

Research Enterprise

August 19, 2013

The Office of the Vice Chancellor for Research (OVCR) publishes the RESEARCH ENTERPRISE to keep the academic community and the community at large informed about research activities, opportunities and development on the IUPUI campus.

Research Offices:

[Development](#)
[Administration](#)
[Compliance](#)
[Enterprise Archive](#)

Editor:

Etta Ward

Layout:

Erik Scull

If you have a news item or recent noteworthy research-related achievement that you would like to share, please see the [Research Enterprise Submission Guidelines](#).

Please be aware that not all news items will be deemed appropriate or timely for publication, but each item will be carefully considered.

INSIDE THIS ISSUE:

- [Feature Stories](#)
- [Announcements](#)
- [Center Spotlight](#)
- [Faculty Spotlight](#)
- [Student Spotlight](#)
- [Translational Research Impact](#)
- [OVCR Internal Grant Deadlines](#)
- [Other Internal Grant Deadlines](#)
- [OVCR Events and Workshops](#)
- [Other Events and Workshops](#)
- [Current External Funding Opportunities](#)
- [Identifying Funding Opportunities](#)

FEATURE STORIES

IUPUI Receives \$290,000 NEH Grant for International Research Team to Study Origins of HIV/AIDS

An international team of historians and anthropologists, including two IUPUI professors, will spend the next three years hunting down the origins of HIV/AIDS.

The National Endowment for the Humanities has awarded a \$290,000 three-year grant to IUPUI for the project titled "An International Collaboration on the Political, Social, and Cultural History of the Emergence of HIV/AIDS."

Under the leadership of IUPUI professor William H. Schneider, six humanities scholars assisted by three medical research consultants will study evidence supporting the most frequently offered explanations for the emergence of the global AIDS pandemic.

"It is a clear and a worthwhile goal: figuring out the origin of AIDS," said Dr. Schneider, a historian of medicine who teaches in the history department and directs the medical humanities and health studies program, both part of the IU School of Liberal Arts at IUPUI. "The emergence of new diseases, such as avian flu and swine flu, is one of the most important health concerns in recent decades."

The new study could prove invaluable to those working in global health by providing information about how other new diseases emerge, the principal investigator said. "It can offer a model for medical science and public health researchers who



Project Director William Schneider (right) and head of Limbé Hospital blood bank, eastern Cameroon

recognize that their studies need to account for the larger historical, political, economic, social and cultural relations and processes that shape disease emergence."

Three prominent HIV/AIDS researchers -- virologists Dr. Preston Marx and Dr. François Simon, and epidemiologist Dr. Ernest Drucker -- will serve as medical research consultants. The collaboration began 10 years ago and was recently assisted by the IUPUI Office of the Vice Chancellor for Research, which provided \$15,000 in seed money for the project.

Scientists widely agree that immune viruses have existed in the African simian population -- chimps and monkeys -- for tens of thousands of years. Some of these evolved and adapted into viruses that were devastating to the human population less than 100 years ago. Through DNA sequencing, scientists have identified a dozen human immunodeficiency virus strains, two of which, HIV-1 and HIV-2, are responsible for the current AIDS pandemic among humans.

Because there were several adaptations, most scientists agree that the transfer was not a random incident, and they point to colonial rule of Africa as the circumstance permitting the adaptations. The question is how and why?



HIV/AIDS study collaborators and scientists at planning workshop.

Until now, explanations have focused on finding a "smoking gun," i.e., the first case of human immunodeficiency virus. But that scholarship has lacked a critical humanities approach to the wide array of available field and archival resources. Dr. Schneider's team will address those shortcomings.

"This project is meant to place the medical, public health and biological dimensions of the origin of (HIV/AIDS) in its historical context in sub-Saharan Africa -- bringing attention for the first time to the details of the specific social and cultural consequences

of the introduction of (Western) medicine which was followed in short order by the appearance of the HIV epidemic," Dr. Drucker said.

The research team will focus on the three most feasible explanations: changes in great ape and monkey hunting; social transformations during colonial rule including urbanization, prostitution and human mobility; and new medical interventions, specifically injection campaigns and blood transfusions that facilitated transfer of viruses.

Dr. Schneider, an expert in the history of blood transfusions in Africa, along with Guillaume Lachenal of the University of Paris, will study the role of blood transfusions and vaccination campaigns, health interventions unheard of in Africa before colonial rule.

IUPUI professor Ch. Didier Gondola, chairman of the history department, is also a member of the research team. He is an authority on the history of Brazzaville and Kinshasa, the two neighboring African cities considered to be the place where the HIV-1 epidemic began, which is responsible for 85 percent of today's AIDS cases. Dr. Gondola will investigate the impact of equatorial African urbanization, migration and gender on the emergence of AIDS.

The team will conduct field research and consult several archives and colonial and medical service records in Africa and Europe.



Researcher Ch. Didier Gondola

Beginning with an IUPUI meeting in February 2014, the scholars will meet periodically to review the research, which will conclude with the publication of a book in 2016.

The HIV/AIDS project was one of four Indiana awards.

IUPUI Earns Funding for Fuel Cell Technology

As societies advance, they will continue to need energy to power homes, businesses, industry, transportation and other vital services. The School of Engineering and Technology, through the Richard G. Lugar Center for Renewable Energy, recently received a \$599,985 grant from the National Science Foundation (NSF) to address the challenges of producing energy devices and fuel sources using anion-exchange-membrane direct ethanol fuel cell (AEM-DEFC) technology.

The current low temperature fuel cell technology faces challenges of high material and system costs. The AEM-DEFC technology offers efficiency, cost and stability advantages over the current technology, which allows for the production of more energy with less expensive materials. The new less expensive technology also has greater safety and portability because of its use of bio-ethanol, which can result in a wide range of marketable applications and fuel types.

For instance, AEM-DEFCs have great potential to replace combustion-powered generators and rechargeable batteries for remote military operations and portable electronic applications because of their high efficiency, portability, low-detection, no battery recharge, and low cost.

"The timely development of efficient, durable and cost-effective AEM-DEFCs is imperative to meeting current and future energy demands while reducing operating costs and military vulnerability through locally-sourced bio-fuels," said Dr. David Russomanno, dean, Purdue School of Engineering and Technology, IUPUI. "Without NSF's support, it would have been difficult to continue researching AEM-DEFC technologies."

The NSF grant will allow IUPUI to work with its many partners to develop AEM-DEFC component materials, fuel sources and marketing strategies for its commercialization. The grant is effective July 15, 2013 through June 30, 2015.

ANNOUNCEMENTS

Grant Funds Smartphone Management of Non-communicable Diseases in Resource-limited Settings

A grant from the Medtronic Foundation will fund the development, implementation and evaluation of a secure, smartphone-based mobile platform to facilitate the treatment of noncommunicable diseases in resource-limited environments.

The new mobile platform will initially be used by health care workers for home-based and clinic visits, targeted revisits and mobile-based counseling guided by computer-generated alerts. Additionally, it will help provide continuous medical education and mobile tele-consultation services for diabetes and hypertension. The technology will be freely available and integrated into AMRS, the electronic medical record system serving 500,000 individuals within the western Kenya catchment area of the [Academic Model Providing Access to Healthcare](#), or AMPATH.



Martin C. Were, M.D., M.S.

"The mHealth applications we develop, which will fall under the umbrella name of mUzima -- uzima is Swahili for life -- will go a long way in helping realize secure and interoperable mHealth solutions to improve care and strengthen the health care system. We thank [Medtronic Foundation](#) for helping lead the effort to improve use of mHealth technologies for noncommunicable diseases in resource-limited settings," said [Regenstrief Institute](#) investigator Martin C. Were, M.D., M.S., assistant professor of medicine at [Indiana University School of Medicine](#), who leads the new mobile health project.

Dr. Were is AMPATH's chief medical information officer. He was named one of the mHealth Alliance and Rockefeller Foundation's Top 11 in 2011 mHealth Innovators for his work in mobile technologies for health care workers in resource-limited environments. He is also a [Harold Amos Medical Faculty Development Program](#) Scholar of the Robert Wood Johnson Foundation.

AMPATH is a global consortium of university-based academic centers, joined with Kenya's ministry of health, to deliver health services, conduct health research and develop leaders in health care. AMPATH serves a population of 3.5 million people in western Kenya and was initially established as a joint effort of Indiana University and its North American partners with Moi University and Moi Teaching and Referral Hospital to control the HIV pandemic. More recently, AMPATH has been expanding its scope in an effort to control the emerging challenge of noncommunicable diseases including cancer, diabetes, cardiovascular diseases and mental illnesses.

The Regenstrief Institute is a distinguished medical research organization dedicated to improving the quality of health care. Regenstrief is the home of internationally recognized centers of excellence in biomedical and public health informatics, aging research, health services and health systems research and health care effectiveness research. Institute investigators are faculty members of the IU School of Medicine, other schools at Indiana University-Purdue University Indianapolis, or Purdue University.

Workshop on the Ins and Outs of Applying for NIH Funding

Faculty are invited to attend a special workshop titled ***Ins and Outs of Applying for NIH Funding***. The event will take place on September 27, from 9:00 AM to 12:00 PM, in the IUPUI Campus Center Theater.

How to prepare and submit grant proposals to the National Institutes of Health (NIH) is the focus for this interactive discussion by representatives of the Office of the Vice Chancellor for Research. Topics to be covered will include the identification

of the different types of funding mechanisms and those most appropriate for your career stage, a description of the content of excellent proposals, a presentation of resources available within the University to support proposal development, and an intensive look at the peer review process. Highlighting the event is a panel discussion by current and previous NIH awardees and study section participants who will provide an in-depth look into the review process and a presentation by staff from the Office of Research Administration.

Register for this event at <https://crm.iu.edu/CRMEvents/NIHFundingWorkshop/>.

Short NSF Data Management Plan Jumpstart Tutorial Now Available

As of January 18, 2011, the National Science Foundation now requires a Data Management Plan for all new proposals. This plan should describe how the proposed study will disseminate and share the collected research results. Do you know what this plan should include? Do you know what research support services are available at IUPUI? This brief tutorial will describe the NSF data policies, provide practical tips for developing a data management plan, and direct you to resources and services available on campus.

View the 18-minute tutorial at <https://connect.iu.edu/nsfdmpjumpstart/>.

Fellowship Applications Now Open at the Center for Advanced Study in the Behavioral Sciences at Stanford University

The Center for Advanced Study in the Behavioral Sciences at Stanford University is now accepting applications for residential fellowships for the 2014-2015 academic year. Interested scholars may apply or seek more information at the Fellows page on the Center's website (www.casbs.org). **The deadline to apply is October 3, 2013.**

The Center's bucolic setting has offered accomplished and promising scholars an academic idyll, wherein they may pursue the research of their own choosing, as well as interact with their peers from a wide variety of disciplines within the behavioral sciences and humanities. Former Fellows have described their time here as transformational.

About the Center

Since its founding in 1954, the Center for Advanced Study in the Behavioral Sciences at Stanford University has brought together distinguished scholars in the behavioral sciences to confront societal problems worldwide. The Center is honored to count among its Fellows 22 Nobel laureates, 14 Pulitzer Prize winners, and 44 MacArthur Fellows, in addition to hundreds of members of the National Academies.

Fellows have contributed to fields as diverse as medicine, education, electoral politics, crime prevention, and international development, as well as the core behavioral science disciplines. And they've played key roles in starting new interdisciplinary fields such as behavioral economics.

CENTER SPOTLIGHT

IU Simon Cancer Center Researchers Awarded Komen for the Cure

Grants

Five Indiana University cancer researchers and a one-of-a-kind tissue bank were awarded grant funding of more than \$1.4 million from the Susan G. Komen for the Cure.

Komen announced Thursday it was awarding \$4.5 million in research funding nationally to more fully understand the role that environmental issues play in breast cancer development. The grants will be part of the \$42 million Komen will award in 2013 for cancer research.



Indiana University Melvin and Bren Simon Cancer Center.

The 2013 research grants to [Indiana University School of Medicine](#) faculty and researchers at the [Indiana University Melvin and Bren Simon Cancer Center](#) will focus on breast cancer biology and recurrence. The grants include:

*\$225,000 to Komen Scholar [Sunil Badve](#), M.D., professor of pathology and laboratory medicine, to develop genetic tests that can more accurately predict the likelihood of recurrence and long-term prognosis for people with estrogen receptor positive tumors. Estrogen receptor expression is seen in about 65 to 70 percent of breast cancer cases, and those tumors can recur many years after initial treatment.

*\$225,000 to Komen Scholar [Theresa Guise](#), M.D., Jerry W. and Peggy S. Throgmartin Professor of Oncology and professor of medicine, to focus on identifying the mechanisms causing breast cancer-associated muscle dysfunction and how they relate to decreases in muscle mass, commonly labeled as “wasting.” Dr. Guise aims to understand and prevent this condition, improving the quality of life for breast cancer patients.

*\$175,000 to Komen Scholar [Kathy Miller](#), M.D., Ballve Lantero Scholar in Oncology and associate professor of medicine, for a clinical trial to investigate novel therapies that could prevent recurrence of triple negative breast cancer after a woman’s initial treatment for the disease. Three out of five women with triple negative breast cancer will have a recurrence within two years of their initial treatment.

*\$225,000 to Komen Scholar [Harikrishna Nakshatri](#), Ph.D., Marian J. Morrison Professor of Breast Cancer Research and professor of surgery and biochemistry, to study a class of proteins known as “dependence receptors” in estrogen positive tumors that, when paired with specific partner proteins, aid in the proliferation of cancer cells. By identifying the mechanisms governing the action of these receptors, it is hoped that inhibitors may be developed to interrupt this pairing, thereby stopping tumor growth in estrogen positive breast cancers.

*\$62,500 to Komen Scholar [Bryan Schneider](#), M.D., associate professor of medicine and of medical and molecular genetics, for continuing work to identify genetic markers that will help doctors identify patients who will have adverse reactions (such as heart disease and numbness in the extremities) to taxane therapies for breast cancer. These early identifications will prevent doctors from administering a therapy that may decrease a patient’s quality of life or result in a life-threatening situation.

*\$500,000 to the [Susan G. Komen Tissue Bank](#) at the IU Simon Cancer Center to fund the collection of normal breast tissue from women in Kenya to help understand the underlying biology and genetic issues that lead to more aggressive forms of breast cancer, and higher mortality rates from breast cancer, in women of African descent.

Komen is also granting additional funding in 2013 for operations at the tissue bank,

which is the only repository for healthy breast cancer tissue in the world. This bank allows global researchers to better understand how breast cancer develops by comparing healthy tissue to diseased tissue. The Komen Tissue Bank was established in 2007 with a \$1 million grant from Susan G. Komen to collect and share healthy breast tissue samples donated by volunteers. Since 2007, the bank has collected more than 3,000 tissue samples, in addition to DNA and blood samples, helped by more than \$7.5 million in Komen funding.

STEM Education Research Institute (SERI) Researcher Achieves Early Productivity

Although Dr. Patrice Juliet Pinder has been with the IUPUI STEM Education Research Institute (SERI) for only six months, she is certainly making her presence known through her outstanding research accomplishments. What most productive researchers or professors accomplish in about two years, Dr. Pinder has achieved within six months. Dr. Pinder, whose research focuses on science and mathematics education as it relates to underrepresented minority K-12 and college students within the U.S., has achieved the following in 2013:



Patrice Juliet Pinder, Ed.D.

- *Publication of a number 1 best-selling STEM Education Research book (a book currently listed at #1 out of 17 books on the Untested Ideas Research Center's book list)
- *Publication of two book chapters
- *Publication of six journal articles (this includes two "in press" articles)
- *Presentation of four research papers at three conferences, including a local, national, and international conference
- *Chaired two sessions at the recent 37th National Council for Black Studies Conference; sessions were on Gender and Health Issues in Sub-Saharan Africa and the U.S., and Aesthetic Perfection: The Black Woman's Perspective
- *In addition, Dr. Pinder was recently selected as one of two recipients of the 2013 Untested Ideas Most Outstanding Book Editor Award.

Dr. Pinder has also edited a book with Dr. Edith Blackwell, from the U.S. Department of Agriculture (USDA), titled *Issues and Innovations in STEM Education Research*. The book, which consists of 11 chapters, contains two major sections. The first section (chapters one to six) looks at "issues in STEM Education research" as it relate to minorities, such as women, Hispanics, and Blacks/African Americans. The second section (chapters seven to ten) looks at innovations in STEM Education research, focusing primarily on innovative learning techniques employed with Black/African American students, such as inquiry-based learning and computer-assisted learning. Moreover, the book presents various forms of research: four chapters are literature reviews, three chapters are empirical qualitative studies, three chapters are empirical quantitative studies, and one chapter is a mixed-methods study.

Primarily designed to attract quality research from early career researchers, articles came from early and non-early career researchers. Contributors were: Dr. Patrice Pinder, Dr. Edith Blackwell (USDA), Dr. Jinyan Huang (Associate Professor, Niagara University), Dr. Dejang Liu (Full Professor, College of DuPage), Dr. Lemuel Watson (Dean of School of Education, University of South Carolina), Dr. Margaret Mbilizi

(Associate Professor, D'Youville College), Salina Gray (Stanford University, Ph.D. candidate), Dr. Leticia Hernandez de Hahn (Assistant Professor, Niagara University), Julia Latorre (Niagara University, Ph.D. candidate), Melanie Spence (Niagara University, Ph.D. candidate), Dr. Crystal Morton (Assistant Professor, IUPUI), and Dr. Jomo Mutegi (Associate Professor, IUPUI).

In reflecting on all her accomplishments, Dr. Pinder attributes her success to three key factors: her strong faith, a humble disposition, and hard work.

To learn more about her book or to place an order, visit the [Untested Ideas](#) website.

FACULTY SPOTLIGHT

IU Cancer Researcher Inducted into International Hall of Fame

School of Nursing cancer researcher, Dr. **Victoria Champion**, has been inducted into an international nursing hall of fame.

Dr. Champion, Distinguished Professor at the School of Nursing and a researcher at the Indiana University Melvin and Bren Simon Cancer Center, was one of 19 nurse researchers inducted into the Honor Society of Nursing, Sigma Theta Tau International Nurse Researcher Hall of Fame. The induction was this week during the 24th International Nursing Research Congress in Prague, Czech Republic.

The International Nurse Researcher Hall of Fame recognizes nurse researchers who have achieved significant and sustained national or international recognition and whose research has improved the profession and the people it serves, according to the Honor Society of Nursing.

Dr. Champion's research in behavioral oncology has provided significant knowledge that has led to interventions and the discovery of cancer at earlier and more curable stages. Her research has been funded by the National Institutes of Health for more than two decades, and she is using interactive technology to test format delivery and cost-effectiveness for breast cancer screening.

Dr. Champion also studies quality-of-life issues in breast cancer survivors and is pilot testing interventions to increase patient/provider communication.

Dr. Champion serves as associate director of population science and co-leader of the Cancer Prevention and Control research program at the IU Simon Cancer Center, scientific director of the Behavioral Cooperative Oncology Group Symptom Management Center for the Mary Margaret Walther Program at the IU School of Nursing and is a member of the executive committee for the Indiana Clinical Translation Science Initiative.

In 2008, Dr. Champion was appointed to the National Cancer Advisory Board by President George W. Bush. NCAB is an 18-member board that advises the secretary of the Department of Health and Human Services and the director of the National Cancer Institute. She will remain on the board until 2014.



Victoria Champion, Ph.D., R.N.

STUDENT SPOTLIGHT

Student Researcher Envisions His Role in Crafting a Brighter Future for Gaza

Undergraduate Research Opportunity Program (UROP) Summer Fellow Mohammed H. Al-Aila hails proudly from Jabalia refugee camp in the Gaza Strip, a seaside city about the size of Indianapolis bordering Israel and Egypt.

A rising senior in English translation at Gaza University, Mohammed started college at Al-Azher University-Gaza before transferring. Many Palestinians consider education essential for building their country; yet, in Gaza, there is no public education at any level. High-school tuition is \$20 annually. College tuition costs approximately \$40 per credit hour, totaling \$6,000 for a bachelor's degree, equal to the average annual Palestinian salary. Still, one of the highest per-capita rates of higher education in the world distinguishes Gaza. Mohammed's father, a UN-agency security-guard manager, earned his college degree mid-life and told his son, "You as my son must have more education than I. I have a bachelor's degree, so you must get a Ph.D. If I didn't have a bachelor's, you might get a bachelor's and just stop."



Mohammed H. Al-Aila
UROP Summer Fellow

Through UROP, the IUPUI Center for Research and Learning is presenting Al-Aila with his first faculty-mentored research experience, for which he is thankful. He undertook groundbreaking investigation into the implementation of a peace-education curriculum for Gaza schools. Dr. Ian S. McIntosh, his faculty mentor, characterized him as, "a ferocious advocate for improving the lot of Palestinians. He wants to see a free, peaceful and prosperous Gaza Strip by the year 2050." Mohammed reported, "I consider... working on this research an important part of my personal life, so I strongly encourage undergraduate students to gain research experience, especially [those] ...interested in [a] graduate degree." Upon returning to Gaza in September, he plans to implement this project and to continue his peace research. Additionally, he will seek funds in Gaza to establish an undergraduate-research program there.

Mohammed focuses his readings on human rights and Nongovernmental Organizations (NGOs), in addition to meeting with personnel from the Peace Learning Center and the Center for Interfaith Cooperation. Through UROP to date, he has learned that, as the UN's focus is on humanitarian aid, Gazans have had no opportunity for peace; yet, proactive steps must be taken to prevent deteriorating conditions. Further, as in personal relationships, unilateral measures are futile; for sustainable peace, there must be a two-way street.

Convinced that youth play a critical role, Mohammed aspires to become a political-science professor and eventually establish both a research center and news agency. His ultimate ambition is to become the Palestinian foreign-affairs minister. He envisions Gaza in 2050 with unprecedented growth, a developed city with all homes using green energy, a thriving waterfront, and a seaport among the top ten globally.

TRANSLATIONAL RESEARCH IMPACT

Annual Community Showcase at IUPUI to Feature Presentation by Inaugural Bantz-Petronio Translating Research Into Practice (TRIP) Award Recipient

Chancellor Charles R. Bantz extends an invitation to all to attend the 2013 TRIP Community Showcase. The event will be held on **Monday, September 16, 2013**, 5:00 p.m. – 6:30 p.m., in Campus Center Room 450. Those planning to attend are asked to RSVP at <https://surveycentral.uc.iupui.edu/TRIPcommunity2013.aspx>.

The TRIP Community Showcase will feature a special presentation by the inaugural Bantz-Petronio Translating Research into Practice Award recipient, Dr. David Marrero. Dr. Marrero will present on "Practical Approaches to Preventing Diabetes: What Actually Works." The Community Showcase also provides an opportunity for attendees to engage with several of IUPUI'S distinguished faculty scholars as they present their translational research and illustrate how their research improves people's lives locally, nationally and throughout the world.

The showcase is an opportunity to talk with Dr. Marrero and other TRIP faculty one-on-one, to ask questions, and to explore the research ideas they are pursuing. Appetizers and refreshments will be served. The event is free and open to the public, but **RSVPs** are requested.

TRIP Community Showcase Presenters:



David Marrero

Bantz-Petronio Translating Research into Practice Award recipient
School of Medicine
Translating the Diabetes Prevention Program into the Public Health Community

Stephanie Boys

School of Social Work

and

Carrie Hagan

Robert H. McKinney School of Law

Law and Social Work: Providing Holistic Services to Benefit Students, the University and the Community

Jeffrey Crabtree

School of Health and Rehabilitation Sciences

Community Mobility and Participation in Society (COMPASS)

Razi Nalim

School of Engineering and Technology

Hybrid-Electric Aircraft Propulsion Research

Patricia Scott

School of Health and Rehabilitation Sciences

Fatigue as Reported at 12 Time Points During the First Year Post-Liver Transplant

Sarah Wiehe

School of Medicine

The Avondale Health Study: Community Engagement for Place-based Patient Centered Outcomes Research

OVCR INTERNAL GRANT DEADLINES

Important Note: *Guidelines for most of the Office of the Vice Chancellor for*

Research internal grant programs have changed. The new guidelines must be used for all applications starting this fall including resubmissions.

Enhanced Mentoring Program with Opportunities for Ways to Excel in Research (EMPOWER):

The Enhanced Mentoring Program with Opportunities for Ways to Excel in Research (EMPOWER) has been developed to support IUPUI faculty who are historically underrepresented and/or excluded populations in their discipline or area of scholarship and historically denied admission to higher education or that discipline, 1) to become successful in sponsored research and scholarly activity, and 2) to achieve significant professional growth and advancement. The program sustains mentorship opportunities through the EMPOWER Grant Program, supporting achievement of excellence in research and scholarly activity, and optimal attainment of academic career goals and objectives. The next EMPOWER application deadline is **September 5, 2013**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

Funding Opportunities for Research Commercialization and Economic Success (FORCES):

The FORCES program is designed to support IUPUI researchers in the successful transformation of their research findings into commercially viable outcomes. The key goals of FORCES are to support: 1) realization of short-term projects that will enhance commercial value of IUPUI intellectual property assets, by facilitating commercialization of inventions, technologies, or other intellectual property derived from existing research projects, and 2) development of research initiatives that show great promise for commercialization of the research outcomes. The next RTR application deadline is **September 15, 2013**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

Research Support Funds Grant (RSFG): The Research Support Funds Grant (RSFG) program is designed to enhance the research mission of IUPUI by supporting research projects and scholarly activities that are sustainable through external funding. The next RSFG application deadline is **October 15, 2013**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

International Development Fund (IDF) GRANT: The IDF grant was developed to enhance the international research and scholarly activity focus of the IUPUI academic mission. Generally, the IDF grant serves as venture capital to stimulate additional funding for international research and scholarly activity, which have strong potential to generate indirect cost recovery from extramural sources. The next IDF application deadline is **November 15, 2013**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

OTHER INTERNAL GRANT DEADLINES

The Merck-Regenstrief Collaboration, which began in 2012 under the leadership of Regenstrief scientist Jon Duke and has funded 22 collaborative projects, is now announcing its **Request for Proposals for 2014 projects**. The funding period for 2014 projects will be February 2014 – January 2015; these projects will involve collaboration between Regenstrief, IU, and Purdue researchers and Merck scientists.

While proposals of all types will be accepted, the Collaboration Steering Committee has targeted the following as Areas of Interest for next year:

Disease states and treatments of interest:

Sleep disorders
Osteoporosis
PD-1 inhibitors in the treatment of cancer
Oral allergen immunotherapy
Migraines

Vaccines (esp. HPV)
Postoperative reversal of neuromuscular blockade

Methodologies/Infrastructure areas of interest:

Projects that leverage Natural Language Processing to improve analytics
Clinical Decision Support interventions or novel tools
Methodological projects in observational data research
Studies involving Medication Adherence

Funding is available as salary support for faculty members (5 – 40%) and RI/IU/Purdue staff, payment for hardware and software needs of the project, as well as support from our Collaboration Cores, which include biostatistics, natural language processing core, and data core. Typical awards range from \$100,000 - \$350,000 in total costs for the year.

The first stage in the application process is the submission of a short proposal to Jennifer Gatz (jennngatz@regenstrief.org) by **8/31/2013**. A descriptive title and paragraph or two explaining the concept, aims, and general methods of the proposed idea is sufficient. By mid-September, proposals will be selected that have interest at both Merck and Regenstrief. These proposals will then move to the charter stage, where the collaborative team will create a multi-page charter and preliminary budget. The Collaboration Steering Committee will review these charters in October and choose 6-10 that will progress into detailed project planning. Final approval of the projects will occur in December, and the funding period for 2014 will begin in February.

Additional information on can be found here:

<http://www.regenstrief.org/cbmi/areas-excellence/drug-safety/merck-partnership/>

<http://www.regenstrief.org/news/past-news-releases/2012/merck-and-regenstrief-institute-establish-evidence-based-car/>

IU Health Values Fund Competition Proposals Due at Noon, October 14th

Application forms and instructions are now available for the 2014-2016 IU Health Values Fund grants for Medical Research, Medical Education and The Integration of Religious and Spiritual Dimensions to Health Care. Eligible applicants include IU Health Academic Health Center (AHC) employees and/or those with IU Health AHC medical staff privileges. Application requirements vary among the three programs, so please carefully review the full instructions.

Questions regarding only the IU Health Values Fund for **Medical Research** or clinical **Medical Education** grants should be directed to Rob Clark, Grants Specialist, IU Health Grants Administration & Development Office, at 317-962-9653, rclark16@iuhealth.org, or 1812 N. Capitol Ave, Wile Hall, Rm. W 219, Indianapolis, IN 46202.

Questions and all letters of intent (LOI) regarding **The Integration of Religious and Spiritual Dimensions in Health Care** grant program should be directed to Steven Ivy, Ph.D., SVP, Values Ethics, Social Responsibility & Pastoral Services Division (sivy@iuhealth.org) or Tereasa Gillentine, administrative assistant, at 317-962-3591, 317-962-2276 (fax), tgillentin@IUHealth.org, or sent to IU Health, Office of Values, Ethics, Social Responsibility & Pastoral Services, 340 West 10th St., Fairbanks Hall, Suite 6107, Indianapolis, IN 46202.

Instructions, forms, and pre-applications meetings are found on IU Health's PULSE intranet website at <http://pulse.clarian.org/>.

OVCR EVENTS AND WORKSHOPS

OVCR Research Orientation

When: Wednesday, August 28, 2013 | 1:00 PM-3:00 PM

Where: University Library, Room 1126

This session will provide an overview of research resources, services and support offered to IUPUI faculty by the Office of the Vice Chancellor for Research. Participants will also meet with some current IUPUI faculty members to hear how they were able to achieve success in the early stages of their tenure at IUPUI.

Register: <https://crm.iu.edu/CRMEvents/OVCRResearchOrientation/>

OVCR Research Orientation (Repeat Session)

When: Friday, September 6, 2013 | 10:00 AM-12:00 PM

Where: University Library, 1126

This session will provide an overview of research resources, services and support offered to IUPUI faculty by the Office of the Vice Chancellor for Research. Participants will also meet with some current IUPUI faculty members to hear how they were able to achieve success in the early stages of their tenure at IUPUI.

Register: <https://crm.iu.edu/CRMEvents/OVCRResearchOrientationRepeat/>

Finding Funding

When: Thursday, September 17, 2013 | 2:00 PM-3:30 PM

Where: University Library, Room 0106

This session will provide an overview of the various types of external funding sources, identify tools to locate funding opportunities, explain how to design a funding search, and demonstrate a couple of knowledge management systems that contain thousands of funding opportunities available by the university subscription. This session is hands-on in a computer lab.

Register: <https://crm.iu.edu/CRMEvents/FindingFunding/>

Basic Proposal Development

When: Thursday, September 19, 2013 | 11:30 AM-1:00 PM

Where: University Library, Room 1126

This workshop will focus on the basic essentials of building a successful grant proposal for agencies that fund in a variety of disciplines (science, engineering, arts, humanities, and social sciences). A wide-range of topics will be covered from developing a strong foundation for your application to key components of the narrative, the basic budget, writing styles, and interpreting agency guidelines, the necessity for knowing how your proposal will be reviewed, funding limitations, and how to communicate complex ideas in a limited space. You are welcome to bring

your lunch.

Register: <https://crm.iu.edu/CRMEvents/BasicProposalDevelopment/>

Meeting the NSF Data Management Plan Requirement: What you need to know

When: Tuesday, October 8, 2013 | 12:00pm - 1:00pm

Where: University Library, Room 2120

Presenter: Heather Coates, Digital Scholarship and Data Management Librarian, University Library

As of January 18, 2011, the National Science Foundation now requires a Data Management Plan for all new proposals. This plan should describe how the proposed study will disseminate and share the collected research results. Do you know what this plan should include? Are you aware of best practices and standards for data management, sharing, and preservation? Do you know what research support services are available at IUPUI? This workshop will provide key information on current NSF data policies, practical tips for developing a data management plan, and resources available on campus. Q&A will follow the presentation. Anyone planning to apply for NSF funding is welcome to attend. Feel free to bring your lunch.

Register: <https://crm.iu.edu/CRMEvents/NSFDataPlan/>

IUPUI Imaging Research Symposium

When: Wednesday, October 9, 2013 | 10:00am - 4:30pm

Where: University Library, Lilly Auditorium

The objective of this Symposium is to bring together investigators from diverse scientific disciplines with image technology experts to explore potential collaborative research opportunities. Presentations will highlight several of the imaging capabilities that are available within the IUPUI community as well as applications of advanced imaging methods to address current scientific, medical, and engineering questions. The target audience includes researchers within the IUPUI/IU/PU community as well as academic and industrial investigators within the greater Indiana research community.

Register: <https://crm.iu.edu/CRMEvents/ImagingSymposium/>

Developing Multi-Investigator, Multi-Institutional Proposals

When: Thursday, October 17, 2013 | 11:30 AM-1:00 PM

Where: University Library, Room 1116

The current funding environment favors large, complex, multi-institutional, multi-investigator projects. However, organizing a successful submission takes a great deal of planning and teamwork. What works best in which situation? Should you use a "Red Team Review"? What role does the RFP serve to organize the writing efforts? Professional proposal writers and editors will discuss these and a number of related issues at this session. You are welcome to bring your lunch. (limited to 30 attendees)

Register: <https://crm.iu.edu/CRMEvents/MultiInvestigatorProposals/>

Nine Golden Rules to Succeed in Research and Scholarship

When: Friday, October 25, 2013 | 11:30am - 1:00pm

Where: University Library, Room 1126

This session will reveal the Nine Golden Rules on how to succeed in research and scholarship. It is focused toward new and early career investigators; however, mid-career faculty should find information of interest as well.

Register: <https://crm.iu.edu/CRMEvents/NineGoldenRules/>

IUPUI Innovation to Enterprise Showcase & Forum

When: Tuesday, November 19, 2013 | 4:00pm - 6:00pm

Where: Campus Center, Room 450 A and B

The Office of the Vice Chancellor for Research and the Indiana University Research & Technology Corporation (IURTC) cosponsor the IUPUI Innovation to Enterprise Showcase & Forum. This event highlights the research and creative successes of our faculty, research scientists, and students as they relate to technology transfer and commercialization, noticeably supporting the economic development of Indiana and the nation. Explore the many opportunities for partnering with IUPUI or learn about the exciting entrepreneurial ventures being launched.

Register: <https://crm.iu.edu/CRMEvents/InnovationShowcase/>

OTHER EVENTS AND WORKSHOPS

Women in Medicine & Science (WIMS) Conference: *Making Your Life Work*

Monday, November 11, 2013

2:30 PM - 5:00 PM

Women and men today need a toolbox of techniques to cope with the demands of academic life. As one of only five medical schools in the country **recognized by the Alfred P. Sloan Foundation as an Innovator in Faculty Career Flexibility**, Indiana University School of Medicine recognizes the need to support diverse faculty, staff, and learners of all genders, at all career stages.



Ellen Ernst Kossek, Ph.D.

This highly interactive workshop is designed to share a framework for helping individuals better understand approaches to dividing time and attention between the many demands of work and personal life.

About the Presenter:

[Ellen Ernst Kossek, PhD](#) is the Basil S. Turner Professor of Management at Purdue University's Krannert School of Management and Research Director of the [Susan Bulkeley Butler Center for Leadership Excellence](#).

About the Women in Medicine & Science Conference:

Held each fall, the IUSM Women in Medicine and Science (WIMS) conference provides a collegial and professional environment for faculty, residents and fellows, students, and staff to discuss career advancement, particularly issues of interest to women.

CURRENT EXTERNAL FUNDING OPPORTUNITIES

Funding opportunities in this section include selected current grant announcements from federal agencies for new initiatives and changes to existing programs. Announcements with limited scope are not listed here but are, instead, sent directly to IUPUI School Deans. For comprehensive coverage of funding opportunities please use the on-line search tools listed below.

AGENCY for HEALTHCARE RESEARCH AND QUALITY

Exploratory and Development Grant to Improve Health Care Quality Through Health Information Technology: The purpose of this R21 is to support short-term preparatory, pilot, or feasibility studies that will inform larger scale real world health IT implementation and use or the conduct of more comprehensive health IT implementation research. This FOA is focused on three research areas of interest: 1. Health IT to improve the quality and safety of medication management via the integration and utilization of medication management systems and technologies 2. Health IT to support patient-centered care, the coordination of care across transitions in care settings, and the use of electronic exchange of health information to improve quality of care 3. Health IT to improve health care decision-making through the use of integrated data and knowledge management Each application must clearly identify one of these research areas as the primary research area to be addressed. Applications responsive to this FOA must focus on implementation of health IT in one or more of the following care settings: ambulatory setting(s); transitions in care between ambulatory settings; or transitions in care between an ambulatory setting and non-ambulatory setting. For the purposes of this FOA, ambulatory care settings include: health care clinician offices; outpatient clinics; outpatient mental health centers; outpatient substance abuse centers; urgent care centers; ambulatory surgery centers; community-based, school, or occupational health centers; safety-net clinics; pharmacies; homes; independent living centers; and long-term residential care facilities. *Deadline is October 16, 2013.*

ALPHA-1 FOUNDATION

Role of MicroRNAs in the Expression and Therapy of Alpha-1 Antitrypsin Deficiency: Severe alpha-1 antitrypsin deficiency (AATD), a protein misfolding disease, is often associated with COPD in adults and can lead to liver disease in children and adults. The genetic mutations encoding the misfolded alpha-1 antitrypsin protein (AAT) and its pathophysiologic consequences have been largely characterized. However, the questions why not all affected individuals develop lung or liver disease, and why in those who do become diseased the clinical manifestations vary in severity have not been answered. Yet, understanding the reasons for this variability could provide new diagnostic and prognostic insights and identify new therapeutic targets. Strides are being made to discover additional gene mutations that seem to be needed for the full expression of the AATD phenotype. While the search for modifier genes has identified a few candidates, there is a need for novel research into the post-transcriptional regulation of gene expression in AATD. Endogenous microRNAs have been shown to have the ability to interact with mRNA and modulate its stability and translational function. *Deadlines: letter of*

intent, September 30, 2013; proposal, February 31, 2014.

AMERICAN CHEMICAL SOCIETY

New Directions Grants: The New Directions Grants Program aims to stimulate a new direction of research for established faculty, and to support the careers of their student scientists and engineers. The New Directions (ND) grants program provides funds to scientists and engineers with limited, or even no, preliminary results for a research project they wish to pursue, who intend to use the PRF-driven preliminary results to seek continuation funding from other agencies. ND grants are to be used to illustrate proof of concept/feasibility. Accordingly, they are to be viewed as seed money for new research ventures. A "new research direction" is something different from previous research performed by the lead principal investigator (lead PI). But, it may involve a field of science or engineering in which others are already working. Therefore, the proposed research should not be in the same direction as, or overlap with, current projects in the lead PI's research group. These are two-year, \$120,000 grants; ACS expects to award 100. *Deadline is November 1, 2013.*

NATIONAL INSTITUTES OF HEALTH

Midcareer Investigator Award in Patient-Centered Research: The purpose of this K24 mechanism is to provide support to mid-career health-professional doctorates or equivalent who are typically at the Associate Professor level or the equivalent for protected time to devote to patient-oriented research (POR) and to act as research mentors primarily to clinical residents, clinical fellows, and/or junior clinical faculty. The award will provide salary for levels of effort between 3-6 person-months (or 25 and 50% full-time professional effort). The actual salary provided by the award is based on a full-time, 12-month staff appointment at the sponsoring institution, the PD/PIs institutional salary, and the level of effort requested, up to the maximum legislated salary rate in effect at the time of award. *Deadlines: November 12, 2013; March 12 & July 12, 2014.*

NIH Transformative Research Awards (R01): The NIH Transformative Research Awards complements NIH's traditional, investigator-initiated grant programs by supporting individual scientists or groups of scientists proposing groundbreaking, exceptionally innovative, original and/or unconventional research with the potential to create new scientific paradigms, establish entirely new and improved clinical approaches, or develop transformative technologies. Little or no preliminary data are expected. Projects must clearly demonstrate the potential to produce a major impact in a broad area of biomedical or behavioral research. *Deadline is October 4, 2013; letter of intent due September 4, 2013.*

Support of NIGMS Project Grants (P01): This funding opportunity announcement (FOA) issued by the National Institute of General Medical Sciences encourages innovative, interactive Program Project grant applications from institutions/organizations that propose to conduct research which aims to solve a significant biological problem, important for the mission of NIGMS, through a collaborative approach involving outstanding scientists. The Program Project grant is designed to support research in which the funding of several interdependent projects as a group offers significant scientific advantages over support of these same projects as individual regular research grants. The funding mechanism is divided into 2 tracks: AIDS/AIDS-related and all others. *Deadlines: AIDS-related applications, September 7, 2013 & January 7, 2014; all others, September 25, 2013 & January 25, 2014.*

NATIONAL SCIENCE FOUNDATION

Mentoring Through Critical Transition Points in the Mathematical Sciences

(MCTP): MCTP awards are intended to support training programs that have strong potential to increase the number of well-prepared U.S. citizens, nationals, and permanent residents who pursue careers in the mathematical sciences and in other NSF-supported disciplines. It should be kept in mind that MCTP grants are for training and not the support of PI research activities. The MCTP program provides funds to develop a system of mentoring devoted to points of transition in a mathematical sciences career path that are critical for success, from undergraduate studies to the early years in a tenure track position. MCTP emphasizes department-wide activities aimed at specific stages in the education of trainees. The goal is to encourage the participation of research-oriented mathematical scientists in the nurturing of students and those new to research as they change the intensity of their involvement in the mathematical sciences. The range of activities can vary from preparing postdocs for an academic or industrial career to preparing talented high school students so they can begin serious study in the mathematical sciences at a university. *Deadline is June 03, 2014.*

Emerging Frontiers in Research and Innovation 2014: Two-Dimensional Atomic-Layer Research and Engineering (2-DARE)

The rapid and recent advances in graphene, a single sheet of carbon atoms arranged in a two-dimensional (2D) honeycomb crystal lattice, have raised tantalizing questions for other examples of 2D materials which might have distinct and useful properties. Such possibilities have opened our eyes to an entire world of 2D crystals. The rich variety of properties that 2D layered material systems offer can potentially be engineered on-demand, and they create exciting prospects for device and technological applications such as in electronics, sensing, photonics, flexible electronics, energy harvesting and storage, thermal management, mechanical structures, catalysis, bio-engineering, and gas adsorption in the future. Although the idea of separating individual layers from 2D layered solids is straightforward, the challenges for obtaining large single crystal domains, for chemical modification, for characterization and modeling of such materials, for transfer of these layers onto appropriate substrates, for manipulating these, and for fabricating devices and optimizing their characteristics are significant. Also, this solicitation will contribute to the goals of the National Nanotechnology Initiative. *Deadlines: letter of intent due September 18, 2013; preliminary proposal due October 25, 2013; final submission Feb. 10, 2014.*

NOTE: *All faculty, researchers, and scientists on continuing contracts at IU interested in applying for Department of Defense funding are eligible for assistance by the consulting firm--Cornerstone Government Affairs-- arranged by the Vice President for Research. Those interested in securing assistance from Cornerstone must submit a 2 page summary of their research project and a CV or biosketch to the VP for Research Office at vpr@iu.edu. Prior to submission, the IUPUI Office of the Vice Chancellor for Research is offering assistance with the 2 page summaries. For more information, contact Ann Kratz akratz@iupui.edu.*

IDENTIFYING FUNDING OPPORTUNITIES

On-line search tools are available to IUPUI investigators who are interested in identifying funding opportunities in their areas of interest.

Community of Science (COS): COS is a primary on-line search tool for identifying funding opportunities. To take advantage of this tool, register at <http://www.cos.com/login/join.shtml>. Once you have completed the short registration process, you can personalize your search by selecting the option entitled "launch your workbench". You can access federal, local, corporate,

foundation, nonprofit and other funding opportunities using key terms and save the results of up to 20 searches and have them delivered to you weekly via email.

National Institutes of Health (NIH) "NIH Guide": To take advantage of this search tool, register at <http://grants.nih.gov/grants/guide/listserv.htm>. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

National Science Foundation (NSF) "MyNSF": To take advantage of this search tool, register at http://service.govdelivery.com/service/multi_subscribe.html?code=USNSF&custom_id=823. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

Federal Business Opportunities "FedBizOpps": FedBizOpps is the single government point-of-entry for Federal government procurement opportunities over \$25,000. To take advantage of this search tool, visit <https://www.fbo.gov>. Opportunities found at this site include, but are not limited to, presolicitations and special notices for research and service contracts for specific projects and some national centers and surveys that would not be found in Grants.gov and may not be found in the Community of Science.

Limited Submission Funding Opportunities:

Many federal agencies and foundations offer grants, awards and fellowships that limit the number of applications that can come from one institution or require special handling. In order to comply with agency and foundation guidelines and increase the chances of Indiana University (IU) succeeding in such limited submissions and special handling opportunities, IU policies and procedures are in place and are utilized by the Office of the Vice Chancellor for Research and other IU research offices to facilitate internal coordination and competitions.

Individuals interested in responding to limited submission opportunities must inform the Office of the Vice Chancellor for Research about their intent to apply to a given limited submission opportunity, such that they can be included in the internal review and selection process. Failure to do so may disqualify individuals from consideration for submission to the funding opportunity.

Individuals interested in a limited submission opportunity or have any questions about the internal coordination process, contact Etta Ward at emward@iupui.edu or 317-278-8427. For a description of upcoming limited submission funding opportunities, as well as guidelines and application forms, go to: http://research.iu.edu/limited_sub.shtml. Please note that this is not a comprehensive list, and that any external funding opportunity that imposes any type of submission limitation is subject to the IU limited submission policy and procedures.

The Special Handling list was created in order to communicate donor restrictions and/or preferences for managing solicitation requests from Indiana University. The list reflects special relationships that exist between donors and the university and includes corporations and foundations that the President's office wishes to review prior to submission in order to coordinate Indiana University's requests to these donors.

The Special Handling List was compiled and is maintained by the Indiana University Foundation office of Corporate and Foundation Relations. Please contact [Dee Metaj](#) at 317-278-5644 if you have any questions regarding this list.

IU Authentication is required to view the following attachments:

[IUF Special Handling List and Principal Gifts Review Template](#)

Indiana University Purdue University Indianapolis
755 West Michigan Street, UL1140, Indianapolis, IN 46202-2896
Phone: (317) 278-8427

[Subscribe](#) or [Unsubscribe](#)