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FEATURE STORY

Second Annual IUPUI Research Day Spotlights Cutting-Edge Research and Creative Activity

On April 9, the Office of the Vice Chancellor for Research and its affiliated units (Center for Research and Learning and Solution Center) hosted the second annual IUPUI Research Day. With hundreds of faculty, staff, students and community partners in attendance, this open-house event allowed participants to interact with IUPUI's researchers and see how research and creative activity happening on this campus are reaching across the city, state, nation and the world. This event was successful in meeting its primary objectives of showcasing IUPUI's cutting-edge research and scholarly activities, and bringing together a diverse cross-section of the IUPUI faculty, staff, and students, as well as our community partners.

Research Day began with undergraduate, graduate and professional student poster presentations, followed by afternoon faculty poster presentations, a community research showcase and a networking reception. The afternoon also featured the Research Frontiers Distinguished Lecture, *Global Competition in Education and Discovery*, presented by Dr. Steven Beering, Chairman of the National Science Board, the governing Board of the National Science Foundation and Policy Advisors to the President and Congress. Dr. Beering's [presentation](#) and accompanying [slides](#) are now available on the Office of the Vice Chancellor for Research [Other Resources](#) webpage.

The inaugural winners of the Research Frontiers Trailblazer Award were also recognized at Research Day. This year's awardees are Dr. Teresa Bourus from the School of Liberal Arts and Dr. Irina Petrache and Dr. Debbie Thurmond from the School of Medicine.

As the Office of the Vice Chancellor for Research begins planning for the third annual IUPUI Research Day event, scheduled for April 8, 2011, participants and the broader IUPUI community are encouraged to send feedback and suggestions to OVCR@iupui.edu.



ANNOUNCEMENTS

Inaugural Winners of Research Frontiers Trailblazer Award Recognized

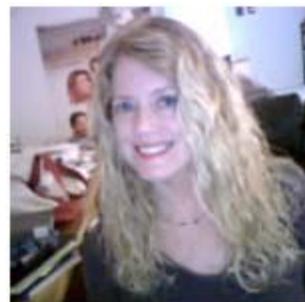
During the second annual IUPUI Research Day, the inaugural winners of the

Research Frontiers Trailblazer Award were announced. This award recognizes outstanding Associate Professors within the first three years of promotion or appointment who show great promise and are becoming nationally and internationally known for their accomplishments in advancing the frontiers of knowledge. Each year, up to three awards will be given campus-wide. The 2010 award winners are Dr. Teresa Bourus from the School of Liberal Arts, Dr. Irina Petrache from the School of Medicine and Dr. Debbie Thurmond also from the School of Medicine.

Through her research and scholarly activity, Dr. Teresa Bourus, Associate Professor of English Drama, has become known as both a textual scholar and a performance scholar. Her potential for national and international recognition in Renaissance Literature and Drama became a reality as early as 2006, when she became textual editor for two volumes in the Sourcebooks Shakespeare Series, published in Great Britain. Her training and scholarly expertise in both textual and performance areas were central to the production of two widely taught volumes in the series, *A Midsummer's Night Dream*, and *Hamlet*. These and other accomplishments underscore her remarkably early entry into the national and international spotlight as a Shakespearean scholar and editor. According to Dr. William Blomquist, Dean of the School of Liberal Arts, "there's no doubt in my mind that she will continue to garner scholarly and public recognition for herself, for IUPUI, and for the broader Indiana University academic community."

Dr. Irina Petrache is Associate Professor of Medicine, Biochemistry and Molecular Biology and her research focuses on understanding the mechanisms involved in chronic airway disease development such as pulmonary emphysema. Some of her research results have led to a paradigm shift in the understanding of how emphysema develops, and her innovative studies are contributing to the development of therapeutic strategies for the treatment of emphysema. According to Dr. Craig Brater, Dean of the School of Medicine, "The Research Trailblazer award recognizes those who are taking their work into new areas and breaking new ground. Dr. Petrache has succeeded at this in a spectacular fashion. She has chosen to work in a back water of pulmonary medicine, chronic obstructive lung disease (also known as emphysema), and in a short period of time uncovered some very exciting paths to follow that may help us halt what has heretofore seemed to be an inexorable disease process."

Dr. Debbie Thurmond, Associate Professor of Pediatrics, Biochemistry & Molecular Biology and Cellular & Integrative Physiology, has made considerable contributions to diabetes and cell biology research. With a focus on understanding the etiology of diabetes, she has advanced the field of knowledge in insulin regulated glucose secretion, a field which holds significant clinical implications. Dr. Thurmond's work in both basic and translational science is garnering her national and international recognition, as she continues to challenge the current view of her research field. According to Dr. Craig Brater, "Dr. Thurmond is a trailblazer in research even at this early stage of her career. She is pioneering new avenues of investigation related to diabetes, cell biology and aging. She has clearly demonstrated the innovation, dedication and high level of achievement requisite for the Research Frontiers Trailblazer Award."



Teresa Bourus, Ph.D.
Department of English Drama
School of Liberal Arts



Irina Petrache, Ph.D.
Department of Medicine
School of Medicine



Debbie Thurmond, Ph.D.
Department of Pediatrics,
Biochemistry & Molecular
Biology, Cellular &
Integrative Physiology
School of Medicine

TRANSLATIONAL RESEARCH IMPACT

Faculty Licenses Breast Cancer Diagnostic Marker

Dr. Sunil Badve, an Associate Professor in Pathology and Internal Medicine in the School of Medicine, has focused his translational research efforts on efficient treatment of breast cancer with a two-pronged approach - developing novel targeted therapies on the one hand and identifying ineffective therapies on the other. His team studies the individual biological components that culminate in cancer. Gaining a better understanding of these molecular mechanisms enables identification of key "nodes" in cellular pathways, which

can then be targeted by biological agents leading to better diagnosis and effective treatment of breast cancer.

Along with his research colleague Harikrishna Nakshatri, B.V.Sc., Ph.D., Associate Director of the IU Simon Cancer Center, Badve and his research team have developed a new breast cancer diagnostic marker called FOXA1 or forkhead box A1. FOXA1 is a gene known to be associated with a specific subtype of breast cancer. Their research found that patients testing positive for the FOXA1 biomarker generally have a less aggressive form of breast cancer and are more likely to respond to anti-estrogen hormone therapies as an alternative to traditional chemotherapy treatments.



Sunil Badve, M.B.B.S., M.D., FRCPath
Department of Pathology and
Laboratory Medicine
School of Medicine

Earlier this year, FOXA1 was licensed by Clariant Inc., a cancer diagnostics company. Clariant stated in the company's press release that the marker is a "significant new addition to our Clariant Insight® Dx program, which aims to provide pathologists and oncologists with a panel of assays that help deliver personalized medicine in a community setting."

This test could be a significantly less expensive alternative to existing methods for testing breast cancer subtypes that require sophisticated genomic analyses. Dr. Badve stated, "This is something that 80 percent of surgical pathology labs up and down the country could do."

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 - March 2010

PI	Agency	Project Title	School	Department	Total
TRIPPEL, STEPHEN BOWMAN	NATIONAL INSTITUTE ARTHRITIS MUSCULOSKELETAL SKIN	Gene Transfer Treatment of Articular Cartilage Damage	MEDICINE	ORTHOPAEDIC SURGERY	\$2,433,952
HALUM, STACEY L.	NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMM. DIS	Engineered Autologous Muscle Stem Cells for the Treatment of Vocal Fold Paralysis	MEDICINE	OTOLARYNGOLOGY & H/N SURGERY	\$1,195,860
O'DONNELL, JACQUELINE A	FAIRBANKS INSTITUTE	Multicenter Research Study to Build a Repository that will allow Researchers to Study Chronic Diseases in the Population of Central Indiana	MEDICINE	CARDIOLOGY	\$479,509
HUDSON, JONIKA VONN	OFFICE OF TWENTY-FIRST CENTURY SCHOLARS	Twenty-first Century Scholars Central Indiana Regional Support Site	UNIV COLLEGE	UNIV COLLEGE	\$445,739
OSILI, UNA O	BANK OF AMERICA	2010 Study of High Net Worth Philanthropy	LIBERAL ARTS	CENTER ON PHILANTHROPY	\$316,856
TIERNEY, WILLIAM MICHAEL	MOI UNIVERSITY FACULTY OF HEALTH SCIENCES	ASANTE Cardiovascular Pulmonary Disease Center of Excellence	MEDICINE	GENERAL INTERNAL MEDICINE	\$244,579
WANG, GUOFENG	U.S. DEPARTMENT OF ENERGY	SISGR: Theoretically relating the surface composition of Pt alloys to their performance as the electrocatalysts of low-temperature fuel cells	E&T	MECHANICAL ENGINEERING	\$220,000
FROELICH, JANICE C.	UNIVERSITY OF WASHINGTON	Noradrenergic agents as potential new pharmacotherapies for alcohol drinking	MEDICINE	ENDOCRINOLOGY	\$182,626
ZAUBER, SARAH ELIZABETH	MASSACHUSETTS GENERAL HOSPITAL	Creatine Safety, Tolerability, and Efficacy in Huntington's Disease: CREST-E	MEDICINE	NEUROLOGY	\$123,000
BODENHAMER, DAVID JACKSON	UNITED WAY OF CENTRAL IOWA	Customize SAVI Community Information System to the Des Moines Metropolitan area Task Order # 3	LIBERAL ARTS	POLIS	\$120,657

OVCR WORKSHOPS AND EVENTS

Thinking Outside of the Circle Workshop Series: Promoting Interdisciplinary Research in the Humanities and Social Sciences

The "Thinking Outside of the Circle" workshop series is designed for scholars (particularly junior scholars) in the humanities, social sciences, as well as community organizations to promote the further development of sound interdisciplinary research, innovative partnerships, and fundable grant proposals. The term 'thinking outside of the circle' refers to our desire to encourage our faculty to move beyond the parameters of their various disciplinary perspectives and knowledge bases to produce research that draws on multiple disciplinary areas of thought to produce cutting edge research projects on one hand, while also encouraging them to develop collaborative projects with organizations outside of our circle city area.

Workshops will provide faculty members and community leaders with skills to craft and design their research questions and methodologies in specific ways that lend themselves to the development of creative interdisciplinary research projects, publications, and collaborative activities. Participants will also receive support to assist them in applying for internal and external interdisciplinary grant proposals and will be provided with the necessary tools to perform computer searches to identify organizations that could fund their specific research and collaborative projects. This program is being sponsored by the Office of Academic Affairs and the Office of the Vice Chancellor for Research.

April 29th, 10:00 AM – 11:30 AM, UL 0106

Workshop 3 - Attaining Resources and Support for Your Interdisciplinary Grantsmanship Activities:

This workshop will provide participants with an overview of various internal and external grant opportunities available to IUPUI faculty and will include information on upcoming deadlines, how to apply, the review process, post award requirements and how best to build support for successful interdisciplinary research and innovative partnerships in the humanities and social sciences.

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1925>

National Science Foundation Research Experiences for Undergraduates (REU) Writing Circle

It's Not Too Late to Join this Writing Circle!

When: Thursday, April 29, 2010 | 04:00 PM-05:00 PM

Where: UL 2115G

National Science Foundation Research Experiences for Undergraduates (REU) Writing Circle - Multiple Sessions:

The NSF REU Grant-Writing Circle brings together faculty members and researchers to prepare proposals for the next round of NSF REU Site proposals due either June 04, 2010 (for those requiring access to Antarctica only) or August 25, 2010 (all others). These sessions are designed to facilitate the easiest possible proposal preparation.

Sessions are designed to simplify project conception and development, budget construction, proposal writing and editing. All sessions are one hour only (4-5 PM) once a month, more often near the August deadline. If you plan to leave campus in the summer designate a Co-PI for your project and make sure he/she also attends early sessions. Proposal writers or their collaborators should attend all sessions for the best possible result. Participants will assist each other to develop project ideas and edit proposals as much as possible. Programming experts from the Center for Research and Learning will collaborate to enhance and enrich the professional development content for projects. Participants from other IU campuses may arrange to attend by video conference by contacting Kathryn Wilson (kjwilson@iupui.edu).

Register: <http://crl.iupui.edu/Events/eventsRegistration.asp?id=1890>

DID YOU KNOW?

Campus Facts

For the first three quarters of the fiscal year, IUPUI's research awards totaled more than \$320M. Could this be the year we break the \$400M barrier? Proposals submitted in the month of March requested \$81M, which is 30% above the total requested for the same period last year. The School of Medicine led all of the schools with \$13.9M in awards. This was followed by the School of Nursing (\$1.2M) and the School of Science (\$0.9M).

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 INSTITUTES OF HEALTH

Home and Family Based Approaches for the Prevention or Management of Overweight or Obesity in Early Childhood:

The focus is on randomized clinical trials testing novel home- or family-based interventions for the prevention or management of overweight in infancy and early childhood. Tested interventions can use behavioral (including dietary and physical activity), environmental, or other relevant approaches. Applications should focus on infants and young children (to age six years) and emphasize the role of home environment and the influence of family/extended family members and parents (including guardians/substantial care-providers) within the child's home environment. *Standard NIH application deadlines apply.*

<http://grants.nih.gov/grants/guide/pa-files/PAR-10-126.html>: The focus is on the clinical application of multi-analyte molecular signatures derived from comprehensive molecular annotation of tumors. The purpose of this initiative is to build on recent demonstrations that molecular signatures correlate with important clinical parameters in cancer.. The NCI invites investigators to form strategic partnerships that will bring together the multi-disciplinary expertise and resources needed to determine how the information derived from comprehensive molecular analyses can be used to improve patient care and, ultimately, patient outcomes. *Application deadline is June 15, 2010.*



NATIONAL ENDOWMENT OF THE HUMANITIES

Bridging Cultures: This initiative supports projects that explore the ways in which cultures from around the globe, as well as the myriad subcultures within America's borders, have influenced American society. The focus is on planning and implementing a program consisting of a forum and a workshop on one of two humanities themes: "Civility and Democracy" or "The Muslim World and the Humanities." *Application deadline is June 1, 2010.*

Preservation and Access Education and Training: Preservation and Access Education and Training grants help the staff of cultural institutions, large and small, obtain the knowledge and skills needed to serve as effective stewards of humanities collections. Grants also support educational programs that prepare the next generation of conservators and preservation professionals, as well as projects that introduce the staff of cultural institutions to new information and advances in preservation and access practices. *Application deadline is July 1, 2010.*



NATIONAL SCIENCE FOUNDATION

Instrumentation for Materials Research- Major Instrumentation Projects (IMR-MIP): The IMR-MIP program supports the research and development of major instruments, and the design and construction of mid-scale instruments. Operation of the instruments built with these funds is to be provided from other sources (i.e., other programs within NSF or non-NSF funds). Staffing and operating the instrument will remain the responsibility of the proposing institution. Proposals from university-based facilities are particularly encouraged. This opportunity requires internal

coordination. *IU Internal deadline is May 10, 2010. Full agency application deadline is June 21, 2010.*

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://www.nsf.gov/mynsf/>. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

Federal Business Opportunities "FedBizOpps": FedBizOpps is the single government point-of-entry for Federal government procurement opportunities over \$25,000. To take advantage of this search tool, visit <http://vsearch1.fbo.gov/servlet/SearchServlet>. Opportunities found at this site include, but are not limited to, presolicitations and special notices for research and service contracts for specific projects and some national centers and surveys that would not be found in Grants.gov and may not be found in the Community of Science.

Limited Submission Funding Opportunities:

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://ovpr.indiana.edu/limsub/limsub.asp>. Please note that this is not a comprehensive list, and that any external funding opportunity that imposes any type of submission limitation is subject to the IU limited submission policy and procedures.

Special Handling: The Special Handling list was created in order to communicate donor restrictions and/or preferences for managing solicitation requests from Indiana University. The list reflects special relationships that exist between donors and the university and includes corporations and foundations that the President's office wishes to review prior to submission in order to coordinate Indiana University's requests to these donors. The Special Handling List was compiled and is maintained by the Indiana University Foundation office of Corporate and Foundation Relations. Questions regarding this list can be directed to Bobbi Bosch at 317-278-5648 or bsbosch@indiana.edu.

IU Authentication is required to view the following attachments:

[IU/IUF Corporation / Foundation Special Handling List](#)
[Principal Gifts Review Template](#)

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