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Mock Site Visit 2 is Sept. 11-14; registration deadline is Friday

If you received an invitation to participate in sessions for the upcoming mock site visit but have not yet registered, please respond this week. **Participants must register by this Friday, Sept. 2.** Faculty and staff were invited to sessions related to their roles with IUSM. Registered participants will receive a confirmation email with information about meeting preparation, parking, meals, and remote/live stream access.

Mock 2 documents are now available: Participants can find information on preparation for the mock visit on the LCME [Reaccreditation portal](#). The DCI, Institutional Self Study Summary Report, agenda, and other documents are available on this portal. Remote access/live stream information and other meeting details also are included.

Questions? Email lcme2016@iu.edu.

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IUSM researchers receive \$1.5 million from NIH for groundbreaking study of bacteria

The National Institutes of Health (NIH), which funded IUSM research for a groundbreaking discovery related to bacteria, recently awarded IUSM-Northwest-Gary Principal Investigator Roman Dziarski, PhD, and his team a new \$1.5 million grant. Allowing the team to study this mechanism for the next four years, the grant reinforces the significance of the research.

In 2011, Dr. Dziarski and fellow researchers discovered that a group of proteins that act as the body's built-in defense against bacteria use a molecular "trick" that triggers bacteria to destroy themselves. When the discovery was announced, researchers said the mechanism by which this occurred was unknown, but that understanding exactly how this happens could potentially lead the way toward developing new methods for prevention and treatment of bacterial infections, including a possible solution for antibiotic resistance.

For more details on the study, visit iun.edu.

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IUSM Research Rally is Sept. 23

The IU School of Medicine Research Rally will be held in conjunction with the Indiana Clinical and Translational Sciences Institute (CTSI) annual meeting from 9 am to 3 pm, Friday, Sept. 23, in Hine Hall Auditorium at IUPUI.

The Research Rally, a showcase of core services available on campus to assist investigators, boasts a field of 17 support cores prepared to speed the course of research projects. Attendees who have their rally logbooks stamped from at least 12 of the 17 checkpoints will be eligible for a chance to win an Amazon Echo.

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Research News

Study: Addiction cravings may start deep in the right side of the brain

The source of addiction cravings may be a pea-sized structure deep inside the right side of the brain, according to IU School of Medicine scientists

Using two different kinds of advanced brain imaging techniques (PET and fMRI), IUSM researchers compared the results of giving beer drinkers a taste of their favorite beer versus a sports drink. After tasting the beer the participants reported increased desire to drink beer, whereas the sports drink did not provoke as much desire for beer. The brain scans also showed that the beer flavor induced more activity in both frontal lobes and in the right ventral striatum of the subjects' brains than did the sports drink.

More specifically, both methods of brain imaging showed increased activity in the right ventral striatum, a deep structure inside the brain that is linked to motivated behavior and reward. The researchers previously showed that beer flavor triggered dopamine release; the addition of fMRI showed that craving for alcohol correlated with frontal as well as right ventral striatum activation. The study was published recently in the

journal [Alcoholism: Clinical and Experimental Research](#).

In an earlier study of 49 men, the research team, led by David A. Kareken, PhD, IUSM professor of neurology, and deputy director of the Indiana Alcohol Research Center, found that just the taste of beer, without any intoxicating effects of alcohol, was enough to cause the release of dopamine, a brain neurotransmitter. Much research has linked dopamine to consumption of drugs of abuse.

The new study was conducted with 28 beer drinkers who had participated in the first study, who then underwent functional magnetic resonance imaging -- fMRI scans -- during the separate beer and sports drink tastings.

"We believe this is the first study to use multiple brain imaging modalities to reveal both increased blood oxygen levels and dopamine activity in response to the taste of an alcoholic beverage," said Brandon G. Oberlin, PhD, assistant research professor of neurology and first author of the paper. "The combination of these two techniques in the same subjects strengthens the evidence that these effects may be strongest in the right ventral striatum.

"Our results indicate that the right ventral striatum may be an especially important area for addiction research," Dr. Oberlin said.

For more, visit the [IUSM Newsroom](#).

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July research grants total more than \$4 million

Investigator	Sponsor	Type	Project Title	Begin Date	End Date	Awarded Dollars
Matthew C Aalsma	Agency For Healthcare Research And Quality	New	The Impact of Behavioral Health Treatment Among Adolescent Offenders	7/1/16	4/30/17	398,604
Ashay D Bhatwadekar	Grace M. Showalter Trust	New	Advanced glycation end product (AGE) modification of laminin impairs Kir4.1 function	7/1/16	6/30/17	60,000
Michael E Boulton	Sanford Burnham Prebys Medical Discovery Institute	New	A chemical biology strategy to validate the apelin receptor as a therapeutic target for diabetic retinopathy	5/1/15	10/31/16	11,000
Alan Breier	Brigham And Women's Hospital	New	Human Connectome Project for Early Psychosis	5/17/16	2/28/17	214,012
Brandon Patrick Brown	Grace M. Showalter Trust	New	Advanced MRI in the Diagnosis of Invasive Placental Disease: Assessment of	7/1/16	6/30/17	60,000

			Diagnostic Accuracy and Correlation with Prenatal Ultrasound			
Hal E Broxmeyer	National Institute Of Diabetes, Digestive & Kidney	New	DEK Regulation of Hematopoietic Stem Cell Renewal, Fate, and Hematopoiesis	7/1/16	5/31/17	512,978
Hal E Broxmeyer	National Institute Of Diabetes, Digestive & Kidney	Renewal (not prev committed)	Regulation of Hematopoietic Cell Production	7/1/16	6/30/17	93,114
Rebecca J Chan	National Cancer Institute	New	Evaluation of Bruton's Tyrosine Kinase and p110 delta in Mutant Shp2-Induced JMML	8/1/16	7/30/17	36,738
D Wade Clapp	National Cancer Institute	New	Weakened spindle checkpoint in vivo: a cause of aneuploidy and cancer in FA	7/14/16	7/13/17	27,801
Mahua Dey	Grace M. Showalter Trust	New	Tumor derived TGF-a regulates pDC phenotype in glioblastoma multiforme.	7/1/16	6/30/17	60,000
Roman Dziarski	National Institute Allergy & Infectious Diseases	New	Antibacterial activity of peptidoglycan recognition proteins	7/6/16	6/30/17	390,000
Carmella Evans-Molina	Grace M. Showalter Trust	New	Showalter Scholar - Carmella Evans-Molina	7/1/16	6/30/17	25,000
Amy Lewis Gilbert	Eskenazi Health	New	2015 AAMC Accelerating Health Equity, Advancing through Discovery Ahead Learning Cohort/ Eskenazi Health MLP Site	5/20/15	6/30/18	2,500
Tamara S Hannon	Grace M. Showalter Trust	New	Showalter Scholar - Tamara Hannon	7/1/16	6/30/17	25,000
Monica Khurana	Martin Center Sickle Cell Initiative	New	Broad Scope Sickle Cell Services for the Indiana State Department of Health	10/1/15	6/30/17	11,200

Karl Russell Koehler	Grace M. Showalter Trust	New	Generating facial skin from human pluripotent stem cell-derived organoids	7/1/16	6/30/17	60,000
Tim Lautenschlaeger	Grace M. Showalter Trust	New	Blood microRNA markers for NSCLC	7/1/16	6/30/17	60,000
Yan Liu	Grace M. Showalter Trust	New	The role of Polycomb repressive complex 1 in hematopoietic stem cells	7/1/16	6/30/17	60,000
Yunlong Liu	Grace M. Showalter Trust	New	Showalter Scholar - Yunlong Liu	7/1/16	6/30/17	25,000
Tao Lu	Grace M. Showalter Trust	New	A novel small molecule inhibitor to target PRMT5 in colon cancer	7/1/16	6/30/17	60,000
Kieren J Mather	National Institute Of Diabetes, Digestive & Kidney	Renewal (not prev committed)	14/22 Diabetes Prevention Program Outcomes Study (DPPOS) Phase 3 Research Project	2/24/16	1/31/17	30,852
Raghu G Mirmira	National Institute Of Diabetes, Digestive & Kidney	Renewal (not prev committed)	Transcriptional and Translational Mechanisms Governing Beta Cell Function	7/15/16	6/30/17	377,524
Bruce A. Molitoris	Ohio State University	New	Targeting cell membrane repair for treatment of acute kidney injury	5/6/16	1/31/17	92,020
Sarah Cassidy Nabinger	National Cancer Institute	New	Targeting PRL2 phosphatase in acute myeloid leukemia	8/1/16	7/30/17	61,137
Grzegorz Nalepa	St. Baldrick's Foundation	New	Evidence-based precision chemotherapy of childhood leukemia	7/1/16	6/30/17	109,894
Alexander G Obukhov	American Heart Association Incorporated	New	TRPC expression pattern in the coronary artery wall of metabolic syndrome pigs: immunohistochemical study	5/16/16	7/29/16	2,000
Matthew R Olson	Grace M. Showalter Trust	New	The role of CD4 T cell-derived granzyme A in Aspergillus-mediated	7/1/16	6/30/17	60,000

			lung inflammation			
Roberto Pili	Health Research, Inc.	New	Leveraging the methionine salvage pathway as a novel therapy for prostate cancer	5/1/16	4/30/17	6,930
Milan Radovich	Grace M. Showalter Trust	New	Next generation sequencing of circulating tumor DNA & RNA to predict recurrence in triple-negative breast cancer patients	7/1/16	6/30/17	60,000
Baskar Ramdas	Grace M. Showalter Trust	New	A novel target for treating leukemia	7/1/16	6/30/17	20,000
Andrew J Saykin	Georgetown University	New	Bio-behavioral Research at the Intersection of Cancer and Aging	8/1/15	7/31/16	186,765
Emily K Sims	Grace M. Showalter Trust	New	Novel Circulating Extracellular Vesicle microRNAs Identifying Development of Type 1 Diabetes	7/1/16	6/30/17	60,000
Robert V Stahelin	National Institute Allergy & Infectious Diseases	Renewal (not prev committed)	Lipid-protein interactions in viral assembly and virus like particle formation	7/15/16	6/30/17	373,200
William J. Sullivan	Grace M. Showalter Trust	New	Disrupting RNA modification as a novel treatment for parasitic infection	7/1/16	6/30/17	60,000
Zhiyong Tan	Grace M. Showalter Trust	New	Role of hyperpolarization-activated cyclic nucleotide-gated channels in chronic pain associated with chemotherapy-induced peripheral neuropathy	7/1/16	6/30/17	40,124
Steven P Templeton	Grace M. Showalter Trust	New	Regulation of adipose and ling tissue eosinophil accumulation by adiponectin	7/1/16	6/30/17	60,000
Brownsyne Tucker	Greenwall Foundation	New	Parental Perspectives on Periviable Birth:	7/1/16	6/30/19	377,139

Edmonds			Exploring Values, Attitudes, and Coping Strategies			
Meijing Wang	Grace M. Showalter Trust	New	Increased mitochondrial connexin 43 by estrogen in acute cardioprotection following ischemia/reperfusion injury	7/1/16	6/30/17	60,000
Ronald C. Wek	Grace M. Showalter Trust	New	Translation and Stress Regulatory Pathways in Health and Disease	7/1/16	6/30/17	60,000
Andy Qigui Yu	Grace M. Showalter Trust	New	Showalter Scholar - Andy Qigui Yu	7/1/16	6/30/17	25,000

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Wanted: researchers to take brief survey about PCORI educational offerings

The Indiana Clinical and Translational Sciences Institute (CTSI) in partnership with the IU School of Nursing is conducting a brief survey to understand researchers' interest and preferences in education offerings about Patient Centered Outcomes Research Institute (PCORI) funding. This survey will take less than five minutes to complete and will assist in planning future educational offerings. [Click to participate in the survey.](#)

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Faculty and Staff News

Cantor to transition from chair of Department of Ophthalmology

Louis B. Cantor, MD, recently announced plans to transition from his current position as chair of the Department of Ophthalmology.

Dr. Cantor served as chair of the Department of Ophthalmology since 2009, first joining the IU School of Medicine as director of the Glaucoma Service in 1985. He later assumed an additional role as residency program director for a 10-year period. He attained the rank of professor in 1991, and subsequently was named the Jay C. and Lucile L. Kahn Professor of Glaucoma Research and Education in 2004.

He is recognized as a national and international expert in the development of novel medical and surgical approaches to glaucoma therapy, serving on the executive committee of the American Academy of Ophthalmology as Senior Secretary of Education. During Dr. Cantor's tenure, the Department of Ophthalmology has enhanced its national ranking and reputation with a substantial increase in NIH funding and growth of the faculty. The department benefitted from tremendous philanthropic support under Dr. Cantor's leadership that culminated in the 2011 opening of the department's new home—the Eugene and

Marilyn Glick Eye Institute.

A national search for the next department chair will officially be underway this month. Dr. Cantor will continue all his current duties until a new chair is named, and will continue to see patients and serve as director of the Glaucoma Service. Once the transition occurs, he will re-engage in his clinical and biomedical research, and assume an expanded leadership role in global education.

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Student News

Harrington to host statewide student forums on Phase 1 and Legacy curricula

Maureen Harrington, PhD, associate dean, medical student education in foundational sciences, is visiting campuses statewide to connect directly with MS1 and MS2 students about the Phase 1 and Legacy curricula. The open platform sessions will offer students a chance to check in and give feedback on the curriculum. Dr. Harrington had great response at these sessions on the Indianapolis and Evansville campuses. Information on future sessions at the other campuses is listed below.

Date	Time	IUSM Campus	Room
Sept. 7	noon Central	Gary	Room 2022, Dunes Medical Professional Building, Indiana University Northwest
Sept. 21	5:30 p.m. Eastern	South Bend	1234 N. Notre Dame Ave., Raclin-Carmichael Hall
Oct. 5	5:30 p.m. Eastern	Fort Wayne	Conference Room 123
Oct. 12	5:30 p.m. Eastern	Terre Haute	Classroom 3, Landsbaum Center for Health Education, 1433 N. 6 1/2 St., Terre Haute; Parking is free in front of the building.
Nov. 2	5:30 p.m. Eastern	West Lafayette	Lyles Porter Room 1160
Nov. 16	5:30 p.m. Eastern	Bloomington	Jordan Hall 009
Nov. 30	5:30 p.m. Eastern	Muncie	Location TBD

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Kwon selected as first Cagiantas Scholar

Jason Kwon, IUSM graduate student in medical and molecular genetics, has been named the first Cagiantas Scholar. Through a generous donation from the Cagiantas family, the IU School of Medicine was able to establish an award for outstanding graduate students. As this year's recipient, Kwon will receive tuition, fees, benefits, and a \$27,000 stipend for one year. He also receives \$1,500 for travel to a scientific meeting.

Kwon is a fourth-year graduate student in the Medical and Molecular Genetics program under the direction of Janaiah Kota, PhD, assistant professor, medical and molecular genetics.

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Opportunities

Apply by Nov. 4 for 2017 IU Health Values Fund grants

Make plans now to apply for a 2017 IU Health Values Fund grant. The four grant programs include:

Values Fund for Research -- Letter of intent due Oct. 21, 2016; proposals due Nov. 4, 2016; maximum award of \$100,000 over two years.

Values Fund for Medical Education -- Letter of intent is not required; proposals due Nov. 4, 2016; maximum award of \$100,000 over two years.

Integration of Religious and Spiritual Dimensions in Health Care Grant Program -- Suggested letter of intent due Oct. 14, 2016; proposals due Nov. 4, 2016; maximum award of \$100,000 over two years.

Grand Challenge for Population Health -- Letter of intent due Oct. 21, 2016; proposals due Nov. 4, 2016; maximum award of \$500,000 over two years.

Eligible applicants are employees of any IU Health facility, physicians, and health professionals with IU Health medical staff privileges, or persons holding an official appointment at IU Health. Application requirements vary among the four grant programs, so applicants should carefully review the full instructions.

Share this announcement with others who may have an interest in these grants opportunities.

Application materials are available on the [CTSI HUB grant system](#). You may also receive materials by contacting Peter M. Michael at 317-962-2373 or pmichael@iuhealth.org.

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“Lab to market” training program coming this fall

Faculty members and post-doctoral and graduate researchers may be interested in attending “Introduction to Customer Discovery for Clinical and Translational Science” -- a training program to move ideas out of the lab and into the market. The program, sponsored by Indiana CTSI and Midwest I-Corps, includes a pre-program

webinar, kick-off sessions, and weekly coaching sessions. Applications will be accepted until Monday, Sept. 12. For dates, details, and application information, visit krannert.purdue.edu.

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Plan to attend upcoming Indiana CTSI annual meeting and Watanabe Prize Lecture

The eighth annual meeting of the Indiana Clinical and Translational Sciences Institute (CTSI) and awarding of the third Watanabe Prize in Translational Research will be held from 8 am to 3 pm, Friday, Sept. 23, in IUPUI's Hine Hall.

The Watanabe Prize in Translational Research presented by Indiana CTSI and IU School of Medicine recognizes a member of the scientific or medical community who has achieved outstanding accomplishments in translational research. This year's recipient, Dr. Robert Lefkowitz, a Nobel Laureate in chemistry, will spend several days in Indiana to share his knowledge with audiences at IU School of Medicine and partner institutions. The Indiana CTSI annual meeting will also highlight two outstanding young investigators named **Watanabe Translational Scholars**. They will present a brief overview of their research during the event and will be mentored by Dr. Lefkowitz over the next two years.


[Register](#) to attend the meeting.

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Bone marrow registry drive is Sept. 27

Many patients are in need of bone marrow transplants, but don't have matching donors. Could you be their hero? Take part in the upcoming bone marrow registry drive, hosted by the Student National Medical Association, from noon to 4 p.m., Tuesday, Sept. 27, in the Medical Science Building atrium. Registering to be a donor is easy and involves filling out a short form and completing four quick cheek swabs. Donors must:

- Be between the ages of 18 and 44
- Be willing to donate to anyone in need
- Meet health guidelines


No appointment is needed, and pizza will be served. Questions? *Contact Chizelle Onochie at cconochi@indiana.edu or Angela Touseull at 317-916-5110  or atouseull@indianablood.org.*

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Save the date: "Managing Oral Health by Age One" summit is Oct. 15

The IU School of Medicine, IU School of Dentistry, Indiana Primary Health Care Association, and the Indiana Dental Association will host "A Multidisciplinary Approach to Managing Oral Health by Age One" on Saturday, Oct. 15, from 8 am to 4:15 pm at the IU School of Dentistry.

The summit's purpose is to learn from experts about how to support early child dental visits and preventive dental health. This program is designed for pediatricians, OB/GYNs, dentists, hygienists, family physicians, federally qualified health center dentists, patient educators and social services personnel, and Centering Pregnancy Programs.

For more details,  [view the brochure](#). To register, visit cme.medicine.iu.edu/courses. This activity has been approved for AMA PRA Category 1 Credit by the IU School of Medicine.

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Around Campus

Indy – Graduate Expo is Sept. 22

IUPUI employees curious about potential graduate school opportunities should plan to attend the Thursday, Sept. 22, Graduate Expo at the Campus Center, Room 450. The event will run from 10 am to 2 pm, and walk-ins are welcome, although registration is encouraged.

Visit the [Graduate Expo website](#) to register or for a list of participating universities, or email the [IUPUI Graduate Office](#) for more details.

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