayette, IN 47907*

8:30-9:00am	<b>Registration and Continental Breakfast</b>	<b>DLR atrium</b>
9:00-9:30am	<b>Welcome and update of CTSI opportunities</b> <i>Connie Weaver, Deputy Director, Indiana Clinical and Translational Sciences Institute; Distinguished Professor and Department Head, Department of Nutrition Science, Purdue University</i> <b>Preparing for the next 5 years of CTSI</b> <i>Anantha Shekhar, Director, Indiana Clinical and Translational Sciences Institute; Executive Associate Dean for Research Affairs; August M. Watanabe Professor of Medical Research, Indiana University School of Medicine</i>	<b>DLR 131</b>
9:30-10:30am	<b>New investments in the life sciences at Purdue and Notre Dame</b> <i>Donna Fekete, John &amp; Donna Krenicki Directorship in Integrative Neuroscience, Purdue Institute for Integrative Neuroscience; Professor, Department of Biological Sciences, Purdue University</i> <i>Richard Kuhn, Director, Purdue Institute of Inflammation, Immunology and Infectious Disease (PI4D); Professor of Biological Sciences, Purdue University</i> <i>Paul Bohn, Director, Advanced Diagnostics and Therapeutics; Arthur J. Schmitt Professor, Department of Chemical and Biomolecular Engineering; Professor, Department of Chemistry and Biochemistry, University of Notre Dame</i>	<b>DLR 131</b>
10:30-11:00am	<b>Break</b>	
11:00am-12:00pm	<b>Cancer Prevention</b> <i>The challenge of defining cancer prevention mechanisms underlying associations identified from epidemiological research</i> <i>Jim Fleet, Distinguished Professor of Nutrition Science; Director of the Interdepartmental Graduate Program in Nutrition, Purdue University</i> <b>Influence of dietary protein on cancer prevention</b> <i>Roberto Pili, Robert Wallace Miller Professor of Oncology; Professor of Medicine; Professor of Urology; Adjunct Professor of Pharmacology and Toxicology, Indiana University School of Medicine</i> <b>IUB cancer prevention is a multi-stage process</b> <i>James Klaunig, Professor, Environmental Health, Indiana University</i>	<b>DLR 131</b>
12:00-1:00pm	<b>Lunch and Posters</b>	
1:00-2:00pm	<b>Breakout Session One</b> <i>Cancer Collaborations ~ hosted by Connie Weaver and Cleveland Shields</i> <i>Microbiome ~ hosted by Steve Lindemann and Dave Nelson</i>	<b>DLR 143 A/B</b>
2:00-3:00pm	<b>Breakout Session Two</b> <i>Biology Big Data Science ~ hosted by Jim Fleet</i> <i>Neuroscience ~ hosted by Donna Fekete</i> <i>Translational Research Collaboratory ~ hosted by Richard Kuhn and Chandy John</i>	<b>DLR 143 A/B</b>
<b>Contact Information:</b> Tommy Sors (765-586-8975) Wendy Field (765-491-3413)		

Please register by Friday, December 2<sup>nd</sup> at <http://j.mp/2d5xGuW>