



Weekly news for faculty, staff and students from
the **Indiana University School of Medicine**

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August 27, 2015



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Fit Micro Pique
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Aug. 31



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Top News

Neelum Aggarwal, M.D., to present Merritt Lecture on Women’s Health

Neelum Aggarwal, M.D., a population health neurologist and clinical researcher in the field of longevity and aging, will present the annual Doris H. Merritt, M.D., Lectureship in Women’s Health. The annual event is hosted by the Indiana University National Center of Excellence in Women’s Health.

Dr. Aggarwal, who is co-leader of the federally funded Rush Alzheimer’s Disease Center Clinical Core in Chicago and an associate professor in the **Department of Neurological Sciences** at Rush University Medical Center, will present “Menopause or Dementia? Changes in the Female Brain During Perimenopause” at 8:15 a.m. Sept. 9.

The lecture will be in the Walther Hall auditorium, 980 W. Walnut St., Indianapolis, on the Indiana University-Purdue University Indianapolis campus. The lecture is free, but reservations are appreciated by calling 317-948-2264. This activity has been approved for *AMA PRA Category 1 Credit(s)* by Indiana University School of Medicine.

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Alpha Omega Alpha honor medical society elects new members

Each summer, the Indiana chapter of Alpha Omega Alpha Honor Medical Society elects new members. Election to AOA recognizes scholarship, character, service and leadership; and since 1902, more than 150,000 physicians and scientists have joined its ranks. This year, AOA is pleased to announce that the following IU School of Medicine students, faculty, house staff and alumni have been elected to membership in the organization:

MS3 Students

William A. Dotterweich, Weining Du, Alyson A. Endicott, Bryan T. Golubski, Lindsay M. Guzek, Nicholas J. Kamp, Cameron M. Metzger, Rafid Mustafa, Tanav A. Popli, Ryan Puccia, Jonathan D. Ringenberg, Patrick B. Schwartz, Nektarios Vasilottos, Patrick M. Veerkamp

MS4 Students

Aleksander Alavanja, Phillip H. Behrens, Kristin E. Briscoe, Robert A. Cassady, Jeffrey S. Cheesman, David

Chrobak, Alex M. Clem, Ellen E. Cotant, Elizabeth A. Emhardt, Christopher M. Evenson, Ethan L. Ferguson, Brent D. Fiechter, Rebecca C. Gerber, Kathleen E. Gilbert, Cambia S. Green, Holly J. Irwin, Thomas M. Jetmore, Jennifer M. King, Jacquelyn D. Lajiness, Brandt T. Lydon, John S. Mayo, Mitchell R. McClean, Samantha H. Morley, Richard W. Nicolay, Gregory J. Pajot, Priyanka H. Parekh, Parth M. Patel, Andrew C. Pauszek, Geoffrey W. Peitz, Kateryna Petyaykina, Jennifer L. Peugh, Andres S. Piscoya, Nisha K. Raiker, Tennie L. Renkens, Rachel M. Rincker, Eric J. Schafer, Rebecca A. Sorber, Michael A. Trevino, Irene Tsung, Jenna Voirol, Erika L. Weil, Edward J. Westfall, Johnathan Weyhenmeyer, Jennifer Yu

House Staff

Benjamin Gayed, M.D. – General Surgery
Amanda Jensen, M.D. – General Surgery
William D. Kerridge, M.D. – Radiology
Lucas A. McDuffie, M.D. – Surgery
Steven Mong, M.D. – General Surgery
Julie E. Stark, M.D. – Pediatrics – Hem/Onc

Faculty

David A. Halperin, M.D. – Emergency Medicine (SB)
Rakesh P. Mehta, M.D. – Hematology/Oncology
Grzegorz Nalepa, M.D. – Pediatrics – Hem/Onc
Mark F. Seifert, Ph.D. – Anatomy and Cell Biology
Anantha Shekhar, MD, Ph.D. – Psychiatry
Joanne M. Wojcieszek, M.D. – Neurology

Alumni

Jodi L. Skiles, M.D. - Pediatrics

Questions regarding AOA and its service programs on campus should be directed to Richard Gunderman, M.D. Ph.D., secretary-councilor of the Indiana chapter, at rbgunder@iu.edu. To view the full list of 2014/2105 inducted members, visit http://www.alphaomegaalpha.org/new_members_2015.

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AED installation to be complete by Sept. 1

Since Aug. 6, carpenters have been installing 29 new Automated External Defibrillator (AED) cabinets in the 15 IU School of Medicine buildings. This part of the project is scheduled for completion by Aug. 27.

The communications contractor will have all the cabinets ready to be connected to Indiana University Police Department dispatch by Aug. 28. Mark Mowery, Chairman of the AED Committee and Don Gregory, Facilities Operation Manager, will begin installing the defibrillators into the cabinets on Sept. 1. Installation will begin in the research buildings R2, R3 and R4 and will be completed by the end of the day. An **AED tutorial** is available online on the **IUSM Resources page**.

IUSM would like to thank Mark Mowery, Chairman of the AED Committee, and three carpenters: Mike Martt, Mark Bradley and Jeff Smith.

For additional information, please contact Don Gregory at dwgregor@iupui.edu.

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Student Spotlight

Full circle: IUSM student goes from shelter-living to providing shelter medical care

When Nathan Delafield, MS4, took an elective at the Phoenix Children's Hospital providing medical care for homeless and at-risk children and adolescents, he visited UMOM, one of the largest shelters for homeless families in the country -- and a shelter where he'd once lived.

When Delafield was six years old, he and his mother lived at UMOM for six months. Shortly after his stay at the shelter, Delafield entered the foster care system where he remained until he was 18 years old.

Delafield, a Phoenix native, is now in his fourth year at the IU School of Medicine and plans to specialize in internal medicine. When Delafield returned to Arizona to work at the children's hospital, one of his weekly clinics took place at UMOM. As he was driving to the shelter one afternoon, he caught sight of a motel -- a motel where he'd lived with his mother for a nearly a year. He pulled over, got out, took a picture and spent a few minutes processing where he'd come from, where he is now and where he'll go in the future. In that moment, he realized he'd come full circle.

"As I was driving to work one day, I had a vivid flashback of living in this place, and I realized that I had return and revisit those emotions," Delafield said. "So I parked and took a picture of my car and the motel sign, just to symbolize my past experience and where I was headed."

From a young age, Delafield had a love for science and for facing the types of challenges that most people would shy away from. His decision to study medicine came from a desire to be in a field that would continue to challenge him both personally and academically for his entire life. Delafield also recognized a need for improved health care in underprivileged and medically disadvantaged areas. Given his previous life experiences, he couldn't overlook the opportunity to use his skill set to contribute back to the community.

Delafield has learned invaluable lessons in his three years at IUSM. He's learned to meet his patients where they are instead of entering into a situation with preconceived notions about who someone is or what they need. As a high-achieving student in high school and college, he's also found that med school has presented an opportunity for learning and growth unlike anything he'd experienced.

"Medical school has humbled me. It's more challenging than anything I've ever faced in my life, including the social and personal circumstances of my childhood," Delafield said. But, he wouldn't have it any other way.

"I've never been the type of person who's comfortable with taking the easy route," Delafield said. "I'm excited about entering into the field of medicine -- and specifically internal medicine, which is like a continual puzzle and an opportunity to learn. As they say, it's the practice of medicine; you're never truly perfect. I've learned that I'm not perfect, and in my imperfection there's tremendous opportunity to get better."

On Sept. 15, Delafield will begin submitting his applications for residency. On March 18, National Match Day, he'll find out where he'll complete his residency. He's open to going wherever there are medically disadvantaged populations that need care.

What's Delafield up to next? Follow his IU School of Medicine [Tour the Life student blog](#) to keep up with his fourth year.

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Research News

NIH grant funds research into collagen's role in bone fracture resistance

A biomedical engineering researcher at Indiana University-Purdue University Indianapolis has received a \$419,000 National Institutes of Health grant to uncover why mechanical stimulation of bones increases their resistance to fractures.

Discovery of the biological mechanisms behind that would advance research on whether collagen's physical properties in bone can be manipulated to increase fracture resistance in patients suffering from diseases related to bone fragility, said Joseph Wallace, assistant professor of biomedical engineering in the Purdue School of Engineering and Technology at IUPUI.

"We think, based on evidence in the lab, that mechanical loading is beneficial to bone function, but no one really knows how or why," Wallace said. "The question this research is designed to answer is what is happening to drive that on a biological, molecular and cellular level?"

Most people think bones are static, he said. "Nothing could be further from the truth. Bone is one of the most metabolically active tissues in the body. It has the ability to rapidly change its size and shape according to the type of loading it encounters," Wallace said.

Over the past 10 years, researchers have turned their attention to collagen, a protein that exists in bone and other tissues in the body such as muscle, tendons and ligaments, Wallace said. Collagen in bones acts like steel bars in reinforced concrete, enabling bones to be more bendable without cracking.

Under the grant, Wallace will collaborate with IU School of Medicine bone researchers as he seeks to explain the biological mechanisms.

To read more about this research, visit <http://news.iupui.edu/releases/2015/07/research-collagen-bone-fracture.shtml>.

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Regular exercise could slow progression of pulmonary hypertension

A physical therapy researcher with the IU School of Health and Rehabilitation Sciences at Indiana University-Purdue University Indianapolis has been awarded a \$465,000 National Institutes of Health grant to optimize aerobic exercise training for patients with pulmonary arterial hypertension -- a goal that data suggests could reduce patient morbidity and mortality.

Traditionally, it had been thought that these patients, who often struggle to walk across a room or climb a flight of stairs, shouldn't exercise, said Mary Beth Brown, an assistant professor in the Department of Physical Therapy.

"It's only in the last decade that the first evidence came out that exercise may be okay and may even be beneficial," Brown said. "Because it is such a relatively new potential therapy, there is a lot of work that

needs to be done to optimize it, just like with any other new therapy.”

Pulmonary hypertension is high blood pressure that occurs in the arteries in the lungs. Blood vessels that carry blood from the heart to the lungs become narrow, forcing the heart to work harder to pump the blood through. As the pressure builds, the heart's right ventricle must work harder to pump blood through the lungs, eventually causing the heart muscle to weaken and eventually fail.

Regular exercise is expected to help with the exercise intolerance in pulmonary hypertension because exercise is known to reverse or at least ameliorate the inefficient energy metabolism of other diseases, Brown said.

“If we can find an exercise protocol that will improve blood pressure in the lungs, and thus the load on the right heart, in addition to promoting improvement in skeletal muscle and heart metabolism, we could actually slow the progression of the disease,” Brown said.

To read the full news release, visit <http://news.iupui.edu/releases/2015/08/pulmonary-hypertension-research.shtml>.

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Faculty and Staff News

Equity and Inclusion Advocate program reforms hiring practices

The Equity and Inclusion Advocate (EIA) program, now available through the IUPUI Office of Equal Opportunity, is a new resource for faculty and staff to enhance the integrity, effectiveness and diversity in the university’s hiring practices. EIA advocates are faculty and staff members who have been trained as search and selection process experts. To become an EIA advocate, faculty and staff need to complete a two-part workshop series addressing current research about diversity and cognitive bias, the changing legal landscape in hiring, inclusive employment principles, specific steps to strengthen each stage of the search process and effective approaches to participation on search committees in the advocate role. The training sessions are scheduled for Sept. 14 and 21, 12:30 to 4:30 p.m. at Taylor Hall (UC 104). Registration ends Sept. 10. For more information or to enroll in a training session, visit <http://www.iupui.edu/~oeo/>.

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Call for Content: Submit your news, events and RFAs to InScope

Want to share your news in InScope? Submit updates about your research programs, student work, achievements, events, RFAs, partnerships and department happenings to scopemed@iu.edu.

What to include with your submission:

- **Your preferred publication date.** InScope is a weekly newsletter that goes out every Thursday. You’re welcome to submit news ahead of time; just let us know when you’d like it to run.
- **A paragraph or two of draft content.** Please provide a 100-300 word draft of your news item. Not a great writer? Don’t sweat it; the IUSM editorial team will polish your draft and publish the finished

version.

- **A suggested headline.** Have a headline in mind? Submit it with your draft copy! The editorial team may need to tweak your headline for layout purposes, but we'll retain the integrity of your headline.
- **Contact information and hyperlinks.** Please include links to more information about the news item if available as well as phone numbers or email addresses related to your content.

The weekly submission deadline is Wednesday at noon. Any news items submitted after the deadline may be held for inclusion in the following week's issue.

For more information about InScope style guidelines, MedTV submissions and IUSM calendar updates, visit <http://inscope.iu.edu/contact/index.html>.

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Student News

Interprofessional Collaborative Practice grant connects students with diverse practice environments

Now in its third and final year, the interprofessional collaborative practice (IPCP) grant has provided increased partnerships and clinical practice between IU Health, the IU School of Nursing (IUSON) and the IU School of Medicine (IUSM).

Funded by the Health Resources and Services Administration (HRSA) and Nursing Education, Practice, Quality and Retention (NEPQR), the primary goal of this three-year grant project is to cultivate a more open and collaborative environment for medical practice and learning.

Students from IUSM and IUSON have been placed on accountable care units at IU Health Methodist Hospital, with each unit working to cultivate stronger interprofessional collaborative practice environments. In this setting, nursing and medical students have had the opportunity to work with a diverse range of medical care professionals, including collaboration between MS4 students and accelerated nursing students. These student pairings work together to assess patients, develop a care plan, and debrief with IUSM and IUSON faculty. Ann Marie Nelson, M.D. of IUSM will continue work with the grant team to actualize the project's fourth objective, which involves increasing student involvement in interprofessional collaborative practice environments.

The project has four core objectives:

Cultivate interprofessional collaborative practice environments in urban acute medical care settings by refining an existing accountable care unit (ACU) model.

Develop team-based interprofessional collaborative practice environments in community-based primary care settings in rural Indiana locations.

Increase the number of emerging leaders in nursing in selected acute and primary health care settings.

Increase the number of interprofessional education clinical opportunities in interprofessional collaborative practice for nursing and medical students.

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Increased safety and resources for campus bikers

A new bike lane that runs parallel to New York Street will provide a safer ride for campus cyclists. This new lane is part of the street conversion project for New York and Michigan streets.

The new bike lane, now removed from street traffic, will be equipped with solar lighting for increased safety for night riders. Indoor bike parking facilities are available at Hine Hall and bicycle maintenance stations are available near the Campus Center, the south end of the School of Public Environmental Affairs and the east side of Hine Hall.

Resources for campus cyclists

Bike IUPUI: Register your bike, learn where to park your bike, view a list of pre-ride safety checks, view a list of cycling safety tips, report a stolen bike, read the campus cycling policy

Office of Sustainability: Information about Indoor bike parking at Hine Hall, location of bicycle maintenance stations, bike safety tips, bike rack locations

Pacers Bikeshare Locations and JagTag Discount: Campus Bikeshare locations, JagTag discounts, annual Bikeshare memberships

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Opportunities

Applications for molecular therapeutics program due Oct. 1

The Molecular Therapeutics Program (MTP), a part of the Indiana Clinical and Translational Sciences Institute (Indiana CTSI) has established a new grant to support ADME-toxicology studies of interesting lead compounds through the covance and quintiles agreements. The services will support early-stage drug development studies within CTSI partners, Indiana University, Purdue University and the University of Notre Dame.

Grants will support a list of drug development services available through the Indiana CTSI covance/quintiles alliance that includes:

- Ames toxicity screening
- Oral gavage pilot toxicity study
- Toxicity and toxicokinetic study

- hERG
- Screening package (membrane permeability and P-group assessment, metabolic stability and Rat PK)
- Membrane permeability and P-group assessment
- Metabolic stability
- Rat PK
- Rat cassette PK
- Dose formulation optimization

Critical research proposal feedback will be provided from a team of experienced industry and academic experts within the internal advisory committee as well as through ad hoc, project-specific pharmaceutical expert reviewers.

The deadline for applications is **5 p.m. Thursday, Oct. 1**. Complete guidelines and application forms available for download from the [Indiana CTSI grants portal](#). Applicants must log in using their institutional username and password. Application instructions are under "Drug Development Services through the Molecular Therapeutics Program (MTP)-2015.10."

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SRPinAM poster session takes place Sept. 3

The Student Research Program in Academic Medicine (SRPinAM) Poster Session will be held in the Mills Atrium of the Medical Science Building on Thursday, Sept. 3 from 2:30 to 5:30 p.m. During a 12-week summer course leading up the their second year of med school, 46 first-year students conducted research at IUSM with the help of an IUSM faculty principal investigator. The upcoming poster session will honor the nine awardees from the SRPinAM Oral Presentation Competition held on July 30 and 31. This is an excellent opportunity for MS1 students to see what level of research can be accomplished by students who were in their shoes just one year ago. For more information, contact Jose Espada at jespada@iupui.edu.

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