

Research Enterprise

October 17, 2011

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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 STORY

School of Education Awarded Federal Grant

The U.S. Department of Education (USDOE) is granting \$1.9 million to the Indiana University School of Education at Indiana University-Purdue University Indianapolis for a five-year grant to prepare more teachers with techniques to more effectively teach English as a Second Language (ESL) students.

Associate Professor in Second Language Education Annela Teemant is principal investigator for the project, which will build on a previous five-year grant of \$1.5 million the USDOE awarded in 2007. The project, titled "IUPUI ESL Partnerships: Building Capacity Across and Within Institutions," is designed to expand that successful project into more teaching capacity for partner school districts.

"It's literally a seamless transition to the new grant," Teemant said. The first grant project focused on three Indianapolis Public Schools (IPS) system schools, where the project prepared 55 "master teachers" to instruct new teachers on a more student focused method of instruction designed to help ESL students in particular, but useful with all students. The new grant continues work with IPS, but expands into the Metropolitan School District of Pike Township, adding three schools and preparing "coaches" who will work in all Pike schools.

"By the end of the grant, we should have 16 certified ESL coaches working in literacy contexts in Pike Township," Teemant said. Additionally, the project will expand certified ESL teachers by awarding 45 scholarships toward earning ESL certification over 16 months.



Annela Teemant, Ph.D.
 Department of Second Language
 Education School of Education

The project addresses an ongoing and continually developing need for ESL teaching in Indiana. The state's ESL population has quadrupled since 1997.

The instructional method teachers learn and spread to colleagues requires them to redesign classroom instruction so students spend more time working with each other and individually with the teacher rather than sitting and receiving instruction. "Teachers are not seeing themselves as monitors of behavior, but are actually responsible for intervening and assisting in learning," Teemant said. "That's where the energy comes from -- when they start to build off student thinking instead of being the sole voice and authority in the classroom."

Teachers who learned the new teaching style during the first grant have praised its outcome. "It totally changed the way I teach -- totally," said Deb Eckler, sixth-grade teacher at Meredith Nicholson Elementary in Indianapolis. "And this is my 27th year of teaching. This was the best thing I ever did."

Eckler said the method changed the appearance of her classroom as well. Most participating teachers moved desks from rows into clusters to enable more student collaboration. Many teachers also said the physical setting and the change from "sage-on-the-stage" lecture has meant students have become more invested in what they're learning. "I may set the stage for them so to speak," said Jessica Barnes, first-grade teacher at Meredith Nicholson, "but they take it where they want it to go."

The new grant will increase the reach of the teaching techniques both in the area schools and at the university level. "The fact that we're moving in Pike to a 16-coach model, that means you have a chance to influence every school in that district," Teemant said. This project will also increase the amount of support for teachers with coaching interventions by a year. Evaluations of the first project revealed that while teachers sustained many of the new practices, some dropped off. In the evaluation phase, Teemant will examine whether the extra support makes a difference. At IUPUI, a core team of faculty will begin work on spreading the effective teaching technique to all teacher education candidates. Faculty will also revise ESL curriculum to benefit pre-service teachers more directly in the areas of math and science education as well.

Teemant has documented success from the first federally-funded project and is eager to expand its reach with the new project. "When you have 20-year veteran teachers say you are helping me see students and student learning differently, you know you're onto something that makes a difference," she said.

ANNOUNCEMENTS

IUPUI Innovation to Enterprise Summit



Has your work given you a great idea for a technology venture? Do you want to be a technology entrepreneur? Or do you want to be part of a start-up team for a new venture? Co-sponsored by the IUPUI Office of the Vice Chancellor for Research and the Indiana University Research and Technology Corporation, the Innovation to Enterprise Summit will bring together key players from IUPUI and the Indianapolis

area business community—researchers, entrepreneurs, investors, and corporate executives—to explore the challenges and opportunities faced in taking the fruits of academic research and translating these into products. The event will be held on Thursday October 20, 2011. The following are program details.

1:30-2:00 pm – Registration check-in

2:00-2:05 pm – Welcome

2:05-4:00 pm – Panel Session

4:00-4:15 pm – Break

4:15-5:15 pm – Keynote Address

Panel Session: Keys to Successful Technology Commercialization--Taking University Inventions to Market

Panelists will draw from their expertise in high tech and life science ventures to discuss marketing, legal, and technical issues that need to be addressed in taking university research to market—in particular, when starting new technology companies.

- Diana Caldwell, President and CEO, Pearl Pathways and Pearl IRB
- James A. Coles, Partner, Taft Stettinius & Hollister LLP
- Scott Prince, Executive Director, EnerTech Capital
- John Wechsler, Partner & Venture Coach at Developer Town
- Panel Moderator: Mervin Yoder, MD, Assistant Dean for Entrepreneurial Research, IU School of Medicine

Keynote: 16 Tech – Downtown Technology District

Presented by Michael J. Huber, Deputy Mayor for Economic Development, City of Indianapolis

Learn more about the exciting plans for a certified technology park on Indy's near Northside known as 16 Tech – www.16TechIndy.com.

16 Tech is being designed and marketed to attract to Downtown Indianapolis research firms, contract service providers, and high-tech companies in such industries as information technology, health information technology, motorsports, biotechnology, and clean energy.

To register for the Innovation to Enterprise Summit, go to <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2607>. *There will be a networking reception following the keynote address. Everyone is welcome but please register!*

Questions should be directed to Karen White in Office of the Vice Chancellor for Research at 274-1083 or kfwhite@iupui.edu.

IUPUI Imaging Research Workshop

The IUPUI Imaging Research Council invites you to the first IUPUI Imaging Research Workshop that will be held on Thursday, November 17, 2011 (8:30 AM – 3:00 PM), in Walther Hall (R3), Auditorium, Room C203. Register for the workshop at <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2626>.

The purpose of this workshop is to help raise campus wide awareness of the broad spectrum of imaging research activity within our IUPUI community.

The workshop will feature a keynote presentation by **Dr. Jane Silverthorne, Acting Division Director for Integrative Organismal Systems**, from the National Science Foundation (NSF). Her presentation will showcase new NSF initiatives and opportunities.

The following is the program for the day.
8:30-8:50 am – Registration
9:00-9:10 am – Welcome
9:10-10:00 am – Keynote
10:00-11:00 am – IUPUI Imaging Research Presentations
11:00 am–1:00 pm – Poster Session / Luncheon
1:00-3:00 pm – Breakout Sessions

Poster Session Abstracts: The submission deadline for poster session abstracts is **October 21, 2011**. Abstracts are limited to 250 words and should be submitted to ovcr@iupui.edu.

Register for the workshop at <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2626>.

FACULTY SPOTLIGHT

School of Medicine Pediatrician Receives Presidential Award

Jamie L. Renbarger, M.D., a pediatrician and researcher at the Indiana University School of Medicine, was named a recipient of a Presidential Early Career Award for Scientists and Engineers by President Obama on Monday.

The Presidential awards, established in 1996, are the highest honor bestowed by the United States government on science and engineering professionals in the early stages of their independent research careers and reflect the administration's priority "on producing outstanding scientists and engineers to advance the nation's goals, tackle grand challenges, and contribute to the American economy," the White House said in its announcement.

Ninety-four recipients were announced on Monday.

Dr. Renbarger, who joined the Indiana University faculty in 2002, is the Nora Letzter Scholar in Pediatrics and assistant professor of pediatrics, of medicine and of obstetrics and gynecology. She is associate director of the Indiana Institute for Personalized Medicine and a member of the Indiana University Melvin and Bren Simon Cancer Center.

Dr. Renbarger was selected to receive the award for pharmacogenomic studies aimed at optimizing the use of vincristine in the treatment of children with cancer.

A primary research focus for Dr. Renbarger has been to use genomic tools to reduce the impact of side effects that frequently affect children with cancer who are being treated with the drug vincristine. The drug, widely used and effective, can cause nervous system side effects – neuropathies – that can range from jaw pain to foot drop to severe constipation. She and colleagues at several institutions across the country are working to better detect, predict and prevent the onset of those side effects.

"I am honored to have been selected for this prestigious award. It is a privilege to enjoy a career as a physician-scientist, participating in research that I love. It is exciting to make discoveries from research based on practical clinical questions that allow us to improve the treatment of children with cancer. It is especially gratifying to be recognized for my efforts in that research," Dr. Renbarger said.

"Dr. Renbarger's work demonstrates the excellence that enables the IU School of Medicine to successfully carry out its missions of research, education and patient care," said D. Craig Brater, M.D., dean of the IU School of Medicine and vice



Dr. Jamie Renbarger

president for university clinical affairs. "All of us at IU congratulate her on her accomplishments."

"In her relatively short time here Dr. Renbarger has made tremendous contributions as a physician, a researcher and a teacher," said D. Wade Clapp, M.D., chairman of the IU Department of Pediatrics. "We are proud of her achievements, which have and will continue to help make it possible to provide the best possible care for children at Riley Hospital for Children at IU Health and beyond."

After receiving her medical degree from St. Louis University School of Medicine in 1996 Dr. Renbarger served an internship and residency there. She was a fellow in pediatric hematology-oncology at Baylor College of Medicine from 1999 to 2002 before joining IU in 2002.

STUDENT SPOTLIGHT

Student Fuels Passion for Biology through Research and Service

It was during her early years growing up in Nigeria that Osato Ogbeifun discovered a genuine joy in helping people. Her willingness to aid ill or injured classmates may have been the first sign that she'd one day become a doctor – that and her passion for biology.

A senior at the IUPUI School of Science, Ogbeifun is well on her way. The biology major moved with her parents and siblings from Nigeria to the United States when she was 16. After graduating from high school in Michigan, she moved with her family to Indianapolis where she enrolled at Ivy Tech Community College. She soon transferred to IUPUI as part of Bridges to the Baccalaureate program, collaboration between IUPUI and Ivy Tech designed to help minority students seamlessly transfer to a bachelor's degree program in biomedical or life sciences.

"Biology is something I've always liked," says Ogbeifun, who is also a student in the Diversity Scholars Research Program (DSRP) at IUPUI. "It's rewarding to discover something you didn't know about – to learn the unexpected." DSRP is administered and managed by the IUPUI Center for Research and Learning.

Although enamored with the patient care side of medicine, Ogbeifun gained valuable research experience working alongside respiratory disease investigator Dr. Irina Petrache, associate professor of medicine at the Indiana University School of Medicine. Dr. Petrache recommended Ogbeifun for selection to attend the Annual Biomedical Research Conference for Minority Students (ABRCMS), which was held in Charlotte, North Carolina, in November 2010. As presenter of one of Dr. Petrache's research projects, Ogbeifun won the 2010 ABRCMS presentation award.

"The experience really opened my eyes to the possibilities of research," Ogbeifun says. "The conference was also a great place to learn about graduate programs across the country and to make connections with people who can help with future career opportunities."



Osato Ogbeifun at the ABRCMS conference



For Ogbeifun, being a transfer student hasn't hindered her ability to become involved with campus life at IUPUI. She serves as president of the African Student Association and publicist for Alpha Lambda Delta Honor Society. She's also involved with the health outreach committee for the Premed Club and is a 21st Century Scholars Mentor, in addition to participating in a variety of community

service projects. As a peer leader for Chemistry C105, Ogbeifun fulfills a need, she says, to give something back.

"Some of the challenges I had with chemistry, I don't want other students to have," Ogbeifun explains. "I had people helping me, and now I want to be there for someone else."

TRANSLATIONAL RESEARCH IMPACT

Assessing Surrogate Decision Making for Older Adults

Hospitalized older adults are often unable to make their own medical decisions due to dementia, delirium or other conditions that impair cognitive function. In such cases, physicians must work with surrogates, usually close family members, to make choices for the patient. Although there is evidence of unwanted medical treatment for seriously ill patients and strain on surrogate decision makers, there has been little study of the frequency, characteristics or outcomes of surrogate decision making for older, hospitalized adults. An

observational study conducted by Dr. Alexia Torke, Assistant Professor of Medicine in the School of Medicine's Division of General Internal Medicine and Geriatrics, will characterize the frequency and outcomes of decisions made by surrogates with emphasis on the surrogate's own perspective on decision making. Results from the study will serve as the basis for an intervention to improve the quality and outcomes of surrogate decision making for older, hospitalized adults and their families.



Alexia Torke, M.D.
Department of Medicine
School of Medicine

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, 2011. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

OTHER INTERNAL GRANT DEADLINES

Binational/Cross Cultural Health Enhancement Center (BiCCHEC) Community-Based Pilot Research Grants for Students

The objective of the BiCCHEC community-based pilot research grant for students is to foster and encourage collaborations between IUPUI researchers and community partners and to promote projects that have the potential to develop into larger externally funded research programs or generate scholarly products. Proposed projects must have participation by one (or more) student(s) and a community partner. IUPUI graduate and undergraduate students are eligible to apply. See competition guidelines to review detailed criteria at http://www.iusd.iupui.edu/BiCCHEC_Site/Student_Projects.aspx. Submission deadline is November 1, 2011, 5:00 PM.

OVCR WORKSHOPS AND EVENTS

Community of Science

When: Tuesday, October 18, 2011 | 2:00 PM-3:30 PM
Where: University Library, Room 0106

Indiana University is a member of the Community of Science (COS). Whether your work is in the arts or the sciences, COS funding and expertise search tools and services can help support and advance your research and scholarly activity. Learn how to take full advantage of these services and help our institution promote its work. This event is a hands-on open lab session.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2525>

Nine Golden Rules to Succeed in Research and Scholarship

When: Wednesday, October 19, 2011 | 1:00 PM-3:00 PM
Where: University Library, Room 1126

This session will reveal the Nine Golden Rules on how to succeed in research and scholarship.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2526>

IUPUI Innovation to Enterprise Summit

When: Thursday, October 20, 2011 | 1:30 PM-6:00 PM
Where: IUPUI Campus Center, Room 450 A & B

This event will bring together key players from IUPUI and the Indianapolis area business community—researchers, entrepreneurs, investors, and corporate executives—to explore the opportunities and challenges faced in taking the fruits of academic research and translating these into products. An expert panel will provide practical insights and context for the fundamentals of technology entrepreneurship, and highlight challenges specific to different business sectors.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2607>

Proposal Development/Writing Circle for External Funding

When: Friday, October 28, 2011 | 01:00 PM-02:30 PM
Where: University Library, Room 2115E

The OVCR Proposal Development/Writing Circle brings together faculty members who are preparing external proposals of any kind or length (concept pieces, letters

of intent, partial drafts, completed drafts, etc.) to discuss their ideas and documents with circle participants before proposal submission to an external agency. Participants may bring to the workshop any proposal to share with other members of the group for discussion. 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. Work will occur in the workshops as well as online by email and through the Oncourse project site. **Faculty members who participate in at least three workshops over the two semesters will subsequently be eligible to apply for follow-up assistance for proposal writing, editing, and submission by the proposal development staff in the Office of the Vice Chancellor for Research.**

Meeting Dates: All meetings are held at 1-2:30 PM in the University Library UL 2115-E

Fridays - September 30, October 28, November 18, December 9, 2011

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2590>

Best Practices for Developing Large, Multi-Investigator Proposals

When: Monday, November 07, 2011 | 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? Should you use a "Red Team Review"? What role does the RFP serve to organize the writing efforts? Professional proposal writers and editors will discuss these and a number of related issues at this session.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2540>

Center Proposals for Signature Centers Initiative

When: Tuesday, November 8, 2011 | 1:00 PM-2:30 PM

Where: University Library, Room 1126

This workshop is intended for those interested in submitting high quality center proposals to the Signature Centers Initiative program. The intent is to provide the participants with a better understanding of what constitutes a research center and its desired attributes. In addition, the review process and review criteria for Signature Centers Initiative applications will be discussed. Ample time will be given for questions. The workshop will be presented by two experienced reviewers of Signature Centers Initiative applications representing the fields of "Health and Life Sciences" and the "Arts and Humanities". Participants need to register for only one of the workshops. (Repeat session February 8, 2012.)

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2616>

Finding Funding

When: Wednesday, November 9, 2011 | 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.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2527>

Nine Golden Rules to Succeed in Research and Scholarship

When: Monday, November 14, 2011 | 1:00 PM-3:00 PM
Where: University Library, Room 1126

This session will reveal the Nine Golden Rules on how to succeed in research and scholarship.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2529>

IUPUI Imaging Research Workshop

When: Thursday, November 17, 2011 | 8:30 AM-3:00 PM
Where: Walther Hall (R3)

The purpose of this workshop is to help raise campus wide awareness of the broad spectrum of imaging research activity within our IUPUI community. The workshop will consist of a series of invited short oral presentations from IUPUI faculty, followed by a poster session that is open to *all* IUPUI investigators and students, and a series of working group breakout sessions. The objective of each breakout session is to identify imaging research opportunities at IUPUI and assess our current ability to exploit these opportunities.

The workshop will feature a keynote presentation by Dr. Jane Silverthorne, Acting Division Director for Integrative Organismal Systems, from the National Science Foundation (NSF). Her presentation will showcase new NSF initiatives and opportunities.

The following is the program for the day.

8:30-8:50 am – Registration
9:00-9:10 am – Welcome
9:10-10:00 am – Keynote
10:00-11:00 am – IUPUI Imaging Research Presentations
11:00 am–1:00 pm – Poster Session / Luncheon
1:00-3:00 pm – Breakout Sessions

Poster Session Abstracts: The submission deadline for poster session abstracts is **Friday, October 21, 2011**. Abstracts are limited to 250 words and should be submitted to ovcr@iupui.edu.

Those planning to attend must register by Thursday, November 10, 2011.
<http://crl.iupui.edu/Events/eventsRegistration.asp?id=2626>

Community of Science

When: Friday, November 18, 2011 | 10:00 AM-11:30 AM
Where: University Library, Room 0106

Indiana University is a member of the Community of Science (COS). Whether your work is in the arts or the sciences, COS funding and expertise search tools and services can help support and advance your research and scholarly activity. Learn how to take full advantage of these services and help our institution promote its work. This event is a hands-on open lab session.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2591>

Proposal Development/Writing Circle

When: Friday, November 18, 2011 | 1:00 PM-2:30 PM
Where: University Library, Room 2115E

The OVCR Proposal Development/Writing Circle brings together faculty members who are preparing external proposals of any kind or length (concept pieces, letters of intent, partial drafts, completed drafts, etc.) to discuss their ideas and

documents with circle participants before proposal submission to an external agency. Participants may bring to the workshop any proposal to share with other members of the group for discussion. 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. Work will occur in the workshops as well as online by email and through the Oncourse project site. Faculty members who participate in at least three workshops over the two semesters will subsequently be eligible to apply for follow-up assistance for proposal writing, editing, and submission by the proposal development staff in the Office of the Vice Chancellor for Research.

Meeting Dates: All meetings are held at 1-2:30 PM in the University Library UL 2115-E

Fridays - September 30, October 28, November 18, December 9, 2011

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=2591>

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 and September 2011

August					
PI	Agency	Project Title	School	Department	Total
WOOLS-KALOUSTIAN,KARA KAY	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	East Africa leDEA Regional Consortium	MEDICINE	INFECTIOUS DISEASES	\$8,182,094
YOKOTA,HIROKI	U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	Development of a novel synthetic drug for osteoporosis and fracture healing	E&T	BIOMEDICAL ENGINEERING	\$2,615,280
YODER,KARMEN KAY	NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM	Dopamine and Unpredicted Alcohol Delivery: Effects of Alcohol Consumption	MEDICINE	RADIOLOGY & IMAGING SCIENCES	\$2,317,464
SHILLING,REBECCA ANNE	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	IL-17 and Lung Transplant Obliterative Bronchiolitis	MEDICINE	PULMONARY	\$1,947,500
VITTAL,RAGINI	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	Role of IL-17 in the Induction of Epithelial to Mesenchymal Transition	MEDICINE	PULMONARY	\$1,937,600
CHEN,PENG-SHENG	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	Autonomic Nerve Activity and Paroxysmal Atrial Fibrillation	MEDICINE	CARDIOLOGY	\$1,540,000
WEK,RONALD C.	NATIONAL INSTITUTE OF GENERAL MEDICAL SCIENCES	Metabolic stress responses and eIF2 kinase GCN2	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	\$1,417,468
MIRMIRA,RAGHAVENDRA G	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Transcriptional and Translational Mechanisms Governing Beta Cell Function	MEDICINE	PED-ENDOCRINOLOGY BASIC RES	\$1,408,330
ORSCHELL,CHRISTIE MARIE	UNIVERSITY OF MARYLAND	Radiation/Nuclear Medical Countermeasure Product Development Support Services	MEDICINE	HEMATOLOGY/ ONCOLOGY	\$1,059,891
TIERNEY,WILLIAM MICHAEL	INDIANA HEALTH INFORMATION TECHNOLOGY, INC.	IN Challenge Grant Supplemental (Challenge Category #4)	MEDICINE	GENERAL INTERNAL MEDICINE	\$772,150
RAU,JOHN DICKSON	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Leadership Education in Neurodevelopmental and Other Related Disabilities	MEDICINE	PED-CHILD DEVELOPMENT CENTER	\$632,046
RHODES,DAWN M	HEALTH AND HOSPITAL CORPORATION OF MARION COUNTY	Ball Gardens Convalescent Park Construction and Permanent Maintenance Fund Endowment	ADMIN AFF	FINANCE AND ADMINISTRATION	\$500,000
CHEN,PENG-SHENG	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Cardiac Fibrillation, Mechanisms and Therapy - Project 3: Arrhythmias and Antiarrhythmic Targets in Failing Hearts	MEDICINE	CARDIOLOGY	\$362,200

NAKSHATRI,HARIKRISHNA	SUSAN G. KOMEN BREAST CANCER FOUNDATION	Estrogen Receptor-Positive Breast Cancer Recurrence Through Dependence Receptor Pathway	MEDICINE	GENERAL SURGERY	\$250,000
GUISE,THERESA ANN	SUSAN G. KOMEN BREAST CANCER FOUNDATION	Near infrared photodynamic therapy with selective targeting: Breast cancer and bone metastases.	MEDICINE	ENDOCRINOLOGY	\$250,000
SMITH,JODI L	WASHINGTON UNIVERSITY	THE PARK-REEVES SYRINGOMYELIA REGISTRY AND DATA USE	MEDICINE	NEUROLOGICAL SURGERY	\$222,000
CHUMBLER,NEALE ROSS	INDIANA STATE DEPARTMENT OF HEALTH	PPASS Program Implementation and Comprehensive Evaluation	LIBERAL ARTS	INST FOR RESEARCH ON SOC ISSUE	\$199,092
BOWYER,SUZANNE L.	ARTHRITIS FOUNDATION	Hal Thompson Arthritis Foundation Fellowship in Pediatric Rheumatology	MEDICINE	PED-RHEUMATOLOGY	\$173,356
CORNETTA,KENNETH G.	UNIVERSITY OF CALIFORNIA, LOS ANGELES	Stem Cell Gene Therapy for Sickle Cell Disease (DT# 01452) RFA# 09-01	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$170,138
LI,XIAOCHUN	FOUNDATION FOR THE NATL INST OF HEALTH	Observational Medical Outcomes Partnership (OMOP) 2011 Research Collaborations-	MEDICINE	BIOSTATISTICS	\$168,002
LEECH,TAMARA GOLDEN JOHNSON	INDIANA STATE DEPARTMENT OF HEALTH	Community Conversations on Adolescent Pregnancy and Parenting: A Supplement to the PPASS Needs Assessment	LIBERAL ARTS	INST FOR RESEARCH ON SOC ISSUE	\$167,512
WANG,MU	U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	Role of Central Metabolism in Prostate Cancer Progression	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	\$166,879
O'NEILL,DARREN PAUL	VPDIAGNOSTICS INC	Performance of 'SmartRisk' Prediction of Stroke and Stroke-related Events in Carotid Atherosclerosis	MEDICINE	RADIOLOGY & IMAGING SCIENCES	\$151,068
JONES,ALAN S	QATAR UNIVERSITY	Development of Self Healing Coatings for Corrosion Resistance in Qatar NPRP Cycle 4-800-2-297	E&T	MECHANICAL ENGINEERING	\$126,744
September					
PI	Agency	Project Title	School	Department	Total
GHETTI,BERNARDINO	NATIONAL INSTITUTE ON AGING	Indiana Alzheimer Disease Center	MEDICINE	PATHOLOGY AND LABORATORY MED	\$9,114,038
DE GROOT,MARY KATHLEEN	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Program ACTIVE II: Behavioral Depression Treatment for Type 2 Diabetes	MEDICINE	ENDOCRINOLOGY	\$3,211,627
ROBLING,ALEXANDER G	NATIONAL INSTITUTE ARTHRITIS MUSCULOSKELETAL SKIN	Lrp5 signaling in bone mechanotransduction and metabolism	MEDICINE	ANATOMY & CELL BIOLOGY	\$3,082,190
ANAND,AMIT	NATIONAL INSTITUTE OF MENTAL HEALTH	Differentiating Unipolar and Bipolar Depression in Young Adults Using fMRI	MEDICINE	PSYCHIATRY	\$2,632,542
CHEN,YAOBIN	TOYOTA MOTOR ENG. & MANF. N. AMERICAN, INC.	Development of Standard Pedestrian Crash Scenarios	E&T	ELECTRICAL & COMPUTER ENGR	\$2,500,000
CHAMPION,VICTORIA LEE	NATIONAL CANCER INSTITUTE	Training in Research for Behavioral Oncology and Cancer Control Program	NURSING	NURSING	\$2,477,853
BELL,RICHARD LOWELL	NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM	Rat Animal Models Core (RAMC)	MEDICINE	PSYCHIATRY	\$1,921,791
BELLIDO,TERESITA MARIA	NATIONAL INSTITUTE ARTHRITIS MUSCULOSKELETAL SKIN	FAK/Pyk2 signaling pathway and bone formation	MEDICINE	ANATOMY & CELL BIOLOGY	\$1,732,500
KACENA,MELISSA ANN	NATIONAL INSTITUTE ARTHRITIS MUSCULOSKELETAL SKIN	Regulation of Osteoblast Function by Megakaryocytes: Key Signaling Proteins	MEDICINE	ORTHOPAEDIC SURGERY	\$1,732,500
IVAN,MIRCEA	NATIONAL CANCER INSTITUTE	Role of Hypoxia-Induced miR-210 in Tumor Metabolism	MEDICINE	HEMATOLOGY/ ONCOLOGY	\$1,716,069
BROXMEYER,HAL E	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	Cytokine Enhancement of Myeloid Progenitor Cell Survival	MEDICINE	MICROBIOLOGY & IMMUNOLOGY	\$1,510,983
ATKINSON,SIMON J.	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Utilizing siRNA to Minimize Nephrotoxic Injury	SCIENCE	BIOLOGY	\$1,389,850
LU,HUA	NATIONAL CANCER INSTITUTE	The role of ribosomal proteins in the p53-MDM2 pathway	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	\$1,331,291
EDENBERG,HOWARD J.	NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM	Early binge drinking and gene regulation	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	\$1,216,561

SCHNEIDER,BRYAN PAUL	SUSAN G. KOMEN BREAST CANCER FOUNDATION	Comprehensive Biomarker Discovery Project for Bevacizumab in Breast Cancer	MEDICINE	HEMATOLOGY/ ONCOLOGY	\$1,107,696
SPINOLA,STANLEY M.	NATIONAL INSTITUTE ALLERGY & INFECTIOUS DISEASES	Training in Sexually Transmitted Diseases including HIV	MEDICINE	MICROBIOLOGY & IMMUNOLOGY	\$1,003,587
KIOVSKY,RICHARD DEAN	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Indiana Area Health Education Centers Infrastructure Development Program	MEDICINE	AREA HEALTH EDUCATION CENTERS	\$1,000,000
YANG,FENG-CHUN	U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	Identifying molecular and pharmacologic targets for impaired fracture healing in a murine model of NF1	MEDICINE	PED-NEONATAL BASIC RESEARCH	\$958,274
STOCUM,DAVID L.	U.S. DEPARTMENT OF DEFENSE	Regenerative Medicine for Battlefield Injuries	SCIENCE	BIOLOGY	\$873,242
RENSHAW,SCOTT EARL	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Advancing Medically Underserved Student Training (A-MUST)	MEDICINE	FAMILY MEDICINE	\$785,239
KIOVSKY,RICHARD DEAN	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Indiana Area Health Education Point of Service Maintenance and Enhancement Network	MEDICINE	AREA HEALTH EDUCATION CENTERS	\$400,516
YOKOTA, HIROKI	NATIONAL INSTITUTES OF HEALTH	Mechanical Loading and Bone	ENGINEERING AND TECHNOLOGY	BIOMEDICAL ENGINEERING	\$332,640
SHIH,CHIE-SCHIN	U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	A Pilot study of Sutent/Sunitinib, and oral multi-targeted tyrosine kinase inhibitor in subjects with NF1 Plexiform Neurofibromas	MEDICINE	PED-HEMATOLOGY/ ONCOLOGY	\$324,517
HARRIS,NATHAN	U.S. DEPARTMENT OF EDUCATION	TRIO - Upward Bound Program: College Readiness Program Serving Individuals in Grades 9-12	UNIV COLLEGE	UNIVERSITY COLLEGE	\$306,779
DIMEGLIO,LINDA ANNE	REGENTS OF THE UNIVERSITY OF CALIFORNIA	The Collaborative Network for Clinical Research in Immune Tolerance	MEDICINE	PED-ENDOCRINOLOGY BASIC RES	\$300,216
HARRIS,NATHAN	U.S. DEPARTMENT OF EDUCATION	TRIO - Upward Bound Program: College Readiness Program Serving Individuals in Grades 9-12	UNIV COLLEGE	UNIVERSITY COLLEGE	\$280,936
BODENHAMER,DAVID JACKSON	NATIONAL ENDOWMENT FOR THE HUMANITIES	Spatial Narratives and Deep Maps: Explorations in the Spatial Humanities	LIBERAL ARTS	POLIS	\$241,513
HERBERT,BRITTNEY-SHEA	SUSAN G. KOMEN BREAST CANCER FOUNDATION	Targeting Telomerase for the Treatment of Refractory Breast Cancers	MEDICINE	MEDICAL & MOLECULAR GENETICS	\$200,000
BROKAW,JAMES J	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Scholarships to Disadvantaged Students	MEDICINE	DEAN MED-STU CURRICULAR AFF	\$193,671
FELDHAUS, CHARLIE	INDIANAPOLIS PRIVATE INDUSTRY COUNCIL	STEM Opportunities in the Workforce System Initiative	ENGINEERING AND TECHNOLOGY	OLS	\$125,000
BREI,TIMOTHY J	U.S. DEPARTMENT OF DEFENSE	Converting Dreaded HIV to a Breast Cancer Therapy	MEDICINE	PATHOLOGY AND LABORATORY MED	\$112,260
BADVE,SUNIL	U.S. DEPARTMENT OF DEFENSE	Converting Dreaded HIV to a Breast Cancer Therapy	MEDICINE	PATHOLOGY AND LABORATORY MED	\$112,260
XIE,JIAN	ARGONNE NATIONAL LABORATORY	Developing Rechargeable Lithium Metal Electrode Batteries.	E&T	MECHANICAL ENGINEERING	\$106,236
STANSFIELD,BRIAN KEVIN	ASSN OF MEDICAL SCH PEDIATRIC DEPT CHAIR	Myeloid Cells and NF1 Vasculopathy	MEDICINE	PED-NEONATAL MEDICINE	\$102,330
WAFI,MARWAN	CARL M. REEVES AND MILRED A. REEVES FOUNDATION	Reeves Sculpture Plaza-Phase 2	COLUMBUS	IUPUI COLUMBUS	\$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

Collaborative Research Grants: This program supports interpretive 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. All grantees are expected to communicate the results of their work to the appropriate scholarly and public audiences. *Application deadline is December 8, 2011.*

Scholarly Editions and Translations: The focus is on the preparation of editions and translations of pre-existing texts and documents 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 8, 2011.*

NATIONAL INSTITUTES OF HEALTH

NIH Director's Transformative Research Awards: Exceptionally innovative, high risk, original and/or unconventional research. Clinical, basic, and/or behavioral/social science research projects Up to \$25 million total costs per year for a single project. One-third of total funding budget geared to projects with more than \$1 Million in direct costs. The deadline for submitting Transformative Research Project applications is January 12, 2012 with Letters of Intent due by December 12, 2011. See the instructions in the [RFA-RM-11-006](#). Additional information, including Frequently Asked Questions about the Transformative Research Projects Program is available at: <http://commonfund.nih.gov/TRA>. Send questions to Transformative_Awards@mail.nih.gov.

Basic Research on Decision Making: Cognitive, Affective, and Developmental Perspectives (R01): The focus is on understanding of the basic cognitive, affective, motivational, and social processes that underlie decision making across the lifespan. This includes an appreciation of the interactions among the psychological, neurobiological, and behavioral processes in decision making. It also includes consideration of the mediating and/or moderating influences of genetics, physiology, the social environment, and culture. *Application deadline is January 18, 2012.*

Social Neuroscience and Neuroeconomics of Aging (R01, R21): The National Institute on Aging (NIA) invites applications examining social, emotional and economic behaviors of relevance to aging, using approaches that examine mechanisms and processes at both (a) the social, behavioral or psychological (emotional, cognitive, motivational) level, and (b) the neurobiological or genetic level. Proposals are encouraged that have an overriding emphasis on economic, social or emotional processes and associated genetic or neurobiological processes. *Application deadline is February 5, 2012.*

NASA

NASA Research Opportunities in Space Biology: This NASA Research Announcement (NRA) solicits hypothesis-driven research proposals for both ground-based experiments and flight experiments in Space Biology (SB). Utilizing 21st century biological tools (e.g., genetic, proteomic, metabolomic), SB scientists will examine and discover underlying mechanisms of adaptation to changes resulting from the space flight environment (e.g., altered gravity, stress, radiation), and will determine cellular and organismal mechanisms that regulate and sustain growth, metabolism, reproduction and development. *Application deadline is January 6, 2012.*

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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