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## FEATURE STORY

### IU Receives Large Health Grant

IUPUI researcher, Dennis Fortenberry, M.D., professor of pediatrics at the IU School of Medicine and co-investigators Barbara Van Der Pol, Ph.D., an epidemiologist at the IU School of Medicine and David Nelson, a molecular biologist at IU Bloomington, have received a four-year, \$7 million grant from the National Institutes of Health's Human Microbiome Project. The project is one of only eight nationwide selected to receive funding from this NIH program. "This project will play a key step in the NIH's larger mission to identify and understand all the microbes in the human body," Fortenberry said. "Although our bodies contain trillions of these microorganisms, surprisingly little is known about their role in human health and disease, especially as related to men's sexual health."



Dennis Fortenberry, MD, MS  
Department of Pediatrics  
School of Medicine

With support from the National Institutes of Health and the Indiana Clinical and Translational Sciences Institute, Van Der Pol and Nelson are exploring the microorganisms behind many common -- but poorly understood -- bacterial infections affecting sexually active men in Indiana.

The study, which combines anonymous patient information from healthy young men as well as patients at an STI/STD clinic in Indianapolis with high-tech molecular analysis, aims to uncover the physical and behavioral causes behind some very painful urethral infections. Early support for the project was provided by the Indiana CTSI, a statewide collaboration between IU, Purdue and Notre Dame universities, as well as public and private partners, that facilitates the transformation of promising laboratory research into new patient treatments in Indiana.

"This is actually the main cause of male health care visits to HMOs and other federal care institutions," Van Der Pol said, citing a 2001 study from the Massachusetts Department of Public Health in which nearly 70 percent of first-time clinical visits by men were related to urethritis, a disease characterized by inflammation of the urethra, pain during urination, pain during sex or burning and itching. The federal government spends millions each year trying to improve the control of STDs.

"What's really interesting -- or maybe sad and disturbing -- is that less than one in five of the urethritis cases from the 2001 study could be effectively diagnosed and treated," Van Der Pol said. Undiagnosed cases are referred to as "idiopathic urethritis," which may be triggered by parasites, viruses or bacterial infections, such as gonorrhea and chlamydia. The least understood of these stem from bacteria that cannot be grown in a lab -- making it difficult for scientists to conduct testing.

"This is where collaboration becomes essential," said Van Der Pol, whose work with the Bell Flower Clinic, a sexual health clinic operated by the Marion County Department of Public Health STD Control Program, put her in contact with male patients who could contribute live samples to the project. Nelson then oversaw advanced laboratory analysis. The Department of Biology at IU Bloomington is the College of Arts and

Sciences.

"We correlate information from patients, including demographics, sexual history and the impact of urogenital discomfort on daily living, with diagnostic data, such as cell counts, inflammation levels and infection type," Nelson said. "Then we drill down to the molecular level."

The goal? To pinpoint the precise microbial communities behind these "idiopathic" infections. Early findings have been eye-opening, said Van Der Pol, including infected men who lack a bacteria known to serve a protective function in women -- and it may turn out in men as well. The analysis also discovered others carrying a bacteria more commonly associated with women suffering from complications in pregnancy, including miscarriages. Both findings suggest the study also may have an impact on women's health research.

New insights are also being made into the effectiveness of current clinical practices, including evidence that painful swab tests, which involve physically probing the male urethra, are not required to collect viable clinical samples. This is significant since using urine testing as a less invasive alternative will allow researchers to collect bacteria samples from a larger patient community. Every man who has ever experienced an unpleasant visit to a urologist should also be interested in this finding, Nelson said.

Van Der Pol added that the study's unique combination of expertise in molecular biology and public health policy is not only resulting in new insights into previously unexplored bacteria, but may also help predict behaviors most likely to cause urethritis, including the role of same- versus opposite-sex couplings or the type of sexual activity in which they're engaged.

The next step will be to develop practical sexual behavior recommendations for at-risk populations using this new data, she said, empowering patients to improve their sexual health -- as well as avoid future clinical visits.

## DID YOU KNOW?

For FY2010, IUPUI faculty filed 112 invention disclosures with Indiana University Research & Technology Corporation (IURTC) and 55% resulted in the filing of provisional patents. For schools other than the School of Medicine, over 80% of the potentially patentable disclosures resulted in the filing of a patent application. The School of Medicine accounted for two thirds of the provisional patent applications filed.

For the fiscal year-to-date, research awards to IUPUI faculty total more than \$205M. The amount requested in proposals submitted for the fiscal year-to-date is 6.4% above the same period last year.

## ANNOUNCEMENTS

### IUPUI Distinguished Speaker Series – A Conversation with Michael A. Evans

The IUPUI Solution Center and Translating Research Into Practice (TRIP) invite you to join a conversation with distinguished researcher, innovator, and businessman Michael A. Evans, Ph.D., AIT Founder, President, and CEO. Dr. Evans will join us to talk about the founding and growth of AIT Laboratories, future research directions for AIT, and opportunities for collaboration.

In 1990, Michael A. Evans, Ph.D. founded the American Institute of Toxicology (AIT Laboratories) with five employees and one goal: to provide superior analytical testing and research to professionals in the healthcare industry. Today, AIT has an experienced and skilled staff of more than 475 employees nationwide. AIT specializes in compliance monitoring, forensics, clinical, and pharmaceutical testing. In 2009, AIT launched AIT Bioscience, a bioanalytical contract research organization.



Michael Evans, Ph.D.  
American Institute of Toxicology

Renowned nationwide, AIT is ranked as a top-ten life science company in central Indiana. AIT was the first private toxicology lab in North America to receive certification from the International Organization for Standardization (ISO), and is certified through the College of American Pathologists (CAP), Clinical Laboratory

Improvement Amendments (CLIA), and American Board of Forensic Toxicology (ABFT).

This event is open to the public and free of charge. [Register online](#). Questions can be directed to Teresa Bennett at [solution@iupui.edu](mailto:solution@iupui.edu).

### IUPUI Research Day Student Poster Session – Call for Posters



Abstract submissions for the Third Annual IUPUI Research Day Student Poster Session will open Monday, January 24, 2011. Approximately 100 abstracts are anticipated for presentation by undergraduate, graduate and professional school students from any discipline. Abstracts are due February 28, 2011. To be eligible to submit, a student must be:

- enrolled during the Spring, 2011 semester as an IUPUI undergraduate, graduate, or professional school student;
- working toward a degree in a School/Department housed on the IUPUI campus;
- able to present her/his poster at the 2011 IUPUI Research Day, Friday, April 8, 2011.

Undergraduate students may only submit abstracts based on research, scholarship, or creative activity conducted under the direct mentorship of an IUPUI mentor. These must be approved by mentors prior to the submission deadline.

Further information, as well as the submission URL, will be posted on the Center for Research and Learning website: <http://crl.iupui.edu/>. Faculty interested in serving as abstract and poster reviewers should contact Yvette Perry at [yvperry@iupui.edu](mailto:yvperry@iupui.edu).

### The IUPUI Center for Research and Learning (CRL) Invites Nominations for Awards Recognizing Undergraduate Research

The IUPUI Chancellor's Award for Outstanding Undergraduate Research is a campus-wide honor recognizing the outstanding research and work of an IUPUI undergraduate student completing a baccalaureate degree in May 2011, the preceding December, or the following August. A student must be nominated by a faculty member and/or department chair or dean, and the nomination must be accompanied by a dossier. *Each school or unit may nominate one student.* This award includes a \$1,000 prize and will be conferred at the Chancellor's Academic Honors Convocation on Friday, April 29, 2011. The submission deadline for all materials is Thursday, February 11, 2011. For more information, see [http://www.crl.iupui.edu/Assets/documents/Flyer\\_2011\\_ChancellorURAward.pdf](http://www.crl.iupui.edu/Assets/documents/Flyer_2011_ChancellorURAward.pdf).

The Center for Research and Learning Director's Award for Outstanding Leadership and Mentoring of Undergraduates is awarded each year to an individual who has made significant contributions promoting undergraduate research at IUPUI. Nomination letters should be sent by email to Darla Campbell at [crlstaff@iupui.edu](mailto:crlstaff@iupui.edu) no later than February 21, 2011. The award will be conferred at the IUPUI Center for Research and Learning Student and Faculty Recognition Celebration on Wednesday, April 13, 2011. For additional details regarding criteria for the award, see [http://www.crl.iupui.edu/Assets/documents/Flyer\\_2011\\_CRLDirector'sAward.pdf](http://www.crl.iupui.edu/Assets/documents/Flyer_2011_CRLDirector'sAward.pdf). Please direct questions to Elizabeth Rubens at [erubens@iupui.edu](mailto:erubens@iupui.edu).

The Bowling-Jones-Russo Memorial Undergraduate Research Award is given to a freshman, sophomore, or junior student for outstanding research in any discipline. To be eligible, a student must have accumulated *no more than 85 semester hours* as of the beginning of the current semester. It features a one-time \$750 prize applied directly to the winning student's bursar account the subsequent fall semester. A student must be nominated by a faculty member, department chair, and/or dean. *There is no limit to the number of students*

who may be nominated from any school or unit. For additional details regarding criteria for the award, see [http://www.crl.iupui.edu/Assets/documents/Flyer\\_2011\\_BJR\\_URAward.pdf](http://www.crl.iupui.edu/Assets/documents/Flyer_2011_BJR_URAward.pdf) . Please email nominations to Darla Campbell ([crlstaff@iupui.edu](mailto:crlstaff@iupui.edu)) by March 1, 2011.

### Save the Date – 2011 IUPUI Research Day

On April 8, 2011, the Office of the Vice Chancellor for Research will host its annual Research Day and encourages the IUPUI community to mark your calendars and plan to attend this year's event. More information will be announced in upcoming issues of the RESEARCH ENTERPRISE. Questions can be directed to Etta Ward at [emward@iupui.edu](mailto:emward@iupui.edu) or 317.278.8427.

### New Internal Submission Deadline Policy Announced

Vice President for Research Jorge José announces the implementation of a new policy designed to facilitate accurate and timely submission of funding proposals to external agencies. For all proposals with external deadlines of January 30th, 2011 or later, all administrative documents must be submitted at least five (5) business days before the external agency's deadline; narrative and technical elements of proposals must be submitted two (2) days in advance of the external agency deadline.

"With the increase in the number of proposals that Grant Services staff members must process, and agencies' increasingly stringent deadlines and policies, this policy will ensure that proposals are reviewed and fully processed in time for submission to external funding agencies," said Vice President José.

The full policy is available on line, at [http://www.researchadmin.iu.edu/REEP/reep\\_policies.html](http://www.researchadmin.iu.edu/REEP/reep_policies.html).

## FACULTY SPOTLIGHT

### Faculty Member Broadens Students' Research Horizons through Archaeological Dig

In summer 2010, Jeremy J. Wilson, Assistant Professor of Anthropology, took a team of students from the Multidisciplinary Undergraduate Research Institute on an archaeological dig in the central Illinois River Valley. Four IUPUI MURI scholars, all anthropology majors, participated: Stephanie Montalban, sophomore; juniors Michael Essex and Paula Olin; and Kristi Jarrett, senior. Their objective was to investigate the temporal and spatial dynamics of the earlier and later shifts in sociopolitical organization and settlement patterning in that area. As a result of this past summer's dig at the site known as the Lawrenz Gun Club and the subsequent laboratory analysis, "We were somewhat surprised at the length of the occupation," Wilson said, "probably 50 to 100 years, which is fairly long for Mississippian villages. Most were occupied 20 to 30 years in the Illinois Valley."

Despite excavating ten one-by-two-meter units and doing so in 110-degree (Fahrenheit) heat, they did not find the expected palisade, though few units were excavated in the probable area of the village wall. Most units were 1.5 m in depth, hence the students got into and out of them by standing on buckets. Dr. Wilson's MURI team was videotaped by an Illinois PBS station. That interview can be accessed at <http://www.youtube.com/watch?v=1kwvdgGZL84>.



Jeremy Wilson (right) examines material culture recovered from the first excavation unit at Lawrenz Gun with IUPUI MURI Scholar Michael Essex (far left), Theo Vadpey of UC-Berkeley (sitting), Jenna Dutcher of Binghamton University (second from left), and Shanna Reis of IUPUI (holding screen).

The next stage of research will take place in the spring and summer of 2011 and will include some of the same students. This work will involve remote sensing, a non-invasive way of understanding the site that requires no shovels. Magnetometry and soil resistivity (not magnetized) are methods of sending electrical current through the soil. Electricity passes more easily through soil that has been disturbed, such as by human activity. Subsequently, Dr. Wilson will lead students in additional excavations of houses, structures, and the palisade. Most towns like Lawrenz in the Mid-South/Midwest dissolved before the first European

contact. Perhaps due to the Little Ice Age, larger villages no longer were sustainable. In addition, warfare was rather pervasive.

The houses were rectangular with mud-thatched or daub for walls, whereas the palisade would appear as a straight line with a 90-degree angle. Angel Mounds, near Evansville, has a good example and is the site of the 2011 field school. The best thing that students got out of it, according to Wilson, was that, "they were better able to understand the research process than in a traditional classroom setting. They were able to dig, wash, catalogue, and analyze the artifacts."

Following the dig, the students attended the 2010 Midwest Archaeological Conference at Bloomington, Indiana, in October. The students "took it from the ground to professional presentation," Wilson stated. "It worked out really well."

## TRANSLATIONAL RESEARCH IMPACT

### Understanding Cancer Recurrence and Therapy

Cancers can be simply defined as an abnormal cellular proliferation that has lost the normal constraints that are associated with normal growth. These cells can grow both at local and distant sites (metastases) giving rise to morbidity and mortality. Understanding the mechanisms that cause these effects is complicated and requires a multipronged approach. Collaborating with a Biotech Company, Genomic Health Inc, Sunil Badve, MD, FRCPath has been trying to understand the biology associated with progression of cancer. In on-going studies, they are analyzing the genes associated with progression of Ductal Carcinoma in situ (DCIS) of the breast. DCIS is an abnormal proliferation that is confined to ductal system of the breast, which in spite of appropriate therapy can on occasion recur either as in situ disease or as invasive disease. The goal of the project is to develop a clinically useful assay to predict which of the patients will develop adverse outcomes. Dr. Badve is a professor in the Departments of Pathology and Internal Medicine. He also is the Pathology chair for a clinical trial that uses a molecular assay to decrease the use of cytotoxic chemotherapy for patients with breast cancer.



Sunil Badve, MD, FRCPath  
Departments of Pathology and Internal  
Medicine  
School of Medicine

Thymoma, unlike breast cancer, constitutes a rare type of tumor that arises from the thymus gland located behind the chest plate (sternum). Professor Patrick Loehrer, Director of the IU Simon Cancer Center, is one of the world's experts on the treatment of these rare tumors. Professor Kenneth Kesler, IU Cardiothoracic Surgery, has also operated on a large number of these cases. Teaming up with these clinicians and basic scientists and statisticians, Professor Badve's Core Lab (IU SCC Translational Genomics Core) carried out a gene expression study. Preliminary results of these seems to suggest that it is possible to predict which of these rare tumors might have better prognosis (i.e. not develop metastases) based on the expression of a small number of genes. These initial results are being validated in larger series of patients.

Another approach is to consider cancer cells as a heterogeneous proliferation composed of mother cells (cancer stem cells, CSCs) and their partially differentiated progeny. The CSCs like normal bone marrow stem cells are thought to be resistant to standard anti-cancer drugs. Thus it has been postulated that these CSCs are responsible for the development of recurrences after chemotherapy and ultimately for death. A number of different methods have been used to define these cells, all of which have their limitations. Novel methods of identifying and killing these cells are needed. Professor Badve was recently awarded a grant by the Department of Defense to use a lenti-virus based method to kill these cells. Initial proof of principle studies will be carried out in laboratory with human breast cancer cells.

## RECENT EXTERNAL FUNDING AWARDS

The Office of the Vice Chancellor for Research recognizes and congratulates all IUPUI faculty and researchers for recent awards they have received and that help to advance the IUPUI research enterprise. The following highlights those receiving \$100,000 or more in external grants.

### Grants and Awards - December 2010

PI	Agency	Project Title	School	Department	Total
CRIFE, LARRY D.	WALTHER CANCER FOUNDATION, INC.	The Indiana University Simon Cancer Center Program in Palliative Care Research and Education	MEDICINE	CANCER CENTER	\$3,426,000
BROKAW, JAMES J	ELI LILLY AND COMPANY	Eli Lilly Scholars Program	MEDICINE	DEAN MED-STU CURRICULAR AFF	\$835,944
DIMEGLIO, LINDA ANNE	JAEB CENTER FOR HEALTH RESEARCH INC	Effect Of Metabolic Control At Onset Of Diabetes On Progression Of Type 1 Diabetes	MEDICINE	SURGERY-CHAIRMAN'S OFFICE	\$659,900
BODENHAMER, DAVID JACKSON	LILLY ENDOWMENT, INCORPORATED	Spirit and Place Civic Festival, 2011-2013	LIBERAL ARTS	POLIS	\$400,000
TUNE, JOHNATHAN DAVID	ELI LILLY AND COMPANY	Large Animal Model Of Actue Post-Ischemic Heart Failure	MEDICINE	CELLULAR & INTEGRATIVE PHYSIO	\$353,827
LOEHRER, PATRICK J.	WALTHER CANCER FOUNDATION, INC.	IUSCC Translational Research Acceleration Collaboration (ITRAC)	MEDICINE	CANCER CENTER	\$200,000
MARCH, KEITH LEONARD	ADVANCED TECHNOLOGIES AND REGENERATIVE MEDICINE	Efficacy of ATRM Cell Transplantation in the NOD/scid IL2r-/-Mouse Model of Peripheral Limb Ischemia: Dose and Route of Administration Studies (Study I)	MEDICINE	CARDIOLOGY	\$188,532
FOROUD, TATIANA M.	COLUMBIA UNIVERSITY	Genetic Consortium for Late Onset Alzheimer's Disease	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$150,349
SMITH, JOSHUA S.	BD OF SCHOOL COMMISSIONERS OF CITY OF INDIANAPOLIS	Evaluation of the Indianapolis Public Schools Stimulus Support	EDUCATION	EDUCATION	\$150,000
SULLIVAN JR, WILLIAM J	ALBERT EINSTEIN COLLEGE OF MEDICINE OF YESHIVA UNI	ARRA: A Systems Biology Approach for the Model Apicomplexan Toxoplasma Gondii	MEDICINE	PHARMACOLOGY & TOXICOLOGY	\$137,217
DE CORDON, KIMBERLY QUAD	UNIVERSITY OF ROCHESTER	Cooperative Huntington's Observational Research Trial (COHORT).	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$109,493
SALYERS, MICHELLE PENSEC	INDIANA FAMILY AND SOCIAL SERVICES ADMINISTRATION	Limited Act Fidelity, Training, And Technical Assistance	SCIENCE	PSYCHOLOGY	\$103,824

## OVCR INTERNAL GRANT DEADLINES

### Developing Diverse Researchers with InVestigative Expertise (DRIVE)

The Developing Diverse Researchers with InVestigative Expertise (DRIVE) program is designed to enhance the diversity and research and creative activity mission of IUPUI. Faculty from historically underrepresented populations, usually defined as African-American, Latino-American, Native American, Pacific Islanders, and women are particularly encouraged to apply. The DRIVE program supports projects that have the potential for sustainability through external funding. The next DRIVE application deadline is **February 15, 2011**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

### Release Time for Research (RTR)

IUPUI maintains a robust research enterprise. To support faculty in having adequate time to prepare competitive proposals, the IUPUI Office of the Vice Chancellor for Research has developed the Release Time for Research (RTR) internal funding mechanism. This funding program allows IUPUI faculty a "buy out" of teaching time to prepare high quality grant/contract proposals for submission to external funding agencies.

It also supports non-tenure track faculty who are full-time senior lecturers or clinical track faculty possessing terminal degrees relevant to their fields, and who have a desire to engage in research or creative activity in an area that directly relates to their teaching or service mission. The next RTR application deadline is **February 1, 2011**. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

## OVCR WORKSHOPS AND EVENTS

## Finding Funding

When: Thursday, January 20, 2011 | 02:00 PM-03:30 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.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2229>

## The National Science Foundation Faculty Early Career Development (CAREER) Grant Writing Circle - Four Sessions

*Note: Faculty who submit an NSF CAREER proposal in 2011 are eligible to be considered for an OVCR Project Grant for up to \$30K related to that submission. Up to three awards may be made.*

The NSF CAREER Grant-Writing Circle brings together faculty members who are preparing proposals for the next due date which is in mid-July 2011. Faculty members may check their eligibility for this award at this web site: <http://www.nsf.gov/pubs/2008/nsf08051/nsf08051.jsp>. Sessions will assist project conception and development, budget construction and proposal writing and editing. Participants will assist each other to develop their project ideas and edit their writing as much as possible. **Four sessions**, 90 minutes each, will be followed up by proposal writing, editing, and submission assistance by staff in the Office of the Vice Chancellor for Research. Proposal writers should register for and attend all sessions. Participants from other IU campuses may arrange to attend by video conference (contact Kathryn Wilson [kjwilson@iupui.edu](mailto:kjwilson@iupui.edu)). **All meeting times are 2:00 pm– 3:30 pm.** Additional summer dates will be arranged as required.

### Meeting Dates

Wednesday, January 26, 2011, University Library, Room 1116

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2256>

Wednesday, February 23, 2011, University Library, Room 1116

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2257>

Wednesday, April 6, 2011, University Library, Room 1116

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2258>

Wednesday, May 4, 2011, University Library, Room 1116

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2259>

\*\*\*The proposal is due in the Office of Research Administration for processing five days before the due date at NSF. Due dates at NSF are mid-July and depend on the program to which the proposal is submitted.

## OTHER WORKSHOPS AND EVENTS

### SALT: Playing the Race Card Texas Style: History of Segregation, Sports Participation and Education in Cowtown (Fort Worth)

When: Wednesday, February 23, 2011 | 12:00 PM-01:00 PM

Where: Faculty Club

Presenter: Robin Hughes, Assistant Professor, School of Education

Dr. Hughes explores issues of race in higher education as well as the development of student athletes who participate in revenue generating sports. A buffet lunch is available for \$10 inclusive of tax and gratuity.

Register: <http://faa.iupui.edu/newFaa/events/eventsRegistration.asp?id=2138>

## 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.

### DEPARTMENT OF ENERGY

**Fuel Cell and Hydrogen Storage System Cost Analyses:** The Fuel Cell Technologies (FCT) Program seeks to fund fuel cell system analyses for transportation and stationary applications to envision, define, and determine the cost of reference state-of-the-art or conceptual fuel cell systems for various sizes, applications, and manufacturing volumes that are optimized for lifecycle cost. The FCT Program is also looking to fund cost analyses for low through high volume manufacturing of hydrogen storage systems for on-board transportation and early market fuel cell applications such as stationary, portable, backup power and material handling (e.g., forklifts). *Application deadline is February 18, 2011.*

### NATIONAL ARCHIVES AND RECORDS ADMINISTRATION

**Digitizing Historical Records:** The National Historical Publications and Records Commission (NHPRC), a part of the National Archives and Records Administration (NARA), supports projects that promote the preservation and use of America's documentary heritage essential to understanding our democracy, history, and culture. The Commission seeks proposals that use cost-effective methods to digitize nationally significant historical record collections and make the digital versions freely available online. Projects must make use of existing holdings of historical repositories and consist of entire collections or series. The materials should already be available to the public at the archives and described so that projects can re-use existing information to serve as metadata for the digitized collection. *Application deadline is June 9, 2011.*

### NATIONAL ENDOWMENT FOR THE HUMANITIES

**Digital Humanities Start-Up Grants:** This program is designed to encourage innovations in the digital humanities. Proposals should be for the planning or initial stages of digital initiatives in any area of the humanities. *Application deadline is February 23, 2011.*

### NATIONAL ENDOWMENT FOR THE ARTS

**Literature Fellowships:** The NEA Literature Fellowships program offers \$25,000 grants in prose (fiction and creative nonfiction) and poetry to published creative writers that enable the recipients to set aside time for writing, research, travel, and general career advancement. *Application deadline is March 3, 2011.*

### NATIONAL INSTITUTES OF HEALTH

**Shared Instrumentation Grant Program (S10):** The NCRR Shared Instrument Grant (SIG) program encourages applications from groups of NIH-supported investigators to purchase or upgrade a single item of expensive, specialized, commercially available instrumentation or an integrated system that costs at least \$100,000. The maximum award is \$600,000. Types of instruments supported include confocal and electron microscopes, biomedical imagers, mass spectrometers, DNA sequencers, biosensors, cell-sorters, X-ray diffraction systems, and NMR spectrometers among others. *Application deadline is March 23, 2011.*

**Research Into The Impact Of Economic Fluctuations On Alcohol Consumption, Drinking Patterns, And Prevention And Treatment Of Problem Drinking And Related Problems (R01, R21):** The focus is on the relationship between economic fluctuations and drinking rates and patterns and drinking-related problems, as well as the likely effectiveness of established and developing approaches to the prevention and treatment of problem drinking, alcohol use disorders, and drinking-related problems. These

examinations need not necessarily be limited to a detailing of the alcohol-related consequences of the current economic crisis, but should inform an understanding of the general relationship between economic changes and the above-mentioned drinking-related issues. [Standard application deadlines apply.](#)

**[New Molecular Entities to Treat Substance Use Disorders \(R01\)](#)**: The National Institute on Drug Abuse (NIDA) is soliciting grant (R01) applications for preclinical research projects that can be conducted with accelerated pace from the drug discovery stage to the early development stage, with the ultimate goal of identifying new molecular entities (NME) as candidate compounds and moving them closer to gaining FDA approval of safe and efficacious medications for the treatment of substance use disorders (SUDs). *Application deadline is March 17, 2011.*

**[Translating Basic Behavioral and Social Science Discoveries into Interventions to Improve Health-Related Behaviors \(R01\)](#)**: The focus is on highly innovative Research Project Grant (R01) applications that propose to translate findings from basic research on human behavior into effective clinical, community, or population-based behavioral interventions to improve health. Specifically, this FOA will support interdisciplinary teams of basic and applied biological, behavioral and/or social science researchers in developing and refining novel behavioral interventions with high potential impact to improve health-promoting behaviors (e.g., healthy dietary intake, sun safety, physical activity, or adherence to medical regimens), and/or reduce problem health behaviors (e.g., smoking, tanning or physical activity or alcohol or substance use, abuse or dependence). [Standard application deadlines apply.](#)

## NATIONAL INSTITUTES OF HEALTH

**[Epidemiology and Prevention in Alcohol Research \(R01, R03, R21\)](#)**: The focus is on the epidemiology of alcohol use, alcohol-related harms, and alcohol use disorders and the prevention of underage drinking, alcohol-related harms, and alcohol use disorders. Standard application dates apply.

**[Advances in Patient Safety through Simulation Research \(R18\)](#)**: The Agency for Healthcare Research and Quality (AHRQ) is interested in funding a diverse set of projects that develop, test and evaluate various simulation approaches for the purpose of improving the safe delivery of health care. *Standard application dates apply.*

**[Technologies for Healthy Independent Living \(R01\)](#)**: The focus is on research and development of technologies that monitor health or deliver care in a real-time, accessible, effective, and minimally obtrusive way. These systems are expected to integrate, process, analyze, communicate, and present data so that the individuals are engaged and empowered in their own healthcare with reduced burden to care providers. *Application deadline is January 19, 2011.*

**[Getting from Genes to Function in Lung Disease, NHLBI \(R01\)](#)**: The focus is on characterizing the function of gene(s) and their associated variants identified by genome-wide association studies (GWAS) or other genetic approaches to be involved in lung diseases. Studies should use integrated approaches across scientific disciplines to determine the pathobiological function of these genes. *Application deadline is February 5, 2011.*

**[Toward An Improved Understanding of HDL Function, NHLBI \(R01\)](#)**: The focus is on developing, validating, and standardizing assays to measure HDL function and biomarkers for HDL function and to identify novel genes, pathways, and potential HDL targets in the relationship to HDL function. Innovative methods to determine HDL functional properties such as in vivo reverse cholesterol transport (RCT), anti-oxidant, anti-inflammatory, and antithrombotic activities, and biomarkers for HDL function are encouraged. Projects that will explore HDL functional pathways, new genes and therapeutics related to HDL function are also encouraged. *Application deadline is February 5, 2011.*

## NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

The [National Institute of Standards and Technology \(NIST\)](#) announces that the following programs are soliciting applications for financial assistance for FY 2011: (1) the Material Measurement Laboratory Grants Program; (2) the Physical Measurement Laboratory Grants Program; (3) the Engineering Laboratory Grants Program; (4) the Fire Research Grants Program; (5) the Information Technology Laboratory Grants Program; (6) the NIST Center for Neutron Research Grants Program; (7) the Center

for Nanoscale Science and Technology Grants and Cooperative Agreements Program; (8) the Standards Services Group Grants and Cooperative Agreements Program; and (9) the Law Enforcement Standards Office (OLES) Grants and Cooperative Agreements Program. *Application deadline: Grants evaluated as received. Grants received after June 1 may be considered in the next fiscal year.*

## NATIONAL SCIENCE FOUNDATION

**Developing Global Scientists and Engineers (International Research Experiences for Students (IRES) and Doctoral Dissertation Enhancement Projects (DDEP))**: Developing Global Scientists and Engineers program provides highest quality international research experiences for U.S. students. Whereas the International Research Experiences for Students (IRES) component of the program supports groups of U.S. undergraduate or graduate students conducting research abroad in collaboration with foreign investigators, the Doctoral Dissertation Enhancement Projects (DDEP) component supports the dissertation research abroad of one doctoral student in collaboration with a foreign investigator. *Application deadline is February 15, 2011.*

**Collaborative Research in Computational Neuroscience (CRCNS)**: Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding complex neurobiological systems, building on the theory, methods, and findings of computer science, neuroscience, and numerous other disciplines. Through the CRCNS program, participating organizations of the National Science Foundation (NSF), the National Institutes of Health (NIH), and the German Federal Ministry of Education and Research (Bundesministerium für Bildung und Forschung, BMBF) support collaborative activities that will advance the understanding of nervous system structure and function, mechanisms underlying nervous system disorders, and computational strategies used by the nervous system. Three classes of proposals will be considered in response to this solicitation: Research Proposals describing collaborative research projects, US-German Research Proposals describing international collaborative research projects to be funded in parallel by US and German agencies, and Data Sharing Proposals to enable sharing of data and other resources. *Application deadline is February 16, 2011.*

## 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](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 <http://vsearch1.fbo.gov/servlet/SearchServlet>. 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](mailto: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://ovpr.indiana.edu/lisub/lisub.asp>. 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.

Special Handling: 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. Questions regarding this list can be directed to Bobbi Bosch at 317-278-5648 or [bsbosch@indiana.edu](mailto:bsbosch@indiana.edu).

IU Authentication is required to view the following attachments:

[IU/IUF Corporation / Foundation Special Handling List](#)

[Principal Gifts Review Template](#)

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