IUPUI INDIANA UNIVERSITY–PURDUE UNIVERSITY INDIANAPOLIS

Research Enterprise

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

Research Offices:

Development
Administration
Compliance
Enterprise Archive

Editor:
Etta Ward

Layout:
Erik Scull

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

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

September 19, 2011

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MESSAGE FROM THE VICE CHANCELLOR FOR RESEARCH

Dear Colleagues,

This has been a remarkable year for research at IUPUI. Our campus is emerging as a top urban research university, and is establishing a reputation as a national leader in key research and scholarly activity areas. I would like to take this opportunity to thank you for your contributions to the advancement of our campus' research enterprise. Your efforts have been instrumental in the realization of our campus-wide

Vice Chancellor Kody Varahramyan

strategic initiatives, including the Translating Research into Practice, the Signature Centers, the IUPUI Arts and Humanities, the RISE to the Challenge, and the Imaging and STEM initiatives.

Moreover, in our quest to best serve you, the Office of the Vice Chancellor for Research (OVCR) has further grown its programs and services, designed to assist you in advancing your research and scholarly activities. OVCR strives to provide the support and services that assist our campus community to *Pursue Innovation and Achieve Impact*. This includes a variety of internal grant programs, designed to aid faculty in developing successful externally sponsored research and scholarly activity programs. Through the OVCR webpage (http://research.iupui.edu/) you can gain information about a wide range of programs and services that are currently available.

In conclusion, I appreciate your efforts in support of our campus' research mission. This mission is *to develop and expand innovative research programs that align well with institutional mission and strategic plan, address important national and global needs, and through technology transfer and commercialization noticeably support the economic development of Indiana and the nation.* Moreover, as we carry out this mission, we are progressing well in our pursuit of realizing our campus' research vision, which is *to be the best urban research university by conducting world-class research, scholarship, and creative activities that develop knowledge and contribute to the economic growth and social advancement of Indiana and the nation and benefit humanity as a whole.*

As always, your inputs and comments are always welcomed and valued.

Kody Varahramyan
Vice Chancellor for Research

FEATURE STORY

School of Engineering and Technology Awarded $1.3 Million to Train Next Generation of Industrial Energy Efficiency Experts

The School of Engineering and Technology received a $1.3 million grant from the Department Office of Energy (DOE) Office of Energy Efficiency and Renewable Energy. More than $30 million was awarded to only 24 universities in 23 states across the country to train undergraduate- and graduate-level engineering students in manufacturing efficiency to help them become the nation's next generation of industrial energy efficiency experts. Through the Industrial Assessment Center (IAC) program, university teams across the country will gain practical training and skills that will enable them to conduct energy assessments in a broad range of manufacturing facilities and help them compete in today's economy while helping local companies and factories to reduce energy waste, save money, and become more economically competitive. Dr. Jie Chen, principal investigator of the grant and professor and chair of mechanical engineering, will lead an IAC on the IUPUI campus.

Jie Chen, Ph.D.
Department of Mechanical Engineering
School of Engineering and Technology

"The School of Engineering and Technology is well positioned to support the DOE's mission. The strong energy research and newly established BS in Energy Engineering program provide the unique foundation for the energy efficiency training," says Chen. "The school's close ties with industry will result in broad real world practice opportunities to our students. This DOE award will definitely help strengthen our program and sustain our leadership role in the field."

Through these university-based IACs, engineering students will receive extensive training in industrial processes, energy assessment procedures, and energy management principles, which will be put to use working directly with small and medium-sized industrial and manufacturing facilities around their communities. Each IAC is expected to train at least 10 to 15 students per year, conduct approximately 20 energy assessments annually, and perform extensive follow-up reporting, tracking, implementation, and management-improvement activities. In addition to conducting assessments at industrial plants, each IAC will be expected to promote interaction with private sector partners that could provide valuable workforce development support, such as scholarships and internship opportunities.

"The School of Engineering and Technology is making significant investments in energy engineering education and research," said Dr. David J. Russomanno, Dean of the School. "Our new B.S. degree in energy engineering, recent additions of experienced faculty members and our Richard G. Lugar Center for Renewable Energy are investments that will enable us to significantly contribute to the goals of the DOE's Industrial Assessment Center program."

ANNOUNCEMENTS

IUPUI Informatics Researcher Receives NSF Award to Create Research Experiences for Undergraduate Students

Davide Bolchini, Ph.D. an assistant professor of human-computer interaction at the School of Informatics, was recently awarded a supplemental grant by the National Science Foundation to create Research Experiences for Undergraduates (REU) within his NSF-funded project "Navigating the Aural Web."

The REU project funded the integration of two undergraduate informatics students into Bolchini's research team during the 2011

Dr. Bolchini in a weekly meeting at the USER Lab on exploring the "Aural Web" with his research group of NSF-funded graduate and undergraduate students.

summer term. The students were hands-on in co-creating empirical human-computer interaction research for the design and evaluation of innovative aural mobile applications. Such application prototypes are aimed at enabling users to effectively listen to and navigate large information collections on-the-go (e.g., listening to news while walking or jogging) without relying upon visual displays and navigation prompts made available by traditional mobile user interfaces.

The findings of the research have been showcased at the 2011 IUPUI Research Day and will be submitted to a premier peer-reviewed conference in human-computer interaction.

For more information about Dr. Bolchini and his work, visit
http://mypage.iu.edu/~dbolchin/

Dr. Bolchini participated in an REU proposal writing circle, sponsored and administered by the Office of the Vice Chancellor for Research. IUPUI faculty can register for upcoming proposal development writing circles at
http://research.iupui.edu/events/.

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 – Save the Date

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.

CENTER SPOTLIGHT

School of Education Receives Regional Equity Assistance Center Funding

The U.S. Department of Education awarded the School of Education a $2.2 million grant to support the development of a regional Equity Assistance Center (EAC), known as the Great Lakes Equity Center. The Center will provide technical assistance in the areas of civil rights, equity and access, and school reform. The three-year project will be led by principal investigator Kathleen King Thorius, assistant professor of special education and co-investigators Brendan Maxcy, associate professor of Educational Leadership and Policy Studies (ELPS), and Thu Suong Thi Nguyen, assistant professor in ELPS. Donna Hart-Tervalon, a former

Regional Equity Assistance Center Team
Left to right: Thu Suong Thi Nguyen, Brendan Maxcy
Kathleen King Thorius, and Donna Hart-Tervalon

assistant director of special education for the state of Wisconsin will head up operations as Project Director.

The Region V EAC serves Illinois, Indiana, Michigan, Minnesota, Ohio and Wisconsin. Like all EACs, the Great Lakes Equity Center in Indianapolis will serve as a resource for the prevention of discrimination, exclusion, or denial of opportunity on the basis

of race, sex, or national origin such as discriminatory activities that may include inequitable opportunities to learn, harassment, segregation and denial of language services. The grant is part of the Department of Education's initiatives to support elementary and secondary education under Title IV of the 1964 Civil Rights Act. The funds support civil rights training and advisory services for schools and communities addressing equity and access issues in public education. Ten regional EACs are funded across the nation to ensure all children, regardless of race, gender or national origin, have equal access to quality education and opportunities to meet high academic standards in reading, math and other core subject areas.

The Great Lakes Equity Center will begin operations on October 1 and will draw upon a wealth of experience and expertise held by Thorius, Maxcy and Nguyen to assist and train personnel on the preparation, adoption and implementation of plans for public school desegregation across the six state region at the request of school boards and other governmental agencies. As defined by program guidelines, desegregation refers to equity plans and actions -- including desegregation based on race, sex, and national origin and the development of effective methods of coping with special educational problems occasioned by desegregation.

The team's research and teaching promotes inclusive and culturally responsive policies and practice across educational systems that address disparities in student access, participation and outcomes and provide high-quality opportunities to learn for all students. Hart-Tervalon brings more than 35 years of experience in the field of education. She played a central role in leading Wisconsin's statewide efforts to address disproportionate representation of racial minority students in special education.

"The work of the Great Lakes Equity Center further enhances our urban education mission and advances the School of Education's collaborative work to address issues of equity, access, and school reform," said Executive Associate Dean of the School of Education Pat Rogan. Earlier this year, the Indiana Commission for Higher Education approved a new Urban Education Studies Ph.D. to be offered at IUPUI starting in fall 2012.

FACULTY SPOTLIGHT

School of Informatics Faculty Receive National Science Foundation Grant to Develop Educational, Sound-based STEM Games for Blind and Visually Impaired Students

The National Science Foundation has awarded School of Informatics' faculty approximately $250,000 to further their research and development of multiple online, sound-based educational games and reference materials for blind and visually-impaired K-12 students.

These unique educational resources will utilize audemes – short but complex collages of non-speech sound effects and music. Audemes are found to significantly enhance students' ability to imprint and recall academic information, and have particular utility among populations unable to visually process information. The project will expand understanding of how audemes can enhance concept creation as well as recall, and how non-verbal sound, in general, correlates to language-based comprehension of concepts.

The games and supplemental digital materials will be

Steve Mannheimer

specifically designed to support and enhance education in the areas of science, technology, engineering and math (STEM). The National Center for Blind Youth in Science, a component of the National Federation of the Blind, notes that blind and visually-impaired students have historically received inadequate education in math and science, creating a barrier that discourages many such students from pursuing STEM careers as adults.

Department of Media Arts and Sciences
School of Informatics

The two-year project is led by School of Informatics' Professor Steve Mannheimer as principal investigator, with the school's Mathew Palakal, associate dean for graduate studies and research, and Davide Bolchini, assistant professor, as co-principal investigators. The team is also supported by the School of Education's Joshua Smith, director of the Center for Urban and Multicultural Education. The project builds upon nearly four years of previous research and evaluation with students at the Indiana School for the Blind and Visually-Impaired. That work was initially funded by a grant from the Nina Mason Pulliam Charitable Trust. The project was further supported by a one-year Google Research Award received in 2010. The Indiana School for the Blind and Visually-Impaired will continue to serve as a partner in the testing and evaluation of the research.

TRANSLATIONAL RESEARCH IMPACT

IUPUI Translating Research Into Practice (TRIP) Community Showcase

Several of IUPUI'S distinguished faculty scholars presented their translational research and illustrate how they improve people's lives at the Fall 2011 IUPUI TRIP Community Showcase. From health care to parenting, business to learning, and Indiana to the world, these faculty members have translated their research into viable practices that help people in our communities.

The Showcase was an opportunity to talk to TRIP faculty one-on-one, to ask questions, and to explore the research ideas they are pursuing. Included in the Showcase held in the Campus Center on September 12, 2011 were:

Rafael Bahamonde
IU School of Physical Education and Tourism Management
Comparing the effectiveness of different techniques of hip replacement surgery

Davide Bolchini
IU School of Informatics
Enhancing web navigation for aural experiences

Joseph Defazio
IU School of Informatics
Computerized education to prevent hypoglycemia when driving

J. Dennis Fortenberry
IU School of Medicine
A delivery system for expedited partner services to prevent STDs

Yao-Yi Fu
IU School of Physical Education and Tourism Management
Helping tourism organizations better understand their visitors and develop marketing strategies
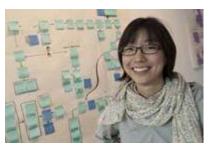

John Goodpaster
Purdue School of Science
Evaluating the odor compounds sensed by explosive-detecting canines

Marianne Matthias
IU School of Liberal Arts
Making Treatment Decisions with your Healthcare Provider

Helen Sanematsu
IU Herron School of Art and Design
Bringing people and projects together in innovative and mutually beneficial ways

Alexia M. Torke
IU School of Medicine
Assessing surrogate decision making for older adults

Marquita Walker
IU School of Social Work
Reviewing state and federal policies on reintegration of displaced workers

For more information about these translational researchers and the IUPUI TRIP Initiative, visit http://trip.iupui.edu/.

OVCR INTERNAL GRANT DEADLINES

RESEARCH SUPPORT FUNDS GRANT (RSFG): The Research Support Funds Grant (RSFG) program is designed to enhance the research mission of IUPUI by supporting research projects and scholarly activities that are sustainable through

external funding. The next RSFG application deadline is October 15, 2011. For grant guidelines and application forms, go to http://research.iupui.edu/funding/.

INTERNATIONAL DEVELOPMENT FUND (IDF) GRANT: The IDF grant was developed to enhance the international research and scholarly activity focus of the IUPUI academic mission. Generally, the IDF grant serves as venture capital to stimulate additional funding for international research and scholarly activity, which have strong potential to generate indirect cost recovery from extramural sources. The next IDF application deadline is November 15, 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.

Indiana CTSI Fall Core Pilot Funding Program

The Indiana Clinical and Translational Sciences Institute (CTSI) is accepting applications for its fall 2011 Core Pilot Funding Grant program. This program will fund up to $10,000 in services provided by Indiana CTSI-designated core facilities, with the specific goal of funding projects with outstanding scientific merit and potential to generate extramural funding or novel intellectual property. For more information on Indiana CTSI-designated cores, visit www.indianactsi.org/research/cores. *(Eligible cores marked by the Indiana CTSI logo.)* Faculty at IUSM, IUPUI, IU-Bloomington, Purdue and Notre Dame are eligible to apply for core services from any of the CTSI partner institutions. The application deadline is 5:00 PM October 12, 2011. For more information, including complete application guidelines and forms, visit www.indianactsi.org/grants and log in using your university ID. Questions should be directed to Lilith Reeves, chief scientific officer, Indiana CTSI, at ictsi@iupui.edu.

Web Version: http://www.indianactsi.org/announcements/corepilotfall2011

OVCR WORKSHOPS AND EVENTS

Nine Golden Rules to Succeed in Research and Scholarship

When: Friday, September 23, 2011 | 12:00 PM-2:00 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=2524

Coalition of Urban and Metropolitan Universities Conference

When: Sunday, October 9, 2011 through Tuesday, October 11, 2011
Where: University Place Conference Center & Hotel

The 17th Annual CUMU Conference, hosted by IUPUI, will focus on "Creating Tomorrow's Future Today." Metropolitan and urban universities are uniquely situated, not only to create their own futures, but to assist their respective communities to realize their vision for the future. Such partnerships with an eye to creating new realities support and enhance mutual gain and shared futures. This conference will explore university/community partnerships that are preparing both to embrace the future. For information, see http://www.cumuonline.org/conference/

Proposal Development Basics: Focus on the Arts, Humanities, and Social Sciences

When: Thursday, October 13, 2011 | 01:00 PM-02:30 PM
Where: University Library, Room 1126

This workshop will target the essentials of developing a successful grant proposal in the arts, humanities and social sciences. Wide-ranging 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.

Register: http://crl.iupui.edu/Events/eventsRegistration.asp?id=2539

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, September 30, 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=2589

OTHER WORKSHOPS AND EVENTS

Write Winning Grants

When: Wednesday, September 21, 2011 | 8:00 AM-5:00 PM
Where: Walther Hall (R3) Auditorium

The competition for external funding is fierce and can be daunting for even the most talented scientists. In response to these challenges, the IU School of Medicine Office of Faculty Affairs and Professional Development (OFAPD) is excited to announce ***Write Winning Grants***, an award-winning program designed to meet the needs of faculty members who are contemplating a competitive application to federal or state agencies and foundations in either basic science or clinical research.

Presenters include David C. Morrison, Ph.D., and John Robertson, Ph.D., both NIH-funded investigators. The event is FREE and open to all IUSM and IUPUI faculty, but registration is required. For more information or to register, visit **www.faculty.medicine.iu.edu/events.asp**. Questions should be directed to 317.278.3089 or ofapd@iupui.edu.

CTSA PUBLIC-PRIVATE PARTNERSHIPS WEBINAR SERIES

Open to all translational investigators

Academic health centers and universities will highlight examples of partnerships that facilitate discoveries into treatments.

A New Paradigm for Pharmaceutical Innovation: **Sept. 28, 2011, 3:00 – 4:00 p.m. ET**
Tufts Center for the Study of Drug Development analysis on R&D Trends and Patent information on the 10 top companies and drugs.
Kenneth Kaitin, Ph.D., Tufts University
Webinar Link

CTSA PPP Models for Translational Science: **Oct. 26, 2011, 2:00 – 3:00 p.m. ET**
CTSA Indiana model for partnerships with Purdue University and Notre Dame and others across the state.
Anantha Shekhar, M.D., Ph.D., Indiana University School of Medicine
Webinar Link

Alabama Drug Discovery Alliance: **Nov. 23, 2011, 2:00 – 3:00 p.m. ET**

Partnership between the University of Alabama and Southern Research Institute for drug discovery and development.
Richard Whitley, M.D., The University of Alabama at Birmingham
Webinar Link

All the webinars use the same call-in information:
1-866-910-4857
Participant Code: 584064

The CTSA Public-Private Partnerships Key Function Committee produced the series with the aim of sharing best practices and expertise. To learn more about the CTSA Consortium, visit the CTSA website (www.CTSAweb.org).
For more information, contact Dr. Jody Sachs at sachsjg@mail.nih.gov or 301-435-0802.

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 - July 2011

PI	Agency	Project Title	School	Department	Total
ECONS,MICHAEL J.	NATIONAL INSTITUTE ON AGING	Identification of genes that affect peak BMD in men and women	MEDICINE	ENDOCRINOLOGY	$3,079,817
YODER,MERVIN CLEM	RILEY CHILDREN'S FOUNDATION	Wells Center Research Core Program Support (09-A2)	MEDICINE	PED-WELLS CTR FOR PED RES	$3,000,000
XU,YAN	NATIONAL CANCER INSTITUTE	Role of immune cell OGR1 in prostate cancer development and the mechanisms involved	MEDICINE	OBSTETRICS AND GYNECOLOGY	$2,147,819
BROXMEYER,HAL E	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Regulation of Hematopoietic Cell Production	MEDICINE	MICROBIOLOGY & IMMUNOLOGY	$1,958,426
FIELD,LOREN J.	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	Cell cycle activation for cardiac repair	MEDICINE	CARDIOLOGY	$1,925,000
PETRACHE, IRINA	NATIONAL HEART, LUNG AND BLOOD INSTITUTE	Ceramide-induced lung destruction in emphysema	MEDICINE	PULMONARY	$1,850,709
FIRULLI, ANTHONY B	NATIONAL INSTITUTE ARTHRITIS MUSCULOSKELETAL SKIN	The role of Twist family bHLH factors in limb morphogenesis	MEDICINE	PED-CARDIAC DEV BIOLOGY WELLS	$1,732,500
WELLS,CLARK DAVID	NATIONAL CANCER INSTITUTE	Regulation of Mammary Cell Proliferation by Apical Polarity Proteins	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	$1,562,728
ANTHONY,TRACY G	NATIONAL INSTITUTE OF CHILD HEALTH, HUMAN DEVL.	Molecular Mechanisms of Adverse Metabolic Events by Asparaginase	MEDICINE	IUSM-EVANSVILLE	$1,550,907
HURLEY,THOMAS DANIEL	NATIONAL INSTITUTE OF DIABETES, DIGESTIVE & KIDNEY	Structural Determinants of Glycogen Synthase Regulation	MEDICINE	BIOCHEMISTRY/ MOLECULAR BIOLOGY	$1,367,652
CUMMINS, THEODORE R	NATIONAL INSTITUTE NEUROLOGICAL DISORDERS & STROKE	Sodium channels and electrogenesis in sensory neurons	MEDICINE	PHARMACOLOGY & TOXICOLOGY	$1,335,681
INUI,THOMAS S	WALTHER CANCER FOUNDATION, INC.	The IU Simon Cancer Center (IUSCC) AMPATH-Oncology Institute (AOI): An Exemplar of Care for the Developing World and a Population-based Research Environment for IUSCC	MEDICINE	GENERAL INTERNAL MEDICINE	$1,200,000
STATEN,LISA K	WALTHER CANCER FOUNDATION, INC.	Infrastructure development to expand cancer prevention and survivorship through community engagement	MEDICINE	PUBLIC HEALTH	$900,000
HIBBARD,	INDIANA DEPARTMENT OF	Pediatric Evaluation and Diagnosis Program	MEDICINE	PED-CHILD PROTECTION	$850,000

ROBERTA A	CHILD SERVICES	(PEDS Cases)		PROGRAM	
HAINLINE, BRYAN E.	INDIANA STATE DEPARTMENT OF HEALTH	INSD 200-16 Newborn Screening/Biochemical Services: Statewide Program for the Identification, Prevention and Treatment of Inborn Errors of Metabolism	MEDICINE	MEDICAL & MOLECULAR GENETICS	$830,803
CHAMPION, VICTORIA LEE	WALTHER CANCER FOUNDATION, INC.	The BCOG Center for Symptom Management	NURSING	NURSING	$706,454
WILKES,DAVID S.	THE ROBERT WOOD JOHNSON FOUNDATION	Harold Amos Medical Faculty Development Program (AMFDP)	MEDICINE	DEAN'S OFFICE-MEDICINE	$702,620
PFLUG,BETH RENE	U.S. ARMY MEDICAL RESEARCH AND MATERIEL COMMAND	Translocator Protein Function in Castration-Resistant Prostate Cancer	MEDICINE	CLINICAL PHARMACOLOGY	$678,526
WRIGHT,ERIC REANEY	INDIANA FAMILY AND SOCIAL SERVICES ADMINISTRATION	State Epidemiology and Outcomes Workgroup - SEOW	MEDICINE	PUBLIC HEALTH	$645,731
RAU,JOHN DICKSON	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Leadership Education in Neurodevelopmental and Other Related Disabilities	MEDICINE	PED-CHILD DEVELOPMENT CENTER	$632,046
RINER,MARY ELIZABETH	HEALTH RESOURCES AND SERVICES ADMINISTRATION	Developing Clinical Nurse Experts and Leaders through a DNP	NURSING	NURSING	$324,150
MCDOUGLE, CHRISTOPHER J.	INDIANA FAMILY AND SOCIAL SERVICES ADMINISTRATION	Assessment and Treatment center for prevention and recovery of early psychosis (PARC) and center for assessment and treatment of youth with an addictive disorder comorbid mental illness at the Riley Child and Adolescent Psychiatry Clinic (RCAPC)	MEDICINE	PSYCHIATRY	$277,000
BRAVATA, DAWN MARIE	YALE UNIVERSITY	Sleep Apnea in TIA: Reducing Cardiovascular Risk with Positive Airway Pressure	MEDICINE	GENERAL INTERNAL MEDICINE	$241,925
MIRAMONTI, CHARLES MICHAEL	INDIANA DEPARTMENT OF HOMELAND SECURITY	Managed Emergency Surge for Healthcare	MEDICINE	EMERGENCY MEDICINE	$200,000
CLAPP,DAVID WADE	CHILDREN'S TUMOR FOUNDATION	Drug Discovery Initiative Neurofibromatosis Preclinical Consortium	MEDICINE	PED-NEONATAL BASIC RESEARCH	$150,000
GILLEY,DAVID PAUL	AVON FOUNDATION	Targeting telomere dysfunction for early breast cancer detection	MEDICINE	MEDICAL & MOLECULAR GENETICS	$150,000
HOWENSTINE, MICHELLE SUZANNE	CYSTIC FIBROSIS FOUNDATION	Cystic Fibrosis Foundation Care Center Application for Accreditation and Funding 2011/2012	MEDICINE	PED-PULM CRITICAL CARE/ALLERGY	$140,460
BULL,MARILYN J	INDIANA CRIMINAL JUSTICE INSTITUTE	Child Restraint Distribution	MEDICINE	PED-TRAFFIC SAFETY	$136,144
MATTAR, SAMER GAMIL	FOUNDATION FOR SURGICAL FELLOWSHIPS	Foundation for Surgical Fellowships	MEDICINE	GENERAL SURGERY	$124,000
BODENHAMER, DAVID JACKSON	MARION COUNTY COMMISSION ON YOUTH	Develop an Early Intervention and Prevention (EIP) Integrated Data Portal for Marion County Commission on Youth, Inc	LIBERAL ARTS	POLIS	$107,900
SAMUELS, BRIAN CHRISTOPHER	AMERICAN HEALTH ASSISTANCE FOUNDATION	Hypothalamic Control of Translaminar Pressure Gradients	MEDICINE	OPHTHALMOLOGY	$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.

DEFENSE ADVANCED PROJECTS ADMINISTRATION (DARPA)

Defense Sciences Research and Technology: DARPA solicits projects aimed at high- risk/high-payoff technologies that have the potential for making, in the 5-10 year timeframe, revolutionary rather than incremental improvements to national security, including emerging threats and operational challenges. *Pre-proposals (8 page maximum) can be submitted any time before August 12, 2012 and proposers*

will receive a response within 30 days. Research interest areas include: Physical Sciences; Material Science; Basic Biology Research; Neuroscience; Mathematics.

DEPARTMENT OF DEFENSE

Benet Laboratories (BL) Broad Agency Announcement for Basic and Applied Scientific Research for Fiscal Years 2011 through 2016: Proposals are solicited for the research areas: (1) manufacturing and fabricating components for weapon systems; (2) modeling, simulation, design, manufacturing, and field support of components for weapon systems; and (3) other approaches, technologies, planning, scheduling etc. which may not be explicitly mentioned but which help provide our Nation's leadership with versatile ground force capabilities with applicability across the spectrum of operations, and with the institutional agility to both anticipate emerging challenges and the ability to rapidly adapt.

NATIONAL ENDOWMENT FOR HUMANITIES

Digital Humanities Implementation Grants: This program is designed to fund the implementation of innovative digital-humanities projects that have successfully completed a start-up phase and demonstrated their value to the field. *Application deadline is January 24, 2012.*

NATIONAL INSTITUTES OF HEALTH

NIH Director's Pioneer and New Innovator Awards Program in Biomedical or Behavioral Research

Pioneer Awards: Up to $2.5 million in direct costs over 5 years. Open to scientists at any career stage. *The deadline for submitting Pioneer Award applications is October 7, 2011.*

New Innovator Awards: Up to $1.5 million in direct costs over 5 years. For early career stage investigators (ESI), defined as those who have not received an NIH R01 or similar grant and are within 10 years of completing their terminal research degree or medical residency. *The deadline for submitting New Innovator Award applications is October 14, 2011.*

Systems Science and Health in the Behavioral and Social Sciences (R01, R21): The focus is on basic and applied projects utilizing systems science methodologies relevant to human behavioral and social sciences and health. This FOA is intended to encourage a broader scope of topics to be addressed with systems science methodologies, beyond those encouraged by existing open FOAs. Research projects applicable to this FOA are those that are either applied or basic in nature (including methodological development), have a human behavioral and/or social science focus, and feature systems science methodologies. Standard dates apply. *Next application deadline is October 5, 2011.*

NATIONAL SCIENCE FOUNDATION

Research Experiences for Teachers (RET) in Engineering and Computer Science: The program supports the active involvement of K-12 science, technology, engineering, computer and information science, and mathematics (STEM) teachers and community college faculty in engineering and computer science research in order to bring knowledge of engineering, computer science, and technological innovation into their classrooms. *Application deadline is October 3, 2011.*

Collaborative Research in Computational Neuroscience (CRCNS) Innovative Approaches to Science and Engineering Research on Brain Function**:** Computational neuroscience provides a theoretical foundation and a rich set of technical approaches for understanding complex neurobiological systems, building on the

theory, methods, and findings of computer science, neuroscience, and numerous other disciplines. *Application deadline is November 2, 2011*.

IDENTIFYING FUNDING OPPORTUNITIES

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

Community of Science (COS): COS is a primary on-line search tool for identifying funding opportunities. To take advantage of this tool, register at http://www.cos.com/login/join.shtml. Once you have completed the short registration process, you can personalize your search by selecting the option entitled "launch your workbench". You can access federal, local, corporate, foundation, nonprofit and other funding opportunities using key terms and save the results of up to 20 searches and have them delivered to you weekly via email.

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

National Science Foundation (NSF) "MyNSF": To take advantage of this search tool, register at http://service.govdelivery.com/service/multi_subscribe.html?code=USNSF&custom_id=823. 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

Office of the Vice Chancellor for Research - ovcr@iupui.edu
Indiana University Purdue University Indianapolis
755 West Michigan Street, UL1140, Indianapolis, IN 46202-2896
Phone: (317) 278-8427

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