



UPCOMING EVENTS

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## A MESSAGE FROM GARY M. POLLACK



February 2018

Dear Friends and Colleagues:

We often discuss with students the potential changes that might affect the way they practice or approach research during their working lifetimes (presumably several decades). In a recent essay, Thomas L. Friedman discusses the potential impact of quantum computing on a variety of industries. It is noteworthy that the time horizon for many of the changes that might be heralded by the ready availability of quantum computing is just approximately 10 years; it appears that quantum computing is developing so rapidly that current students will be impacted during the early launching phase of their careers.

What are some of the industries that might be impacted by quantum computing? In addition to self-driving delivery trucks (something that was accomplished nearly two years ago), some of the examples cited by Friedman include automated grocery stores (Amazon), full-service branch banking without bankers (Bank of America), and computational chemistry in the drug discovery process. It is easy to imagine teams of synthetic organic chemists (and computational chemists, for that matter) being replaced by quantum computing techniques that are five orders of magnitude faster than current processors can accomplish. It is also imaginable that services provided by pharmacy practitioners being “outsourced” to cloud-based quantum computers.

The near-term future state described by Friedman and others presents obvious challenges for students in pharmacy and the pharmaceutical sciences; by extension, those challenges are presented to those of us who educate them. What are the value-added elements that can be provided only by the health care practitioner or scientist, as opposed to a computational construct? What pedagogical and mentoring approaches can we take to assure that we are strengthening our students’ capabilities in the context of those elements? How do we prepare our students to “collaborate” with artificial intelligence when we do not yet understand what the AI component might look like? Are we prepared to move away from emphasizing mastery of 20th-century skills in what appears to be a rapidly-approaching 22nd-century world?

These are the types of topics that we wish to explore with colleagues from around the country at our annual TIPed Institute. Informal gatherings of educators from different institutions, with differing perspectives and experiences, are of enormous value in developing a vision for the future and devising strategies to implement that vision. We are looking forward to a continuing dialog focused on the opportunities and challenges facing contemporary pharmacy and pharmaceutical sciences education. (Although not mentioned by Friedman, it is not difficult to imagine “deep-learning” technologies allowing quantum-based computing to replace some of the services provided by the education sector.)

We invite our partners in academia to join us June 12-14 to foster the transformation and innovation of pharmacy education. Registration and further details can be found on our website [pharmacy.wsu.edu/TIPed](http://pharmacy.wsu.edu/TIPed).

Best wishes,



Gary M. Pollack  
Dean, College of Pharmacy  
Washington State University



## UPCOMING EVENTS



**WSUAA Skate Night**  
Riverfront Park  
Spokane, Wash.



**Allen I. White Lecture**  
12:00 p.m.  
Spokane, Wash.



**CougaRx Nation  
Reception at APhA**  
Nashville, Tenn.



**R. Keith Campbell  
Celebration of Life**  
Spokane, Wash.

[More college events >>](#)

## COLLEGE NEWS

### Post-graduate fellowship in pharmacy focuses on teaching in higher education

SPOKANE, Wash.—The Washington State University College of Pharmacy is dedicated to preparing outstanding health care professionals and scientists. As part of its mission to develop practice-ready graduates who are ready to step into the evolving health care landscape and lead tomorrow's health care solutions, the college is also making efforts to develop the next generation of pharmacy educators. This is why in 2016 the college began a post-graduate teaching fellows program focused on pharmacy education.



“This fellowship program is just one of the many innovative things we are implementing within the College of Pharmacy to improve pharmacy education here at WSU,” says Connie Remsberg, director of the Center for Teaching and Learning Excellence at the WSU College of Pharmacy.

The program accommodates two fellows, one in Spokane and one in Yakima, each completing a two-year fellowship. The program prepares fellows for a potential career in pharmacy education in a Doctor of Pharmacy program through a mentored experience in teaching, professional development, and scholarship. The fellowship program is open to applicants with a Pharm.D. degree or equivalent degree (Ph.D., M.D., Ed.D.). The current application period runs through March 31, 2017. Full details and how to apply are listed [here](#).

Curriculum innovation with the College of Pharmacy is just one example of how Washington State University offers a transformative educational experience to undergraduate and graduate students. The Pharmacy Teaching Fellows Program ensures there will be thought leaders and advocates for curriculum innovation within the next generation of pharmacy educators.

### **WSU prof takes on national leadership role in diabetes**

Washington State University’s Joshua Neumiller was named chairperson of the Professional Practice Committee for the American Diabetes Association (ADA). He will be leading the committee’s work to incorporate new clinical research findings into the Standards of Medical Care in Diabetes.

“I am very excited and honored to continue to be involved with this committee that actively revises the ADA Standards of Medical Care in Diabetes each year,” Neumiller said.

Neumiller’s appointment will run from January 1, 2018, through December 31, 2019. He was offered the chair position by the ADA in December based on his exceptional reputation as a leader in clinical practice and research in the field of diabetes.



*Neumiller*

Neumiller also currently serves as editor-in-chief of the journal Diabetes Spectrum which is published by the ADA, serves as a member of the ADA’s Standards of Care committee, and holds national and international standing in the diabetes community. In 2016, he received the Albert B. Prescott Leadership Award from the Pharmacy Leadership and Education Institute.

Neumiller is a WSU alumnus. He is also an associate professor and vice-chair for the Department of Pharmacotherapy at the WSU College of Pharmacy. He is a certified diabetes educator and a fellow of the American Society of Consultant Pharmacists.

“Josh is not just a member of the committee but he is the leader of the entire Standards of Care,” Pharmacotherapy Chair John White said. “The ADA Standards are one of the most influential, cited, and clinically utilized documents in medicine. They cover not just medication but all aspects of diabetes care.”

According to White, the standards potentially impact the care of some 30 million Americans and is widely used world-wide.

Based in Arlington, VA, the ADA is a national non-profit organization with a mission to prevent and cure diabetes and to improve the lives of all people affected by diabetes. The Professional Practice Committee is a multidisciplinary expert committee comprised of physicians, diabetes educators, registered dietitians, and others who have expertise in a range of areas.

## Pharmacy program fills three vacancies in experiential education

The Washington State University College of Pharmacy has hired three new people to support and develop the experiential education portion of its Doctor of Pharmacy program. These positions coordinate and oversee the introductory and advanced pharmacy practice experiences offered to WSU student pharmacists across the states of Washington, Oregon and Northern California, and internationally.

The College of Pharmacy is committed to providing a high-quality and transformative educational experience for its students. Experiential education is essential to developing practice-ready graduates who are prepared to deliver innovative and patient-centered care as part of a health care team.

**Anjie Bertramson** has joined the college as the new director of experiential services. Bertramson previously served as lead advisor and faculty-led coordinator within the Office of International Programs at WSU in Pullman for six years. In that role, she assisted with some of the international pharmacy rotations offered to student pharmacists in previous years. Bertramson served as a small business development volunteer for the Peace Corps, and then briefly worked in the insurance industry before joining International Programs at WSU. She has a bachelor's degree in international business from WSU and holds a certificate of global competency from the WSU Honors College. She also spent time as an exchange student at the Copenhagen Business School in Denmark.



*Bertramson*

“Her vision for our experiential services is impressive. I am looking forward to what our new team will accomplish to improve student support and outreach to our preceptor group,” Pharmacy Dean Gary Pollack said.

**Beth Spinner** joined the college as a program assistant for experiential services. She has 30 years of experience in customer service, business, education, and administration. Her background includes higher education, long term care, and business industry. Spinner owned her own business as a massage therapist in California, worked as a licensed realtor, and as a manager licensed in life, accident and health for Aflac in New York. Spinner worked previously in student services at The College of New Rochelle in New Rochelle, New York.



*Spinner*

**Genesis Dashiell** is also a new program assistant. Dashiell has over 19 years of experience in pharmacy practice settings. Starting as a pharmacy technician for Safeway in Sandpoint, Idaho, she has worked in both retail and hospital environments. Dashiell comes to WSU from Safeway/Albertsons where she served at the corporate level managing pharmacy scheduling which included over 70 locations in Washington and Northern Idaho.

“Beth and Genesis are both extremely qualified and come to us with important skill-sets to provide excellent service to students, faculty and preceptors within the experiential services office,” Pharmacotherapy Vice-Chair Joshua Neumiller said.

Bertramson joined the college on January 16, Spinner and Dashiell were hired in late December.

In the final year of pharmacy school, students complete six practice rotations (referred to as Advanced Pharmacy Practice Experiences, or



*Dashiell*

APPEs) in a variety of patient care settings. During these immersive rotations, student pharmacists are involved in the direct care of patients. A seventh rotation is optional and international rotations are available. The experiential services team at the college coordinates student placements at the practice sites and provides support to supervising pharmacists who serve as preceptors for students in experiential settings. This essential piece of the Doctor of Pharmacy program supports its mission to advance human health through collaborative clinical education and to develop outstanding health care professionals and scientists.



Take our Communications  
Needs Assessment Survey!

Start Survey

A MESSAGE FROM  
LINDA GARRELTS MACLEAN



Dear Alums, Colleagues and Friends of Pharmacy,

A new calendar year has begun, and this time of year is always an exciting time as we host aspiring future pharmacists on campus for admission interviews! It is refreshing to meet and interact with so many energetic prospective students.

I am very pleased to announce that Richard Okita, Ph.D., will be the Allen I. White Distinguished Lecturer for our spring event. Prior to Dick's career as a program director in the NIH Division of Pharmacology, Physiology and Biological Chemistry, Dick was one of us! He was associate chair of the department of pharmaceutical sciences with our College of Pharmacy and a professor of pharmaceutical sciences for 11 years. I know many of you benefited from his skill in the classroom and mentorship in the lab!

The Allen I. White endowed fund was established in 1979 by family, friends and colleagues in memory of Dr. Allen I. White, who served as professor at the College of Pharmacy from 1940 to 1979, and as dean from 1960 to 1979. Dean White would have been proud to have Dick back on campus! The culture of mentorship that Dean White provided for so many of us continues as Dr. Okita will have the chance to meet with our Ph.D. and Pharm.D. candidates.

This year, the Allen I. White Lecture will be Tuesday, March 13, 2018, from 12-1 p.m. in the Walgreen's Auditorium at the Pharmaceutical and Biomedical Sciences Building. A reception will follow.

Please join us for this event! And, should any of you want to share thoughts about how Dean White impacted your professional journey, please write to us at [gocougs@pharmacy.wsu.edu](mailto:gocougs@pharmacy.wsu.edu).

I also wanted to give you a quick update on our plans to celebrate the life of WSU Professor Emeritus R. Keith Campbell. I hope you can join us Saturday, April 21, 2018, in Spokane as we honor, celebrate

and remember the uncountable ways he impacted the profession of pharmacy and the lives of so many students, friends and colleagues.

Saturday, April 21, 2018

11:00 a.m. to 1:00 p.m. - Open House, R. Keith Campbell Applied Patient Care Laboratory

2:00 p.m. - Memorial service

3:30 p.m. to 7:00 p.m. - "Celebration of Life" in the Grand Ballroom at the Doubletree Hotel, featuring live music, sharing of memories, and the type of comradery that Keith would have wanted!

CougaRx Nation strong,



Linda Garrelts MacLean, BPharm, RPh  
Vice Dean of External Relations  
Clinical Professor

## ALUMNI NEWS



### PHARM.D. SPOTLIGHT

Two student pharmacists placed fourth in the national skills competition at the ASHP Midyear Clinical Meeting in December.

[Full story on page 7 »](#)



### PH.D. SPOTLIGHT

Incoming Ph.D. student, Dana Walters, was recently highlighted in the Spokesman Review for his climbing trip in Mexico.

[View article »](#)



### CELEBRATION OF LIFE

The WSU College of Pharmacy will celebrate the life of late WSU Professor Emeritus R. Keith Campbell on Saturday, April 21, 2018.

[Full story on page 8 »](#)

## ALUMNI UPDATES

- Glen Schumock, class of 1987, has been named the new dean of the University of Illinois at Chicago College of Pharmacy. Congratulations Glen! [Read more »](#)

Since February marks the month that Cupid shoots his famous arrow, we wanted to spotlight a few pharmacy couples:

- Lindsey (Schaffer) Hippe, class of 2014, and her husband Scott Hippe checked in from their new home in Boise, Idaho. Lindsey is currently working as a critical care pharmacist at St. Luke's Hospital in Boise while Scott completes his medical residency with Family Medicine Residency of Idaho. They both love their community and think Boise is "pretty incredible!" Scott and Lindsey met while they were students at WSU Spokane and were married last year. Congratulations! [View photo »](#)
- John, class of 1968, and Claudia Swenson were engaged between pharmacy classes in College Hall! They will celebrate their 50th wedding anniversary as well as their Golden Grad reunion this year, which they are helping organize. John and Claudia remain busy and active in their careers and community. John is working part time as a pharmacist at Central Washington Hospital and also at independent pharmacies in Tonasket and Brewster. Claudia spent 20 years at Group Health Cooperative and eight years at Madigan Family Medicine Residency. She was recently named the new coordinator for the Tender Loving Care (TLC) for Seniors program in the Chelan/Manson area. In this position she meets with seniors to document their goals/needs and pairs them with a compatible volunteer. In addition, John and Claudia serve on the WSU Foundation Board of Trustees and are mentors to current pharmacy students. [View photo »](#)
- Andrew, class of 2010, and Ashley Harbison, class of 2011, have been married six years. They were married in June 2011 just after Ashley graduated from the WSU College of Pharmacy and Andrew was finishing up his PGY1 residency at Providence Sacred Heart. They are currently living in Gig Harbor, Washington, with their two daughters Emily, who is three years old, and Brynn, who is seven months old. Ashley is working at Kaiser Permanente in Silverdale and Andrew is working at CHI Franciscan Harrison Medical Center in Bremerton. [View photo »](#)

Want to be listed in our alumni updates? Send us your career information or let us know what you've been up to! [gocougs@pharmacy.wsu.edu](mailto:gocougs@pharmacy.wsu.edu)

## WSU student pharmacists place fourth in national skills competition

Shauna Leggett and Haleigh Miller are crushing it when it comes to their plans to become pharmacists.

Leggett and Miller, both in the class of 2018, are Washington State University students in the Doctor of Pharmacy program. This last December, they participated in a national pharmacy clinical skills competition organized by the American Society of Health-System Pharmacists (ASHP).

As part of the ASHP Midyear Clinical Meeting and Exhibition in Orlando, Florida, the skills competition provides student pharmacists the opportunity to develop and practice collaborative patient care as part of a health care team. Student pharmacists work through scenarios for hospital and health-system based pharmacists.

"We were initially apprehensive," Leggett said. "Neither of us had competed in prior years. When we got to the national competition and realized we had a good idea of how to approach the case, it was exciting. The curriculum at WSU and our rotation experience during fourth year prepared us very well, which reflects well on our educational experience!"

There were 135 teams from across the country who participated. The WSU duo placed fourth overall and each received an iPad as a prize for being in the top 10 finalists.

"We are so proud of Shauna and Haleigh and how they represented the college at this event," Vice-Dean Linda Garrelts MacLean said.

Shauna Leggett is from West Richland, Washington, and completed her undergraduate coursework at Whitworth University in Spokane. After graduation, she plans to apply for a pharmacy residency in order to work as a hospital pharmacist. Leggett hopes to stay in the Pacific Northwest and work in a community hospital.

Haleigh Miller is from Spokane, Washington, and completed her undergraduate coursework at WSU. In addition to pharmacy school, Miller has worked as an intern at Providence Holy Family Hospital since 2015. After graduation she also plans to complete a post-graduate residency in acute care.

“I really enjoy acute care because pharmacists get to work directly with other healthcare professionals and utilize their clinical knowledge to improve patient care,” Miller said. “My favorite part of the ASHP clinical skills competition was getting to apply the knowledge that I have gained.”

Providing these types of opportunities for students to engage and gain recognition nationally is an example of how the WSU College of Pharmacy is dedicated to advancing human health through clinical education in its Doctor of Pharmacy program, and its commitment to developing outstanding health care professionals and scientists.

### **College of Pharmacy celebrates life of former professor**

SPOKANE, Wash.-The Washington State University College of Pharmacy will celebrate the life of former WSU Professor Emeritus R. Keith Campbell on Saturday, April 21, 2018, at 2:00 p.m.

The memorial service and celebration of life will be held at the DoubleTree Hotel Grand Ballroom, 322 N. Spokane Falls Court, in Spokane, Washington. All are welcome to attend.

Campbell passed away on Saturday, November 11, 2017, while attending the Washington State Pharmacy Association Annual Meeting in Centralia, Washington. He was 76.

“There is not a corner of the CougaRx Nation and pharmacy community that Keith did not impact in some way through his teaching, mentorship, leadership, and friendship,” Dean Gary M. Pollack said in a statement released in November.

Campbell grew up in Spokane Valley, Washington, and was a WSU graduate. He served over 45 years at the WSU College of Pharmacy in a variety of roles, including program administrator, professor, director, student advisor, and several years as associate dean of student services.

Outside the classroom he developed numerous unique live and self-study programs about the management of chronic diseases, such as Type 1 diabetes. His list of professional accomplishments and awards is remarkable, and illustrates the profound impact he has made, both at WSU and on the pharmacy profession as a whole.

In 2017, the college honored Campbell by naming its Lifetime Achievement Award after him. Also as part of the inaugural Crimson Gala last year, alumni and friends of the college raised money to name the applied patient care laboratory in the Pharmaceutical and Biomedical Sciences Building in his honor.

Campbell’s full obituary is available online at [https://dnews.com/obituaries/obituary-riley-keith-campbell-of-pullman/article\\_8574ccdc-0219-5f45-b149-0b102e9f8525.html](https://dnews.com/obituaries/obituary-riley-keith-campbell-of-pullman/article_8574ccdc-0219-5f45-b149-0b102e9f8525.html).

For those who would like to share stories, photos, memories, condolences, and well wishes, please feel free to post them to the Facebook page, Remembering Keith, at <https://fb.me/rememberingRKC>.



## FACULTY SCHOLARSHIP

### Publications

- Pharmaceutical Sciences Assistant Professor **Shobhan Gaddameedhi** and one co-author published, “UV-B induced erythema in human skin: the circadian clock is ticking,” in the Journal of Investigative Dermatology. [Read article](#) »
- Pharmacotherapy Clinical Assistant Professor (Yakima) **Dana R. Bowers** and four co-authors published, “Overtreatment of asymptomatic candiduria among hospitalized patients: a multiinstitutional study,” in the November 6 issue of Antimicrobial Agents and Chemotherapy. [Read article](#) »
- Pharmacotherapy Associate Professor **Joshua J. Neumiller** and two co-authors published, “Will canagliflozin lend credence to the potential effects of sodium-glucose co-transporter 2 inhibitors on renal endpoints in diabetic nephropathy,” in the American Journal of Nephrology, the peer-reviewed journal of the American Society of Nephrology (2017;46:459-461).
- **Joshua Neumiller** published the online article, “Longer-acting basal insulin analogs: what, how, why, when, and who?” available at [Medicine Matters Diabetes](#).
- Pharmacotherapy Professor **Tracy L. Skaer** co-authored with five others, “Development of a multi-family group and mindfulness treatment for chronic pain: preliminary outcomes,” in the Journal of Musculoskeletal Disorders and Treatment [2017; 3(4)]. [Read article](#) »
- Pharmacotherapy Professor and Associate Dean for External Professional and Continuing Education **Danial E. Baker** published the formulary drug review, “Betrixaban,” in the independent, peer-reviewed journal Hospital Pharmacy in November 2017 (DOI: 10.1177/0018578717739397).
- Pharmacotherapy Clinical Professor **Terri L. Levien** and **Danial Baker** published the formulary drug review, “Glecaprevir/pibrentasvir,” in the journal Hospital Pharmacy in December 2017 (DOI: 10.1177/0018578717746417).
- **Danial Baker** and one co-author published the formulary drug review, “Edaravone,” in the journal Hospital Pharmacy in October 2017 (DOI: 10.1177/0018578717734877).
- **Danial Baker** and one co-author published the formulary drug review, “Ocrelizumab,” in the journal Hospital Pharmacy in October 2017 (DOI: 10.1177/0018578717731733).
- **Joshua Neumiller** and Pharmacotherapy Clinical Professor **Brian J. Gates** co-authored with 14 others, “Medication therapy management after hospitalization in CKD: a randomized clinical trial,” in the Clinical Journal of the American Society of Nephrology, a peer-reviewed publication from the American Society of Nephrology, in January 2018 (DOI: 10.2215/CJN.06790617).
- R. Keith Campbell Distinguished Professor in Diabetes Care and Pharmacotherapy Chair **John R. White Jr.** published, “Sugar,” in the American Diabetes Association journal Clinical Diabetes in January 2018. [Read article](#) »
- Pharmaceutical Sciences Research Associate **Eugene Y. Kim**, Pharmaceutical Sciences Associate Professor **Salah-uddin Ahmed** and two co-authors published, “Syndecans in chronic inflammatory and autoimmune diseases: pathological insights and therapeutic opportunities,” in the Journal of Cellular Physiology, a peer-reviewed journal in physiology and pharmacology. (J Cell Physiol. 2017 Dec 11. doi: 10.1002/jcp.26388)

- Pharmaceutical Sciences Associate Professor **David X. Liu**, **Eugene Kim**, Pharmaceutical Sciences Research Technologist **Yidi Xu** and eight co-authors published, “SUMO2/3 modification of activating transcription factor 5 (ATF5) controls its dynamic translocation at the centrosome,” in the Journal of Biological Chemistry, a peer-reviewed publication from the American Society for Biochemistry and Molecular Biology, on January 11, 2018. [Read article »](#)

## Presentations

- **Joshua Neumiller** presented, “Concentrated insulins,” at the 2017 Diabetes Update: High Impact Management for Clinicians at Touro University in Vallejo, Calif., on November 5, 2017.
- **John White** presented, “Review of anti-hyperglycemic medications and dose adjustments in CKD,” at the American Society of Nephrology Kidney Week, October 31-November 5, 2017, in New Orleans, La.
- Pharmacotherapy Clinical Assistant Professor **Cheyenne Newsome** and one co-presenter delivered, “TRANSitioning Pharmacy Practice to meet the needs of the gender revolution,” at the American Society of Health-System Pharmacists (ASHP) Midyear Clinical Meeting December 3-7, 2017, in Orlando, Fla.
- **Cheyenne Newsome** and three co-authors presented the poster, “National survey of pharmacy residencies’ statistical training practices,” at the ASHP Midyear Clinical Meeting December 3- 7, 2017, in Orlando, Fla.
- **Joshua Neumiller** and one co-presenter delivered the web-based CME program, “The role of the pharmacist in T2D: the evolution of insulin therapy,” available at: <https://cmecorner.realcme.com/cms/node/851024>.
- **Joshua Neumiller** and one co-presenter delivered the webinar, “2018 ADA Standards of Medical Care in Diabetes,” for the American Association of Diabetes Educators (AADE) on January 25, 2018.

## Service

- **Joshua Neumiller** has been named the Allen I. White Distinguished Associate Professor at the WSU College of Pharmacy. The Allen I. White endowed professorship was established in memory of Dr. Allen I. White, professor of pharmaceutical chemistry from 1940 to 1979 and dean of the college from 1960 to 1979. White believed, taught and modeled that pharmacists are not just health care professionals but leaders with responsibilities to their profession and to society. Candidates for the professorship are expected to have an established area of research in which they have demonstrated expertise and productivity. Appointment to the professorship is consistent with guidelines established by the college and Washington State University.
- **John White** has been named the R. Keith Campbell Distinguished Professor in Diabetes Care at the WSU College of Pharmacy. The R. Keith Campbell Endowed Professorship was created by the college to honor Professor Emeritus R. Keith Campbell. Campbell was an international leader in the field of diabetes education. Among his numerous honors, he was named the Outstanding Health Care Educator in the Field of Diabetes in the U.S. by the American Diabetes Association in 1989, and the Outstanding Pharmacy Administration Professor in the U.S. by the National Association of Retail Druggist in 1990. Additionally in 1990, he was given the Distinguished Service Award by the American Association of Diabetes Educators.
- **Joshua Neumiller** served on the American Diabetes Association (ADA) Professional Practice Committee (PPC) during 2017. The primary responsibility of the PPC is to update the ADA’s

Standards of Medical Care and Diabetes each year. The 2018 Standards of Medical Care in Diabetes were published on December 8, 2017.

- **Tracy Skaer** was appointed to the editorial board of the journal Clinical Drug Investigation published by Adis, Springer International.
- **Cheyenne Newsome** was appointed to the editorial advisory board of the journal Diabetes Spectrum, a peer-reviewed publication from the American Diabetes Association.
- Pharmacotherapy Assistant Clinical Professor **Julie Akers** was interviewed by KREM2 News on the process of opioid addiction dangers and how to dispose of prescriptions properly.
- Pharmacotherapy Assistant Clinical Professor **Kimberly McKeirnan** was selected to be part of the 2018-19 Institute of Translational Health Science (ITHS) Translational Research Scholars Program.

## Grants

- Pharmaceutical Sciences Associate Professor **Mary F. Paine** received an administrative supplement in the amount of \$151,564 over one year for the NIH U54 project, “Natural product-drug interaction research: the roadmap to best practices.”
- **Kimberly McKeirnan**, **Julie Akers** and Pharmacotherapy Research Resident in Medication Optimization **Kyle Frazier** received \$82,016 over 15 months from Cardinal Health for the project, “Cardinal in power home visit pilot project.”
- Pharmaceutical Sciences Assistant Professor **Boyang (Jason) Wu** received \$226,719 over two years from the Department of Defense under the Prostate Cancer Research Program for the project, “Targeting neuromimicry in prostate cancer metastasis.”

## STUDENT ACHIEVEMENT

### Doctor of Philosophy (Ph.D) students

- **Soumyadeep Sarkar** (pharmaceutical sciences, Gaddameedhi lab) with faculty co-author **Shobhan Gaddameedhi** published, “UV-B induced erythema in human skin: the circadian clock is ticking,” in the Journal of Investigative Dermatology.
- **Xutong Catherine Shi** (pharmaceutical sciences, Z. Wang lab) presented, “Nanoparticle targeting of neutrophils improves cancer therapy,” as part of the WSU College of Pharmacy Graduate Research Seminar Series on January 19, 2017, in Spokane, Wash.
- **Solomon A. Agere** (pharmaceutical sciences, Ahmed lab) with co-authors **Eugene Y. Kim**, **Nahid Akhtar** and **Salah-uddin Ahmed** published, “Syndecans in chronic inflammatory and autoimmune diseases: pathological insights and therapeutic opportunities,” in Journal of Cellular Physiology, a peer-reviewed journal in physiology and pharmacology. (J Cell Physiol. 2017 Dec 11. doi: 10.1002/jcp.26388)
- **Shannon Kozlovich** (pharmaceutical sciences, Lazarus lab) presented, “The impact of genotype and tobacco additives on the detoxification pathway of NNAL, a potent tobacco carcinogen,” for the research group of Dr. Neal Benowitz at the University of California San Francisco on January 18, 2018.

- **Kari Gaither** (pharmaceutical sciences, Liu lab) with co-authors **David X. Liu, Eugene Kim, Yidi Xu** and eight co-authors published, “SUMO2/3 modification of activating transcription factor 5 (ATF5) controls its dynamic translocation at the centrosome,” in the Journal of Biological Chemistry January 11, 2018. [Read article »](#)
- **Shannon Kozlovich** in her role as director of legislative affairs for the Associated Students of Washington State University Spokane, represented the WSU Health Sciences campus with five other Spokane-based students at the Cougar Day at the Capitol event in Olympia, Wash. on January 22, 2018. The event connected students with 103 legislators from around the state to discuss student-related issues and lobby for bills that seek to make college more affordable and accessible for students all over our state.

## Doctor of Pharmacy (Pharm.D.) students

- The Washington State Pharmacy Association Patient Advocacy team at WSU put on a toy drive over the holiday season. They were able to donate almost 200 items to the Shriners Hospital for Children. [View photo »](#)

## JOBS

- Clinical Assistant Professor: Pharmacotherapy, Providence Sacred Heart Medical Center
- Clinical Assistant Professor: Pharmacotherapy, Providence St. Peter Hospital Olympia
- Clinical Assistant Professor: Pharmacotherapy, Virginia Mason Memorial Hospital
- Clinical Assistant Professor: Pharmacotherapy, WSU Spokane
- Clinical Assistant Professor: Pharmacotherapy, WSU Spokane



*College of*

# Pharmacy and Pharmaceutical Sciences

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Washington State University  
College of Pharmacy and Pharmaceutical Sciences  
PO Box 1495, Spokane, WA 99201  
[www.pharmacy.wsu.edu](http://www.pharmacy.wsu.edu)