

Research Enterprise

October 11, 2012

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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.

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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.

FEATURE STORIES

IU School of Nursing Awarded Robert Wood Johnson Foundation Grant to Study Doctoral Education

The School of Nursing has been awarded a Robert Wood Johnson Foundation Evaluating Innovations in Nursing Education grant in support of a study examining the stages of decision-making that lead to careers in nursing education. Findings will be used to develop strategies for increasing enrollment in doctoral programs as well as the numbers of graduates who seek and are retained in faculty roles.

The study, "Exploring the State of Doctoral Education: Implications for the Nursing Faculty Shortage," is led by School of Nursing assistant professor Kristina Thomas Dreifuerst. Co-investigators on the study are Dean Marion Broome; associate professor Angela McNelis; and professors Claire Draucker and Michael Weaver.

"This was a highly competitive grant process from a prestigious organization. We are honored to have one of the few research proposals selected for this notable funding," Dreifuerst said.

"This is a critical time in nursing education," she said. "The shortage of faculty, particularly doctorally prepared faculty, impacts all aspects of the nursing discipline. While this is not a new problem, new solutions are necessary to move forward. This research will be instrumental in helping to address these needs and develop innovative solutions for them."

The study will investigate the decisions that MSN-prepared nurse educators make when seeking a doctoral degree; those factors informing decisions of doctoral students choosing between a Ph.D. and a Doctor of Nursing Practice degree; decisions of doctoral students to seek faculty positions; satisfaction of recent



Dean Marion Broome
School of Nursing

doctoral graduates with academic and/or practice roles; and intentions of recent graduates to stay in their current roles.

"The data gathered will allow us to develop effective strategies for increasing doctoral enrollment in pursuit of faculty placement," Dreifuerst said.

The Institute of Medicine Report "The Future of Nursing" has indicated that identifying solutions to address the shortage of nursing faculty and doctorally prepared nurses in the United States is a priority.

"This research proposal addresses six areas of need that are critical to achieving the recommendations from the IOM report on 'The Future of Nursing': one, teaching productivity in nursing education; two, faculty preparation in nursing education; three, the shortage of doctorally prepared nursing faculty; four, career decision-making among doctoral students in nursing; five, effectiveness of strategies for leveraging the expertise of existing faculty to teach more doctoral and undergraduate students in nursing; and six, strategies to improve recruitment and retention efforts for nurse faculty," Dreifuerst said.

According to Broome, "We are one of only five studies funded this cycle through an extremely competitive process, and it's very exciting to be able to further investigate the nursing faculty shortage and relevant mitigating circumstances. The results of this study will have a tremendous impact on the way the discipline mentors nurses and helps them to define their career paths in nursing education."

School of Medicine, Rehabilitation Hospital Selected for National Brain Injury Research Network

Federal officials have designated Indiana University School of Medicine and Rehabilitation Hospital of Indiana a Traumatic Brain Injury Model System site. The five-year \$2,137,500 grant adds local researchers and physicians to the leading national network of centers studying and treating traumatic brain injury and its impact on the lives of patients and their families.

The program, started in 1988 by the [National Institute on Disability and Rehabilitation Research](#), has created the longest and largest database of long-term information on individuals with moderate-to-severe traumatic brain injury. Sixteen centers around the country have attained TBI Model System site status.

"This award recognizes that the [Indiana University School of Medicine](#) and [Rehabilitation Hospital of Indiana](#) have an excellent continuum of care, a solid research plan and world-renowned clinical researchers. It ensures that this partnership can develop a stronger understanding and new treatment methods for people dealing with traumatic brain injuries, while helping current patients by sharing that information with clinicians and researchers worldwide," said Dr. Flora Hammond, chief of medical affairs at Rehabilitation Hospital of Indiana and Covalt Professor and chair of the Department of Physical Medicine and Rehabilitation at the School of Medicine.

Dr. Hammond will be the director of the new TBI Model System and James F. Malec, professor of physical medicine and rehabilitation at IU and research director of Rehabilitation Hospital of Indiana, will be co-director.



Flora Hammond, M.D.
Chief of Medical Affairs
Rehabilitation Hospital of
Indiana



James F. Malec, Ph.D.
Research Director
Rehabilitation Hospital of
Indiana

Rehabilitation Hospital of Indiana is an acute care rehabilitation hospital for inpatient and outpatient rehabilitation. RHI specializes in brain injury, spinal cord injury, stroke and comprehensive medical rehabilitation for injuries or illnesses resulting in loss of function. RHI is a community collaboration between [Indiana University Health](#) and [St. Vincent Health](#).

"As the sole traumatic brain injury model system site in the state of Indiana, this award further validates best practice in rehabilitation care. It is comforting for RHI patients, acute care hospital physicians and the Indianapolis community to know that patients with brain injuries, those sustaining strokes, spinal cord injuries, multiple trauma and other injuries or illnesses have available to them outstanding rehabilitation professionals at the Rehabilitation Hospital of Indiana and Indiana University School of Medicine," said Daniel B. Woloszyn, Ph.D., chief executive officer and clinical neuropsychologist at the Rehabilitation Hospital of Indiana.

Along with sustaining and contributing to the longitudinal database, centers that are named to the TBI Model Systems program participate in local and collaborative research projects, focusing on the federal agency's areas of emphasis including employment, health and function, independent living and community integration. The Indianapolis proposal includes the Brain Research in Aggression and Irritability Network, or BRAIN, which develops and studies treatment of irritability and aggression caused by brain injuries.

"Irritability and aggression are common problems for individuals with traumatic brain injury and can have a corrosive effect on their interactions with people and their ability to stay employed," Dr. Hammond said.

"Yet, we really don't have quality measures of their impact. There are a few good studies of treatments, but the standards for managing these problems are inadequate," she said.

The BRAIN project will include two primary studies that were developed with input from the traumatic brain injury community.

*A study of the effectiveness of buspirone in treating post-TBI irritability and aggression. Buspirone, sold under the brand names Buspar and Vanspar, is primarily prescribed to treat anxiety disorders or short-term symptoms of anxiety.

*Preliminary development of a standardized measure to assess the impact of aggression and irritability. Measuring impact is a new yet complementary approach to existing measures of the expression of irritability and aggression.

In addition to its research initiative, BRAIN is a comprehensive model service delivery system serving individuals with traumatic brain injury. The system includes prevention and emergency medical services, intensive and acute care, comprehensive medical rehabilitation, long-term follow-up, community reintegration and vocational rehabilitation. The system serves more than 70,000 Indiana residents and is expected to enroll more than 70 participants annually into the TBI Model System national database.

ANNOUNCEMENTS

Abstract Deadline Fast Approaching for 18th Annual IU Undergraduate Research Conference

18th Annual Indiana University Undergraduate Research Conference

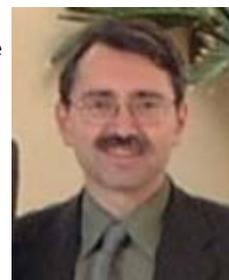
IUURC18

Research, Scholarship, and Creative Activity

The IUPUI Center for Research and Learning (CRL) invites abstracts for the 18th annual Indiana University Undergraduate Research Conference (IUURC) on November 16, 2012. **Abstracts must be submitted by the extended deadline of October 19, 2012.** The IUURC, established in 1994, is dedicated to promoting undergraduate research, scholarship and creative activity in all fields of study which is performed in partnership with faculty or other mentors as a vital component of an Indiana University undergraduate education. This annual meeting draws college students from all campuses of Indiana University: IU Bloomington, IU East, Indiana University-Purdue University Fort Wayne (IPFW), Indiana University-Purdue University Indianapolis (IUPUI), IU Kokomo, IU Northwest, IU South Bend, Indiana University-Purdue University Columbus and IU Southeast. For more information about the IUURC, go to <http://www.crl.iupui.edu/events/iuurc/>.

Nanomanufacturing Expert to Give Free Public Talks

IUPUI will host a national nanomanufacturing expert for two days to engage researchers and the community in a dialogue about the cross-disciplinary opportunities that are emerging in this exciting field. Professor Charalabos (Haris) Doumanidis will give the following talks:



Professor Charalabos
(Haris) Doumanidis

Monday, October 22nd

Nanotechnology Initiative and National Science Foundation
Nanomanufacturing Program
2:00 PM - 3:15 PM
University Library, Rm. 1116

Competitive Proposal Writing
3:30 PM - 5:30 PM
School of Engineering and Technology, Rm. 165

Tuesday, October 23rd

Nano-World as Manufacturing Opportunities for Engineering and Medicine Initiative
and National Science Foundation Nanomanufacturing Program
11:30 AM - 1:00 PM
University Library, Lilly Auditorium

Nanomanufacturing is the creation of functional materials, devices and systems, through the understanding and control of matter at dimensions in the nanometer scale length (1-100 nm), where new functionalities and properties of matter are observed and harnessed for a broad range of applications, ranging from drug delivery systems for cancer treatment to low-cost high-performance fuel cells and other energy generation systems. Recent analytical explorations and insights into the *nanoworld* have created new opportunities and challenges in synthesis and manufacture of useful devices and systems, to perform unprecedented functionalities extending to the macroworld.

These sessions will provide an overview of the philosophy and background of the Professor Doumanidis' research group in thermomechanical materials processing and manufacturing process modeling and control by scanned distributed-parameter, dynamic adaptive techniques. He will share his current investigations in probabilistic branching tree-structured materials, such as *nanoheater sources* by

reactive material multi-layers; *featherweight composites* with nanoparticulates by ultrasonic methods; intestinal tissue engineering on electrospun nanofiber scaffolds; and *targeted delivery* of growth factors, antibiotics and cancer drugs. In addition, Professor Doumanidis will discuss new research directions in multiscale design and manufacture of random fractal architectures such photodendra and vascular tissue scaffolds and humanitarian engineering. Research activities are coupled with related educational curricula, laboratory design and innovation activities, as well as outreach and administration initiatives through the *Nanomanufacturing Program* at the National Science Foundation.

Call for Summer 2013 Multidisciplinary Undergraduate Research Institute (MURI) Proposals

The Center for Research and Learning welcomes proposals for the **Summer 2013 Multidisciplinary Undergraduate Research Institute (MURI) at IUPUI**. Proposals should represent two or more disciplines and should offer undergraduate students the opportunity to engage in a substantive research experience focused on a significant research problem.

This is a unique opportunity provided to IUPUI faculty and researchers for mentoring students while conducting pilot projects or testing new techniques and designs.

Some key points regarding this year's program are as follows:

- *Faculty writing proposals are encouraged to review the document entitled [MURI FAQs for Faculty Submitting Proposals](#).*
- *Proposals must be submitted by using the current version of the [MURI Project Proposal Form](#).*
- *The MURI Review Committee will review the submitted proposals using the [MURI Proposal Evaluation Form](#).*
- *Graduate students and post-doctoral trainees may also serve as co-mentors on a team.*
- *Proposals are due by midnight on November 16, 2012 to CRLGrant@iupui.edu*
- *The Proposal Review Committee Meeting is currently scheduled for December 7, 2012.*
- *The announcement re: funded proposals is currently scheduled for December 14, 2012.*
- *Students may apply to MURI and rank their project choices beginning December 17, 2012 with a deadline of March 1, 2013.*
- *The summer program begins on May 31, 2013 and continues through August 2, 2013.*

MURI is jointly funded by the Center for Research and Learning, a division of the Office of the Vice Chancellor for Research, and the School of Engineering and Technology.

Project proposals from all disciplines on the IUPUI campus are encouraged.

November 1, 2012 is the Abstract Submission Deadline for the 17th Annual Council on Undergraduate Research (CUR) Posters on the Hill Competition

Nothing more effectively demonstrates the value of undergraduate research than the words and stories of the student participants themselves. In the spring of 2013 the Council on Undergraduate Research (CUR) will host its 17th annual undergraduate poster session on Capitol Hill. This event will help members of Congress understand the importance of undergraduate research by talking directly with the students whom these programs impact.

CUR is calling for students to submit an abstract of their research that represents any of CUR's disciplinary divisions (Arts and Humanities, Biology, Chemistry, Geosciences, Health Sciences, Mathematics/Computer Science, Physics/Astronomy, Psychology, and Social Sciences). In order to ensure proper review of applications, the above are the only disciplines that may apply. Should your research be interdisciplinary, or in a subject not listed above, please select the division that most closely describes your research, if applicable.

Abstract submissions will only be accepted by using our on-line submission form. Prior to submitting the form, students should gather the contact information for all co-authors, advisors and sponsors (if applicable), prepare a short vitae/resume, and poster abstract. A document listing the information required for submission can be found by visiting: http://www.cur.org/conferences_and_events/student_events/posters_on_the_hill_information_for_submission/

For more information, and the link to submit an application, please visit:

http://www.cur.org/conferences_and_events/student_events/posters_on_the_hill_call_for_abstracts/. Please note that CUR membership is

required to submit an application. Either the student's home institution must have an institutional membership, or a faculty mentor or undergraduate research coordinator appearing on the submission must have an individual membership. We will not review incomplete applications or applications that do not satisfy the membership requirement.

Please be sure that both portions (the electronic application and the electronic recommendation letter) are submitted by November 1, 2012. Please encourage your students to submit. This is a highly competitive program, which makes for a very exciting experience for the students and their faculty advisors alike.

For more information about the Posters on the Hill program, please visit:

http://www.cur.org/conferences_and_events/student_events/posters_on_the_hill/

INSTITUTE SPOTLIGHT

National Science Foundation Equipment Funding to Enhance IUPUI Research

The National Science Foundation has awarded the Integrated Nanosystems Development Institute (INDI) at IUPUI a \$495,744 grant for the purchase of a state-of-the-art Field Emission Scanning Electron Microscope (FESEM) with Energy Dispersive X-ray Spectroscopy, through the Major Research Instrumentation Program. The enhanced imaging resolution and elemental analysis capabilities of the FESEM will greatly advance research projects, including those in energy, sensors and materials development, and molecular and cellular roles in biological systems.

"The advanced capabilities of the FESEM will significantly enhance our existing nanotechnology initiatives, create new avenues for research and education at IUPUI, promote economic development opportunities in Indiana and stimulate interdisciplinary research collaborations across campus and with industry partners," said Dr. Mangilal Agarwal, interim director, INDI. "We're extremely grateful to the National Science Foundation for their investment, and excited to see the many ways it will benefit the community at large."

"The FESEM will also provide students with valuable hands-on experience in operating state-of-the-art instrumentation, an important skill for students interested in future graduate studies and careers in science, technology, engineering and mathematics (STEM) fields," noted Dr. Jian Xie, principal investigator and assistant professor of mechanical engineering and the new energy engineering degree program at IUPUI.

"Additionally, the instrument will be used to strengthen planned community outreach activities, including existing nanotechnology discovery summer camps for K-12 students and teachers," added Dr. Agarwal, who also serves as the program leader for these summer camps. "This instrument will allow the exploration of nanoscale materials and structures, as well as a better understanding of nanotechnology concepts for these students and teachers."

The expertise and resources in nanoscale science and engineering at IUPUI, coupled with the desire of faculty and student researchers from diverse disciplines to develop nanotechnology-based systems addressing important societal and economic needs, have constituted the main driving forces for the establishment of INDI.

"Funded by IUPUI's Signature Centers Initiative, INDI provides the organizational platform and resources necessary for a cutting-edge interdisciplinary research program in nanotechnology," said Dr. Kody Varahramyan, vice chancellor for research, who oversees the Signature Centers Initiative on the IUPUI campus.

INDI unites a highly-motivated group of faculty with strong track records in nanomaterials, devices, systems design, development and applications from the School of Engineering and Technology, School of Science, School of Dentistry and School of Medicine. For more information, visit www.iupui.edu/~indi.

STUDENT SPOTLIGHT

Research Experience Broadens Student's Perspective on Scientific Inquiry

Tsungai Chingombe, a junior studying chemistry in the Department of Chemistry and Chemical Biology at the School of Science, found her way into research at IUPUI through the Center for Research and Learning's [Undergraduate Research Opportunities Program \(UROP\)](#). "The idea of working in a lab and using real experimental apparatus to discover new ideas intrigued me," says Tsungai. "It was a given for me; I wanted the experience. UROP allows me to work with a research mentor on a specific project, giving me the opportunity and platform to develop my academic and professional career through working in a lab. The program provides strong commendable academic and professional networking with other professors and mentors in the field of research, and allows me to present my work at professional meetings, enhancing my public speaking skills and awarding me the opportunity to exhibit my work. Undergraduate research broadens one's perspective on what the scientific world has to offer and provides various opportunities to excel in both the academic and the professional field."

Tsungai works with her mentor, Dr. Mary Beth Brown, assistant professor in the Department of Physical Therapy at the School of Health and Rehabilitation Sciences. They are investigating the acute effect of treadmill exercise in a rodent model of pulmonary arterial hypertension. There is currently no cure for pulmonary arterial hypertension, but exercise could be a therapeutic intervention, improving



Tsungai Chingombe,
Undergraduate
Research
Opportunities
Program Scholar



Mary Beth Brown,
Ph.D.
Department of
Physical Therapy
School of Health and
Rehabilitation
Sciences

endothelial function, exercise capacity, and quality of life. Dr. Brown states, "I frequently have to remind myself that Tsungai is an undergraduate, because she conducts herself in the lab with the professionalism and dependability of a far more advanced student."

TRANSLATIONAL IMPACT

IUPUI Translating Research into Practice (TRIP) Community Showcase

The 2012 IUPUI Translating Research into Practice Community Showcase is opportunity to engage with several of IUPUI's distinguished faculty scholars as they present their translational research and illustrate how they improve people's lives at the IUPUI TRIP Community Showcase. From health care to information technology, forensic sciences to tourism marketing, and Indiana to the world, these faculty members have translated their research into viable practices that improve our communities.

Tuesday, October 23, 2012

5 p.m. – 6:30 p.m.

IUPUI Campus Center, Room 450

420 University Boulevard

Indianapolis, Indiana

[RSVP Online](#)

This reception is an opportunity to talk to our 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. We hope you will join us, meet some of the talent at IUPUI, find connections, and learn about cutting-edge research.

Hua-Chen Chang

Purdue School of Science

Enhancement of cancer immunotherapy using therapeutic peptides

Brad Doebbeling

IU School of Medicine, Associate Director of the Regenstrief Institute, Inc., VA

HSR&D Center of Excellence on Implementing Evidence-based Practice

Reducing MRSA infections by improving workflow and efficiency

Carolyn Gentle-Genitty

IU School of Social Work

Translating student engagement research into assessment data through collaboration: A university, youth and housing agency, and community partnership.

Tamara Leech

IU School of Liberal Arts, Sociology Institute for Research on Social Issues

Influence of the grassroots WISE program on teen mothers

Lisa McGuire

IU School of Social Work

Does the BSW matter? Assessing the education/training curriculum of the Indiana Department of Child Services

Patricia Scott

IU School of Health and Rehabilitation Sciences

Impact of the liver transplantation process on everyday lives

Linda Williams

IU School of Medicine, VA HSR&D Center of Excellence on Implementing Evidence-based Practice, Regenstrief Institute, Inc., IU Center for Aging Research

Studying the effectiveness of depression screening for post-stroke depression in veterans

For more information about IUPUI's TRIP Initiative, see <http://trip.iupui.edu/>.

OVCR INTERNAL GRANT DEADLINES

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, 2012. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

OVCR EVENTS AND WORKSHOPS

International Development Fund Grant Information Session

When: Monday, October 22, 2012 | 1:00 PM-2:30 PM
Where: University Library, Room 1126

This session will provide participants with an overview of the International Development Fund internal funding mechanism for IUPUI faculty. It will also include information on upcoming deadlines, how to apply, the review process, and post award requirements. Ample time will be allocated for answering questions. This internal funding opportunity is administered through the Office of the Vice Chancellor for Research (OVCR).

[Click here to register](#)

Proposal Preparation: The Basics

When: Tuesday, October 23, 2012 | 11:00 AM-12:30 PM
Where: University Library, Room 1126

This session will center on the essentials of building a successful grant proposal in any discipline. The necessity for knowing who will review your proposal, budget limitations, and how to communicate complex ideas in a limited space will be discussed. This session is geared toward new and early career faculty, especially those unable to attend the discipline-specific workshops.

[Click here to register](#)

Finding Funding

When: Wednesday, October 24, 2012 | 10:00 AM-11:30 AM
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.

[Click here to register](#)

Best Practices for Preparing Multi-Institutional, Complex Proposals

When: Monday, November 5, 2012 | 3:00 PM-4:30 PM
Where: University Library, Room 1126

The current funding environment favors large, complex, multi-institutional, multi-investigator projects; but organizing a successful submission takes a great deal of planning and teamwork. What works best in which situation? 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.

[Click here to register](#)

Preparing Social Science Research Proposals

When: Thursday, November 15, 2012 | 1:00 PM-2:30 PM

Where: University Library, Room 1116

This workshop will target the essentials of developing a successful grant proposal in the social sciences. A variety 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.

[Click here to register](#)

OTHER EVENTS AND WORKSHOPS

Practical Tips for Successful Grant Proposal Writing

When: Thursday, October 18, 2012 | 8:00 AM-5:00 PM

Where: **VanNuys Medical Science Building (MS), room B26**

This seminar comprehensively addresses both conceptual and practical aspects that are associated with the grant writing process. It is appropriate for faculty members who are contemplating a competitive application to federal or state agencies and foundations in either basic science or clinical research.

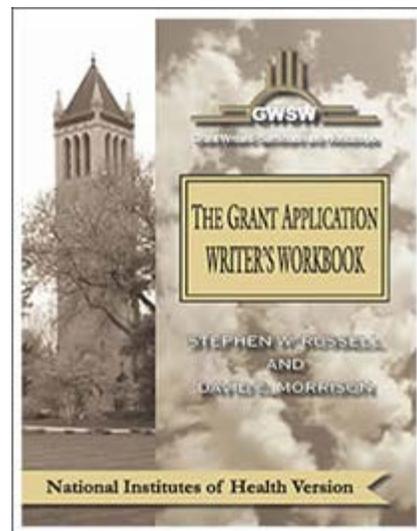
Emphasis is given to such things as idea development, identification of the most appropriate granting agency, how to write for reviewers, and tips and strategies that are of proven value in presenting an applicant's case to reviewers.

A light breakfast and lunch are included. *This program is free and open to all IUSM and IUPUI faculty, staff, and learners. Registration is recommended. All attendees will receive a copy of *The Grant Application Writer's Workbook*.*

This event is sponsored by the IU School of Medicine Office of Faculty Affairs and Professional Development, the IUPUI Office of the Vice Chancellor for Research, and the Regenstrief Institute.

About the Presenter:

[John Robertson, Ph.D.](#) is an associate with Grant Writers' Seminars and Workshops, LLC. He has been the recipient of competitive extramural funding from both the NIH and non-federal sources. He is the author of 27 peer-reviewed journal articles and three book chapters. Dr. Robertson has been a member of grant review panels, a reviewer for a number of biomedical journals, and served on editorial boards.





John Robertson, Ph.D.
Grant Writers' Seminars and
Workshops, LLC

[Click here to register](#)

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 table highlights those receiving \$100,000 or more in external grants.

Grants and Awards - August 2012

PI	Agency	Project Title	School	Department	Total
BOUSTANI,MALAZ AHMED	NATIONAL INSTITUTE ON AGING	Indiana University Dementia Screening Trial: The IU CHOICE Study	MEDICINE	GENERAL INTERNAL MEDICINE	\$2,695,693
RICKERT,VAUGHN IRVING	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Leadership Education in Adolescent Health	MEDICINE	PED-ADOLESCENT MEDICINE	\$2,171,980
VREEMAN,RACHEL CHRISTINE	NATIONAL INSTITUTE OF CHILD HEALTH, HUMAN DEVL.	Patient-Centered Disclosure Intervention for HIV-Infected Children	MEDICINE	PED-HEALTH SERVICES RESEARCH	\$1,886,804
CARROLL,AARON EDWARD	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Computer Automation for Diagnosis and Management of Childhood Type 2 Diabetes	MEDICINE	PED-HEALTH SERVICES RESEARCH	\$1,761,743
XIE,JINGWU	NATIONAL CANCER INSTITUTE	Regulation of immune surveillance by hedgehog signaling in tumor microenvironment	MEDICINE	PED-HEME/ONC BASIC RESEARCH	\$1,618,500
MOSLEY,AMBER LEE	NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	Regulation of RNA Polymerase II Transcription by the Phosphatase Rtr1	MEDICINE	BIOCHEMISTRY/MOLECULAR BIOLOGY	\$1,458,005
ENGLEMAN,ERIC ANDREW	NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM	Long-term consequences of voluntary intake of ethanol and nicotine during peri-adolescence	MEDICINE	PSYCHIATRY	\$1,219,947
HAINLINE,BRYAN E.	INDIANA STATE DEPARTMENT OF HEALTH	INSO 200-16/200-3 Newborn Screening/Biochemical Services: Statewide Program for the Identification, Prevention and Treatment of Inborn Errors of Metabolism	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$830,803
LITZELMAN,DEBRA KATHLEEN	INDIANA UNIVERSITY HEALTH	Innovative Approaches to Improving Palliative Care Interventions through Education of Medical Providers and the Public	MEDICINE	GENERAL INTERNAL MEDICINE	\$ 461,777
JONES,ALAN S	QATAR UNIVERSITY	Development of Self Healing Coatings for Corrosion Resistance in Qatar	E&T	MECHANICAL ENGINEERING	\$253,553
		Role of SCF in plexiform		PED-NEONATAL BASIC	

CLAPP,DAVID WADE	BIOMARIN	neurofibroma development in mice.	MEDICINE	RESEARCH	\$227,410
PFEFFERKORN,MARIAN DEL ROSARIO	CONNECTICUT CHILDREN'S MEDICAL CENTER	Predicting Response to Standardized Pediatric Colitis Therapy: PROTECT Study	MEDICINE	PED-GASTROINTESTINAL DISEASES	\$151,000
ROGAN,PATRICIA M.	GOVERNOR'S COUNCIL FOR PEOPLE WITH DISABILITIES	Indiana Alliance for People with Disabilities proposal to GCPD.	EDUCATION	EDUCATION	\$146,000
BODENHAMER,DAVID JACKSON	PURDUE UNIVERSITY	Rehabilitation & Support Services by Wounded Naval Officers & Families	LIBERAL ARTS	POLIS	\$139,704
AZAR,JOSE MAROUN	INDIANA UNIVERSITY HEALTH	Improving Patient Outcomes, Patient Satisfaction and Staff Job Satisfaction by Developing Relational Coordination in an Outpatient Academic Oncology Practice	MEDICINE	HEMATOLOGY/ONCOLOGY	\$100,000

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.

NATIONAL ENDOWMENT FOR THE HUMANITIES

Scholarly Editions and Translations Grants: Scholarly Editions and Translations grants support the preparation of editions and translations of pre-existing texts and documents of value to the humanities that are currently inaccessible or available in inadequate editions. These grants support full-time or part-time activities for periods of a minimum of one year up to a maximum of three years. Application deadline is December 6, 2012. <http://www.neh.gov/grants/research/scholarly-editions-and-translations-grants>

Collaborative Research Grants: Collaborative Research Grants support interpretive humanities research undertaken by a team of two or more scholars, for full-time or part-time activities for periods of a minimum of one year up to a maximum of three years. Support is available for various combinations of scholars, consultants, and research assistants; project-related travel; field work; applications of information technology; and technical support and services. Application deadline is December 6. <http://www.neh.gov/grants/research/collaborative-research-grants>

NATIONAL INSTITUTES OF HEALTH

Advanced Development of Informatics Technology (U24): The purpose of this Funding Opportunity Announcement (FOA) is to invite Cooperative Agreement (U24) applications for advanced development and enhancement of emerging informatics technologies to improve the acquisition, management, analysis, and dissemination of data and knowledge in cancer research. Application deadline is January 22, 2013. <http://grants.nih.gov/grants/guide/pa-files/PAR-12-287.html>

Lymphatics in Health and Disease in the Digestive, Urinary, Cardiovascular and Pulmonary Systems (R01, R21, R33/34): This focus is on research into aspects of lymphatic vessel physiology and pathophysiology related to health and disease of digestive system and urinary tract organs, and cardiovascular and pulmonary systems; in resolution of thromboembolic events; and inflammation and immune responses as they relate to these diseases. Studies to understand the factors that control local lymphatic vessel functional anatomy and physiology during

health or disease in these organs/systems, and the mechanisms by which alterations of lymphatic vessel function affect organ function, are of interest. Standard application deadlines apply. <http://grants.nih.gov/grants/guide/pa-files/PA-12-259.html>

Estimating the Economic Costs of Alzheimer's Disease and Related Dementias (R01, R03, R21): Alzheimer's disease and other forms of dementia are widely believed to impose great economic costs on society, but the magnitude of those costs is unclear. This Funding Opportunity Announcement (FOA) encourages research on the economic costs of Alzheimer's disease and related dementias, including direct and indirect costs to public and private health care payers, families and other informal caregivers, as well as labor market costs from reduced productivity or labor force participation. Standard application deadlines apply. <http://grants.nih.gov/grants/guide/pa-files/PA-12-255.html>

Examination of Survivorship Care Planning Efficacy and Impact (R01, R21): The focus is on evaluating the effect of care planning on cancer survivors' health and psychosocial outcomes; self-management of late effects and adherence to cancer screening and health behavior guidelines; utilization of follow-up care; organizational-level factors influencing the implementation of care planning; and associated costs. Specifically, the FOA aims to stimulate research that will: 1) develop and test metrics for evaluating the impact of survivorship care planning; 2) evaluate the impact of survivorship care planning on cancer survivors' morbidity, self-management and adherence to care recommendations, utilization of follow-up care, and on systems outcomes, such as associated costs and impact on organizations implementing care planning; and 3) identify models and processes of care that promote effective survivorship care planning. Standard application dates apply. <http://grants.nih.gov/grants/guide/pa-files/PA-12-275.html>

NATIONAL SCIENCE FOUNDATION

Interdisciplinary Behavioral and Social Science Research (IBSS): This is a new solicitation for a new competition. Following are important points that distinguish the Interdisciplinary Behavioral and Social Science Research (IBSS) competition from other competitions. IBSS emphasizes the conduct of interdisciplinary research by teams of investigators in the social and behavioral sciences. There are two types of projects that may be supported by IBSS: IBSS Large Interdisciplinary Research Projects (with maximum award sizes of \$1,000,000); IBSS Interdisciplinary Team Exploratory Projects (with maximum award sizes of \$250,000). Application deadline is January 23. <http://www.nsf.gov/pubs/2012/nsf12614/nsf12614.htm>

Political Science: The Political Science Program supports scientific research that advances knowledge and understanding of citizenship, government, and politics. Research proposals are expected to be theoretically motivated, conceptually precise, methodologically rigorous, and empirically oriented. Substantive areas include, but are not limited to, American government and politics, comparative government and politics, international relations, political behavior, political economy, and political institutions. Application deadline is January 15, 2013. http://nsf.gov/funding/pgm_summ.jsp?pims_id=5418&org=NSF&sel_org=NSF&from=fund

Cognitive Neuroscience: The Cognitive Neuroscience Program seeks highly innovative and interdisciplinary proposals aimed at advancing a rigorous understanding of how the human brain supports thought, perception, affect, action, social processes, and other aspects of cognition and behavior, including how such processes develop and change in the brain and through time. Application deadline is January 24, 2013. http://nsf.gov/funding/pgm_summ.jsp?pims_id=5316&org=NSF&sel_org=NSF&from=fund

U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND BROAD AGENCY ANNOUNCEMENT FOR EXTRAMURAL MEDICAL RESEARCH

Research interests have been updated for this program. Before submitting full proposal/applications, organizations are required to explore USAMRMC interest by submitting preliminary research proposal/applications (pre-proposal/pre-applications). Pre-proposal/pre-applications may be submitted at any time prior to the BAA closing date of September 30, 2013. [Full Announcement](#)

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.

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.

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

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