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A MESSAGE FROM  
GARY M. POLLACK

October 2017

Dear Friends and Colleagues:

Greater Spokane Incorporated (GSI), the Spokane regions business development organization, has launched "[Vision 2030](#)", which is focused on maximizing the economic impact associated with vibrant health/life sciences research and health professions education activities. Consequently, the city's University District in general, and Washington State University in particular, are viewed as playing a prominent role in bringing this vision to fruition, and I am happy to be involved in this effort as a member of the Bioscience R & D Committee. The transformation of the regional economy that GSI envisions is an ambitious goal, but not without precedent. Similar efforts, which were largely successful, were pursued in Durham, NC, while I was rooting for male sheep instead of mountain lions.

The WSU College of Pharmacy already has played a significant role in establishing part of the foundation upon which Vision 2030 is laid. Although we have not performed a formal economic impact analysis, the impact of our college's intact presence in Spokane for the last three and one-half years is significant. We have a community of approximately 700 professional and graduate students, staff, and faculty who live, work, and play in and around Spokane. Our annual input into the local economy, largely through salaries paid with state funds and through research grants and gifts, is approaching \$15 million. These are modest numbers relative to the population and total economy of the region, but not an insignificant contribution.

It is easy to focus on, and perhaps get distracted by, the economic argument. After all, growing a strong economic base is of obvious importance for the community, and dollars can be counted relatively easily. However, other aspects associated with establishing a community of learners, scholars, and scientists are of unique social value, and our college has been a strong contributor in this regard. We have recruited students and faculty from around the country, indeed from around the world, adding to the diversity of our community. We are contributing to the development of an educated biosciences workforce, which is a prerequisite for attracting health and life sciences industry to the region. We are preparing at the highest level health care professionals; improving community health, and providing adequate health care options, are crucial to creating an environment that is welcoming to industrial research and development. The successful consolidation and subsequent growth of our college on WSU's Health Sciences campus served as a useful proof-of-concept for establishing the Elson S. Floyd College of Medicine. Given the community value of a medical school, our efforts to "plow the road" were of substantial importance.

It is exciting to think about how Spokane will grow and develop over the next decade. It is gratifying that our small college is in position to be an important contributor.

Best wishes,



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

## UPCOMING EVENTS



CougaRx Nation Reception  
at NCPA  
Kissimmee, FL  
[RSVP](#)



Crimson Gala  
Pharmacy Homecoming  
Weekend  
[Register](#)



Football Tailgate  
Pharmacy Homecoming  
Weekend  
[Register](#)



Career Fairs  
Yakima & Spokane  
[Vendor Registration](#)  
[Reception RSVP](#)  
[More college events »](#)

## COLLEGE NEWS



### WSU graduate student showcases skin cancer research

SPOKANE, Wash.—Soumayadeep “Sam” Sarkar, a student in the pharmaceutical sciences Ph.D. program at Washington State University in Spokane, studies skin cancer. [Read more »](#)



### Provost features pharmacy faculty member during football game

Provost Dan Bernardo recognized John Clarke and Deb Nelson as the Provost’s Featured Faculty Members during the September 23 football game. [Read more »](#)



Dear Alums, Colleagues and Friends of Pharmacy,

I am looking forward to seeing everyone for Pharmacy Homecoming Weekend, which is fast approaching! The highlight of the weekend events will be, for me at least, the honoring of an esteemed professor, mentor and friend: Professor Emeritus R. Keith Campbell. If you have not heard, Keith will be receiving the college's Lifetime Achievement Award during the Crimson Gala on Friday October 20.

As part of our evening, we are gathering short anecdotes about Keith to display with a slide show before the program. If you have a thought, thank you or example of how Keith has influenced you in your education, career or life, please share it with us (photos too)! [Click here to share your story.](#)

If you have not RSVP'd for a seat or to sponsor a table, please do so soon! We are almost at capacity – I would not have expected anything less when we are gathering to celebrate such a special person. There are few that I know of who have not only left an imprint, but have completely molded the advancement of the pharmacy profession like Keith Campbell. I hope that you can [join us](#) in this celebration.

And speaking of world leaders in pharmacy, the WSU College of Pharmacy has been on the world stage recently. I have just returned from the International Pharmaceutical Federation meeting (FIP) in Seoul, South Korea. The following WSU posters were presented:

- Advancing pharmacy practice: utilizing technicians to administer immunizations (Kimberly McKeirnan)
- Human papillomavirus and teenagers: increasing knowledge and assessing barriers to vaccination (Linda Garrelts MacLean)
- Implementation of a naloxone rescue program creating university-aged first responders (Linda Garrelts MacLean)

Additionally, I had the privilege to serve as co-chair for the session titled "Nurturing pharmacy – Opportunities and Challenges." Looking at the future of pharmacy through a world-wide lens creates the opportunity for us to think more broadly about our program. Two days of this trip were spent with other deans from around the world. It is gratifying to see the move to competency-based assessment of student learning in many nations; as WSU continues to lead in this arena, there was interest from both Australia and the United Kingdom to attend our pedagogy institute titled "Innovation and Transformation in Pharmacy Education" in June 2018.

Next year, our very own Julie Akers and Kim McKeirnan will be presenting at FIP in Glasgow, Scotland. Dr. Akers will be speaking on "Preparing And Utilizing Pharmacists To Improve Outcomes For Patients With Hepatitis C" and Dr. McKeirnan will be presenting at the technician symposium on training pharmacy technicians to administer immunizations.

I look forward to seeing many of you this month,

A handwritten signature in black ink that reads 'L Garrelts MacLean'.

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

## ALUMNI NEWS



## SWIPE

WSU Pharmacy professor Anne Kim led the inaugural SWIPE Faculty Development Program this month. This training prepares faculty to facilitate interprofessional education in their classrooms and practice sites. [View photos »](#)



## EMAIL UPDATE

Not receiving email from us? The WSU email system has changed to Office 365! To ensure your WSU email account gets updated, please follow these steps.  
 1. Reset your account [here](#).  
 2. Then using your new account information [login here](#).



## MEMORIES

As part of the Crimson Gala we will be awarding R. Keith Campbell with our Lifetime Achievement Award! During the ceremony, we would love to share stories and photos from his friends, students and colleagues. [Submit stories & photos here »](#)



**BECOME A MENTOR!**

One of the great things about being a Cougar pharmacist is getting to learn & develop within the WSU community.

**SIGN-UP  
HERE**

## ALUMNI UPDATES

- David Butler, class of 2016, accepted a fellowship in infectious diseases at the University of Illinois at Chicago. While completing his fellowship he intends to concurrently pursue a master's degree in clinical and translational sciences.
- Jordan Haas, class of 2016, was chosen for the Puget Sound VA PGY-2 Health System Pharmacy Administration Residency. During this residency, he will be trained to support and enhance patient care by promoting safe, effective and efficient medication use while developing knowledge and expertise in pharmacy administration and leadership.

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

## FACULTY SCHOLARSHIP

## Publications

- Pharmacotherapy Clinical Assistant Professor **Kimberly McKeirnan**, Pharmacotherapy Academic Fellow **Taylor Bertsch**, Pharmacotherapy Clinical Assistant Professor **Shannon G. Panther**, and one co-author published, "Training student pharmacists to perform tuberculin

skin testing utilizing team-based learning,” in the American Journal of Pharmaceutical Education. [View article »](#)

- Pharmacotherapy Professor and Associate Dean for Professional and Continuing Education **Daniel E. Baker** and Specialty Resident in Drug Information **Zaynah Ali** published, “Ocrelizumab,” in the journal Hospital Pharmacy.
- **Daniel Baker** and one co-author published, “Drug evaluation – Sarilumab (Kevzara): updated evaluation,” in Wolters Kluwer Health’s The Formulary Monograph Service (FMS) in September 2017.
- **Daniel Baker** published, “Drug evaluation – Midostaurin (Rydapt),” in The FMS in September 2017.
- **Daniel Baker** and **Zaynah Ali** published, “Drug evaluation – Edaravone (Radicava),” in The FMS in September 2017.
- **Daniel Baker** and one co-author published, “Drug evaluation – Brigatinib (Alunbrig),” in The FMS in September 2017.
- **Daniel Baker** published, “Drug evaluation – Durvalumab (Imfinzi),” in The FMS in September 2017.
- **Daniel Baker** published, “Drug utilization evaluation – Sarilumab (Kevzara),” in The FMS in September 2017.

#### Presentations

- Pharmaceutical Sciences Associate Research Professor and U.S. Transuranium and Uranium Registries (USTUR) Director **Sergei Tolmachev**, USTUR Assistant Research Professor **Maia Avtandilashvili**, and USTUR Assistant Research Professor **George Tabatadze** presented, “Analysis of ‘high-fired’ plutonium oxide in tissues of exposed workers,” at the 6th Asia-Pacific Symposium on Radiochemistry in Jeju Island, Korea on September 17 – 22, 2017. [View abstract »](#)
- **George Tabatadze**, **Sergei Tolmachev** and one co-author presented, “Digital autoradiography of bone-seeking radionuclides in human,” at the 6th Asia-Pacific Symposium on Radiochemistry in Jeju Island, Korea on September 17 – 22, 2017. [View abstract »](#)
- Pharmacotherapy Associate Professor **Joshua J. Neumiller** presented, “Diabetes update,” for the Spokane Pharmacy Association in Spokane, Washington on September 18 and 19, 2017.
- Pharmacotherapy Clinical Professor **Terri L. Levien** presented, “Drugs in the pipeline,” at the Annual Meeting of the American Medicaid Pharmacy Administrators Association/Western Medicaid Pharmacy Administrators Association in Boise, Idaho on August 28, 2017.
- Pharmaceutical Sciences Assistant Professor **Shobhan Gaddameedhi** and four co-authors presented, “Circadian clock regulates the melanogenesis pathway through MITF in mouse and human models,” at the 48th annual meeting of Environmental Mutagenesis and Genomics Society in Raleigh, North Carolina, on September 10–11, 2017.
- **Shobhan Gaddameedhi** and six co-authors presented, “Circadian clock disruption by simulated shift work affects DNA repairs in humans,” at the 48th annual meeting of Environmental Mutagenesis and Genomics Society in Raleigh, North Carolina on September 10–11, 2017.
- **Shobhan Gaddameedhi** presented, “Circadian regulation of DNA damage response as a mechanism for cisplatin chronotherapy,” at Campbell University College of Pharmacy in Buies Creek, North Carolina on September 13, 2017.

#### Service

- **George Tabatadze** was selected as the president-elect for the Columbia Chapter of the Health Physics Society. He will serve as the president-elect, president, and past president for next three years. The Columbia Chapter of the Health Physics Society is a professional organization whose members are specialists in radiation safety.

#### Grants

- Pharmaceutical Sciences Professor **Jiyue Zhu** received \$1,320,950 over four years from the National Institutes of Health as a renewal on his R01 project, “Repression of the hTERT gene during cell differentiation.”
- Pharmaceutical Sciences Associate Professor **Mary Paine** received \$5,351,722 over three years from the National Institutes of Health for the transfer of the U54 project titled, “Natural Product-Drug Interaction Research: The Roadmap to Best Practices.”
- Pharmacotherapy Professor **K. Michael Gibson** received an administrative supplement in the amount of \$289,567 over the next year from the National Institutes of Health for the project titled, “Rapalog Therapy in Heritable and Vigabatrin-Induced GABA Metabolic Disorders.” The supplement establishes a consortium with the McPherson Eye Research Institute at the University of Wisconsin, Madison, in collaboration with Dr. Gillian McLellan, to explore the ocular pharmacotoxicology of the antiepileptic drug vigabatrin. The studies employ state-of-



the-art optical coherence tomography, a technique at the forefront of real-time vision research.

#### Awards

- Pharmaceutical Sciences Assistant Professor **John D. Clarke** was recognized as the Provost's Featured Faculty Member during the Washington State University football game on September 23, 2017. [View article »](#)

## STUDENT ACHIEVEMENT

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

- **Xinyue Dong**, pharmaceutical sciences (Z. Wang lab), presented the poster, "Nanovesicles derived from neutrophil membrane target inflamed endothelium to prevent cerebral ischemia/reperfusion injury," at the 15th International Nanomedicine & Drug Delivery Symposium in Ann Arbor, Michigan on September 22, 2017.
- **Soumyadeep Sarkar**, pharmaceutical sciences (Gaddameedhi lab), **Panshak Dakup**, pharmaceutical sciences (Gaddameedhi lab), faculty co-author **Shobhan Gaddameedhi**, and two additional co-author presented, "Circadian clock regulates the melanogenesis pathway through MITF in mouse and human models," at the 48th annual meeting of Environmental Mutagenesis and Genomics Society in Raleigh, North Carolina on September 10-11, 2017.
- **Panshak Dakup**, faculty co-author **Shobhan Gaddameedhi**, and five co-authors presented, "Circadian clock disruption by simulated shift work affects DNA repairs in humans," at the 48th annual meeting of Environmental Mutagenesis and Genomics Society in Raleigh, North Carolina on September 10-11, 2017.
- **Soumyadeep Sarkar** received a Student and New Investigator Travel Award from the Environmental Mutagenesis and Genomics Society in the amount of \$760.
- **Soumyadeep Sarkar** received the Erwin and Jennie Foisy Scholarship from the Washington State University College of Pharmacy in the amount of \$500.

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

- **Uzoma Mbogu** with faculty co-author Danial Baker published, "Drug evaluation - Brigatinib (Alunbrig)," in The FMS in September 2017.

## JOBS

- [Clinical Assistant Professor](#)  
Pharmacotherapy - Virginia Mason Memorial Hospital



## College of Pharmacy

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