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# Precision medicine offers new pediatric cancer treatment options at Riley Hospital for Children

Every year, about 15,000 children in the United States are diagnosed with cancer. Happily, upfront chemotherapy treatments cure 75 percent to 80 percent of them.

With the advent of the Pediatric Cancer Precision Genomics program, young patients at Riley Hospital for Children at IU Health are getting the benefits of modern genomics evaluations to identify potential new treatment options when first line chemotherapy does not work.

Following planning that began in the fall of 2015, the new clinic opened in April, a new option for children whose cancers have resisted standard treatment, have returned after initial treatments, or who present initially with very aggressive tumors.

Jamie Renbarger, MD, director of the program, associate professor of pediatrics and Caroline Symmes Scholar in Pediatric Cancer Research, said that even this early in the program "we've had a number of very striking results."

Still, she said, "I'm encouraged but I wouldn't want to overstate the success. I would say our numbers are too small to make that kind of judgement yet."

If a patient is a candidate for the analysis – and once consent has been given for tumor and germline genetic testing – then tissue is sent out for genomic analysis, a process that usually takes three to four weeks.



Dr. Jamie Renbarger

Dr. Renbarger and colleagues have assembled a team of about a dozen people from varying specialties – oncologists, researchers, nursing, social workers, bioethicists among them – into an interdisciplinary tumor genome board.

The test results typically identify medications – based on the medical literature – to which the tumor is likely to be more or less susceptible.

The discussions cover past therapies used, potential clinical trial options, whether potential drugs have been tested in children, the extent to which particular tumor might be susceptible to treatment. Tumors are heterogeneous, so while some cells of a tumor may respond to a medicine, others may not – which may suggest the potential for the use of a novel combination of drugs.

The result is usually a prioritized list of potential therapies, which is then discussed with the family.

As of early October, nearly 50 patients had been evaluated. In 80 percent of the cases, the testing had resulted in an indication that a particular compound or compounds might be beneficial to the patient, said Dr. Renbarger.

The striking results mentioned by Dr. Renbarger include, for example, a four-year-old girl with a rare form of brain cancer. After two months of targeted treatment, the tumors, and fluid on the brain, had shrunk significantly, and the girl recently enjoyed a visit to Disney World.

"Not only is it too early to make definitive statements about success," Dr. Renbarger said, "but other roadblocks remain, such as difficulty getting the drugs to the children. In many instances the drugs are FDA-approved, but for other indications. Insurance plans and Medicaid can be wary about authorizing a compound approved to treat, for example, renal cell cancer in adults for treatment of a brain tumor in a child."

While navigating such bureaucratic hazards, the program is creating the foundation for a valuable program of research. The collection of both tumor and patient DNA, along with the results of the clinical care of Riley patients, will enable IU School of Medicine scientists to make new connections between the genomics of patients, cancer and treatments.

"It's a very intertwined bedside-to-bench-to-bedside research program," said Dr. Renbarger.

One that should result in even more precise precision medicine.

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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 Data2Discoverv.

"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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Predoctoral Awards Nov 2016

**News Center** 

The Indiana Clinical and Translational Sciences Institute (Indiana CTSI) recently announced its 2016-17 TL1 Predoctoral Training Award recipients. Indiana CTSI was able to fund 18 predoctoral awards (9 renewals and 9 new awards) this period. The awards, funded by Indiana CTSI (partially funded by the National Institutes of Health, National Center for Advancing Translational Sciences, Clinical and Translational Sciences Award, and institutional support) are focused on improving young scientists at the participating universities, Indiana University, Purdue University, and the University of Notre Dame.

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All awardees have dual mentorship from a clinician and a non-clinician PhD scientist. Award benefits include a stipend as well as a health insurance supplement, partial coverage of tuition and fees, and access to travel funds to attend the CTSA Annual Meeting in Washington, DC.

The 2016-17 Predoctoral Awardees are:

#### Indiana University School of Medicine

Lauren Luther (new), Department of Psychology, is investigating Mobile Enhancement of Motivation in Schizophrenia to create critically unmet treatment needs in schizophrenia.

Joey Contreras (renewal) Department of Medical Neuroscience, is examining early neurodegenerative changes as they relate to Alzheimer's disease.

Cassandra (Palmer) Gohn, (renewal), Department of Cellular & Integrative Physiology is focusing on diabetes in pregnancy.

Arianne Aslamy (renewal), Department of Cellular & Integrative Physiology, is researching normal euglycemia and insulin release from pancreatic beta cells.

Sarah Ohlemacher (renewal), Department of Biology, is investigating human stem cell-derived retinal ganglion cells and glaucoma.

#### **Indiana University Bloomington**

**Taylor Nicholas** (renewal), Department of Psychological & Brain Sciences is studying the effect of cannabis use on visual perception, attention, and neural synchrony.

Nicholas Pulliam (renewal), Department of Psychological & Brain Sciences is studying the effect of cannabis use on visual perception, attention, and neural synchrony.

#### **Purdue University**

**Paula Cooper** (new), Department of Comparative Pathobiology and the Interdisciplinary Life Science Program, is conducting research on the effects of inflammation on prostate stem cells throughout prostate cancer.

Brittani Bungart (renewal), Department of Biomedical Engineering, is researching the diagnosis of prostate cancer.

Joselyn Cruz (renewal), Department of Basic Medical Sciences and the Interdisciplinary Life Science Program, is exploring therapeutic approaches for brain tumors.

Katelyn Connelly (new), Department of Medicinal Chemistry & Molecular Pharmacology, is investigating Polycomb Group protein CBX8 as a therapeutic target for Glioblastoma multiforme brain cancer.

**Logan Ganzen** (new), Department of Biological Sciences and the Interdisciplinary Life Science Program, is exploring the use of a zebrafish RP model in the treatment of Retinitis Pigmentosa.

Claire Kilmer (new), Department of Chemical Engineering, is exploring the use of biomimetric living scaffolding as a treatment for Osteoarthritis

**Joshua Liddy** (new), Department of Health & Kinesiology, is utilizing virtual reality to analyze the differences between control of posture and goal-directed behaviors in respect to task constraints rather than control mechanisms.

**Jenny Lin** (new), Department of Biomedical Engineering, is exploring new treatments for foot ulcer including the use of collagen wound dressing and an angiogenic therapeutic molecule as a means of increasing new blood vessels.

Lauren Marussich (new), Department of Biomedical Engineering, is developing an fMRI-based imaging technique for mapping white-matter neural activity for testing and treatment of Alzheimer's disease.

#### **University of Notre Dame**

Kevin O'Brien, (new), Department of Aerospace & Mechanical Engineering, is exploring the effects that targeted eccentric motor control rehabilitation can have on improving locomotion capabilities.

Timothy Riley, (renewal), Department of Chemistry & Biochemistry, is engineering cell receptor immunotherapy associated with

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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 multicampus 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

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**News Center** 

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 6th 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 realtime assessment of cellular behavior. A training seminar was held on Tuesday November 15 from 9-11am in R4-101.

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#### 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 midthroughput 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

#### 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 6th 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).

#### 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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Contact: info@indianactsi.org

Please email Emily Sims (ecwillar@iupui.edu) or Matt Repass (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.







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# **Scientific Review Committee (SRC) Communications**

Indiana University and the Indiana CTSI are taking part in a nationwide demonstration project led by Tufts University on the implementation and evaluation of a Scientific Review Committee (SRC) process for clinical research. This project aims to test a SRC process that positively affects the scientific quality and feasibility of a study without causing meaningful delays on a small number of trials that meet specific criteria.

For the purposes of this project, the SRC will serve in an advisory role to the IRB. At the time of submission to the IRB, the Human Subjects Office will identify studies that meet the criteria for SRC review. Studies that are new full Board investigator-initiated, non-peer reviewed studies that have not been reviewed by the IUSCC SRC or the CTSI Project Development Teams (PDTs) will undergo review by the CTSI SRC. The 6-month SRC pilot runs from **October 1, 2016, until April 1, 2017**.

The SRC review will happen concurrently with the HSO pre-review process in order to minimize delays. Notification of any recommended revisions will be sent directly to PIs who must adequately address these prior to IRB review. The IRB will consider SRC recommendations and responses from the PI in its review.

Would you be interested in having your study reviewed by the SRC prior to IRB submission? If so, PIs are also welcome to submit protocols directly to the SRC for review. For more information, contact ctsisrc@iupui.edu.









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# iCReATE Program

**News Center** 

Indiana CTSI Connecting Researchers And Translational Expertise

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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) and Lane Coffee (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). 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).

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

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





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# CTSI - IU Kelley MBA Core and Project Business Management Assistance - 2017.01

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SUBMISSION DEADLINE - JANUARY 16, 2017 (5:00 PM)

The Indiana CTSI, jointly with the IU Kelley School of Business, offers to provide for a team of 2-5 Indiana Kelley MBA students (from the residential-MBA program in Bloomington) to be your partners for the project as a part of their independent study program for course credit. Project duration will be 8 weeks. Selected cores will be expected to engage with the MBA students for initial project scope (2 hours), additional follow-up or onsite meetings (8-12 hours) and a final project close-out (1-2 hours). The MBA students will contribute 30-100 hours each (depending on the project scope, number of team members and course credit assignment) to the project progression in turn. Selected projects will commence in February - March 2017 and will be completed by early May.

#### **Contact Information**

Contact Name: Rob Dimmitt Contact Email: rdimmitt@iu.edu

#### Submission Checklist

- 1. The proposal consists of the completed application form with signature (electronic acceptable) of core director.
- 2. The application file is uploaded in a single PDF file.

#### Files for Investigators

- DOWNLOAD THE COMPETITION GUIDELINES
- DOWNLOAD APPLICATION FORM

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# CTSI Pre-Doctoral Training in Translational Research - 2016.12

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#### Description

CV SUBMISSION PRIOR TO APPLICATION (via 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 by **December 5, 2016**.

#### **Contact Information**

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

Contact Email: 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
  - o 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

#### Files for Investigators

- DOWNLOAD THE COMPETITION GUIDELINES
- DOWNLOAD APPLICATION FORM
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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

#### 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.

#### Files for Investigators

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# Design and Biostatistics Program (DBP) Pilot Grant - 2017.02

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LETTER OF INTENT (LOI) DEADLINE - DECEMBER 16, 2016 FULL APPLICATION DEADLINE - FEBRUARY 6, 2017 (5:00 PM)

The Design and Biostatistics Program (DBP) of the Indiana Clinical and Translational Science Institute (CTSI) is comprised of 8 units with associated expertise: 1) Department of Biostatistics, IU School of Medicine and Fairbanks School of Public Health; 2) Division of Hereditary Genomics, Department of Medical & Molecular Genetics, IU School of Medicine; 3) Computational Biology, Center for Computational Biology & Bioinformatics, IU School of Medicine; 4) Department of Epidemiology, Fairbanks School of Public Health; 5) Department of Statistics, Purdue College of Science; 6) Department of Applied & Computational Math & Statistics, Notre Dame School of Science; 7) Department of Statistics, IU Bloomington College of Arts & Sciences; 8) Department of Epidemiology and Biostatistics, IU Bloomington School of Public Health.

To achieve its objectives and stimulate development for emerging translational research needs, the DBP will fund innovative pilot projects that support methodological research of faculty members in the eight units that comprise the DBP. The total budget for the entire RFA is \$20,000, and it is expected that up to two awards will be funded at approximately \$10,000 per award for a twelve month duration. The objective of this mechanism is to fund research proposals that will synergize methodological strengths and translational biomedical research of the DBP, and in particular, the following types of research proposals:

- Research projects that propose to develop novel methodology (such as biostatistical, epidemiological, genetic, and bioinformatics methods).
- Research projects that match novel methodology with translational science needs.
- · Research projects that have high potential to obtain external funding.

Preference will be given to investigators who have not already received extramural funding. Applications to this program are expected to be \$10,000 per award and are of one (1) year duration.

#### **Contact Information**

Contact Name: Dr. Susan Perkins Contact Email: sperkin1@iu.edu

#### Submission Checklist

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

## Files for Investigators

- DOWNLOAD THE COMPETITION GUIDELINES
- DOWNLOAD APPLICATION FORM

START a Submission

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# Center for Diabetes and Metabolic Diseases' Pilot and Feasibility - 2017.03

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#### Description

LETTER OF INTENT (LOI) DEADLINE - JANUARY 9, 2017 (5:00 PM) FULL APPLICATION DEADLINE - MARCH 6, 2017 (5:00 PM)

This funding opportunity announcement invites applications from investigators at Indiana University (IUSM, IUB, etc.), IUPUI, and Purdue. The program will be particularly directed at new investigators and established investigators new to diabetes-related research. The program will also consider established diabetes investigators pursuing high impact/high risk projects or projects that are a significant departure from their usual work. The campuses are ideal for establishing interdisciplinary collaborations and forging new partnerships between basic scientists and clinical researchers, and such collaborations are encouraged. Work supported by these funds is expected to lead to submissions of major extramural grants (R01/equivalent NIH, major foundation awards, DOD, etc.).

#### **Contact Information**

Contact Name: Jeffrey S. Elmendorf, PhD Contact Email: jelmendo@iupui.edu

#### Submission Checklist

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

#### Files for Investigators

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# 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	Registration and Continental Breakfast	DLR atrium
9:00-9:30am	Welcome and update of CTSI opportunities Connie Weaver, Deputy Director, Indiana Clinical and Translational Sciences Institute; Distinguished Professor and Department Head, Department of Nutrition Science, Purdue University Preparing for the next 5 years of CTSI 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	DLR 131
9:30-10:30am	New investments in the life sciences at Purdue and Notre Dame  Donna Fekete, John & Donna Krenicki Directorship in Integrative Neuroscience, Purdue Institute for Integrative Neuroscience; Professor, Department of Biological Sciences, Purdue University Richard Kuhn, Director, Purdue Institute of Inflammation, Immunology and Infectious Disease (PI4D); Professor of Biological Sciences, Purdue University  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	DLR 131
10:30-11:00am	Break	
11:00am-12:00pm	Cancer Prevention  The challenge of defining cancer prevention mechanisms underlying associations identified from epidemiological research  Jim Fleet, Distinguished Professor of Nutrition Science; Director of the Interdepartmental Graduate Program in Nutrition, Purdue University  Influence of dietary protein on cancer prevention  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  IUB cancer prevention is a multi-stage process  James Klaunig, Professor, Environmental Health, Indiana University	DLR 131
12:00-1:00pm	Lunch and Posters	
1:00-2:00pm	Breakout Session One Cancer Collaborations ~ hosted by Connie Weaver and Cleveland Shields Microbiome ~ hosted by Steve Lindemann and Dave Nelson	DLR 143 A/B
2:00-3:00pm	Breakout Session Two  Biology Big Data Science ~ hosted by Jim Fleet  Neuroscience ~ hosted by Donna Fekete  Translational Research Collaboratory ~ hosted by Richard Kuhn and Chandy John	DLR 143 A/B
Contact Information: Tommy Sors (765-586-8975) Wendy Field (765-491-3413)		