

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.

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November 24, 2008

MESSAGE FROM THE VICE CHANCELLOR FOR RESEARCH

As I complete my fifth month as the Vice Chancellor for Research at IUPUI, I would like to take this opportunity to offer a few comments about the research enterprise on our campus. These observations are not only based on facts and figures, but also stem from my interactions over the past five months with a cross-section of faculty and other campus stakeholders.

First, I find a vibrant campus with talented faculty who are engaged in a wide range of innovative research and scholarly activities. A noticeable fraction of these activities are interdisciplinary in nature. There is also real interest on the part of many faculty from diverse disciplines to get to know more about each other's research expertise and interests, and develop new interdisciplinary research projects. Moreover, the substantial investment that in recent years our campus has made in support of research, including the Translating Research Into Practice (TRIP) and the Signature Centers initiatives is already paying off, as evidenced by the growth in research and scholarly activities, measured by such indicators as the number of grants funded and the amount of awards received. For the 2007-08 fiscal year, the total amount of externally funded research awards has reached the record level of \$303 million. This is a great accomplishment and a tribute to everyone who has contributed to it.

As our campus is on the path of achieving new heights in research and scholarly activities, it has also been faced with a number of challenges, including the need for more research space. Chancellor Bantz, in his State of the Campus speech, on November 11, 2008, spoke of the infrastructure that would be needed to enhance our research expansion. Research III building is on schedule to open in 2009 and will be the largest wet lab building ever built by Indiana University, and is expected to dramatically enhance our research enterprise. Chancellor Bantz also mentioned the Health Information and Translational Sciences building, as a great example of necessary infrastructure for research that does not require a wet lab building. In addition, he spoke of the new laboratory building for Science and Engineering, which President McRobbie endorsed in his recent State of the University address.

As we continue on the path of growth and advancement in research and scholarly activities, we will move closer to achieving our campus' research vision "*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.*" I appreciate your efforts in support of moving this agenda forward, and welcome your suggestions as to what we can do to help you in this pursuit.



Vice Chancellor Kody Varahramyan

FACULTY SPOTLIGHT

Dental School Faculty Member Received the 2008 Distinguished Faculty Award for Research for Her Work in Preventive Dentistry Research and Community-Engaged Scholarship

Editor:
Etta Ward

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If you have a news item or recent noteworthy research-related achievement that you would like to share, please contact Etta Ward at emward@iupui.edu.

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

The Indiana University School of Dentistry Alumni Association recognized Dr. E. Angeles Martinez-Mier as the recipient of the distinguished faculty award for research for the year 2008. Dr. Martinez-Mier's research has been funded by grants from the National Institute of Dental and Craniofacial Research, Clarian Health, Delta Dental Insurance, and the West Foundation. Her research projects have received National and International awards.

Her research interests are mainly in two areas: [fluoride](#) and [cross-cultural health](#). In her studies investigating the use of fluoride in dentistry, she is particularly interested in research that helps maximize its protective effects while minimizing its side effects. She has worked towards designing creative ways to use fluoride for dental decay prevention in partnership with communities. She serves as director of the [Fluoride research program](#) within her department.

Dr. Martinez-Mier is also engaged in community-based research in the area of cross-cultural and binational (US and Mexico) health that addresses and identifies disparities in oral health issues in Latino/Hispanic patients. She serves as the director for the [Binational/Cross-Cultural Health Enhancement Center](#). As the director of this Signature Center, Dr. Martinez-Mier has worked toward fostering multidisciplinary research collaborations that address the biological, cultural, historical, legal, behavioral and demographic issues that impact the health status of communities where Latinos are born and where they live in Indiana. The center's projects, with a commitment not only to research but also to teaching and service, develop and utilize approaches and applications that are culturally relevant, practical, just, reciprocal, and always in partnership with communities.

Dr. Martinez-Mier has mentored numerous undergraduate and graduate students conducting research projects in her areas of expertise. She is a strong proponent of experiential learning and the utilization of new teaching methods. She has received numerous grants for curriculum development and enhancement of student assessment. She is actively engaged in [service-learning](#) and e-learning. She also participates in problem-based learning as a tutor and tutor trainer.



Dr. E. Angeles Martinez-Mier

STUDENT SPOTLIGHT

PhD Student Focused on Shedding Greater Light on How Genes Lead to Dental Caries

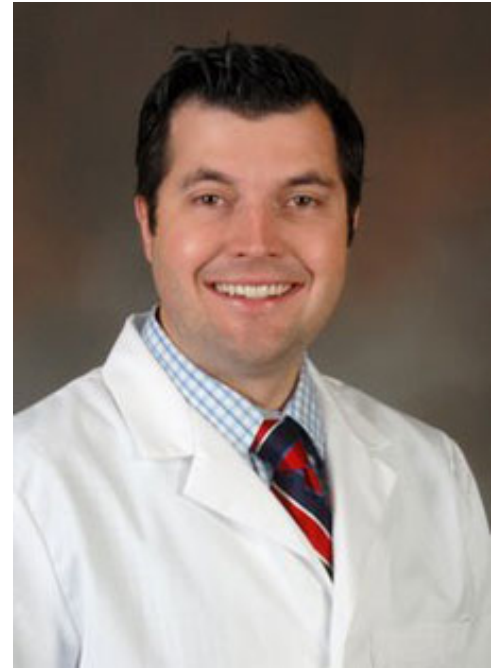
Already a dentist, Dr. V. Wallace McCarlie is now pursuing his PhD as a clinical researcher. For Dr. McCarlie "life has been full because of education." It all started early on, Dr. McCarlie reflects, "When I was a child, my mother made the library the most prominent part of our home, and we seemed to have every book under the sun. I came to appreciate the value of learning—not just as a means to an end, but as an end itself: the improvement and building of character that should be the foundation of human advancement."

Currently a clinical and translational sciences fellow, Dr. McCarlie believes that education should be used to bless peoples' lives. He states, "We should use our education not to separate ourselves from others but to dedicate ourselves to them." In its broadest sense, the academic life embodies a spirit of service that seeks the greater good. William Penn once said: "I expect to pass through this life but once. If therefore, there can be any kindness I can show, or any good thing I can do to any fellow being, let me do it now as I shall not pass this way again."

Dr. McCarlie loves the people he interacts with and the research he is poised to continue. "I couldn't have a better mentor in Dr. Margherita R. Fontana, or better co-mentors in Drs. Richard L. Gregory and James K. Hartsfield, Jr." He assures us that "they are not just eminently qualified experts in their fields, but they are also kind and compassionate people." Further, he reflects how appreciative he feels to be able to teach first-year dental students. "If I have a chance to be a small part of their dental education, no matter how miniscule that part may be, I am grateful and feel a great joy to see them progress."

Although Dr. McCarlie has published more than two-dozen articles and has been to more than a dozen conferences, his current research is new and relatively uncharted. The research Dr. McCarlie is working on seeks to understand how a person's genetic makeup relates to the bacteria in our mouths that lead to cavities. "More and more evidence challenges the traditional dental caries paradigm that regards the genetic component as insignificant. Becoming a clinical scientist gives me the best chance to make clinical medicine and basic science research work together. I recognize that basic science, applied to clinical conditions, has the potential to unlock the knowledge that will change clinical practice and public health in significant ways."

His mentor, Dr. Fontana states: "Wally is probably one of the most driven students I have ever mentored. In a period of about 3 months he sought and obtained funding from the CTSI, and wrote an NIH proposal, which we expect to have good chances of funding. His passion for research and education are evident, and it is a pleasure to help him prepare for a successful future academic career. We only wish there were more people like him interested in academia and clinical research."



V. Wallace McCarlie, DMD
Indiana University School of Dentistry

ANNOUNCEMENTS

OVCR Promotes Tools to Find Research Collaborators and Expertise

As the campus moves forward in its pursuit of excellence in research and scholarly activities, the Office of the Vice Chancellor for Research (OVCR) is committed to providing services, support and resources needed for faculty to be successful in their research and scholarly endeavors. This is accomplished by promoting tools to help connect faculty with collaborators and expertise both internal and external to the IUPUI campus. The following are two tools the OVCR currently promotes to the IUPUI faculty. To learn more about these and other resources, visit the IUPUI Research website at <http://research.iupui.edu/expertise.html>.

INDURE - Indiana Database of University Research Expertise: This site was developed by Purdue University and sponsored by the Indiana Economic Development Corporation. The goal is to develop, deploy, and maintain an easy-to-access database of research expertise, intellectual property, and ongoing sponsored research projects at academic institutions across the state of Indiana. Currently featured universities include Purdue University, Indiana University, University of Notre Dame, Ball State University, and IUPUI. This site is available to the public.

COS - Community of Science: COS is the leading global resource for hard-to-find information critical to scientific research and other projects across all disciplines. Search among 500,000 profiles of researchers from 1,600 institutions throughout the world. Discover who's doing what -- current research activity, funding received, publications, patents, new positions and more. Showcase your research and expertise among researchers and scholars from universities, corporations and nonprofits in more than 170 countries. Use convenient tools to keep your CV updated and accessible.

OVCR INTERNAL GRANT DEADLINES

RELEASE TIME FOR RESEARCH: As IUPUI is expanding its research enterprise across all disciplines, and as faculty in addition to their teaching assignments are seeking to increase their available time dedicated to research, the Office of the Vice Chancellor for Research offers the Release Time for Research (RTR) internal funding mechanism to aid faculty in their pursuit of research activities. The RTR will allow IUPUI faculty to "buy out" of teaching time to prepare grant/contract proposals for submission to external funding agencies. Application deadline is January 15, 2009. For grant guidelines and application forms, go to <http://research.iupui.edu/funding/>.

INTERNATIONAL VISITING RESEARCH SCHOLARS/PROFESSORS SUPPORT

(NEW): The IUPUI International Visiting Research Scholars/Professors Support Program is designed to assist IUPUI faculty members and departments to invite faculty members from abroad for both research collaboration and instructional purposes to benefit students at the graduate and/or undergraduate levels. This program will enhance IUPUI's Internationalization efforts in both teaching and research. The purpose is to develop faculty capacity to teach with a global perspective. Application deadline is February 6, 2009. For grant guidelines and application forms go to <http://research.iupui.edu/funding/>.

OTHER INTERNAL GRANT DEADLINES

COLLABORATION IN BIOMEDICAL/TRANSLATIONAL RESEARCH PILOT

GRANT PROGRAM (CBR/CTR): The overall objective of this first round of the CTSI Collaboration in Translational Research (CTR) pilot grant program (previously known as the CBR program) is to foster and encourage collaborations between entities at the two institutions and to initiate or continue translational research projects that have the potential to develop into larger, continuing, externally funded research programs.

Applications to this program are considered seed grants and are expected to have a maximum requested amount of \$75,000, typically of one (1) year duration. Proposed projects should have at least two (or more) principal investigators (PIs) of roughly equal contribution from at least two of the sponsoring affiliates for this program. Sponsoring affiliates include: IU School of Medicine (IUSM), IUPUI (non-IUSM), IU Bloomington, Purdue University (West Lafayette). Application deadline is December 1, 2008.

<https://www.indianactsi.org/grants/index.php/ctr>.

WORKSHOPS AND EVENTS

SCHOLARSHIP AT LUNCH TIME (SALT) SERIES

The SALT event series is aimed at showcasing interdisciplinary research efforts, promoting IUPUI research center activities, and encouraging new collaborative partnerships. This highly interactive event provides an opportunity to meet fellow researchers in an informal setting on a monthly basis at the Faculty Club. Presentations are limited to 20-25 minutes to allow ample time for discussion.

When: Wednesday, December 03, 2008 | 12:00 PM-01:00 PM

Where: University Faculty Club

More information and the complete SALT schedule for 2008/09 can be found at <http://faa.iupui.edu/newFaa/SALT.asp>.

During this presentation, Anna McDaniel, Professor and Assistant Dean for Research in the School of Nursing, will give a brief talk entitled "A New Paradigm for Training Interdisciplinary Behavioral Scientists." Transdisciplinary health research training has been identified as a major initiative to achieve the vision for research teams of the future as articulated in the NIH Roadmap for Medical Research. To address the need for scientists who can integrate diverse scientific approaches and work in transdisciplinary teams to solve complex health problems, an innovative training program has been designed that provides didactic and research experiences to enable trainees to establish productive careers in behavioral oncology and cancer control research. In this presentation, the development of a successful transdisciplinary training program that includes mentorship, research, and a specialized curriculum across a broad range of disciplines will be discussed.

Please direct any questions about the SALT program to Dominique M. Galli at dgalli@iupui.edu.

This event is sponsored by The University Faculty Club of Indianapolis

LIFECYCLE OF A GRANT PROPOSAL

Learn the basics of sponsored programs administration and meet key Sponsored

Research Services staff. Participants will also gain insight into the pre-award and post-award processes at IUPUI.

When: Friday, December 05, 2008 | 02:00 PM-03:30 PM

Where: University Library, Room 1116

Facilitators: Jean Mercer, Director of Grant Services, IUPUI Office of Research Administration and Randy Brutkiewicz, Assistant Dean for Faculty Affairs and Professional Development, IU School of Medicine.

Workshop Registration

This event is sponsored by the FAA

DID YOU KNOW?

National Facts

- The number of National Institutes of Health R01 grants going to first-time investigators slipped to 1354 in 2006, the lowest level in 9 years. In 2009 at least 1650 awards to new investigators for R01s will be made.

Campus Facts

- Research awards are down 6.6% for the month of September and down 11.9% for the year-to-date when compared with last year. Proposal submissions for the year are up 7.7% compared to last year.

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 at the end of this newsletter.

NATIONAL INSTITUTES OF HEALTH

NIH DIRECTOR'S PIONEER AWARD

The NIH Director's Pioneer Award Program complements NIH's traditional investigator-initiated grant programs by supporting individual scientists of exceptional creativity who propose pioneering and possibly transformative approaches to addressing major biomedical or behavioral challenges. X02 pre-applications (3-5 pages) will be evaluated by a group of external reviewers. Those investigators whose projects are judged to be the most outstanding will be notified of the opportunity to submit full (DP1) applications under RFA-RM-09-001. For additional information, consult the FAQs at <http://nihroadmap.nih.gov/pioneer/faq.aspx>.

Pre-application deadline is December 17, 2008.

CONTEXTUAL APPROACHES TO PREVENTION OF UNINTENDED PREGNANCY

The focus is on strengthening and revitalizing scientific research on the prevention of unintended pregnancies in the United States. *The Eunice Kennedy Shriver National Institute of Child Health and Human Development* (NICHD) invites R01 research

grant applications that will inform interventions addressing the cultural and structural factors that produce high rates of unintended pregnancy across the reproductive age span, especially in low-income populations in the United States. These interventions can operate at a wide range of levels, from clinical interventions to interventions that influence **cultural, economic, social, structural, and/or policy factors contributing to unintended pregnancy.**

Standard application deadlines apply. <http://grants.nih.gov/grants/guide/pa-files/PA-09-014.html>

BIOBEHAVIORAL RESEARCH AWARDS FOR INNOVATIVE NEW SCIENTISTS (BRAINS)

The focus is on supporting the research and research career development of outstanding scientists who are in the early, formative stages of their careers and who plan to make a long term career commitment to research in specific mission areas of the NIMH. In this inaugural year the focus of the BRAINS program is neurodevelopment.

Application deadline is February 3, 2009. <http://grants.nih.gov/grants/guide/rfa-files/RFA-MH-09-100.html>

NATIONAL SCIENCE FOUNDATION

PHYSIOLOGICAL AND STRUCTURAL SYSTEMS CLUSTER

The focus is on supporting research aimed at furthering the understanding of organisms as integrated units of biological organization. The Cluster considers proposals focused on interacting physiological and structural systems, their environmental and evolutionary contexts, and how these components are constrained by their integration into the whole organism.

Application deadline is January 12, 2009. http://nsf.gov/funding/pgm_summ.jsp?pims_id=501090&org=NSF&sel_org=NSF&from=fund

DEPARTMENT OF ENERGY

BASIC ENERGY SCIENCES (BES)

The mission of the BES program is to foster and support fundamental research to expand the scientific foundations for new and improved energy technologies and for understanding and mitigating the environmental impacts of energy use. The portfolio supports work in the natural sciences by emphasizing fundamental research in materials sciences, chemistry, geosciences, and physical biosciences.

Application deadline is December 31, 2008. <http://www.science.doe.gov/grants/FAPN09-01.html>

BIOLOGICAL AND ENVIRONMENTAL RESEARCH (BER)

The BER Program provides a systems science approach employing a range of disciplines to address DOE-relevant mission needs. A key element is BER's focus on scales, both spatial and temporal, ranging from the molecular to the global (Earth scale) and from the nanosecond to the century. This trans-disciplinary, multi-dimensional science moves beyond traditional single-disciplinary approaches, resulting in entirely new fields of research. BER science focuses "over-the-horizon," with broad and novel impacts on the Department of Energy's (DOE's) energy and environmental missions.

Application deadline is December 31, 2008. <http://www.science.doe.gov/grants/FAPN09-01.html>

ADVANCED SCIENTIFIC COMPUTING RESEARCH PROGRAM

The focus is on delivering forefront computational and networking capabilities to enable scientists to extend the frontiers of science, answering critical questions that range from nanoscience to astrophysics and include nuclear structure, the function of

living cells, and the power of fusion energy. Research is sought for the subprogram Applied Mathematics on the mathematical methods and numerical algorithms that enable the effective description, understanding, and prediction of complex physical, biological, and human-engineered systems. Application deadline is December 31, 2008. <http://www.science.doe.gov/grants/FAPN09-01.html>

NATIONAL ENDOWMENT FOR THE HUMANITIES

INSTITUTES FOR ADVANCED TOPICS IN THE DIGITAL HUMANITIES

The focus is on supporting national or regional (multi-state) training programs on approaches in humanities computing. Through these programs, the NEH seeks to increase the number of humanities scholars using digital technology in their research and broadly disseminate knowledge about advanced technology applications relevant to the humanities. The projects may be a single opportunity or offered multiple times to different audiences, although the duration of a program should allow for full and thorough treatment of the topic.

Application deadline is February 18, 2009. <http://www.neh.gov/grants/guidelines/IATDH.html>

IDENTIFYING FUNDING OPPORTUNITIES

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

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

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

National Science Foundation (NSF) "MyNSF": To take advantage of this search tool, register at <http://www.nsf.gov/mynsf/>. It allows you to receive discipline specific funding opportunities that are delivered to you weekly via email.

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

Limited Submission Funding Opportunities: Occasionally a funding agency places a limitation on the number of proposals that can be submitted from a campus or university system. For a description of the upcoming "limited submission" funding opportunities, as well as guidelines and application forms, go to: <http://ovpr.indiana.edu/lmsub/lmsub.asp> or contact Etta Ward in the IUPUI Office of the Vice

Chancellor for Research: emward@iupui.edu or 317.278.8427.

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