

*Editor's note: This is the final newsletter for the 2020 calendar year.  
The next CougarRx News will be published in February 2021. Happy Holidays!*

**December 2020**

## MESSAGE FROM THE DEAN

Dear Friends and Colleagues,

We are in the final stretch of 2020, which makes me reflect on this incredibly tumultuous year. Though we have all had to make sacrifices this year for the health and safety of our loved ones, and our community as a whole, the silver lining to this difficult year has been a newfound appreciation for the simpler things in life.



Along with being grateful, I'm also proud of what we have accomplished despite a challenging year. From the onset of this pandemic, our goal was to keep our students on track with their education. Though seemingly simple, it required a lot of dogged determination and thinking outside of the box. Rearranging schedules, an all-hands-on-deck approach, and a lot of early planning ensured our students continued to progress in our program. With the clarity of hindsight, I'm even more confident that we played our cards right. Thank you, students, faculty and staff, for pulling together during these difficult times. Your quick thinking and swift actions helped move our college to virtual instruction in a week as the rest of the world began shutting down borders, businesses, and everything in between.

Even amid these difficult circumstances, in 2020 we still managed to have big wins. We safely trained our students so that they could receive their certification to vaccinate, enhanced our PharmD program with several [dual degrees and certificates in business, engineering and communications](#), and awarded 285 scholarships totaling nearly \$340,000 this calendar year. I'm proud that we can continue to offer our students one of the best PharmD programs on the West Coast, and certainly the most affordable.

With this season's festivities, also comes much sorrow. As many of you may know by now, we lost two of the most beloved titans in the Washington state pharmacy community. [Bert Porter \(class of 1951\)](#) and [Bill Gaskins \(class of 1969\)](#) passed away weeks apart in November. Both were alumni of our college and lifelong contributors to our students and the pharmacy profession as a whole. Since learning this sad news, we have received an outpouring of messages from alumni and colleagues on how these two men have impacted hundreds, if not thousands, of lives through their mentorship, community activism and friendships. To honor their legacy, you can view their [scholarship funds here](#).

With 2020 coming to a close, I hope you will have a chance to reconnect with loved ones (even if virtually), take a mental break from the chaos of this year, and remember to appreciate the simple things in life. One of the things that I am truly appreciative of is being able to reconnect with many of our alumni. The upside to this pandemic has been the ability to meet with alumni near and far at the click of a button. In recent weeks I have attended five "fireside chats" with the classes of 1965, 1976, 2000, 2010, and 2015. Thank you, John Oftebro '65, Sue Merk '76, Sarah Beatty-VanDeMark '76, Julie Akers '00, Manpreet Chahal '10, Connie Remsberg '10, Dalari Allington '10, Amanda Norman '15 and Jennifer Miller '15 for organizing these reunions as an opportunity for our alumni to get reacquainted and reconnect with the college. If you would like to organize a "fireside chat" (fireside not required—but I do have a pretty snappy virtual fireplace on Zoom), please don't hesitate to reach out to [Director of Development and Alumni Relations Kelly Sylvester](#). It has been a joy to hear what all our alumni have been up to and where our paths have

crossed. For example, I learned during a chat last week that Dalari Allington (class of 2010) is Director of Pharmacy at Providence St. Mary Medical Center in Walla Walla, where I worked as a hospital pharmacist in 1984-85. I'm hoping that my classmates from 1983 will organize one of these chats so that we can all reconnect!

From our Cougar family to yours, wishing you all a warm, happy and healthy holiday.



Mark Leid, Professor and Dean  
WSU College of Pharmacy and Pharmaceutical Sciences

## Top Stories

### WSU and Columbia Basin College set new path for pharmacy students

Students in the Tri-Cities area can now complete pre-requisite courses for the WSU Doctor of Pharmacy program at the cost of attending CBC. In a collaboration between Columbia Basin College (CBC) and Washington State University (WSU), students who complete the approved transferable Associate of Science-Transfer (AS-T) degree will be eligible for admissions into the WSU Doctor of Pharmacy program.



Yakima Valley

“As someone who grew up not too far from Tri-Cities, I’m proud that we can now offer students new opportunities and career pathways that did not exist before. This new collaboration fulfills WSU’s mission as a land-grant university, which is rooted in accessibility and public service,” said Dean of the WSU College of Pharmacy and Pharmaceutical Sciences Mark Leid.

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The new pathway hopes to return health care workers to rural and underserved communities in the state, where health care services are in high demand, but often not easily accessible. Through the WSU-CBC collaboration, students benefit by saving on costs and completing their degree in minimal time. Following the completion of their AS-T degree, student will be eligible to pursue the WSU Doctor of Pharmacy program located on the WSU Health Sciences Spokane campus and the Pacific Northwest University campus in Yakima Valley.

Students who have attended the WSU Doctor of Pharmacy program following the completion of their Associate of Science-Transfer degree have shown the same success as their cohorts in completing their advanced degrees and finding successful careers in pharmacy.

“CBC is proud to partner with the WSU College of Pharmacy and Pharmaceutical Sciences to give our students a streamlined path to a rewarding pharmaceutical career. This new AS-T degree prepares our students to apply directly to the WSU Doctor of Pharmacy program. Given WSU’s presence in Terrace Heights, just up the road in the Yakima Valley, our partnership allows aspiring local pharmacists to achieve their dream while staying close to home,” said Dr. Rebekah Woods, President, Columbia Basin College.

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The Doctor of Pharmacy does not require a bachelor's degree but does require prerequisites. To assist students interested in the WSU Doctor of Pharmacy program, the college will hold regular webinar sessions throughout the year with personalized advising sessions on fulfilling pre-requisites for admission. Interested students can find [virtual sessions here](#).

## Native American Heritage Month Spotlight

*November is Native American Heritage Month and it is a time for us to celebrate the rich and diverse cultures, traditions and histories of our First Americans and honor their important contributions to the community. First-year student pharmacist Estebon Hughes of the Spokane tribe shares some of the driving forces as to why he chose to work in health care and become a pharmacist.*



First-year student pharmacist, Estebon Hughes of the Spokane tribe, poses for his white coat photo.

### What inspired you to become a pharmacist?

My mother works in health care and I have always looked up to her and the work that she does. I wanted to become a pharmacist so that I could help people just like her. I also love the city of Spokane and by being a pharmacist, I am able to help the people of this city.

### Can you share some of the proudest accomplishments since you've joined the WSU Doctor of Pharmacy program?

One of the most enriching events that I have attended so far was an event where the students from the pharmacy, nursing, and other programs, were able to meet with members of the Spokane community, who are parents of children with disabilities. At the event we were able to talk with those parents and hear about their experiences with using the medical field. That event allowed me to get to know some of the people that utilize health care professionals the most and made me even more proud to be entering one of the professions that are heavily relied on by those people.

### What do you hope to do after you leave pharmacy school?

After leaving pharmacy school, I plan to stay in the Spokane area and work as a community pharmacist.

### Why did you choose WSU for your Doctor of Pharmacy and how has the college supported you?

One of the reasons I chose WSU is because I have lived in Spokane for almost my entire life. I completed my undergraduate coursework at WSU Pullman, so because I already live in Spokane and already attended WSU, it was easy to go to WSU College of Pharmacy and Pharmaceutical Sciences in Spokane for my Doctor of Pharmacy.

One big way the college has supported me was by offering the [Save-A-Seat program](#). The program is for people who know they want to do pharmacy when they start college and it allowed me to shave off an entire year of my undergraduate, with guaranteed acceptance into the pharmacy program, as long as certain requirements were met.

### What do you want Native American students who are considering a path in health care or pharmacy to know?

If you really want to go for it and you are willing to put in a lot of hard work, there are a lot of ways that schools will help you to be able to succeed.

### Finding health care solutions for medically underserved rural areas

In the United States there are [14 million people living in medically underserved areas](#) where access to health care continues to be a chronic problem with no clear solutions. Many residents who live in rural areas don't have access

to doctors, nurses, or pharmacists, and getting medical attention often translates to a several hours drive to the nearest city. College of Pharmacy and Pharmaceutical Sciences (CPPS) Associate Professors of Pharmacotherapy Kimberly McKeirnan and Megan Undeberg are finding ways to bridge this health care gap.

“There is such a disparity of care for the rural sector,” said Undeberg, who also grew up on a farm in rural Washington before starting her career in pharmacy. “These tiny communities might not have a hospital. It’s so remote—if someone has a heart attack they can’t get to a hospital.”

As part of a project that began in March 2016, CPPS professors have been looking for ways to improve health among older adults in rural underserved areas. One of the main challenges they faced was building that relationship with rural residents, often described as being very independent, and unwilling to seek medical help unless absolutely necessary.

“We could characterize [these patients] as the most at-risk individuals, and they slip through the cracks. They’re very independent and they don’t like asking for help,” said Undeberg. “Some of these folks had significant problem. They would probably all qualify to live in an assisted living facility. It’s that drive to be independent.”

When the two faculty members received additional funding from the Empire Health Foundation to continue the project for another year, they saw it as an opportunity to work with local organizations to build these relationships and reach patients who were in dire need of medical attention. Working with rural pharmacists who have been embedded in the community for decades was vital to accessing these communities.

In the first stages of the project, pharmacists from the college worked with social workers to identify patients and conduct home visits among adults over the age of 50 living in Pend Oreille county, Washington—one of the 18 designated rural medically underserved areas in Washington state.

“These patients live in very rural places,” explained McKeirnan, who also grew up in an agrarian part of Washington state, two hours outside of Spokane. “When we went for one visit, the road was washed out and we had to reschedule. [Residents] couldn’t even get out of their home because of the flooding.”

Fourteen patients took part in the home visits by WSU faculty members. All of those included had been previously diagnosed with at least two chronic medical conditions, at least one of which had to be diabetes or hypertension—with at least one of these conditions not being treated to optimal outcomes. The average age of their patients was 67. The team also worked with [Rural Resources](#) a nonprofit which had built up long-term relationships with various patients across northeast Washington. The nonprofit helped to bridge the connection between the pharmacists with patients.

Faculty members spent one hour in the home of each patient, discussing medications, whether they were taking them and if they were doing so correctly, their medical conditions, and lifestyle. Afterwards, they sent their recommendations to the patient’s primary care provider and completed a series of follow-up phone calls over the course of six months.



Pharmacotherapy Associate Professor Megan Undeberg grew up in Lind, Washington; population ~560



Pharmacotherapy Associate Professor Kimberly McKeirnan grew up in Palmeroy, Washington; population ~1,400

“We could characterize [these patients] as the most at-risk individuals, and they slip through the cracks. They’re very independent and they don’t like asking for help,”

One example McKeirnan shared was an older woman who lived an hour and a half away from her primary care physician and had a history of high blood pressure and stroke. When she described her symptoms, she complained of headaches which she was taking over-the-counter medications every day to treat.

“Sitting in the kitchen with her, we were going through the shoebox full of meds trying to figure out what was going on,” explained McKeirnan.

Looking at her daily blood pressure log, McKeirnan and her colleagues found the problem; her blood pressure was consistently high. From the patient’s point of view, the numbers were normal for her.

“She wasn’t sure what she was looking for. She knew to check her blood pressure, but she didn’t know what was considered normal,” explained McKeirnan.

That day, her blood pressure was 223/132, when her goal blood pressure should have been less than 130/80. It was so high, they sent her to the hospital, where she stayed for three days. Within six months of the home visit and a review of her medications, her blood pressure was back within goal levels and her headaches had disappeared.

Stories like hers were not uncommon among patients living in rural areas. Another patient experienced dizziness and falls. The pharmacists found that instead of taking Tylenol, he had accidentally picked up Tylenol PM, and was having a bad reaction to the Benadryl in it, causing his dizzy spells.

Overall, the team found 98 unique drug-related problems among their 14 participants, 26% of which were resolved when patients worked with their providers to follow the pharmacists’ recommendations.

With the COVID-19 pandemic spreading across the state, the team has shifted its focus to evaluation and data analysis. Once the health crisis is resolved, they look forward to the next phase of their project when they start work with a pharmacist at the Newport critical access hospital in Davenport, Washington.

McKeirnan and Undeberg believe that by working with embedded pharmacists and local nonprofits, they will have a more sustainable solution to the providing medical care for these medically underserved, rural areas.

## **Medicine-carriers made from human cells can cure lung infections**

By Sara Zaske, [WSU News](#)

SPOKANE, Wash. – Scientists used human white blood cell membranes to carry two drugs, an antibiotic and an anti-inflammatory, directly to infected lungs in mice.

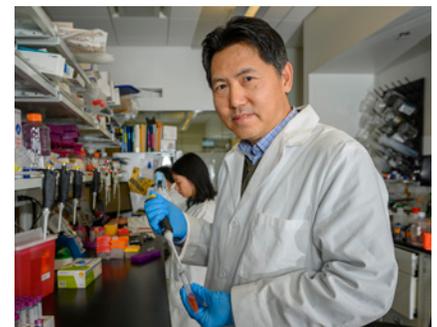
The nano-sized drug delivery method developed at Washington State University successfully treated both the bacterial growth and inflammation in the mice’s lungs. The study, recently published in [Communications Biology](#), shows a potential new strategy for treating infectious diseases, including COVID-19.

“If a doctor simply gives two drugs to a patient, they don’t go directly to the lungs. They circulate in the whole body, so potentially there’s a lot of toxicity,” said Zhenjia Wang, the study’s corresponding author and an associate professor in WSU’s College of Pharmacy and Pharmaceutical Sciences. “Instead, we can load the two types of drugs into these vesicles that specifically target the lung inflammation.”

Wang and his research team have developed a method to essentially peel the membrane from neutrophils, the most common type of white blood cells that lead the body’s immune system response. Once emptied, these membranes can be used as nanovesicles, tiny empty sacks only 100 to 200 nanometers wide, which scientists can then fill with medicine.

These nanovesicles retain some of the properties of the original white blood cells, so when they are injected into a patient, they travel directly to the inflamed area just as the cells would normally, but these nanovesicles carry the medicines that the scientists implanted to attack the infection.

In this study, first author Jin Gao, a WSU research associate, loaded the nanovesicles with an antibiotic and resolvinD1, an anti-inflammatory derived from Omega 3 fatty acids, to treat lungs infected by *P. aeruginosa*, a common potentially fatal pathogen patients can catch in hospital settings. The researchers used two drugs because lung infections often create two problems, the infection itself and inflammation created by a strong immune system response.



Zhengjia Wang works in his laboratory.

Toxicity studies and clinical trials would have to be conducted before this method could be used in human patients, but this study provides evidence that the innovation works for lung inflammation. If the method is ultimately proven safe and effective for humans, Wang said the nanovesicles could be loaded with any type of drug to treat a range of infectious diseases, including COVID-19.

“I think it’s possible to translate this technology to help treat COVID-19,” said Wang. “COVID-19 is a virus, not a bacterial pathogen, but it also causes an inflammation response in the lung, so we could load an antiviral drug like remdesivir into the nanovesicle, and it would target that inflammation.”

#### A NOTE FROM LINDA GARRELTS MACLEAN

Dear Friends and Colleagues,

Congratulations for reaching the end of 2020. What a year it has been for all of us. As the calendar year comes to an end, and we begin to mobilize students for the life-saving operation to administer COVID-19 vaccines across communities in the Pacific Northwest, I’m reminded of how thankful I am to our college, our students, and our community of pharmacists advocating to protect the health of our nation. 2021 may continue to be a challenging year for many of us, but we have reason to be optimistic that we can return to a sense of normality with vaccine production and distribution well underway.

Thank you to all our partners who continue to work with our college and student pharmacists in COVID-19 testing and setting up the eventual distribution of the vaccine. Our team is working with health systems, community pharmacies, the health district, Range Community Clinic, and other entities to plan how our student pharmacists can be most effective in delivering care to patients, whether that means administering a vaccine, conducting a COVID-19 test, educating patients, gathering patient in-take information, or communicating with patients to schedule a follow-up visit. The next months will be critical, but I’m proud that our students are already actively taking part in these efforts as they function as health care providers.

As we close out the calendar year, from my family to yours, we wish you all a warm, healthy and bright holiday season. Thank you for your continued support and guidance.

With best regards and much respect,



Linda Garrelts MacLean, Vice Dean of External Relations  
WSU College of Pharmacy and Pharmaceutical Sciences



## Spotlight on Success

### HealthChats Recap: Journey to Becoming a Neuroscientist

In the latest [HealthChats](#), Associate Professor Darrell Jackson shares his journey in becoming a neuroscientist. It was not a linear path, with many obstacles and sometimes dead ends, but Jackson’s optimism, perseverance, and curiosity always led him back on to the path of studying what he loved most: neuroscience.

Jackson spent his formative years growing up in western Washington in the 1970s, during civil unrest, when racism was widespread.

“I remember on this radio station, I had to be about eight or ten, and they were talking about intelligence...This was during the time of a lot of the civil rights upheaval that was going on, that the spokesperson on the radio was indicating that African Americans weren’t as intelligent because of the size of their brains, and they were not as intelligent as the majority,” said Jackson as he recalled his childhood growing up in Seattle. “And it just stuck with me because it made absolutely no sense.”

Jackson said that he had always been curious about learning, memory, and cognitive behavior. Much of his research now centers on ischemic stroke and diseases that impact cognitive behavior. However, his deep dive into neuroscience began during a middle school field trip to the University of Washington.

“It was kind of boring! For some reason I lost interest,” said Jackson, who left the group to wander around and found himself in the department of neurosurgery. After a short conversation with a research technician there, Jackson was invited to come back where he took two buses daily to start interning at the University of Washington. Thus, began his long journey of ups and downs in researching matters of the brain and finding his footing at Lincoln University, a historically black college/university, based in Philadelphia. Jackson had aspired to become a neurosurgeon and began medical school at Temple University before dropping out after eight months due to financial struggles and the inability to receive financial aid.

“[My parents] were just so depressed,” said Jackson, when he saw his parents for the first time after leaving medical school. “I don’t think they said a word to me when they picked me up.”

Fast-forward three decades and Jackson has become one the most highly respected professors and researchers for the College of Pharmacy and Pharmaceutical Sciences and the Elson S. Floyd College of Medicine. Earlier this year, Jackson was awarded nearly half a million dollars by the National Institutes of Health to continue his research on oxidative stressed on the aged brain.

“Believe in yourself. Believe in what you want to become. Never let anyone distract you from your goals in terms of what you want to do. Always reach out to individuals you can relate to that will play a role in mentoring you, but also having a thick skin,” said Jackson to students who want to pursue a similar path as his. “There’s going to be times where you know...you’re being treated differently. The best thing to do with that is sometimes confront it, and other times, if you don’t think it’s worth your time, just let it go. What you don’t want to do is create a pessimistic mind in your behavior.”

Watch the video: <https://youtu.be/8-t1RNX3KIs>

### **WSU pharmacy students launch project to provide health information to seniors**

When Yakima County senior housing centers closed their doors to the public as a COVID-19 precaution, Yakima pharmacy students wondered how they could still get residents critical health care information. Their solution? Donated electronic tablets that residents could use to watch videos the students would create.

Read more from the Yakima Herald: <https://bit.ly/3fYgGoj>

### **Ingredients in flu vaccine won’t hurt you – two pharmacists explain why**

Is the flu vaccine harmful? No. Pharmacotherapy faculty members Anne Kim (Yakima) and Terri Levien break down what makes up the flu vaccine and why it won’t hurt you.

Read more from The Conversation: <http://bit.ly/3nvsv8k>





### PHILANTHROPY FOCUS

Dr. John Staniewski, husband of the late Stephanie Staniewski, class of 1990, has established a scholarship in her memory with a major gift to the CPPS. The scholarship endowment will provide support to a non-traditional student who is preferably attending WSU’s pharmacy program at a later stage in life, just as Stephanie did when she began her pharmacy education in her 30s.

Dr. Staniewski said Stephanie already held a masters degree, but with their children in school, she was looking for a more challenging career and found it in pharmacy. In her pharmacy career, Stephanie really made her mark as a mentor, proving instrumental to the careers so many young pharmacists and technicians. After a valiant battle with cancer, Stephanie passed away on April 25, 2020. She is greatly missed by her family, who is honoring her legacy with the establishment of the Stephanie Staniewski Memorial Scholarship in Pharmacy.

Read full obituary: <http://bit.ly/3r147gV>

## Alumni News

- We caught up with **Dr. Jim Wernz**, class of 1967, last month via a Zoom chat. You may recall that we featured Dr. Wernz and his husband Ralph, an attorney, a couple of months ago when Ruth Bader Ginsburg passed away. The article mistakenly stated that Ralph had clerked for RBC, but she was actually Ralph’s instructor at Columbia University and they kept in touch over the years. We wanted to clarify this, and share what we learned about Dr. Wernz, who is not only a graduate of the WSU CPPS, but also the University of Washington School of Medicine. He’s had a fascinating career in medical oncology/hematology caring for AIDS patients at the height of the crisis in the 1980s to mid-1990s in New York City. He subsequently transitioned into end-of-life care, recently retiring from his position as Director of Palliative Medicine at Maimonides Medical Center in Brooklyn, New York.



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

### IN MEMORIAM

- **Bert Porter**, class of 1950, past president of the Washington State Pharmacy Association, and a fierce advocate for the pharmacy profession, died on November 4 at Sacred Heart Hospital in Spokane. He was 92. A memorial service for Bert took place on Saturday, November 21 at Thornhill Funeral Home. The service was also shared via [Facebook live stream](#). In lieu of flowers, donations may be made in honor of Bert to the [Bert J. Porter Pharmacy Student Professional Travel Fund](#) to help pharmacy students attend WSPA meetings and other leadership conferences.



- On Thursday, November 12, **William ‘Bill’ Gaskins**, class of 1969, passed away after a three-year battle with cancer. Bill, 76, was a pillar of the WSU pharmacy community. As a mentor and preceptor to over 300 student pharmacists, Bill made a lasting impact on so many lives thanks to his years of service and leadership. Felicia Gaskins, Bill’s widow, has let us know that services to honor his life will be held after COVID-19 restrictions are lifted. In the interim, we know many of you will want to share condolences, stories, photos, and come together as a pharmacy community. To facilitate this, we have launched a dedicated [Facebook page](#) to connect with others who want to reminisce about Bill. Please share this link with anyone who might be interested. In lieu of flowers, donations may be made in memory of Bill to the [William and Felicia Gaskins Scholarship Endowment in Pharmacy](#) to assist WSU’s student pharmacists.
- **Lloyd Allison Curtis**, class of 1954, passed away peacefully at his home in Oroville, Washington at the age of 90. Lloyd attended WSU and graduated with a BS in pharmacy. He and his older brother, Elvin Roy, class of 1954, owned and operated Roy’s Pharmacy in Tonasket, Washington from 1956 to 1992. Lloyd was an avid Cougar fan throughout his life.



## Other News

### Local pharmacists stress importance of community-based stores amid Amazon announcement of online pharmacy

What do you lose out on when pharmacy moves online? As pharmacists take on more clinical roles, your community pharmacy is more than a place to pick up prescriptions. It is also a place to get point of care testing and even a prescription for ailments such as strep throat, most of your vaccinations, consultations on your medications, and more. Vice Dean of External Relations Linda Garrelts MacLean recently talked to The Spokesman Review about the importance of community-based stores.

[Read more from The Spokesman-Review](#)

### Heeding the call of COVID: Pharmacists help slow pandemic’s spread in underserved areas

Faculty from pharmacy schools across the country, including WSU College of Pharmacy and Pharmaceutical Sciences Research Fellow Sorosh Kherghehpoush, are taking health care directly to those who need it most with testing and care of homeless populations.

[Read more from Pharmacy Practice News](#)

### ‘An underlying level of hopefulness’: What to be thankful for during the pandemic

Focusing on the things we are thankful for during difficult times can help us build mental resiliency. Pharmacotherapy Professor Terri Levien explains why the development of a COVID vaccine can be one of those things to be grateful for.

[Read more from The Spokesman-Review](#)

## Faculty Scholarship

### PUBLICATIONS

Allen I. White Distinguished Associate Professor of Pharmacotherapy **Joshua Neumiller** and co-authors published,

[“Incretin drugs in diabetic kidney disease: biological mechanisms and clinical evidence,”](#) in the Nature Reviews November 2020 edition of the Nephrology Journal.

Pharmaceutical Sciences Research Associate (Z. Wang lab) **Jin Gao**, Pharmaceutical Sciences Associate Professor **Zhenjia Wang** and four co-authors published , [“Co-delivery of resolving D1 and antibiotics with nanovesicles to lungs resolves inflammation and clears bacteria in mice,”](#) in the Communications Biology, a peer-reviewed open-access resource from the SpringerNature.

Pharmaceutical Sciences Associate Professor **Bhagwat Prasad** and two co-authors published, [“Utility of Quantitative Proteomics for Enhancing the Predictive Ability of PBPK Models Across Disease States,”](#) in the Journal of Clinical Pharmacology in November 2020.

J. Roberts and Marcia Fosberg Distinguished Professor of Pharmacotherapy **Danial Baker** published, “Drug evaluation – viltolarsen (Viltepso),” in Wolters Kluwer Health’s The Formulary Monograph Service (FMS) in December 2020. Wolters Kluwer Health is a drug and health information publisher, the FMS is a resource used in the formulary decision making process for hospitals and managed care systems on recently released and investigational drugs.

**Danial Baker** published, “Drug evaluation – nifurtimox (Lampit),” in the FMS in December 2020.

Drug Information Center Resident **Brittany Craft** and **Danial Baker** published, “Drug evaluation – risdiplam (Evrysdi),” in the FMS in December 2020.

Pharmacotherapy Clinical Professor **Terri Levien** and **Danial Baker** published, “Drug evaluation – inebilizumab (Uplizna),” in the FMS in December 2020.

**Terri Levien** and **Danial Baker** published, “Drug evaluation – satralizumab (Enspryng),” in the FMS in December 2020.

**Danial Baker** published, “Drug utilization evaluation – metoclopramide nasal spray (Gimoti),” in the FMS in December 2020.

## PRESENTATIONS

Pharmacotherapy Assistant Professor **Cheyenne Newsome** presented, “PrEParing Pharmacists to Prevent HIV” at the American Society of Health System Pharmacists Midyear Clinical Meeting and Exhibition (ASHP Midyear) on December 6, 2020.

**Cheyenne Newsome** and one co-author presented the poster, “Pharmacotherapy curriculum: prevalence comparison of people who are transgender to other conditions and population not strongly recommended for inclusion,” at ASHP Midyear on December 10, 2020.

**Cheyenne Newsome** and one co-author presented the poster, “Student Pharmacist simulation to improve understanding of diabetes self-management,” at ASHP Midyear on December 10, 2020.

**Josh Neumiller** presented the CME program: “Diabetes update: new treatment recommendations and approaches for 2020” to the medical staff at Gritman Medical Center on November 17, 2020.

**Josh Neumiller** presented the POWER-PAK CE, [“Frequently asked questions on use of GLP-1 receptor agonists in patients with type 2 diabetes: a panel discussion,”](#) on November 12 and 18, 2020.

## SERVICE

**Josh Neumiller** served as a faculty member for the ASHP Diabetes Management Certificate program. This continuing pharmacy education activity is intended for pharmacists seeking to expand their knowledge and skills in all aspects of diabetes management.

[Learn more about the certificate](#)

## Student Achievement

### DOCTOR OF PHILOSOPHY (PH.D) STUDENTS

**Sihan Wang** (pharmaceutical sciences class of 2020, Z. Wang lab) and **Xinyue Dong** (pharmaceutical sciences class of 2020, Z. Wang lab) with faculty co-authors **Jin Gao** and **Zhenjia Wang** and two other co-authors published, "Co-delivery of resolving D1 and antibiotics with nanovesicles to lungs resolves inflammation and clears bacteria in mice," in the Communications Biology, a peer-reviewed open-access resource from the SpringerNature.

**Sheena Sharma** (pharmaceutical sciences, Prasad Lab) and **Deepak Ahire** (pharmaceutical sciences, Prasad Lab), with faculty co-author **Bhagwat Prasad** published, "Utility of Quantitative Proteomics for Enhancing the Predictive Ability of PBPK Models Across Disease States," in the Journal of Clinical Pharmacology in November 2020.

**Nandini Katti** (pharmaceutical sciences, Prasad lab) received \$5,000 from the American College of Clinical Pharmacy Foundation Futures Grants Program for a research project titled, "Association of steroidal urinary metabolites in adolescent polycystic ovary syndrome."

### DOCTOR OF PHARMACY (PHARM.D) STUDENTS

**Wonsok Lee** (class of 2022) with faculty co-author **Josh Neumiller** published, "Hypoglycemia prevention and treatment in the ambulatory care setting," in U.S. Pharmacist in November 2020.

**Jennifer Tu** (class of 2021) with faculty co-author **Cheyenne Newsome** presented the poster, "Pharmacotherapy curriculum: prevalence comparison of people who are transgender to other conditions and population not strongly recommended for inclusion," at ASHP Midyear on December 10, 2020.

**Laura (Elizabeth) Satterwhite** (class of 2022) with faculty co-author **Cheyenne Newsome** presented the poster, "Student Pharmacist simulation to improve understanding of diabetes self-management," at ASHP Midyear on December 10, 2020.



College of

Pharmacy and  
Pharmaceutical Sciences

WASHINGTON STATE UNIVERSITY

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