



RESEARCH ENTERPRISE

March 16, 2007

The *RESEARCH ENTERPRISE* is the major mode of communication from the IUPUI Office of Research and Sponsored Programs (R&SP). The *ENTERPRISE* is published monthly, distributed by e-mail, and contains time sensitive research information as well as links to information on grants and contracts, funding opportunities, research compliance, and research centers. This information is updated monthly. The Office of Research and Sponsored Programs appreciates your feedback on this publication.

- ANNOUNCEMENTS
- UPDATES
- DID YOU KNOW?
- IDENTIFYING FUNDING OPPORTUNITIES
- FUNDING OPPORTUNITIES

ANNOUNCEMENTS

DEADLINE FOR INTERNAL RESEARCH SUPPORT FUNDS GRANT APPLICATIONS: The IUPUI 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 Research Support Funds Grant application deadline is **Monday, April 2, 2007**. Please note that the guidelines have changed for this program. The new grant guidelines and application forms are available at http://www.iupui.edu/%7Eresgrad/spon/rsfg/rsfg_08_guidelines_and_forms.rtf. Questions can be directed to Etta Ward in the IUPUI Office of Research and Sponsored Programs emward@iupui.edu or 317.278.8427.

EXTENDED DEADLINE FOR INTERNAL INTERNATIONAL DEVELOPMENT FUND GRANT APPLICATIONS: The IUPUI International Development Fund (IDF) grant program is designed to enhance the international research and academic missions of the campus by supporting international research projects and scholarly activities that are sustainable through external funding. The next International Development Fund application deadline has been extended to **Monday, April 2, 2007**. Please note that the guidelines have changed for this program. The new grant guidelines and application forms are available at http://www.iupui.edu/~resgrad/spon/idf/idf_spring_2007.rtf. Questions can be directed to Etta Ward in the IUPUI Office of Research and Sponsored Programs emward@iupui.edu or 317.278.8427.

UPDATES

NEW NIH DIRECTOR'S AWARD

New Innovator Award Program: NIH Director Elias A. Zerhouni, M.D., announced a special program to fund new investigators who propose highly innovative research projects that could

have an exceptionally great impact on biomedical and behavioral science. The NIH Director's New Innovator Award offers grants of up to \$1.5 million in direct costs over five years. At least 14 awards will be made in 2007-2008. This program is open to new investigators who have not yet received an R01 award and whose doctoral degree (Ph.D., M.D., D.D.S., D.V.M., or equivalent) or medical internship/residency was completed in 1997 or later. The New Innovator Award addresses two important NIH goals: stimulating highly innovative research and supporting promising new investigators. Many new investigators have exceptionally innovative research ideas, but not the preliminary data required to fare well in the traditional NIH peer review system. The New Innovator award requires at least 30% effort for an award of \$1.5 million (direct costs) over 5 years. The applicant must select from one of ten categories (Behavioral and Social Sciences, Clinical and Translational Research, Instrumentation and Engineering, Molecular Biology, Cellular Biology, Chemical Biology, Pathogenesis, Epidemiology, Physiology and Integrative Systems, Quantitative and Computational Biology). Application deadline is May 22, 2007. For more information go to <http://grants.nih.gov/grants/guide/rfa-files/RFA-RM-07-009.html#SectionIV>

NIH AND AHRQ CHANGE IN STANDARD RECEIPT DATES FOR AIDS AND AIDS-RELATED APPLICATIONS

Beginning May 7, 2007 the receipt dates at the National Institutes of Health (NIH) and Agency for Healthcare Research and Quality (AHRQ) for AIDS applications will be May 7, September 7, and January 7. These receipt date changes apply to both paper and electronic submission of new, renewal, resubmission, and revised applications. Note that those applications in response to Funding Opportunity Announcements with special dates are excluded. For additional information visit <http://grants.nih.gov/grants/guide/notice-files/NOT-OD-07-053.html>. Questions can also be directed to Amy Arvin in the IUPUI Office of Research and Sponsored Programs aarvin@iupui.edu or 317.278.5367.

ROLEX AWARDS If you have a groundbreaking idea and the ability and determination to bring it to successful conclusion in the fields of Science, Technology, Medicine Exploration, Environmental Protection or Cultural Conservation this is your first step toward making it happen. The five most outstanding candidates will each receive \$100,000 toward the completion of their projects. Up to five other applicants will each receive a substantial cash award. Deadline May 31, 2007. For more information go to: <http://www.rolexawards.com/awards/focus/index.html>

NEW NIH ROADMAP INITIATIVES FOR 2008

NIH Institute and Center Directors have selected the following five topics to be developed for further consideration as Major Roadmap Initiatives. For more information go to <http://nihroadmap.nih.gov/2008initiatives.asp>

Microbiome – The Microbiome is the full collection of microbes (bacteria, fungi, viruses, etc.) that naturally exist within the human body. Initiatives in this area would focus on developing a deeper understanding of these communities of microbes in order to determine how they affect human health.

Protein Capture/Proteome Tools – The Proteome is the complete set of proteins in the body. Efforts in this area would support developing and making available to the scientific community high quality probes specific to every protein in the human and in desired animal models. This would allow the ability to characterize protein function in health and disease and to monitor the markers of a disease in order to deploy early prevention efforts and to identify potential therapeutic targets.

Phenotyping services and tools – A human Phenotype is the total physical appearance and constitution of a person, often determined by multiple genes and influenced by environmental interactions. Initiatives in this area would encourage the development of resources to

systematically catalog human phenotypes in an effort to characterize complex diseases and disorders.

Inflammation as a common mechanism of disease – While significant breakthroughs have occurred in our understanding of inflammation, research is needed to further understand inflammatory processes. Because inflammation is broadly implicated in many diseases and conditions, this initiative would be valuable in uncovering as-yet-unknown immune mechanisms and mediators of inflammation as well as genetic factors, environmental triggers, and the relationship of inflammation to disease.

Epigenetics – Epigenetics is the study of stable genetic modifications that result in changes in gene expression and function without a corresponding alteration in DNA sequence. The epigenome is a catalog of the epigenetic modifications that occur in the genome. Epigenetic changes have been associated with disease, but further progress requires the development of better methods to detect the modifications and a clearer understanding of factors that drive these changes.

DID YOU KNOW?

CAMPUS RESEARCH FACTS:

The number of proposals submitted by IUPUI investigators in January of 2007 was down 5% compared with January of 2006 but the dollar value of the awards submitted by IUPUI investigators in January of 2007 was up by \$4.5 million compared with January of 2006.

NSF awards to all campuses of Indiana University for the federal fiscal year 2005-06 totaled \$28,884,364. IU ranked 62nd among all organizations getting NSF awards.

The number of invention disclosures from IUPUI investigators was 200 in fiscal year 2006 which is more than twice the number in fiscal year 2005. The School of Medicine accounted for 82% of these disclosures.

In 2006, the School of Medicine led all IUPUI schools in the dollar amount of sponsored programs expenditures with expenditures of \$188 million. The School of Liberal Arts was second (8.5 million), the School of Nursing was third (\$ 6.7 million) and the School Science was fourth (\$5.6 million).

LOCAL RESEARCH FACTS:

The number of Small Business Innovation Research (SBIR) awards in Indiana was 38 in 2005. The majority of these were funded by the Department of Defense (24) with NIH a distant second (8). The success rate for Indiana SBIR proposals submitted to the Department of Defense and NIH was about 19.5%.

The dollar amount of NIH awards to all organizations in Indiana increased by 37.4% in the period from 2001 to 2005. Indiana ranked 25th among all the states.

IDENTIFYING FUNDING OPPORTUNITIES

Several on-line search tools are available to IUPUI investigators who are interested in identifying funding opportunities in their areas of interest. Several are listed below:

Community of Science (COS): COS is a primary on-line search tool for identifying funding opportunities. To take advantage of this powerful 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://www.nsf.gov/mynsf/>. 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: Occasionally a funding agency places a limitation on the number of proposals that can be submitted from a campus or university system. For a description of the upcoming "limited submission" funding opportunities, as well as guidelines and application forms, go to: <http://www.srs.indiana.edu/LimSub/LimSub.asp>. Questions can be directed to Etta Ward in the IUPUI Office of Research and Sponsored Programs emward@iupui.edu or 317.278.8427.

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 above.

NATIONAL INSTITUTES OF HEALTH

Academic-Industrial Partnerships for Development and Validation of In Vivo Imaging Systems and Methods for Cancer Investigations (R01) Focus is on research partnerships formed by academic and industrial investigators to accelerate the translation of in vivo spectroscopic and imaging systems and methods into cancer research, clinical trials, and/or clinical practice. Standard deadline dates apply. <http://grants.nih.gov/grants/guide/pa-files/PA-07-214.html>

Agency for Healthcare Research and Quality (AHRQ) Health Services Research (R01) Focus is on understanding and improving decision-making at all levels of the health care system, the outcomes of health care, and, in particular, what works, for whom, when, and at what cost; strengthening quality measurement; and identifying strategies to improve access, foster appropriate use, and reduce unnecessary expenditures. Standard deadline dates apply. <http://grants.nih.gov/grants/guide/pa-files/PA-07-243.html>

Indo-US Program on Maternal and Child Health and Human Development Research (R03)

Focus is on collaborative research projects involving U.S. and Indian investigators to enhance maternal and child health, disease prevention, product development and/or technology transfer. Application deadline is April 18. <http://grants.nih.gov/grants/guide/pa-files/PAR-07-216.html>

Indo-US Program on Contraceptive and Reproductive Health Research (R03)

Focus is on collaborative research projects involving U.S. and Indian investigators to expand contraceptive options and improve reproductive health. Emphasis is on the need for more "translational" research intended to move beyond basic science and discovery to product development and delivery. Application deadline is April 18. <http://grants.nih.gov/grants/guide/pa-files/PAR-07-217.html>

Lung Cancer and Inflammation (R01) Focus is on elucidating the role of the microenvironment and inflammation in lung carcinogenesis, as well as studies on the influence of these factors on the cell of origin and putative lung tumor cells. Application deadline is April 24. <http://grants.nih.gov/grants/guide/rfa-files/RFA-CA-07-046.html>

Molecular Probes for Microscopy of Cells (R01) Focus is on feasibility studies for new classes of high-signal output molecular imaging probes; evaluation of general purpose methods for the delivery and specific targeting of externally administered imaging probes without disturbing cellular physiology, and basic research on underlying fundamental photophysical phenomena relevant to improving the spectral properties of fluorescent probes. Application deadline is May 25. <http://grants.nih.gov/grants/guide/pa-files/PAR-07-234.html>

National Library of Medicine (NLM) Knowledge Management & Applied Informatics Grants (G08) Focus is on the use information technology to optimize the utility of clinical and research information. Standard deadline dates apply. <http://grants.nih.gov/grants/guide/pa-files/PAR-07-236.html>

Scholarly Works in Biomedicine and Health (G13) Focus is on the preparation of book-length manuscripts and other scholarly works of value to U.S. health professionals, public health officials, biomedical researchers and historians of the health sciences. Standard deadline dates apply. <http://grants.nih.gov/grants/guide/pa-files/PAR-07-237.html>

NATIONAL SCIENCE FOUNDATION

Course, Curriculum, and Laboratory Improvement Focus is on improving the quality of science, technology, engineering, and mathematics (STEM) education for all undergraduate students. Application deadline is May 9. http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5741&org=NSF&sel_org=NSF&from=fund

DEPARTMENT OF JUSTICE

State Victim Assistance Academy (SVAA) Focus is on establishing State Victim Assistance Academies (SVAAs) to provide academic education and training for victim assistance providers, victim advocates, criminal justice personnel, and allied professionals who routinely deal with crime victims. Application deadline is April 9. <http://www.ojp.usdoj.gov/ovc/fund/dakit.htm>

IUPUI RESEARCH AND SPONSORED PROGRAMS CONTACT INFORMATION

Office of Research and Sponsored Programs	
<p>Union Building (UN) 618 620 Union Drive Indianapolis, IN 46202-5167</p> <p>General Information (317) 274-8288</p>	<p>Janice Froehlich Interim Vice Chancellor for Research Chancellor's Professor Professor of Medicine</p>
Research Compliance	
<p>General Information Brenda Dugan (317) 274-8289 FAX (317) 274-8744 bmdugan@iupui.edu resrisk@iupui.edu</p>	<p>Shelley Bizila Director of Research Compliance and Research Integrity Officer sbizila@iupui.edu</p> <p>Sara Brand Associate Director of Research Compliance (317) 274-8034 slbrand@iupui.edu</p> <p>Shawn Axe Associate Director of Research Compliance (317) 278-9211 saxe@iupui.edu</p>
Sponsored Research Services (SRS) / Proposals and Awards	
<p>General Information Karlle Slaven (317) 278-3473 FAX (317) 274-5932 kjsslaven@iupui.edu srsinfo@iupui.edu</p>	<p>Sid Johnson Executive Director of Sponsored Research Services (317) 274-5520 wjohnson@iupui.edu</p> <p>Michelle Artmeier Director of Award Services (317) 278-8644 martmeie@iupui.edu</p> <p>Brian Miller Assistant Director of Award Services (317) 278-4117 millerbc@iupui.edu</p> <p>Amy Arvin Interim Director of Proposal Services (317) 278-5367 aarvin@iupui.edu</p>
Research Development, Education and Communication	

General Information
(317) 278-8427
FAX: (317) 278-3602
spondev@iupui.edu

Janice Froehlich
Executive Director of Research Development, Education and
Communication

Etta Ward
Director of Research Development, Education and
Communication
(317) 278-8427
FAX: (317) 278-3602
emward@iupui.edu