



INDIANA UNIVERSITY

Weekly news for faculty, staff and students  
from [Indiana University School of Medicine](#)

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January 4, 2018

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## Top News

### Researchers receive nearly \$3 million for studies to help caregivers of patients with cognitive disorders

challenges for which they are often unprepared and unsupported. Health services researcher **Nicole Fowler, PhD, MHSA**, of Indiana University School of Medicine, the **IU Center for Aging Research**, Regenstrief Institute and IU Center for Health Innovation and Implementation Science, and colleagues have received grants from the National Institute on Aging (NIA) and the United States Department of Defense totaling nearly \$3 million to fund two novel studies focusing on helping family caregivers of individuals with Alzheimer's disease and related dementias or traumatic brain injury.

A \$2.2 million, five-year NIA award funds the randomized control Decisions about Cancer Screening in Alzheimer's Disease study, known as DECAD, to investigate if an evidence-based mammography screening decision aid can improve the quality of medical decision making among caregivers by lowering their decisional conflict and increasing their confidence in making mammography decisions for older women with Alzheimer's disease.

"Family caregivers are often the ones making tough decisions and facilitating medical care for their loved ones with Alzheimer's disease," Dr. Fowler said. "They struggle with decisions about care, especially those that they are not sure will improve their loved ones' quality of life and may be burdensome. For example, imagine you are a woman with Alzheimer's disease being taken out of your familiar surroundings to get a mammogram and you don't really know or understand what is going on, what is being done to your body; then imagine how difficult it can be for the caregiver to make the decision to take their confused family member to the imaging facility and keep them calm and comfortable."

National guidelines on mammography screening in older women vary and some address the need to tailor guidelines for women with serious, life-limiting illnesses such as Alzheimer's disease. It is estimated that over 800,000 older women with Alzheimer's disease receive screening mammograms annually in the U.S.

"Additionally, findings from this study will help us understand the implications of undergoing follow-up tests and treatment for these women and if they are a significantly greater burden for older women with dementia than those who are not cognitively impaired," Dr. Fowler said.

For more on the studies, visit the [IU School of Medicine Newsroom](#).

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## Diversity Month events begin Jan. 8

On Monday, Jan. 8, IU School of Medicine kicks off a month of events in recognition of Diversity Month. This series of events explores different dimensions of diversity, including topics specific to diversity and inclusion in academic medicine. The Jan. 8 event, a [Diversity Council Open Forum](#), will be held at noon in Daly 186. This month's events also include:

**Friday, Jan. 12:** [Diversity Affairs Social Hour](#)

5 pm; Madame Walker Theater

**Friday, Jan. 19:** [Department of Medicine Grand Rounds: Moving Beyond Cultural Competence Toward Equitable Patient-Centered Communication](#)

Noon; Emerson Hall 304

**Monday, Jan. 22:** [Stepping Stones of Women in Leadership](#) (featuring Emily Walvoord, MD)

11:45 am; Fairbanks Hall 1112

**Monday, Jan. 22:** [Unconscious Bias Presentation at IU School of Medicine-Fort Wayne](#)

Dinner session: 6:30 pm (viewing available in Walther Hall 303)

**Thursday, Jan. 25:** [Cultural Awareness Town Hall: Fourteen Years Later--On Barriers to Healthcare Faced by the Hispanic/Latino Community of Indianapolis](#)

11:30 am; Walther Hall 203

**Tuesday, Jan. 30:** [Asking Sexual Orientation and Gender Identity Questions in the History and Physical Exam](#)

Noon; Van Nuys Medical Science Building, B26

Additional diversity programming is planned for 2018. To stay up to date, visit [faculty.medicine.iu.edu](http://faculty.medicine.iu.edu).

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## Buy tickets now: the Second Year Show is next Friday

Don't miss out on this year's Second Year Show (2YS), which will be held at 7 pm, Friday, Jan. 12, at the Madame Walker Theatre in downtown Indianapolis. Led by IU School of Medicine MS2 students, this year's show features "Ashleigh" and her difficulties adapting to the stressful environment of medical school.

Tickets for the show are \$10 in advance and \$15 at the door. Support this student-run initiative by [buying a pre-sale ticket](#) or making a donation. The IU School of Medicine Office of Diversity Affairs will sponsor a pre-show mixer with food and drinks.

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## Research News

### Innovative brain-imaging study aimed at identifying at-risk kids

Faculty at [Indiana University School of Medicine](#) and Riley Hospital for Children at IU Health are looking to discover why some children and adolescents are more likely to engage in risky decision making than others through a unique brain-imaging study.

The study, led by [Leslie Hulvershorn, MD](#), assistant professor of [psychiatry](#), is the first of its kind to investigate the brain mechanisms associated with decision making which may predict the onset of risky behavior such as drug or alcohol use.

"We know that some children are more likely to make risky decisions and those children are more likely to go on to develop drug use disorders later in adolescence and adulthood," said Dr. Hulvershorn. "Our team is interested in finding out more about brain mechanisms that underlie risky decision making before a child ever uses a drug of abuse."

Children ages 11 and 12 are invited to participate as part of the study which is funded by the National Institutes of Drug Abuse. For more details on the study and contact information, visit the [IU School of Medicine Newsroom](#).

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### Researchers find way to block malaria-causing parasite's ability to shield itself from drug treatment

Indiana University School of Medicine researchers have identified a way to block the ability of parasites that cause malaria to shield themselves against drug treatments in infected mice—a finding that could lead to the development of new approaches to combat this deadly disease in humans.

Malaria is caused by a single-celled parasite called Plasmodium that is transmitted during a mosquito bite. Plasmodium parasites have evolved resistance to key antimalarial medications traditionally used to fight the disease, which is why there is an urgent need to identify new treatment strategies. Artemisinin is the active ingredient in the sweet wormwood bush that has been used for centuries as an antimalarial treatment in China. Today, artemisinin and its derivatives (known as ARTs) are among the most potent antimalarial medications used as the frontline treatment in more than 100 countries.

While ARTs can rapidly reduce the number of parasites in the blood, treatment with artemisinin fails for many patients because it appears that some parasites can enter a latent stage that allows them to ride out the presence of the drug. When patients finish their medication, these latent parasites reactivate and cause a relapse of the infection. This phenomenon is deemed a treatment failure, and it is emerging as a major clinical

problem in battling malaria.

In a [collaborative study published Dec. 13 in Cell Host & Microbe](#), a team of researchers led by Research Assistant Professor [Min Zhang, PhD](#), of the IU School of Medicine [Department of Pharmacology and Toxicology](#) and the Department of Pediatrics, identified the molecular mechanism leading to ART treatment failures.

For more on this discovery, read this [blog post](#) by study collaborator [William Sullivan, PhD](#), and visit the IU School of Medicine Newsroom for the [full news release](#).

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### November research awards total more than \$12 million

Investigator	Sponsor	Type	Project Title	Begin Date	End Date
Matthew R Allen	University Of Colorado Colorado Springs	New	The Role of Bone Trait Covariation in Vertebral Fracture Resistance	9/1/17	8/31/18
Liana G Apostolova	National Institute On Aging	New	Early Onset Alzheimer's Disease Consortium	9/15/17	8/31/18
Alan Breier	Eskenazi Health	New	The Prevention and Recovery Center (PARC) for Early Psychosis Coordinated Specialty Care Program (Year 4A)	9/1/17	8/31/18
Alan Breier	Eskenazi Health	Renewal (not prev committed)	Prevention and Recovery Center for Early Psychosis (PARC) and Coordinated Specialty Care (CSC) Network (YR1)	9/1/17	8/31/18
Cynthia Diane Brown	Cincinnati Children's Hospital Medical Center	New	A Cystic Fibrosis Collaborative Chronic Care Network Care Model of the Future: Proposal for	6/1/17	12/31/17

			Piloting a Learning Health System		
D Wade Clapp	University Of Alabama Birmingham	New	NF Clinical Trials Consortium	8/15/17	8/14/18
Simon J Conway	U.s. Department Of Veterans Affairs	Renewal (not prev committed)	VA H. Nakshatri, MD Research	10/1/17	9/30/18
Stephanie D Davis	University Of North Carolina At Chapel Hill	Renewal (not prev committed)	Genetic Disorder of Mucociliary Clearance	8/1/17	7/31/18
Linda A DiMeglio	Western Michigan University	New	Circadian Rhythmicity of Innate and Adaptive Immunity in T1D	6/1/17	5/31/18
Yansheng Du	Purdue University	New	Lead Exposure on Beta-Amyloid Transport by Brain Barriers	8/15/17	7/31/18
Robert J Fallon	Riley Children's Foundation	Renewal (not prev committed)	Stem Cell Transplant Chair - Wells Center 91-A6	7/1/17	6/30/18
Sherif S Farag	University Of Michigan	New	University of Michigan Core Clinical Center for the BMT Research Network	7/26/17	6/30/18
Tatiana M Foroud	Michael J Fox Foundation For Parkinsons Research	Renewal (not prev committed)	PPMI Biorepository	1/1/18	12/31/19
Tatiana M Foroud	Michael J Fox Foundation For Parkinsons Research	New	Indiana University Genetics Biobank and Michael J Fox Foundation Fox Bionet Study	1/1/17	12/31/17
Flora Hammond	University Of Washington	New	Improving Transition from	8/1/17	7/31/18

			Acute to Post-Acute Care following Traumatic Brain Injury		
Flora Hammond	Administration For Community Living	New	Indiana TBI Model System	9/30/17	9/29/18
Mark R. Kelley	Riley Children's Foundation	Renewal (not prev committed)	Tom Wood Lexus Foundation Lexxll	12/1/17	11/30/18
Myda Khalid	Nationwide Children's Hospital	Renewal (not prev committed)	Integrative Proteomics & Metabolomics for Pediatric Glomerular Disease Biomarkers	6/1/17	5/31/18
Jeffrey Allen Kline	Medical College Of Wisconsin	New	Strategies to Innovate EmeRgENcy Care Clinical Trials (SIREN), Mid-America CTSA Consortium (MACC)	7/15/17	5/31/18
Heiko Konig	Elsa U. Pardee Foundation	New	Novel role of hypoxia and hypoxic gradients in acute myeloid leukemia drug resistance	10/1/17	9/30/18
Kieren J Mather	George Washington University	Renewal (not prev committed)	Glycemia Reduction Approaches in Diabetes: A comparative effectiveness study (GRADE)	9/6/17	7/31/18
Harikrishna Nakshatri	Dr. Ralph And Marian Falk Medical Research Trust	New	The effect of extra physiologic oxygen shock/stress (EPHOSS) on cancer stem cell and drug sensitivity measurements.	11/30/17	11/29/18



Rick F Nelson	Triological Society	New	Genetically Mediated Hair Cell Degeneration in 3D Inner Ear Organoids	10/1/17	9/30/18
Sara Kay Quinney	Kaiser Foundation Research Institute	New	Resistance Training to Reduce Chemotoxicity in Colon Cancer	6/15/17	5/31/18
Jamie L Renbarger	Riley Children's Foundation	Renewal (not prev committed)	Jeff Gordon Children's Foundation Pediatric Oncology Physician Scientist Training Program (POPSTP)	7/1/17	6/30/18
Courtney Marie Rowan	University Of Minnesota	New	Pediatric HSCT/Oncology Patient Critical Care Trials Group	1/1/17	12/31/17
Gregory M. Sokol	Duke University	New	NICHD-2017-ABS02 Long-Term Outcomes Protocol of Premature Infants Enrolled in the NICHD-2013-ABS01 (SCAMP) Study	11/3/17	7/31/18
Michael S Sturek	Boston University	New	In Vivo Photoacoustic Sensing of Lipid Laden Plaque	8/1/17	7/31/18
Michael S Sturek	Northwestern University	New	Pilot Study of Bioresorbable Vascular Scaffolds	9/1/17	11/30/17
Sarah Elizabeth Wiehe	Indiana State Department Of Health	Renewal (not prev committed)	2017 Community Health Engagement Program Community-Based Research Pilot	11/1/17	10/31/18

			Projects		
Xiao-Ming Xu	U.s. Department Of Veterans Affairs	New	IPA Agreement/Liu	10/1/17	9/30/18
Xiao-Ming Xu	U.s. Department Of Veterans Affairs	New	IPA Agreement/Wu	10/1/17	9/30/18

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## Faculty and Staff News

### Cain named the Robert A. Garrett Professor of Pediatric Urologic Research

**Mark P. Cain, MD**, has been named the Robert A. Garrett Professor of Pediatric Urologic Research. This professorship was previously held by **Richard C. Rink, MD**, from 1997-2017. In addition to his new title, Dr. Cain will retain his current faculty title of professor of Urology.

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### Lab mentors, faculty and lecturers needed for CUPID summer program

Laboratory mentors, lecturers and clinical faculty are invited to participate in “Cancer in the Under-Privileged Indigent or Disadvantaged” (CUPID), a summer translational oncology program jointly administered by IU School of Medicine, the Johns Hopkins University School of Medicine and Ohio State University College of Medicine.

Now in its third year at IU School of Medicine, CUPID aims to cultivate an interest in cancer treatment and research among medical students who have not yet fully defined their career goals. Students interested in both research and health care disparities (rural and urban) and who have demonstrated a sustained commitment to community service are invited to apply. The 10-week, laboratory-based research experience will be held from May 28-Aug. 3, with IU School of Medicine hosting 4-6 students for the fellowship. During this period, students also will attend a didactic lunchtime lecture series featuring discussion about the molecular basis of cancer, general oncologic principles, challenges in clinical oncology and approaches to relieving cancer health disparities. They will also experience the clinical side of oncology through participation in half-day clinical rotations. Students will present research findings at a closing symposium.

Faculty are needed to host students in their labs (if located in Indianapolis), give lectures and provide shadow experiences in their clinics. Faculty mentors hosting a summer student in their laboratories will receive \$1,000 to help cover lab-related expenses.

More details about [CUPID and faculty volunteer opportunities](#) are available. With questions or to volunteer, contact Joe Dynlacht, PhD, at [jdynlach@iupui.edu](mailto:jdynlach@iupui.edu), or Richard Zellars, MD, at [rzellars@iu.edu](mailto:rzellars@iu.edu).

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## Upcoming FEED event to explore connections between learner mistreatment and patient safety

Learner mistreatment and patient safety will be discussed at the next [Faculty Enrichment and Education Development \(FEED\)](#) event from 5:15-7 pm, Thursday, Jan. 18, in Fairbanks Hall, Room 1110. The session will identify important connections between learner mistreatment and patient safety. [Registered participants](#) will learn why learner mistreatment matters for all faculty and what they can do to mitigate this issue.

Providing an opportunity to learn in a collegial environment, FEED is a series of workshops on key topics in faculty development.

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## Successful proposal development is topic of Feb. 1 seminar

Basic processes for developing successful proposals to external funding agencies will be addressed in an event from 10-11:30 am, Thursday, Feb. 1, at University Library, Room 1126, on the IUPUI campus.

Topics include clarifying project objectives, matching project objectives to funding agencies, becoming familiar with funding agencies, basic budget construction, and communicating objectives and methods. Registration is not required.

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## Promotion and tenure information sessions begin Feb. 8

Plan now to attend a series of information sessions about the [promotion and tenure process](#). The IU School of Medicine [Office of Faculty Affairs and Professional Development](#) partners each year with the school's promotion and tenure committee to offer these special sessions. Dates and topics include:

Thursday, Feb. 8: General overview

Wednesday, Feb. 14: Documenting your work

Monday, Feb. 19: Preparing your CV

Wednesday, Feb. 21: Advancing to full professor

Monday, Feb. 26: eDossier nuts and bolts

Registration is available for each session.

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## Student News

### Spring semester office hours for Dr. Allen

Have a question to ask or a comment to share? Bradley Allen, MD, PhD, senior associate dean, Medical Student Education, will be available to speak with students in Medical Science Building, MS 166, on the following days and times:

Wednesday, Jan. 17; noon-1 pm  
Wednesday, Jan. 24; noon-1 pm  
Wednesday, Jan. 31; noon-1 pm  
Thursday, Feb. 8; noon-1 pm  
Thursday, Feb. 15; noon-1 pm  
Monday, Feb. 26; 11:30 am-1 pm  
Thursday, March 8; noon-1 pm  
Thursday, March 15; noon-1 pm  
Thursday, March 29; noon-1 pm  
Wednesday, April 11; noon-1 pm  
Wednesday, April 18; noon-1 pm  
Thursday, May 3; noon-1 pm  
Thursday, May 10; noon-1 pm  
Thursday, May 17; noon-1 pm

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## Opportunities

### Letters of intent for diabetes research funding due Jan. 19

The IU Center for Diabetes and Metabolic Diseases is now accepting letters of intent (LOIs) for its pilot and feasibility program, which fosters the development of new diabetes-related investigators and provides seed support for innovative, high-risk projects. Investigators at Indiana University, IUPUI, Ball State, Notre Dame, the Indiana Biosciences Research Institute and Purdue are eligible for this funding opportunity.

The program is particularly directed to new investigators and established investigators new to diabetes-related research. It also will consider established diabetes investigators pursuing high-impact/high-risk projects or projects that are a significant

departure from their usual work.

**Application details** are available. Letters of intent are due Friday, Jan. 19, and the full submission deadline is Monday, March 19.

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## March 5 is deadline to apply for CTSI-designated core facilities grants

The Indiana Clinical and Translational Sciences Institute (CTSI) seeks proposals from postdoctoral researchers to develop translational research through the use of technologies and expertise at the Indiana CTSI-designated core facilities available at all partner institutions. Translational research refers to research in the lab that eventually translates into patient treatment to improve human health care. Translation involves applying discoveries made during research (in the lab, through animal studies, etc.) to the development of clinical trials and studies in humans.

More information and **application details** are available. Deadline to submit applications is Monday, March 5.

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## Feb. 9 is deadline to apply for veteran-related research funding

The mission of the Indiana Institute for Medical Research (IIMR) is to promote and enhance research efforts that will ultimately result in improved quality of life for veterans and for the greater population. To support this mission, IIMR works to encourage investigators to develop their research careers by working with IIMR, the Veterans Administration and veterans to answer important questions. To this end, IIMR sponsors the annual Young Investigator Award Program, which provides a competitive experience for investigators to explore the possibilities of VA-related research.

Project budgets should be limited to funds necessary to carry out the research project and should not exceed \$25,000. More information and **application details** are available. Letters of intent are due Friday, Jan. 12, and the full submission deadline is Friday, Feb. 9.

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## Kudos

### Sanborn recently honored with the Pride of Indiana recognition

Belinda Sanborn, IU School of Medicine Department of Anesthesia, was recently honored with **Pride of Indiana** recognition. Her nominator wrote, "A heartfelt thank you

to Belinda Sanborn, who helped make the transition to MedHub in the Office of Undergraduate Medical Education a reality. Belinda's willingness to help and to go above and beyond with training sessions, one-on-one consultations and conference calls has been amazing. She has shared her experiences, both good and bad, while at the same time listening and incorporating others' ideas into making the product even better. I have never seen someone so willing to help others and so willing to help the IU School of Medicine succeed in its endeavor to bring the Office of Graduate Medical Education and Office of Undergraduate Medical Education together into a single platform. She is truly an inspiration."

Pride of Indiana is a regular Inside IU feature that allows IU faculty and staff to recognize colleagues for IU-related work that goes above and beyond job duties. Submit a [Pride of Indiana nomination](#).

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