

COLLEGE OF PHARMACY
ANNUAL REPORT

2014



College of
Pharmacy
WASHINGTON STATE UNIVERSITY

Our Mission

To advance human health through excellence in collaborative research, scholarship, and clinical education, and to develop outstanding health care professionals and scientists.

Our Vision

To be a leader in advancing, promoting, and protecting human health.

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On the Cover

Doctor of Pharmacy students come to the Pharmaceutical and Biomedical Sciences building to attend class, and gather to study and collaborate. Cover photos by Cori Medeiros, WSU Health Sciences Spokane. Additional photos by Benjamin Benschneider courtesy NBBJ, Kevin Dudley, Bob Hubner, Lori Maricle, and Adam Ratliff.

2014 Annual Report

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College Leadership

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Associate Dean for Graduate Education:
Katherlyn E. Meier

Associate Dean for Professional Education:
Brian Gates

Department of Pharmaceutical Sciences Chair:
Philip Lazarus

Department of Pharmacotherapy Chair:
John R. White

Section of Experimental and Systems
Pharmacology Chair: K. Michael Gibson



College of Pharmacy Dean Gary M. Pollack manages the grill at the annual "Welcome Back!" BBQ. The event is hosted by the dean's office every August to celebrate the beginning of the academic year and to welcome student pharmacists back to campus.

This year has been particularly busy and, I think, particularly successful. We completed the College's consolidation on the Health Sciences campus in Spokane, and have broken in (or in some instances, simply broken) our new building. Recruitment of new faculty, graduate students, postdoctoral fellows, Pharm.D. students, and research scientists has continued unabated, and we are rapidly approaching the capacity of our new space. Our extramural funding portfolio continues to grow rapidly, supporting innovative research and graduate education. We completed an 18-month-long (and several-thousand-page) self-study, hosted a comprehensive site visit, and are awaiting the draft report from the Accreditation Council for Pharmacy Education. We finalized an agreement with Pacific Northwest University of Health Sciences to extend our Doctor of Pharmacy program to Yakima, have identified a talented leadership team to implement the extension, and are well on the way to recruiting a strong inaugural class for fall 2015. We restructured our curriculum to increase integration of concepts and provide additional time for elective coursework, while extending our competency-based assessment approach to the second professional year. You will

find details on these highlights and other achievements in the following pages of this annual report. Overall, it has been a year of which we can be rightfully proud.

On behalf of the faculty, staff, and students of our college, I would like to extend thanks to the many individuals and organizations who have contributed to our progress. We are fortunate to have an active alumni base and a strong group of community partners. We also continue to receive crucial support from a variety of pharmacy organizations and corporations. The time, talent, and resources that our colleagues and friends commit to our program represent invaluable assets, and have a direct and profound impact on all of us. Our students have the opportunity to work with an outstanding group of preceptors around the state, without whom it simply would not be possible to deliver our professional curriculum. I continue to lean heavily on our college's advisory committee, and they continue to offer unfailing support for our various initiatives. Finally, the aggressive development of our programs would not be possible without the vision and leadership provided by our president, **Elson S. Floyd**, and provost, **Dan Bernardo**.

**Best wishes to all from the
WSU College of Pharmacy,
Gary M. Pollack, Ph.D.**

College Quick Facts

Students
Doctor of Pharmacy:

423
23

Ph.D.:

Employees

Staff: 47	Faculty: 71	Adjunct faculty: 178
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Preceptors
(2013-2014 programmatic year)

Primary preceptors: 229

Ancillary preceptors: 650

DOCTOR OF PHARMACY Program Extension:



This year, the WSU College of Pharmacy and the Pacific Northwest University of Health Sciences (PNWU) finalized an agreement to offer the WSU Doctor of Pharmacy (Pharm.D.) degree on the PNWU campus in Yakima, Washington. Applications for the Yakima location opened this July, with the first class slated to begin in August 2015.

The collaboration between the two universities will allow WSU student pharmacists and PNWU students of osteopathic medicine to learn to care for patients as a team. This partnership reflects the commitment of WSU to advance our land-grant mission to serve the people of the state of Washington. The goal of this academic collaboration is to expand the availability of health services to underserved populations in rural settings, and we will be preparing future pharmacists who specifically want to provide care to these populations.

"PNWU embraces an interdisciplinary learning model," said PNWU President **Keith Watson**. "With the WSU College of Pharmacy on our campus, future physicians will share learning space and work in teams with future pharmacists."

"This is a smart model for the future of health care. It supports the nation's health care reform goals of better health and better health care that is delivered with lower costs," said Dean **Gary M. Pollack**.

The college has had faculty and students in Yakima since the 1990s, and the college has a large alumni base of practicing pharmacists in Yakima who serve as preceptors to train student pharmacists in their fourth professional year (PY4) as well.

Consistency in Education

The Yakima campus will deliver the same curriculum that is offered in Spokane. The pharmacy curriculum will be taught the same way in Yakima as in Spokane, and students will participate in the same performance evaluations currently used in Spokane.

The College of Pharmacy takes seriously our mission to develop outstanding health care professionals. In order to ensure that our future pharmacy practitioners display exemplary skill and knowledge aligned with our college mission, we have transitioned to an "Honors-Satisfactory-Fail" curricular grading model that began in fall 2013.

The faculty have agreed to move forward with a "flipped" classroom model, where lectures will be recorded ahead of time using the Tegrity software currently used on the campus in Spokane, and other reading and coursework is assigned prior to class. Spokane and Yakima students will therefore have access to the same pre-recorded lectures and assignments. Faculty will be present in both Spokane and Yakima to lead classroom time that is focused on assessing understanding of pre-class material, clarifying concepts and answering student questions, working on problem-based activities, engaging in team-based learning, or actively participating in case discussion that provides context for the learning that occurred prior to class.

Innovation in Learning



Butler-Haney Hall on the PNWU campus in Yakima is a 46,000-square-foot facility on the 42.6-acre campus that includes fully-equipped classroom, laboratory, research, media, library, and office spaces.

For laboratory and small group courses (for example, the applied patient care series), course instructors will be hired and will be present in Yakima. Videoconferencing technology will not be relied on as the primary means of lecture or other content delivery.

A key component of the Pharm.D. curriculum is to provide an interdisciplinary education experience, and the student pharmacists studying on the PNWU campus will have opportunities for collaboration and interdisciplinary experiences with the students in the osteopathic medical school. Initial meetings with PNWU faculty have explored the opportunities for interdisciplinary education, and the College will further explore elective opportunities specific to the Yakima campus working with the Doctor of Osteopathic Medicine school as well as other programs that will become available on the PNWU campus.

Student pharmacists in Yakima will also participate in the same student groups as in Spokane and will collaborate with student leaders in Spokane.

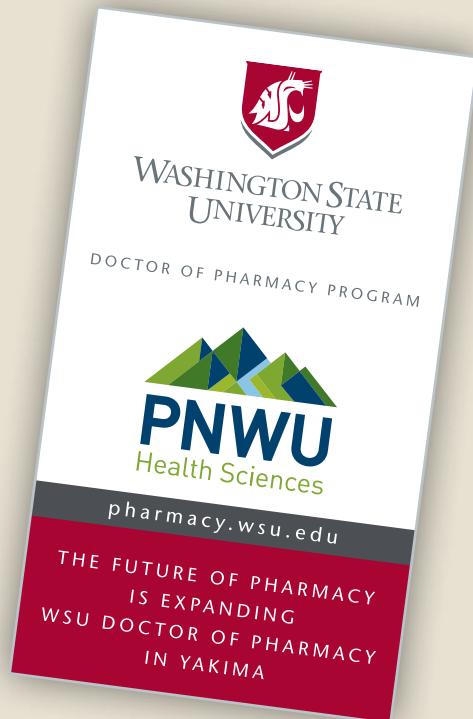
Next Steps in Preparing for the Program Extension in Yakima

Angela Stewart has been named director for the WSU Pharm.D. program in Yakima. Stewart is a clinical associate professor in the Department of Pharmacotherapy and has been a preceptor for PY4 student pharmacists on rotation at Yakima Memorial Hospital.

The College of Pharmacy also just hired **Stuart J. Muller** as a project manager on a one-year appointment to oversee the planning, implementation and tracking of the extension of the WSU Pharm.D. program.

Muller has ten years of project management experience in integrated modeling and management of natural resources. Muller received a bachelor's degree in bio-resources engineering from the University of KwaZulu-Natal in South Africa, and a doctorate in engineering from the University of Florida. His expertise includes sensitivity analysis and dynamic modeling, and integrated and adaptive management. Muller was previously a researcher at the University of Florida.

The recruitment of new faculty and staff in Yakima will continue through the next academic year in preparation for the first class of student pharmacists to begin in the fall of 2015. ■



HSF *honors-satisfactory-fail* REPLACES LETTER GRADES

What if the grading system was changed so students no longer were focused on a number or a letter, but only on learning what they needed to know to be a good pharmacist?

That's exactly the transformation being phased in at the College of Pharmacy that started in August 2013 with the "Honors-Satisfactory-Fail" grading system.

"Traditional grading results in behaviors faculty find obnoxious—from arguing for the extra tenth of a percentage point in their grade, up through non-collaborative behavior," Dean **Gary M. Pollack** explained. "Those behaviors won't be eradicated, but the incentives to engage in them will be lower, and students will be more focused on learning what they need to know."

The traditional grading model (also known as grading on a curve) evaluates student performance relative to the performance of other students in the class. With the Honors-Satisfactory-Fail (HSF) grading model the College has adopted, one student's success is not dependent on the poor performance of another student. The HSF grading model allows faculty to measure student competency and achieve-

ment on well-defined learning objectives.

Integral to the curriculum transition initiative is Clinical Associate Professor **Brenda Bray**. She has always been inter-

ested in innovative teaching methods and started using Human Patient Simulation in the Doctor of Pharmacy curriculum back in 2007 after she learned about it from a colleague in the WSU College of Nursing. The College of Pharmacy was one of the first pharmacy schools in the nation to use simulation in teaching.

When most professors hear the word "assessment" they tend to run the other way, whereas Bray is a self-described "assessment nerd." She has directed the College's assessment program since 2007. Part of the assessment program includes collecting and studying information related to the quality of the teaching and learning occurring in the College, and then collaborating with faculty to improve the curriculum and student learning based on that knowledge.

A series of workshops led by teaching experts broadened faculty understanding of the fundamental philosophies surrounding competency-based education. The workshops also helped faculty modify their teaching and testing practices. In the HSF model, tests are given every other week on smaller amounts of material, and students receive immediate feedback.

One teaching expert put it this way: "People don't learn something the first time they hear it. They learn over time. So in order for students to achieve the objective, they need to know how they are doing. Frequent testing is communication back and forth instead of a grade. It is telling them, 'You are half the way there.'"

Bray credits the dean of the College, Gary M. Pollack, with getting this change

underway, an idea that he brought up at a faculty retreat in May 2012. The faculty took the idea and debated it, and by the following February they had accepted it and were attending the workshops.

A research project is now underway to understand more about student motivation and learning in a competency-based curriculum. However, after the first year it is clear to see that we are doing something right. Traditionally, students are most likely to fall behind between the fall and spring semesters of their first year, meaning they will not be allowed to move forward as result of failing a class. Under the previous grading model, the College would normally see about 10 percent of students falling behind within the first year, with the majority falling behind between the first and second semesters. Within the new HSF grading model from fall 2013 to spring 2014, every first-year student moved forward after the first semester with only one student required to be held back at the end of the first year, giving the Class of 2018 an attrition rate of only one percent after their first year. ■



Brenda Bray

When the Class of 2017
was surveyed in April 2014

[76%]

of the 50 respondents
affirmed that "Under current
HSF grading curriculum,
re-testing procedures help to
ensure a pharmacy student is
competent in that subject."

Examsoft honors WSU with Assessment Executor Award

The WSU College of Pharmacy was recognized by testing software company Examsoft for the innovative use of their platform. The College uses the online testing platform for skills-based assessments and written evaluations of student pharmacists in the Doctor of Pharmacy program.

"Their innovation is admirable," an Examsoft representative wrote in the award announcement. "In addition to standard quizzes, midterms and finals, the team delivers various assessments types including communication and clinical counseling assignments, clinical experience exams, and have recently begun using Rubrics to grade written assignments."

Examsoft is an assessment, management and analysis solutions company that specializes in what they call "high stakes exams." The company supports 650 clients across the United States, which includes 43 of 50 state bar exams. The College of Pharmacy started using the Examsoft platform for the Doctor of Pharmacy program block testing in fall 2013, and integrated the advanced features of the platform to record assessment scores for student pharmacists participating in clinical simulation exercises this academic year.

The online platform does a lot more than record grades. The system enables multiple faculty to collaborate on an assignment within the assessment platform, and also tracks grading across class sections and faculty members to ensure all students are being graded equally.

It also allows faculty to use multiple rubrics to assess performance and then assign grades in one step that also eliminates the need for maintaining paper files and returning to the system later for input or updates. Plus, it allows the College's Office of Assessment to better track data over time and use these insights to further improve teaching and test delivery methods. Students have access to their own records, giving them immediate feedback and facilitating communication between students and instructors. ■



GOING BEYOND PHARM.D.

Research Honors Program

The Doctor of Pharmacy Honors Program was started in 2013 with the HSF curriculum to provide research opportunities to student pharmacists interested in developing research projects and exploring areas of interest that complement and enhance their experiences in the Doctor of Pharmacy program. Each honors student is paired with a faculty mentor for their research, and with the successful completion of their project and the requirements set forth by the honors committee, graduates with an honors distinction that is recognized during the commencement ceremony and noted on their transcript.

Student pharmacists apply to the honors program in their first year of the Doctor of Pharmacy program (PY1), give an oral presentation on their research concept by the end of their second year (PY2), and complete their research during the spring semester of their third year (PY3) prior to the PY4 Advanced Pharmacy Practice Experiences (APPE) rotations. There are currently seven students enrolled in the honors program. ■

Pharm.D./Ph.D. Joint Degree

The College of Pharmacy now offers a joint degree option for students in the Doctor of Pharmacy program who also want to obtain a Ph.D. in pharmaceutical sciences. By completing an overlapping sequence of required courses for each of the two sequential degrees, students can save two of the five years it generally takes to attain a Ph.D. This kind of combined degree is common at top research-intensive pharmacy schools in the country, and was implemented at WSU beginning this year in collaboration with the WSU Graduate School.

The College is also finalizing plans for a joint Pharm.D./MBA option, with students in a pilot program running this year. ■



Student pharmacists Nimo Ahmed, Onyii Nwude (both class of 2017) and Vincent Quach (class of 2018) joined other health professions students to conduct health screenings and provide brief educational programs for senior citizens.



SENIOR SMILE DAY

Brings Opportunity for Interprofessional Education

Health professions students on the WSU Health Sciences campus in Spokane partnered with Eastern Washington University to host a free health clinic for senior citizens from the local community on October 24, 2014. This free care clinic for seniors was an ideal opportunity for some interprofessional learning.

Speech and hearing students conducted swallowing tests, dental hygiene students conducted oral screenings for cancer, and occupational therapy students conducted sleep assessments and discussed how patients can get better sleep. This is all helpful information to pharmacists who get asked about these things all the time.

Pharmacists are often the most accessible health care professionals for people. As frontline providers there are many things they can learn from the other disciplines that can help them in their practice as well as help their patients. A swallow test could help a pharmacist detect whether a patient would have difficulty taking a particular medicine and, if so, search for an alternative drug delivery method.

The care stations were situated closely together on the first floor of the Health Sciences Building for the convenience of senior citizens. This type of close proximity to other disciplines is unique among health care institutions and is what makes interprofessional education more achievable on the WSU Health Sciences campus than at some larger institutions. Interprofessional education is now a national requirement for educational programs involved in health care fields.

"We are very fortunate on this campus to have many disciplines who are natural partners on health care teams," said the WSU's interprofessional education coordinator in Spokane. "We are also fortunate that within each discipline are faculty very willing to embrace interprofessional education." ■

Beginning this fiscal year,

the College of Pharmacy is collaborating with the WSU College of Nursing on an interprofessional education project

that was awarded
\$1 million

over
the next
3 years

through an Advanced Nursing Education Grant.

Faculty will be trained on methods around collaborative care for patients with multiple chronic conditions, as well as teamwork and skills through the TeamSTEPPS program.



CAREER SEMINAR SERIES Connects Student Pharmacists with National Leaders

Student pharmacists engaged with their federal representative Tuesday, October 7, 2014, about how pharmacists can do more, and how expanding their services is key to addressing the nation's need for accessible, quality health care.

"You have one of the true champions for pharmacy in Congress sitting right here on this stage," said pharmacy advocate **Steven Anderson** (above right), who joined Washington State University student pharmacists in a roundtable discussion with Washington's U.S. Representative **Cathy McMorris Rodgers** (above center).

The gathering was part of the WSU College of Pharmacy's efforts to offer innovative solutions to address the evolving needs of health care across the country. They brought McMorris Rodgers and Anderson together to expose student pharmacists to the importance of building relationships with their government representatives and professional associations.

Students in the Doctor of Pharmacy program had the opportunity to ask questions about what they can do to help break down barriers to changing policy, and how pharmacy can play a larger role in the health care delivery system.

Gary M. Pollack (above left), dean of the College and moderator for the event, urged students to be involved with public policy when they become pharmacists.

"It is important for me to have relationships with those people that I represent," said McMorris Rodgers. She emphasized to student pharmacists that the decisions made at all levels of government can be impacted by their involvement.

As CEO of the National Association of Chain Drug Stores, Anderson echoed the comments of McMorris Rodgers and Pollack, encouraging student pharmacists to get active in advocating for how pharmacists practicing at the top of their license can contribute to the nation's health care solutions. "More than 80 percent of Americans live within five miles of a pharmacy, and pharmacists are the second most-trusted profession, nursing being the first," Anderson said.

The conversation regarding pharmacy, health care, ACA and policy was part of the WSU College of Pharmacy's "Preparing for Your Career in Pharmacy Seminar Series," which exposes student pharmacists to leaders and entrepreneurs who provide students with their vision of how the profession is evolving and the opportunities that exist for future pharmacists to change and advance the practice of pharmacy. ■

2014 Career Seminar Speakers Supported by STCU

John Swenson, MS, FASHP

Claudia Swenson, PharmD, FASHP, CDE, BC-ADM

Julie McCoy, PharmD

David Steeb, PharmD

Ron Schleif, RPh, MBA

Dana Bowers, PharmD, BSCPS

Steve Riddle, PharmD, BSPS, FASHP

Cathy McMorris Rodgers, MBA

Steven Anderson, IOM, CAE

Paul Thompson, PharmD

Michael Moné, BPharm, JD, FAPhA

2013–2014 Teachers of the Year

Each Doctor of Pharmacy class votes to select a Teacher of the Year who they felt was an outstanding educator for that academic year.



PY1 selected: **Connie Remsberg**, clinical assistant professor



PY2 selected:
Kimberly McKeirnan, clinical assistant professor

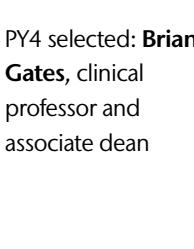


William Fassett



John White

PY3 selected: **William Fassett**, professor emeritus, and **John R. White**, professor and chair



PY4 selected: **Brian Gates**, clinical professor and associate dean



Brian Gates

WSU Honors College



Joshua Neumiller, associate professor, received a Faculty Thesis Advisor Award from the WSU Honors College. He was nominated by Haleigh Miller, who is a Doctor of Pharmacy student in the class of 2018.

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Jalena Young nominated Patrick O'Connor for Preceptor of the Year.

PRECEPTOR OF THE YEAR

Patrick O'Connor, director of pharmacy at Toppenish Community Hospital, was named the College of Pharmacy 2014 Preceptor of the Year. The Preceptor of the Year award is given annually to a WSU pharmacy preceptor for outstanding contributions to the educational development of future WSU pharmacists by demonstrating high standards of professionalism, ethics and clinical practice within the experiential training environment. O'Connor was selected for his consistent demonstration of commitment to student pharmacists on rotation, to his colleagues, to his leadership role at the hospital, and to the pharmacy profession.

O'Connor graduated from the WSU pharmacy program in 1995 and has been a pharmacy preceptor since 2001. Preceptors supervise student pharmacists while they move through a series of six-week rotations that make up their final year of the Doctor of Pharmacy program. He was nominated by WSU College of Pharmacy 2014 graduate **Jalena Young**. ■

Past Recipients

- 2013: Donald Spedden
- 2012: Roger Yamaguchi
- 2011: John Landkammer
- 2010: Doug Crafton
- 2009: Brent Albertson
- 2008: Tom Stanley
- 2007: Warren Hall
- 2006: Chris Greer
- 2005: Rhonda Kerr
- 2004: Jennifer Edwards
- 2003: Ron Jennings

WSU Length of Service



Daniel Baker



Mark Garrison

Daniel Baker, professor, was recognized for 30 years of service to WSU.

Mark Garrison, associate professor, and **John White**, professor and pharmacotherapy chair, were both inducted into the WSU Quarter Century Club in honor of their 25 years of service to the University.

Community Awards



Colleen Terriff

Colleen Terriff, clinical associate professor, received Spokane County's Excellence in EMS Special Services Award from the Spokane County EMS

and Trauma Care Council. The council coordinates the emergency medical services system for Spokane County. Colleen also received the Spokane Pharmacy Association Speaker of the Year Award.



Catrina Schwartz

Catrina Schwartz, clinical associate professor, received the Spokane Pharmacy Association Pharmacist of the Year Award.

Kimberly

McKeirnan, clinical assistant professor, received the MEDEX "Golden Apple" speaker award for the 2014 spring quarter.

Alison Blum, research associate and first-year pharmacy resident in obstetrics, received the Spokane Pharmacy Association Resident of the Year Award.

William Fassett, professor emeritus, received the Spokane Pharmacy Association Special Services Award.

Resident Highlight: Alison Blum



Alison Blum

Alison Blum is breaking new ground as the first pharmacy resident in obstetrics at the College of Pharmacy. She is working as a post-graduate resident at the Maternal-Fetal Medicine Clinic located at the Providence Sacred Heart Medical Center in Spokane, Washington. As a pharmacist on the obstetrics team, she is skilled at finding and reviewing literature to support medication decisions. Physicians are now asking her to review literature on drug-related decisions.

Blum will give lectures in three classes in the Doctor of Pharmacy program this year, and will help a third-year student pharmacist create a formal presentation based on an obstetrics patient. But she is spending most of her time at the hospital where, in addition to learning how she can best fit as part of the OB team, she is designing a research project exploring the value a clinical specialty pharmacist brings to the team.

She said nurses on the floor have been "welcoming and wonderful and excited to have me here." Physicians are learning

what she has to offer and she now goes to their journal clubs with the medical residents and OB fellows. "It has been a rewarding experience," Blum said.

Blum is from Newbury Park, California, and moved to Seattle where she obtained her bachelor's degree in cellular and molecular biology—with a minor in chemistry and quantitative science—from the University of Washington. She worked as a pharmacy technician at Costco before pursuing a pharmacy degree at WSU.

Gerald G. Briggs, a 1968 alumnus of the College of Pharmacy from California who is an expert in obstetrics pharmacy and who co-authored a textbook on the subject, personally funded the one-year WSU OB pharmacy residency. His goal is to demonstrate the value of a pharmacist on OB teams and to develop a "best practice" model of care that can be duplicated in other hospitals.

Briggs spoke personally to two of the physicians at the Maternal-Fetal Medicine Clinic in Spokane to explain the idea for the OB residency. The other person instrumental in creating the residency was **Linda Garrels MacLean**, associate dean at the College, who teamed with the director of pharmacy at Providence Sacred Heart to design the residency position. ■



The WSU College of Pharmacy's Save-A-Life Naloxone Safety Net Program received the Washington State Pharmacy Association Cardinal Health Generation Rx Champions Award. **Shannon Panther** (left), clinical assistant professor, received the award on behalf of the College at the WSPA annual meeting in November.

**Shuwen Wang**

Shuwen Wang, Clinical Associate Professor, Pharmaceutical Sciences.

Dr. Shuwen Wang has a Ph.D. in biochemistry from

Dartmouth Medical School. She worked for the past 14 years at Penn State University in the Departments of Cellular & Molecular Physiology and Microbiology & Immunology. At WSU she is teaching and directing the new Functional Genomics Core Facility.

**Jiyue Zhu**

Jiyue Zhu, Professor, Pharmaceutical Sciences.

Dr. Jiyue Zhu has a Ph.D. in biochemistry from Dartmouth Medical School in New Hampshire. His

research is currently funded by the National Institute of General Medical Sciences, a National Institutes of Health agency. He worked for the past 14 years at Penn State University in the Department of Cellular and Molecular Physiology.

**Shobhan Gaddameedhi**

Shobhan Gaddameedhi, Assistant Professor, Experimental and Systems Pharmacology.

Dr. Shobhan Gaddameedhi studies how the sleep cycle plays a

role in maintaining genomic stability in skin. Gaddameedhi spent the last six years in the biochemistry and biophysics department at the University of North Carolina School of Medicine at Chapel Hill. He has a Ph.D. in pharmaceutical sciences from North Dakota State University.

**Salahuddin Ahmed**

Salahuddin Ahmed, Associate Professor, Pharmaceutical Sciences.

Dr. Salahuddin Ahmed's primary research interest is in testing the efficiency

of the active compound in green tea for treatment of rheumatoid arthritis. Ahmed came to WSU from the University of Toledo in Ohio. He has a Ph.D. in nutrition and chemoprevention from Jamia Hamdard University in New Delhi, India.

**Tawni Sargent**

Tawni Sargent, Clinical Assistant Professor, Pharmacotherapy.

Dr. Tawni Sargent is functioning under a shared position agreement between the WSU College of

Pharmacy and Mann-Grandstaff Veterans Administration Medical Center where she is a clinical pharmacy specialist. Sargent has a Pharm.D. from Idaho State University and spent the past 10 years at Group Health as a clinical pharmacist and preceptor.

**Travis Denton**

Travis Denton, Clinical Assistant Professor, Pharmaceutical Sciences.

Dr. Travis Denton is a synthetic medicinal chemist with a Ph.D. from the University

of Montana. Travis teaches in the integrated pharmacology series and conducts research with the WSU drug discovery team with specific interests in synthesizing small molecule treatments for neurological disorders and biomarkers for inborn errors of metabolism.

**Zhenjia Wang**

Zhenjia Wang, Assistant Professor, Pharmaceutical Sciences.

Dr. Zhenjia Wang has a Ph.D. in physics from the Chinese Academy of Sciences in Changchun, China.

His current research is focused on designing and creating nanoparticle-based drug delivery systems to prevent and treat cardiovascular inflammatory diseases. He spent the past six years at the University of Illinois.

**Pramod Srivastava**

Pramod Srivastava, Assistant Research Professor, Pharmaceutical Sciences.

Dr. Pramod Srivastava is a pharmaceutical drug development expert. Srivastava has a Ph.D. in biochemistry from the University of Delhi, India. He completed postdoctoral fellowships at the Vanderbilt University Medical Center in Tennessee and at the University of California, Berkeley. He has spent the last nine years as a research scientist in the drug industry.

**Liza Koren-Selfridge**

Liza Koren-Selfridge, Clinical Assistant Professor, Pharmacotherapy.

Dr. Liza Koren-Selfridge teaches pharmacotherapy and instructs in the Applied Patient Care Lab. She also maintains a clinical practice at Providence Sacred Heart Medical Center and Children's Hospital (where she also completed a post-graduate residency) and in this role provides pharmaceutical services to one of the internal medicine teams. She has a Pharm.D. from the University of Washington School of Pharmacy.

**Ayesha Ahmed**

Ayesha Ahmed, Clinical Research Associate, Pharmacotherapy.

Dr. Ayesha Ahmed is a toxicologist with a Ph.D. and master's degree in toxicology.

Before joining WSU, she completed postdoctoral fellowships at the University of Michigan and was a clinical research consultant. At WSU, she assists clinical studies with human IRB involvement. She also provides database support and teaches graduate courses at the College.



American Association of
Colleges of Pharmacy

Rankings

Total NIH, Other Federal, and Non-Federal Principal Investigator Grants

(October 1–September 30)

WSU Rank	# of Ranked Colleges of Pharmacy	WSU Total Grant Cost
FY 2011	43	85
		\$2,429,523
FY 2012	44	86
		\$1,503,166
FY 2013	38	96
		\$3,778,548

source: aacp.org/resources



Linda Garrelts MacLean

Linda Garrelts MacLean, associate dean for advancement and a clinical professor, has been elected to a three-year term on the board of trustees of the American Pharmacists Association. APhA represents more than 62,000 practicing pharmacists, pharmacy technicians and others interested in advancing the profession.

Linda Garrelts MacLean, APhA board of trustees member.

Linda Garrelts MacLean, associate dean for advancement and



Angela Stewart

Angela Stewart has been named the director for the WSU Doctor of Pharmacy program in Yakima. Stewart will coordinate closely with colleagues in Spokane to ensure exceptional training for Yakima-based student pharmacists studying in the WSU professional program.

Angela Stewart, director for the WSU Doctor of Pharmacy program in Yakima.

Angela Stewart has been named the director for the WSU Doctor of Pharmacy program in Yakima, Washington. Stewart will coordinate closely with colleagues in Spokane to ensure exceptional training for Yakima-based student pharmacists studying in the WSU professional program.



Danial Baker

Danial Baker, pharmacotherapy professor and the associate dean for professional and continuing education, has been appointed to a four-year term of the U.S. Food and Drug Administration's Arthritis Advisory Committee. The committee advises the FDA commissioner on the safety and effectiveness of drug products submitted for approval for human use, specifically the marketed and investigational drug therapies that treat arthritis, rheumatism and related diseases.

Danial Baker, U.S. Food and Drug Administration's Arthritis Advisory Committee member.



Connie Remsberg

Connie Remsberg this year dedicated to connecting the College's pharmacy educators to more teaching resources. Remsberg, a clinical assistant professor in the Department of Pharmaceutical Sciences, has been appointed to this position. In her new role, Remsberg will help her faculty colleagues further their skills in teaching excellence.

Connie Remsberg, director for the advancement of teaching and learning excellence.

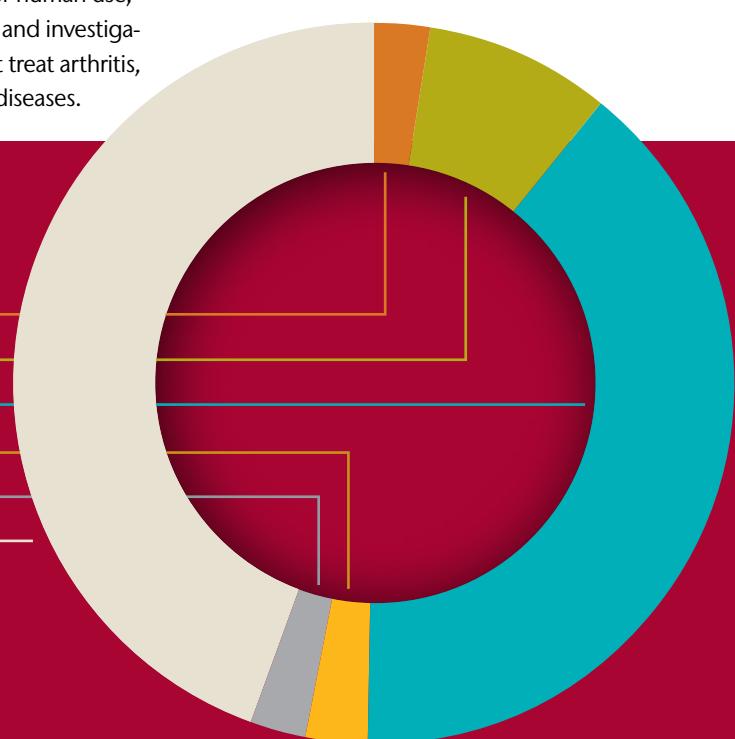
Dean Gary M. Pollack established a new faculty role

Total Budget July 1, 2013 – June 30, 2014



Total Revenue: \$13,289,027

*reported expenditures for the fiscal year





New Knowledge, New Possibilities

A message from
Assistant Vice
President for Research
Andrea Lazarus.

The Office of
Research supports

the research mission of the College of Pharmacy by providing an infrastructure to conduct research efficiently and safely, and promoting clinical research for the advancement of health care while ensuring the highest level of research participant safety. In response to the growing number of research faculty, the Office of Research has developed a number of initiatives to support faculty research and help apply for external funding.

Nic Burnham, research support coordinator, provides advice and assistance in identifying funding opportunities, helps coordinate development and submission of proposals to funding agencies, and tracks research funding and publications. He is working with information technology specialists to develop a database to catalogue laboratory equipment and institute a web-based research networking platform that will provide information about faculty research interests and make it easier to find collaborators.

Ayesha Ahmed, clinical research associate and member of the pharmacotherapy department, is spearheading the effort to ensure that researchers have access to facilities and resources to conduct clinical research safely and securely. She provides assistance with applications to the WSU Institutional Review Board that approves research studies involving humans, and advises on regulatory issues. She also provides training in the use of REDCap, a web-based platform that encrypts participant information, ensuring that confidential health information is maintained securely and participant privacy is maintained. ■

Faculty Scholastic Publications

College of Pharmacy
faculty published



scholarly articles
in 2013; over
two-thirds were
published in peer-
reviewed journals

Original research,
case reports, and
reviews published



Totals for 2014 not yet available.



Case reports, reviews,
and editorials published
in non-refereed journals

The percentage of scholarly articles published in peer-reviewed journals more than doubled from

33%
in 2012 to 69% in 2013



Annual Research Funding Awarded to the College of Pharmacy

	FY2012	FY2013	FY2014
Total Funding	\$3,314,016	\$4,557,213	\$9,123,680
NIH Funding	\$447,642	\$3,160,877	\$4,146,364

This table reports total federal research funding reported for the fiscal year starting October 1 and ending September 30. This is different from the College of Pharmacy's fiscal year starting July 1 and ending June 30. AACP calculates rankings for colleges of pharmacy based on a different reporting list as well. Therefore, these figures vary from the College's total revenues previously listed in this report.

Research Core Directors



Shuwen Wang

Genomics Core:
Shuwen Wang, clinical associate professor.
Whole genome sequencing is the mapping of a person's entire genetic code, and it provides information about a person's susceptibility to certain diseases as well as suggesting optimal treatments. The genomics core uses Next Generation Sequencing technology by Illumina (HiSeq 2500 and NextSeq) that can analyze multiple strands of DNA simultaneously to sequence 10 human genomes in 10 days. (In 2001, it took the Human Genome Project 10 years to sequence just one genome.)



Gang Chen

Mass Spectrometry Core: **Gang Chen,** associate research professor.
Mass spectrometry identifies compounds based on the characteristics of individual molecules and on their charge. This facility can identify drugs, drug metabolites, and unknown proteins in biological samples using instruments such as the Waters XEVO G2-S QTOF/UPLC system and AB Sciex Q Trap 6500 LC/MS/MS-Shimazu Nexera UFLC system.

Flow Cytometry Core: **Diana Browning,** flow cytometry coordinator, College of Veterinary Medicine.

Flow cytometry is a highly quantitative, high-throughput technique that can accurately detect and quantitate different cell components at the single cell level using fluorescent probes. The Flow Cytometry Core facility is located on the third floor of the PBS building and is equipped with a Bio-Rad S3 cell sorter, a Beckman Coulter Gallios 6 cytometer, and a BD Accuri C6 cytometer.



Zuping Xia

Nuclear Magnetic Resonance (NMR) Spectroscopy Core: **Zuping Xia,** associate research professor.

NMR spectroscopy uses the magnetic properties of atomic nuclei to assess the physical and chemical properties of molecules. The NMR spectroscopy facility provides information about the structure of molecules, including drugs, using a Bruker 500 MHz AVANCE II NMR.

Microscopy Core: **Weihang Chai,** associate professor, College of Medical Sciences.

The microscopy facility provides imaging of both biological samples and live cells, and allows three-dimensional reconstruction of images that are collected. Equipment includes an Olympus Fluoview 1000 Laser Scanning Confocal microscope with multi-color imaging and live-cell environmental chambers, and IX81 Motorized Inverted Microscope with Deconvolution.

Health Sciences and Services Authority (HSSA) of Spokane County Supports WSU College of Pharmacy

HSSA has committed 75 percent of its revenues to health sciences research and the infrastructure to support that research. These annual revenues are paying down a \$10.7 million bond HSSA was able to secure through Spokane County in 2010 that provides up-front funding for health sciences research.

Grant awards from HSSA have made it possible to establish core research facilities with state-of-the-art equipment (also accessible to community researchers) in the Pharmaceutical and Biomedical Sciences Building on the WSU Health Sciences campus in Spokane, and to attract accomplished, research-active faculty to the College of Pharmacy. Over the last several years, the HSSA has awarded a total of \$3.4 million to the College in support of new facilities and recruiting top faculty to Spokane. The success and growth of pharmacy research initiatives we have seen in the past few years would not have been possible without this critical support. ■



You could be a part of the lasting legacy of the WSU College of Pharmacy by donating to name a lab or research space in the Pharmaceutical and Biomedical Sciences Building. For more information on naming opportunities contact our Advancement and Alumni Relations Office at 509-368-6675.



Experimental and Systems Pharmacology: Pharmacy researcher fights skin cancer with Zzzs

Circadian rhythms that influence sleep regulate the expression levels of as many as 10 percent of human genes, says Assistant Professor **Shobhan Gaddameedhi** (pictured above). He is researching whether maintaining a healthy sleep schedule will increase genomic stability, thus decreasing mutations as a result of ultraviolet radiation from sunlight exposure like those that result in melanoma, the deadliest form of skin cancer.

He also is studying whether anti-cancer treatments like radiation and chemotherapy can be made more effective by timing them to cellular

sensitivity—in normal and/or malignant tissues— influenced by circadian rhythms. The circadian clock is the molecular time-keeping system that maintains daily rhythms in physiological and biochemical processes of an organism.

"It has been demonstrated that drug administration during certain cycles of circadian rhythms leads to improved efficacy," said **K. Michael Gibson**, Gaddameedhi's chair. "His research holds promise to revolutionize our approach to cancer therapeutics."

"Having outstanding pharmacy faculty members and availability of the WSU Sleep and Performance Research Center is a great opportunity to translate basic findings of the circadian clock and chemotherapy to the clinical level," said Gaddameedhi. ■

Pharmacotherapy: "Save-A-Life" Naloxone Safety Net Project

Funds were awarded to the WSU College of Pharmacy to develop a prevention and awareness program to battle prescription and opiate drug abuse that can be duplicated and repeated across the country.

Shannon Panther, a registered pharmacist in Washington and four other states and clinical assistant professor of pharmacotherapy at WSU, was the lead developer for this project.

Modeled after similar overdose programs nationwide (stopoverdose.org), this program targets people who are in non-healthcare positions within the community, educates them about opiate drug overdose, and teaches interested participants how to save the life of an individual who is experiencing an overdose. At the end of the program, each participant is provided with a lifesaving tool kit.

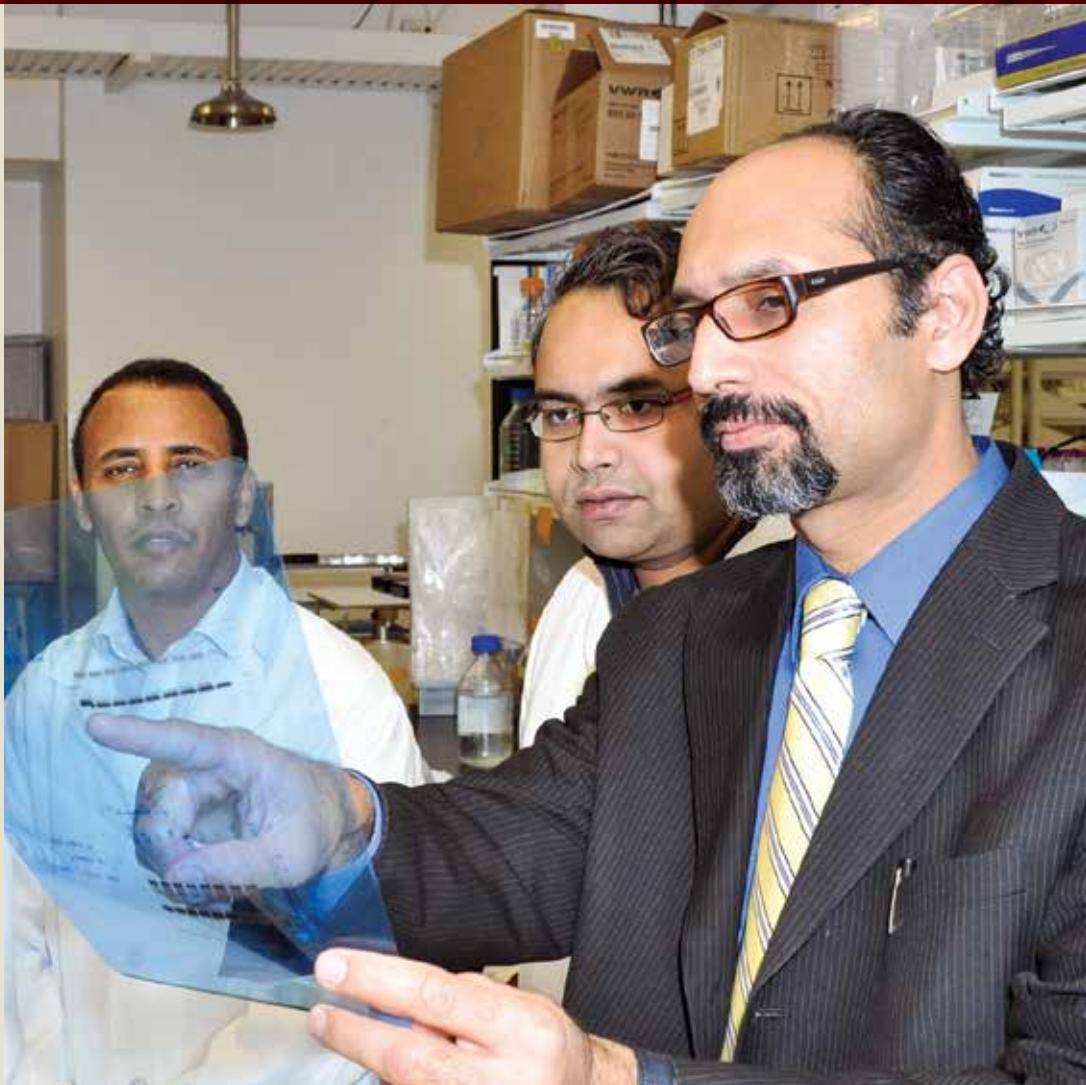
Naloxone has been proven to be effective to reverse an opiate drug overdose, most commonly triggered by hydrocodone, oxycodone or heroin.

The next piece of the project will be surveying participants and measuring participant change in knowledge and perceptions to determine the long term effectiveness of the program. Once Panther and her team demonstrate success for this large group education and delivery model, the program will be used as a template for future intervention programs that will target community groups at high risk for exposure to a drug overdose event.

This November, the WSU College of Pharmacy was selected to receive the Cardinal Health Generation Rx Champions Award from the Washington State Pharmacy Association. This award recognizes excellence in community-based prescription drug abuse prevention. ■



The College of Pharmacy worked with the WSU Police Department to stage an overdose reenactment on the Pullman campus in September to raise awareness of the growing epidemic of opiate drug abuse and overdose. (Save-A-Life photos by Jacqueline Garza, WSU College of Pharmacy)



Pharmaceutical Sciences: Green Tea May Help Rheumatoid Arthritis Ailments

There are a number of reasons why people should increase their consumption of green tea. Green tea is already known to have antioxidant benefits that can help prevent cancer and cardiovascular (CV) disease, and according to findings from the lab of Associate Professor **Salah-uudin Ahmed** (pictured above), small molecules present in green tea can also help prevent inflammation and joint destruction caused by rheumatoid arthritis (RA).

Rheumatoid arthritis is a chronic inflammatory joint disorder that affects over 2 million Americans. It is a leading cause of work-related disabilities and carries significant health care costs due to expensive, yet not entirely effective, therapies that also carry significant toxicity. Ahmed is testing the ability of epigallocatechin-3-gallate

(EGCG), a potent antioxidant found in green tea, to prevent inflammation in cells from the synovial tissues of RA patients. His lab found that EGCG can block inflammatory compounds called 'cytokines' that mediate chronic inflammation and propagate joint degradation in those with RA.

Patients suffering from RA develop CV complications over time and this results in higher risk for mortality and reduced life span. Ahmed is investigating the epigenetic mechanisms responsible for CV complications and also testing novel compounds that can reverse this process.

"The success of these studies may lead to a significant advancement in the development of EGCG or its synthetic analogs as potential treatment for RA and other autoimmune diseases," said Ahmed. His work is supported by research grants from the National Institutes of Health and the Arthritis Foundation. ■

NAMING OPPORTUNITIES

Create a Legacy at the College of Pharmacy

Something very special is happening in Spokane, and this is your chance to be part of it. The consolidation of the College to Spokane and the opening of our new building here on the WSU Health Sciences campus have created a rare, once-in-a-lifetime opportunity to have a permanent legacy in the College of Pharmacy by naming a teaching area, conference room, student gathering area, or laboratory in the Pharmaceutical and Biomedical Sciences Building.

Naming opportunities start at \$25,000 and are recognized forever through permanent signage at the naming location as well as being listed in facilities directories where appropriate. This is a unique opportunity to honor a loved one, a professor who made the difference in your career, a company, or even for you. Funds raised through this effort will support excellence at the College of Pharmacy and enhance learning for our students.

Our Legacy Partners:

- 2013: **Walgreens** donated \$500,000 to name the 150-seat auditorium classroom the “Walgreens Auditorium”
- 2013: **John Oftebro**, class of 1965, named the dean’s conference room the “John Oftebro, Kelley-Ross Pharmacy Dean’s Conference Room”
- 2014: **David Bell** and **Ron Schleif**, both from the class of 1976, along with Ron’s wife Carol Nightengale Schleif, class of 1979, have contributed to name the administrative suite conference room the “Bell Schleif Conference Room.”

This fulfills a long-standing commitment they made as friends and fellow students to “give back” to WSU and the College of Pharmacy.

The College needs your help with this effort! We are hoping to partner with both individuals and corporations, so if you are interested please contact our Advancement and Alumni Relations Office at 509-368-6675. If you would like to have a copy of a naming brochure sent to you, please email gocougs@pharmacy.wsu.edu. Thank you for your support!







Five Student Pharmacists Receive Cardinal Health Scholarships

Cardinal Health has partnered with the WSU College of Pharmacy to support future pharmacists with the goal of community pharmacy ownership. Cardinal Health has donated over \$100,000 for scholarships supporting WSU student pharmacists. This year, student pharmacists **Cassandra Song, Bridget Mumney, Mark Goff, Sekinah Samadi, and Myngoc Chung Son** each received a \$5,000 scholarship from Cardinal Health.

Goff, Samadi and Song also received registration, hotel and airfare to attend the Cardinal Retail Business Conference July 23-26, 2014, in Washington, D.C.

The five scholarship recipients are in their final year of the Doctor of Pharmacy program, and they all want to eventually own their own community pharmacy. In fact, four of the five students have expressed interest in focusing on rural or underserved populations. ■

Student Highlight: Patrick Stoltz



Patrick Stoltz

Doctor of Pharmacy student **Patrick Stoltz** joined an elite group of past WSU student pharmacists this year as he began a two-year term of service on a national

pharmacy student leadership council. Stoltz, class of 2016, is from Lynnwood, Washington, and started his undergraduate work at WSU in Pullman in 2009.

"When I attended the 2013 NCPA legislative conference in Washington, D.C., I had the chance to meet many of the Student Leadership Council members," Stoltz said. "They demonstrated leadership, passion and devotion for pharmacy—characteristics I greatly admire. By applying for the council I wanted to follow in the footsteps of these leaders and help my pharmacist colleagues achieve their goals as well."

He is one of seven WSU student pharmacists to have served on the 16-member Student Leadership Council of the National Community Pharmacists Association in the past six years. The group includes two WSU students who served as president of

the council, including **Jason Doss**, class of 2009, and **Andrew Helm**, class of 2011. Others who served on the council were **Manpreet Chahal**, class of 2010; **Patrick Tabon**, class of 2012; **Erik Nelson**, class of 2013; and **Lisa Garza**, class of 2014. ■

Pharm.D. Student Achievements

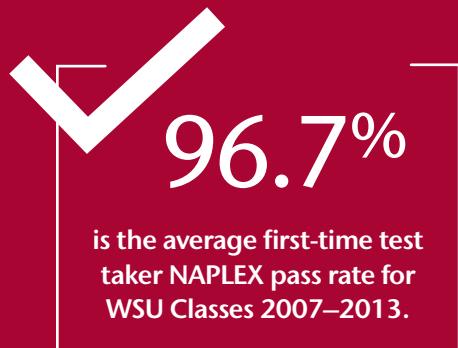
Shurrie Dugas and **Lindsey Schaffer** received the WSU President's Award for Leadership at a ceremony in Pullman on April 24, 2014.

Rachelle Albay received the Larry Bettsworth Scholarship in the amount of \$2,000 from the Providence Health Care Foundation.

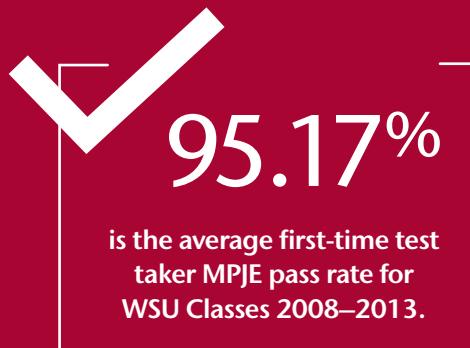
Sean Leonard, Kendall Brenton, and Alex Palmer participated in the national Student Pharmacist Compounding Competition held at the University of Florida in Gainesville, March 22-23. The team placed third overall of the 20 participating colleges of pharmacy.

Jared B. Kavanaugh and Pierce J. Robledo were elected president and vice president, respectively, of the Associated Students of Washington State University in Spokane.

Amanda Norman received the Washington State Pharmacy Association Pharmacy Student of the Year Award.



National average first-time test taker pass rate for the same timeframe is 95.6%. Preliminary results for the Class of 2014 are indicating a greater than 97% first-time test taker pass rate.

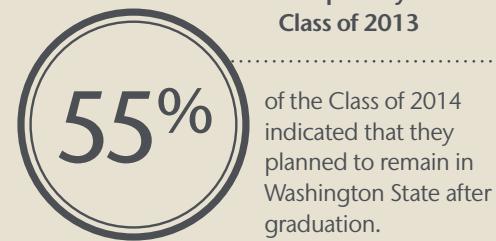


National average first-time test taker pass rate for the same timeframe is 93.03%. 2014 test data not yet available

At the Time of Graduation



vs. 10 residencies accepted by the Class of 2013





The students honored at a luncheon hosted by Dean Gary M. Pollack were (pictured left to right) Megan Foster, Jacinda Pickett, Ashley Tarver, Jennifer Czapinski, Britne Klupenger, Alexandra Palmer, Clell Hasenbank, Matthew Bostwick, and Alex Jensen.

WSU Student Pharmacists Score Well on National Exam

Nine WSU Doctor of Pharmacy Class of 2015 students scored in the 90th percentile or higher on one or more sections of a national curriculum assessment exam administered early in 2014 by the National Association of Boards of Pharmacy.

A score in the 90th percentile means the students scored the same or higher than 90 percent of other third-year students in the normed reference sample. So far this year, 1,838 third-year student pharmacists have taken the exam. One WSU student, **Jacinda Pickett**, scored in the 97th percentile for the total exam.

The national Pharmacy Curriculum Outcomes Assessment exam is a tool used by pharmacy schools to evaluate their curriculums and to provide individual student feedback regarding strengths and weaknesses. There are 220 multiple choice questions, which assess four areas of the curriculum: basic biomedical sciences, pharmaceutical sciences, clinical sciences, and social and administrative sciences.

The students were honored at a luncheon in April hosted by Dean **Gary M. Pollack**. Other faculty, staff and students attended. ■

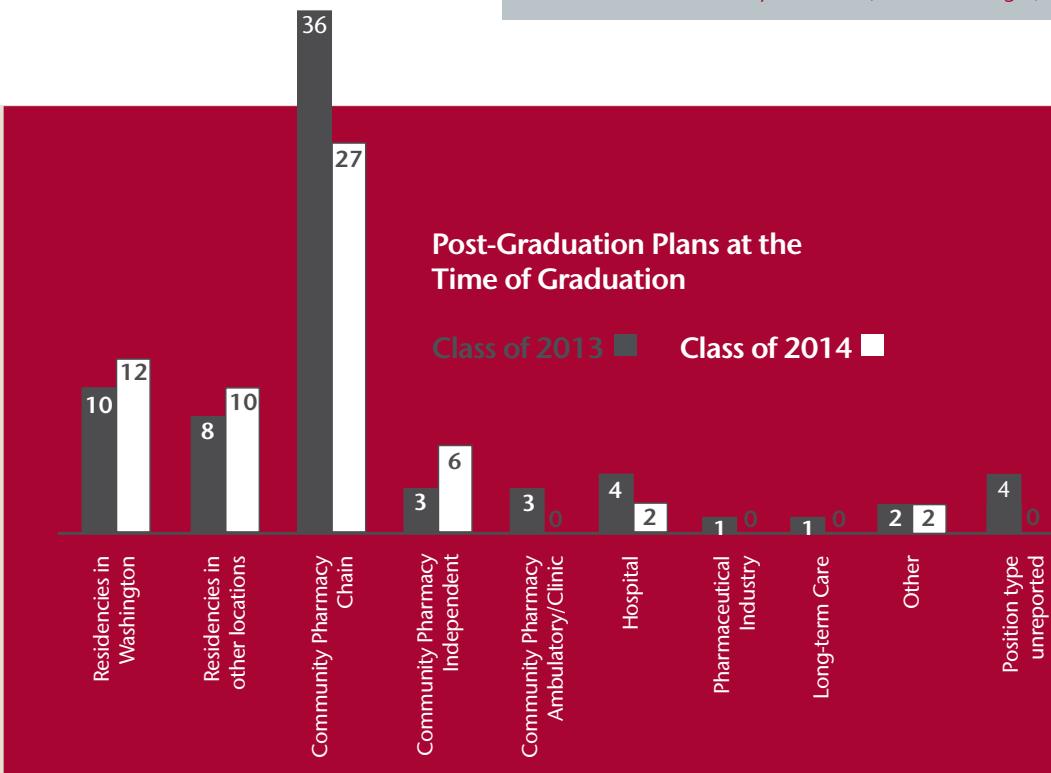


New Ph.D. Students

Anna Sherman, Kyle Morris, Sabrina Fechtner, Sara DaSilva Se Souza, Sihan Wang, and Solomon Agere (not pictured Dunxin Shen and Anna Vergara) were welcomed to campus this fall by graduate programs academic coordinator Lynn Turner (second from right).

18%

of the Class of 2014 reported serving (residency or employment) in an underserved area, evenly split between clinics/pharmacies serving either low-income patients or rural/migrant worker patients. This was up from the 8% reported by the Class of 2013 at the time of graduation.



Post-Graduation Plans at the Time of Graduation

Class of 2013 ■ Class of 2014 ■



Ph.D. graduates

Kara Vogel (pictured above with Dr. K. Michael Gibson) completed her Ph.D. in pharmaceutical sciences in May 2014. She received a master's degree in biochemistry from Michigan Technological University, and a bachelor's in mathematical sciences, numerical and applied analysis from the University of Michigan. Her main research interest is understanding the pathomechanisms of heritable disorders of amino acid metabolism.

Ph.D. degrees awarded in 2014

1

Pharm.D. degrees awarded in 2014

93

Total students assigned per APPE geographic location

Class of 2014

Olympia: 0
Pullman: 3
Spokane: 56
Tacoma: 10
Tri-Cities: 3
Vancouver: 3
Wenatchee: 0
Yakima: 15

Class of 2015

Olympia: 2
Pullman: 3
Spokane: 50
Tacoma: 8
Tri-Cities: 3
Vancouver: 0
Wenatchee: 2
Yakima: 15

Class of 2016

Olympia: 12
Pullman: 6
Spokane: 55
Tacoma: 10
Tri-Cities: 7
Vancouver: 0
Wenatchee: 3
Yakima: 21

of APPE rotation site evaluations for Classes of 2013 and 2014 had students that reported

"At this site, I was able to collaborate with other health care professionals when/if necessary."



Former FDA Administrator Speaks at Commencement

The former chief of staff for the U.S. Food and Drug Administration was the keynote speaker at the commencement ceremony of the WSU College of Pharmacy on Thursday, May 8, 2014.

Susan C. Winckler is a pharmacist and a lawyer. Winckler was previously president and chief executive officer of the Food and Drug Law Institute, an organization committed to providing a marketplace for discussing global food and drug law issues through conferences, publications and member interaction. Her career highlights also include several executive positions

at the American Pharmacists Association in Washington, D.C., and a position as a law partner with a former U.S. Health and Human Services Secretary.

Winckler's selection as the commencement speaker for pharmacy is in alignment with the College's practice of bringing thought leaders to campus. Last year's speaker, Rear Admiral **Scott Giberson**, is a deputy surgeon general and pharmacist.

The College of Pharmacy would like to express its appreciation to Albertsons for sponsoring this year's commencement ceremony. ■



Alumni and Student Mentoring Program

Supported by

Fred Meyer Pharmacy

We were able to match every incoming student pharmacist with a mentor this year, so we would like to say “Thank you!” to all of our current mentors. We believe that one of the great things about being a Cougar pharmacist is getting to learn and develop within the network of the WSU community. This network is the foundation of educating future leaders in pharmacy.

If you are not a mentor, we invite you to participate in this WSU Pharmacy network by joining the Alumni & Student Mentor Program. We are now looking to match the next incoming class, and there is still a need for mentors. Your perspective will help students as they start pharmacy school—even if it’s just helping them feel a little more connected to their chosen career path. This is a great opportunity for you to share your academic and professional experiences and give back to WSU students!

We know being a mentor shouldn’t take over your life, so we’ve designed our program to be flexible around your schedule. Time commitment is as little as two hours a month (email or phone interaction), and you will be invited to meet with your student pharmacist at two events each year. Learn more at bit.ly/wsupharmacymentors.



Linda Garrels MacLean introduces Wayne Clemens as the Alumni of the Year at the 2014 Donor Appreciation Night.

Alumni of the year: Wayne Clemens, class of 1970

Wayne Clemens of Spokane, Washington, has been named the 2013 Outstanding Alumnus of the Year by the College of Pharmacy.

Clemens was presented with the award at an evening celebration on May 2, 2014, in Spokane for his contributions of time, expertise and financial support over many years to students in the Doctor of Pharmacy program interested in pharmaceutical compounding.

His support has allowed many WSU student pharmacists to travel to and participate in compounding training hosted by the Professional Compounding Centers of America (PCCA). Some of the many compounding resources offered by the PCCA are in-house training laboratories and Accreditation Council for Pharmacy Education (ACPE)-accredited continuing education programs.

Past Recipients

- 2012, Nancy Gerstad, class of 1974
- 2011, Greg Gibbons, class of 1982
- 2010, Fred (Fritz) H. McGinnis, class of 1971
- 2009, Robert W. Higgins, class of 1957
- 2008, Gerald Briggs, class of 1968
- 2007, Marshall P. Roberts, class of 1957 and Bert Porter, class of 1950
- 2002, Linda Garrels MacLean, class of 1978
- 2001, Marvin Chamberlain, class of 1975
- 2000, John Swenson, class of 1968
- 1999, Holly Whitcomb Henry, class of 1978
- 1998, John Oftebro, class of 1965
- 1997, Raymond Olson, class of 1957
- 1996, Rick Doane, class of 1971
- 1995, William Gaskins, class of 1968
- 1994, Ron Doane, class of 1950
- 1993, Jim Reavis, class of 1939 and Trudy Reavis, class of 1938
- 1992, Richard Fowler, class of 1950
- 1991, R. Keith Campbell, class of 1964



Merrie Kay Alzola, Leon Alzola, Kelly Sylvester, and Yvette Holman celebrate at the Seattle Football game.

Other WSU Alumni Awards

Bert Porter, class of 1950, received the Spokane Pharmacy Association Lifetime Service Award.

Shon Volk, class of 2007, received the Spokane Pharmacy Association Pharmacists of the Year Award.

Mark Johnson, class of 1982, owner of Tick Klock Drugs in Colfax, Wash., received the Spokane Pharmacy Association Pharmacy of the Year Award.

Merrie Kay Alzola, class of 1993, received the Washington State Pharmacy Association Pharmacist of the Year Award.

John Oftebro, class of 1965, received the Washington State Pharmacy Association Distinguished Leadership Service Award.

Sean Dobbin, class of 1993, received the Washington State Pharmacy Association David Almquist Award.

CougaRx Nation



Meet CougaRx Nation 2014 Chair
Manpreet Chahal.

Greetings! If you're not familiar with the CougaRx Nation, I am very excited you are reading this so you can learn about a great opportunity to reconnect, or stay connected, with your classmates and WSU pharmacy peers.

We started a group just for pharmacy alums because being a Cougar pharmacist is unique and deserves something special. The CougaRx Nation provides opportunities for you to come together with fellow alumni regardless of the year you graduated, where you live, or the practice site you work at.

Especially now in this evolving health care environment, we need to band together to advance our profession, help

each other, and create a stronger network of Cougar pharmacists. Plus, we like to have fun!

Signing up is easy! You can sign up online at: bit.ly/join-coug-rxnation. Cost is \$50 per member or \$75 for a joint membership.

We still encourage people to join the WSU Alumni Association (WSUAA)—after all, we are still Cougars. If you are a lifetime member of the WSUAA, you are automatically a lifetime member of the CougaRx Nation! So if you are a lifetime member, contact the WSU Pharmacy Advancement and Alumni Relations Office for your CougaRx Nation membership card.

Our Golden Grads and Diamond Grads are also automatically lifetime members of the CougaRx Nation, so be sure you come to our events and stay connected! For information on yearly membership, email gocougs@pharmacy.wsu.edu, or call 509-368-6675. Best wishes and Go Cougs! ■



Pictured from left to right are Manpreet Chahal, Steve Riddle, Eleanor Carbett, Jason Doss, Merrie Kay Alzola, Leon Alzola, R. Keith Campbell, Gerald Danquist, John Oftebro, Linda Garrels MacLean, and Chuck Paulsen.

Meet the CougaRx Nation board:

Western Washington

John Oftebro, class of 1965

Brittney Foster, class of 2010

Steve Riddle, class of 1984

Chuck Paulsen, class of 1984

Brandon Arthur, class of 2011

Eastern Washington/Northern Idaho

Keith Campbell, class of 1964

Manpreet Chahal, class of 2008, 2010

Jason Doss, class of 2009

Dalari Allington, class of 2010

Eleanor Carbett

California/Southwest

Kelly Hylton, class of 1999

Midwest

Gerry Danquist, class of 1965

Oregon

Merrie Kay Alzola, class of 1993

Leon Alzola, class of 1991

Mel Coughlin, class of 1973

Wendy Coughlin

COUGARxNATION

WSU PHARMACY ALUMNI COMMUNITY

Join your fellow WSU Cougar pharmacists as a member of the CougaRx Nation! Member benefits include invitations to special events specifically for Pharmacy alumni, discounts for College of Pharmacy activities, and continued learning opportunities. It is a great way to connect and engage with your classmates!

Membership not only provides opportunities to get involved, it's also a way to inspire others and show your Cougar Pride! Your dues are considered a donation to WSU and are tax deductible.

Thank you for your support.
GO COUGS!

Yearly Dues:

\$50 per member

\$75 for joint/couple membership

Join online at
pharmacy.wsu.edu/alumnifriends

We are also seeking Regional Coordinators to share information with pharmacy alumni in their geographic region.

Questions? Contact us at
gocougs@pharmacy.wsu.edu
or (509) 368-6675



William Fassett

Retirement

William "Bill" Fassett

Fassett has had many roles throughout his career as a pharmacist: consultant, professor, department chair, dean, mentor,

collaborator, and colleague. He has served in leadership positions on regional, state and national pharmacy organizations, and also served as a faculty advisor and mentor to many students. But it was one role in particular that stood out to colleagues this summer: advocate for scholarships to support student pharmacists.

Fassett championed the Marguerite Villars Spokane Pharmacy Association Scholarship Endowment at his retirement celebration held during the Washington State Pharmacy Association Northwest Pharmacy Convention in Coeur d'Alene, Idaho, on May 30, 2014.

As a way to honor Fassett's legacy, guests at his retirement celebration participated in a live and silent auction which raised over \$22,000 to fully fund the Villars/SPA endowment.

Fassett and his wife, Sharon, have been volunteers for the Spokane Pharmacy Association for many years, and the Villars/SPA endowment is Fassett's favorite cause. It was previously an annual scholarship that supported students in the WSU Doctor of Pharmacy program. Now that the fund has been fully endowed, it will continue to generate scholarship support for students for generations to come.

Fassett, who retired from the WSU College of Pharmacy in May, was with the College for 15 years. He was also honored at an afternoon reception at the WSU Health Sciences campus in Spokane on May 21, 2014.

To make a donation to the Marguerite Villars Spokane Pharmacy Association Scholarship Endowment in Bill Fassett's name, please visit secure.wsu.edu/give/default.aspx?fund=3284. ■



Pictured from left to right are Dean Gary M. Pollack, Bill Campbell, Jill Kerrick-Walker, Nick Bruck, Merrie Kay Alzola, Frank Cholaj, John Oftebro, David Doane, Gerald Danquist, Steve Riddle, and Associate Dean Linda Garrels MacLean.

Dean's Advisory Council

Merrie Kay Alzola, class of 1993, of Washougal, Washington

David Bell, class of 1976, of Lacey, Washington

Nick Bruck, class of 2004, of Spokane, Washington

Bill Campbell of Easton, Washington

*Manpreet Chahal, class of 2008 and class of 2010, of Spokane, Washington

Frank D. Cholaj, class of 1982, of Spokane, Washington

Gerald A. Danquist, class of 1965, of Carmel, Indiana

David J. Doane, class of 1986, of Kirkland, Washington

Jill Kerrick Walker, class of 1987, of Portland, Oregon

Janet Kusler, class of 1980, of Snohomish, Washington

John Oftebro, class of 1965, of Redmond, Washington

Steven M. Riddle, class of 1984, of Seattle, Washington

*New board member



Congratulations to our 2014 Golden Grads! Your support over the years is so appreciated. (Those attending our spring event from left to right: Bob and Nancy James, James and Darlene Arthurs, Charlie and Gwen Odenburg, Larry Dixon, R. Keith Campbell, Julie Marshall, and Steve Johnson.)



Scholarship Highlight

Dr. Robert Higgins, a former Navy rear admiral and class of 1957, established the **Barbara Higgins Memorial Scholarship in International Health Sciences** in memory of his late wife, Barbara, who loved to travel the world in service to others. The scholarship is awarded to student pharmacists traveling to international locations as part of their studies. Each year 2-3 students receive travel grants that repay them for a portion of their international travel.

"The Vietnam rotation (pictured above) allowed me to familiarize myself with foreign drugs and apply my skills acquired in pharmacy school... By continuing to interact with patients from a different culture, I see the importance of being aware of cultural differences. Understanding our patient culture will help break down cultural barriers and allow me to provide better care for my patients."

—May Myngoc Chung Son, class of 2015

Did you know that



of Cougar
pharmacists
gave back to the
College in the last
fiscal year?

Your donation provides vital support for events, programs and—most importantly—student scholarships.

New Endowments

Endowments are important because the principal sum generates interest that is spent according to the donor's gift use agreement. Most of the College's endowments are for student scholarships. Others support professorships, research, lectureships, and other expenses associated with scholarly work. We have one new endowment this year:

Marguerite Villars/Spokane Pharmacy Association Scholarship Endowment

The Marguerite Villars/Spokane Pharmacy Association Scholarship supports a student pharmacist who demonstrates a commitment to community service and leadership. Student pharmacist Renee Wilson, class of 2016, was the recipient for the 2014-2015 academic year. She exemplifies everything we hope to see in the future leaders of pharmacy practice. Here is a short excerpt from a letter we received from Renee on how this scholarship has helped her:

"This scholarship definitely helped lighten my financial burden, but more importantly, I feel this scholarship allowed me to feel like I am doing exactly what I need to be doing... receiving a scholarship is very reassuring that I am an individual who can and is helping improve the face of pharmacy."

—Renee Wilson, class of 2016

Flexible Endowments

Establishing an endowed scholarship requires a minimum principal sum of \$25,000. For those who want to invest over time instead of in one lump sum, a flexible endowment is a great solution because you are able to create a lasting scholarship fund while seeing students benefit now. Please contact the College's Advancement and Alumni Relations Office for more information on creating a flexible endowment: 509-368-6675 or gocougs@pharmacy.wsu.edu.

New benefactors

The College of Pharmacy recognized four new Benefactors and one new Crimson Benefactor for the 2014 fiscal year. Benefactors are those who have reached the cumulative giving milestone of \$100,000 or more to the College of Pharmacy. **Walgreens** was recognized as a Crimson Benefactor, a distinction for those who have contributed \$500,000 or more.

These five Benefactors, honored at the donor appreciation event on May 2, 2014, represent over \$1 million in combined giving to the College of Pharmacy in support of student scholarships and academic programs.

Benefactors:

Gerald Danquist, class of 1965

Larry Dixon, class of 1964

Cardinal Health

Providence VNA Home Health

Crimson Benefactor

Walgreen Company

This Donor Roll is a list of those who invested in us during the 12-month period from July 1, 2013, through June 30, 2014. We strive to be accurate, but if we have made a mistake with any detail of your gift or your name, please accept our apology and please let us know about it. You may reach our Advancement and Alumni Relations Office at gocougs@pharmacy.wsu.edu or 509-368-6675. If you made a gift after June 30, 2014, your gift will be reflected in next year's annual report.

Laureates

Lifetime gifts of \$1 million or more

Rick '71 and Jacquelyne '72 Doane
Eli Lilly & Company Foundation
+Charles Harrison '44
+Margit Harrison '40

Crimson Benefactor

Lifetime gifts of \$500,000 to \$999,999

Walgreen Company

Benefactors

Lifetime gifts of \$100,000 to \$499,999

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+Robert Simmelink '49
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James '83 and Christina Torina
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The College of Pharmacy is pleased to announce that we awarded over \$300,000 in student scholarships this year!

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For information about giving to the College of Pharmacy please visit our website at pharmacy.wsu.edu or call our alumni relations office at 509-368-6675.



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