

Spring 2009
News for Alumni and Friends of the College of Pharmacy

BEAVERX
pharmacy.oregonstate.edu
BeaverX

Pharmacy Student Performs Outreach in Niger

See story on page 6.



Vivian Nguyen ('08)

Also inside:

- ◆ Keeping tabs on our alumni
- ◆ Faculty research and accomplishments
- ◆ Students and benefactors connect
- ◆ Special donor recognition



Dear Alumni and Friends,

January 2009 marked the tenth anniversary of my arrival as dean. It has been an amazing journey and we have made remarkable progress. It is now time for another transition; the search for a new dean has begun. It is anticipated that this process will take six months to a year, during which time I will continue to serve as dean. I will share my personal plans for the future in another newsletter. As we anticipate fresh ideas and directions, let me reflect upon a few milestones and accomplishments.

The professional degree program is fully implemented and is the only fully accredited professional pharmacy degree program in the state. Curricular content far exceeds national accreditation standards, including experiential training throughout all four years. For the last two years, 100 percent of our graduates have passed the NAPLEX licensing exam on the first attempt, with a five-year pass rate exceeding 99 percent. These numbers place our graduates in the top 10 percent nationally. Twelve percent of our 2008 graduates entered ASHP accredited residency programs. Our graduate programs underwent a rigorous review and approval process and continue to thrive, with 24 to 30 students in progress each year. Instructional faculty has grown from 27 in 1999 to 34, with 23 hired since 1999.

The college created two academic departments: Pharmaceutical Sciences and Pharmacy Practice. A clinical faculty pathway was developed that serves as a model for other colleges on campus. The new position of assistant dean for scholarship was established to promote research in both departments. The Experiential Programs office has expanded to 2.5 faculty plus staff support on both campuses. In collaboration with five other pharmacy programs in the Northwest, OSU faculty implemented an online preceptor training process and standardized rotation calendars and assessment tools. The student services offices (admissions and advising) expanded to two faculty and one graduate assistant.

We signed a Memorandum of Understanding with Oregon Health & Science University, designating the College of Pharmacy as one of the

OHSU professional schools and authorizing the Pharm.D. degree as a joint degree between the two universities. Portland faculty, staff, and third-year students took occupancy of 10,000 sq. ft. of new office space, laboratories, and classrooms in the OHSU Center for Health and Healing building in Portland.

Faculty salaries are more competitive, rising from the 25th percentile compared to other universities in 1999 to nearly the national average in 2008. Research funding and expenditures have nearly doubled since 1999, reaching \$3.5 million in 2008. Our faculty rank number one on campus for research dollars per faculty and the college ranked second only to the College of Engineering for invention disclosures and patents in 2008.

A new position of director of alumni and student relations was established and several new student and alumni events were initiated. Our Web site and electronic communications were enhanced. Seventeen new endowments for scholarships, student programs, graduate student support, and research were established. We are approaching the halfway point with our current fundraising goals.

On a personal note, during my time as dean, I visited nearly every corner of the state and met alumni and friends of the college throughout Oregon and beyond. It was my privilege to be elected president of the Oregon State Pharmacy Association and to serve as a member of the Oregon Society of Health Systems board of directors. I also participate in the Oregon State Pharmacy Coalition.

Despite these accomplishments, many challenges remain. I am continuing to work hard at addressing these challenges as we build a bright future for our students and the College of Pharmacy.

Sincerely,

Wayne A. Kradjan, Pharm. D., B.C.P.S.
Dean and Professor

P.S. You can help us meet one of our fundraising goals by writing a check for \$1,000 today. Our goal is 100 donors by June 30!

Where are they Now?

Thousands of College of Pharmacy alumni are scattered throughout the world, and each has his or her own story to tell. Our graduates make many decisions along the way—decisions about continuing education, residencies, professional involvement, family life, hobbies, and more. Although career paths twist and turn, and the shape of each life is unique, our graduates are always Beavers at heart.

As these career pharmacists look back at the chosen path, they may recognize how much they have to offer to those just beginning the journey. Or they may see where their distinctive paths have brought learning and insights that can enhance the profession and take it to a new level.

Below are interviews with five graduates who illustrate the dynamic personalities and breadth of career choices among our alumni. For more stories, see our Web site at pharmacy.oregonstate.edu, and keep your eyes on future issues of *BEAVERx*.

Bob Coulter ('73)

Current position: Owner, Red Cross United Drug, La Grande, Oregon

Family: Wife (Sue, '77), two sons, one daughter, three granddaughters

Q: What is your favorite memory of pharmacy school?

A: The first thing that comes to mind is the friendships with a handful of classmates. In hindsight, I enjoyed being in a learning environment. At the time it was a lot of work, but I enjoyed it.

Q: What was your most valuable experience in pharmacy school?

A: Learning how to learn and how to take the foundational training they gave us and



Bob Coulter

continuing to enjoy learning and using that throughout my career.

Q: Are you involved in any organizations outside of your position?

A: I served on the board of directors for United Drug, which helps independent stores stay independent and bring profitability. We bring programs to increase their profitability and be more competitive.

Q: What is one thing people would be surprised to know about you?

A: I lead one- and two-week medical mission teams to Ecuador, Nigeria, China, and the Dominican Republic. The Fellowship of Christian Pharmacists sends out newsletters listing its needs for doctors, nurses, and pharmacists to go to give free medical care, and when our business grew to where we could go, we did. We will be taking a team of 40 to Ecuador to work with 20 different people in Ecuador to serve several thousand. This will be my seventh trip to Ecuador and I've led 14 different teams total. I'm always looking for pharmacists, so if anyone reads this and is interested, they can contact me.

Q: What advice would you give to aspiring pharmacists?

A: Explore independent community pharmacy. It is a wonderful experience and there is a huge opportunity in ownership in the next few years—a lot of baby boomers will want to get out and retire, so it is a big opportunity.

Jeff Harder ('77)

Current position: Owner, West Main Pharmacy, Medford, Oregon

Family: Wife (Wendy), one daughter, one son

Q: How did you end up in your current position?

A: After graduation, I went to work for Harbor Drugs in Brookings and got a lot of experience. After three and a half years, I ventured out and became a partner at Valley West Drug. After nine years, I bought West Main Pharmacy. I've been here 20 years.

Q: What do you enjoy most about your position?

A: I guess it's the ability to interact with people—customers, staff, and other pharmacists.

Continued on page 4



Jeff Harder

Continued from page 3

Q: Are you involved in any organizations outside of your position?

A: Right now, I'm on Good Neighbor Pharmacy Regional Advisory Board. It helps steer their program development to better assist the independent pharmacist. We give them insight as to what we are looking for and what we need help with. They try to develop programs to accommodate that. I served on the board of OSPA for years and was the president there from 2003-2004. I am still a member.

Q: What is one thing people would be surprised to know about you?

A: I was very different when I first started pharmacy school; I used to be very shy and avoided involvement. Now I encourage it. People who knew me back then would be surprised about that.

Q: What advice would you give to aspiring pharmacists?

A: Get involved. I think it's important for pharmacists to join and become actively involved in pharmacy organizations. They need to be involved, even at the political level. The profession is constantly changing, and they need to be part of the change, not just taking what is handed down to them. The more I got involved, the more people I met and I found I enjoyed pharmacy more with that involvement.

Penny Ellings Reher ('82)

Current position: Director of Pharmacy, Samaritan Health Services, Corvallis, Oregon

Family: Husband (Ron), two sons

Q: What is your favorite memory of pharmacy school?

A: Lee Strandberg's endless assortment of suits. He had the Johnny Carson collection—wore a different suit each day. Gregory Fink wearing black to every exam.

Q: What was your most valuable experience in pharmacy school?

“The more I got involved, the more people I met and I found I enjoyed pharmacy more with that involvement.”

—Jeff Harder

A: I think it was surviving Dr. Scissons' pharmaceuticals class. They did it differently then; it was a very strict format and you learned that with concerted effort, you could be successful.

Q: How did you end up in your current position?

A: I had a wide variety of experience in many areas of pharmacy, including retail, hospital, long-term care, and home infusion, so I understood the specific nuances of each specialty area of pharmacy.

Q: What do you enjoy most about your position?

A: The ability to create new programs. Since I've been in this position, we've begun retail and long-term care and pharmacist-embedded physicians' practices and anticoagulation programs; we brought home and ambulatory infusion together into one program. We've managed pharmacy benefits for our employees and we've started a pharmacy residency program.

Q: Are you involved in any organizations outside of your position?



Penny Ellings Reher

A: I'm on the board of Corvallis Caring Place, a not-for-profit care facility, and on the finance committee for our church. I have memberships in ASHP and OSHP, but I'm not currently holding any offices. I think it's important to stay connected to your community and give back to the community you live in.

Q: What is one thing people would be surprised to know about you?

A: I actually did attend the U of O for a short period of time, but I don't root for the Ducks—ever.

Q: What advice would you give aspiring pharmacists?

A: Always remain hopeful and believe that you can accomplish your dreams.

Dan Kennedy ('93)

Current position: Outpatient Pharmacy Operations Manager, Oregon Health and Science University

Family: Wife (Sharon), one daughter, one son

Q: What was your most valuable experience in pharmacy school?

A: Although there were many, one of my most valuable experiences was working with a variety of preceptors who displayed a high degree of patience and a willingness to share their insights.

Q: How did you end up in your current position?

A: My background is in community pharmacy, working in a variety of settings including independent, chain, grocery and now outpatient. My current position at OHSU involves managing the operations of five outpatient pharmacies.



Dan Kennedy

Q: What do you enjoy most about your position?

A: I think there is incredible potential for pharmacy in every practice setting. I enjoy the variety that comes from working at an academic teaching institution, as well as the challenge that comes with a very dynamic environment.

Q: Are you involved in any organizations outside of your position?

A: In April, I'll be installed as president of the Academy of Pharmacy Practice and Management for the American Pharmacist Association. I'm also serving my third term and am vice chair of the Oregon Health Resources Commission. I have been very active in outside organizations since I was a student pharmacist. I believe it's essential in an environment of health care reform that pharmacists play an active role in determining the future of our profession. We are our best advocates.

Q: What advice would you give to aspiring pharmacists?

“I think it's important to stay connected to your community and give back to the community you live in.”

—Penny Ellings Reher

“I believe it's essential in an environment of health care reform that pharmacists play an active role in determining the future of our profession.” —Dan Kennedy

A: I would tell student pharmacists that pharmacy remains an excellent career choice and that their hard work and effort will pay off. Don't listen to negativity; there is more opportunity in pharmacy today than ever before. Also, recognize that you can be a clinical pharmacist and practice in a community setting and perhaps that is where the greatest need lies.

Frank Duhn ('01)

Current position: Owner, Clinic Pharmacy, Prineville, Oregon

Family: Wife (Dena), three daughters

Q: How did you end up in your current position?

A: I entered the pharmacy program with the idea of having a pharmacy in a small town. It didn't have to be Prineville, but the previous owner of the pharmacy, Marv Jensen, had invited me to spend some time in the pharmacy to get my hours up. And then when it came close to graduation, Marv made an offer to help me buy the pharmacy. So we ran with it. I had actually purchased the pharmacy before we got to graduation.

Q: What do you enjoy most about your position?

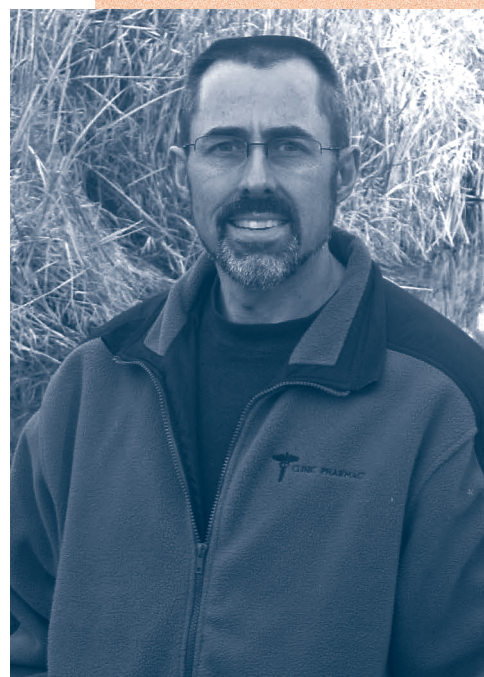
A: My favorite part is when I get to interact with the customers and local physicians beyond just saying, “Here's your prescription. That will be \$12.” When I get to interact with them beyond being just a customer—learning their history, why they went to the doc, and looking at if this regimen is going to be the best for them. That is what I really like.

Q: Where do you see yourself in five years?

A: The future for independent pharmacy is questionable at best, so will I remain independent? I'd like to. I might have to change the business model to go into consulting pharmacy or go into MTM. It's hard to say. We have some meetings coming up with business consultants to ask that very question.

Q: What advice would you give aspiring pharmacists?

A: Learn how to communicate with anybody. You are going to have customers, patients that are anywhere from 6 to 60 years old. You have all this knowledge about a specific medicine, but if you can't communicate it at a practical level, the knowledge is all for not. ♦



Frank Duhn

West African Medicine Presents Vivid Challenges for Pharmacy Student

2008 College of Pharmacy graduate Vivian Nguyen expected “culture shock” when she went to a remote hospital in Galmi, Niger, as part of a college outreach program. She knew that most people were poor—they had no running water, electricity, or bathrooms, and they lived in mud huts.

But after she dealt with fatal burn cases, struggled against an AIDS epidemic, and held a diseased leg steady while a surgeon amputated it, Nguyen also experienced a little “medical shock.” She soon discovered that Galmi Hospital had few resources to meet the numerous and desperate needs of the people.

“The hospital was what you would have found in the United States 100 years ago, except they have penicillin,” said Nguyen. “Surgeons operate with headlamps in case the electricity goes out. People there die every day of things that you could never imagine seeing today in the U.S., like cholera, malaria, typhoid, and tetanus.”

Nguyen’s experience highlights what OSU and increasing numbers of pharmacy programs all over the country are trying to help more students understand: pharmacists can play a significant role on the front lines to address the immediate and sometimes desperate needs of underserved populations.

In Oregon, that might include working in a rural outreach program, providing vaccinations, or helping break through language or cultural barriers. In other parts of the world, the experience can be more extreme.

During her six weeks in Galmi, Nguyen spent her mornings going on rounds with doctors on the surgical, medical, or obstetrics teams to see new patients and follow up on existing ones. She offered drug prescription and dosing recommendations, but these were not necessarily based on what the doctor wanted or what was optimal for the patient. Instead, they were based on what was available and might help.



“The hospital was what you would have found in the United States 100 years ago...” —Vivian Nguyen

Nguyen tells the story of a man who was admitted to the hospital after kicking over a kerosene lamp in his sleep and awakening in flames. He arrived at the hospital with burns on more than 60 percent of his body. “There was nothing we could do,” she said. Unfortunately, such severe cases were not at all unusual. “Sometimes there were no surgeons, and children with advanced typhoid disease had to be sent home to die because there was no one within 300 miles able to perform an intestinal operation.”

Nguyen also went to local villages and taught malnourished people how to treat lice, scabies, and worms. She vaccinated babies to prevent polio and worked at the HIV clinic.

Now that her eyes are opened in a new way, Nguyen wants others to be aware of the health-care challenges other cultures face.

“It is often easy to focus solely on the health-care issues here at home and forget how millions of people live around the world,” Nguyen said. “I hope more people will donate to organizations working in these areas, or go themselves to help make a difference.” ♦

Students and Employers Connect at Career Days

More than 30 companies set up booths at an informational fair and interviewed P1 and P2 students on the OSU campus in November. Approximately 125 students attended the fair in the main ballroom of the Memorial Union, and many met with company representatives to interview for internship opportunities.

Nearly 25 companies met with P4 students in Portland at the Center for Health and Healing in the second installment of Career Days in February. P4 students networked and interviewed for job opportunities. ♦



A company representative and student discuss career opportunities for students at Career Days.



PeaceHealth representatives provide information to students.

Incoming Students Receive White Coats

On Monday, Oct. 6, 2008, College of Pharmacy faculty, family, and friends filled the CH2M Hill Alumni Ballroom to watch 89 incoming students put on their white coats as a symbol of becoming pharmacists in training.

Gary DeLander and Dean Kradjan addressed the students, emphasizing the responsibility

and professionalism associated with the white coat. P2 Owen Alford, a member of the Student Executive Council led the class in the Pledge of Professionalism. Larry Cartier from Wellpartner and Danielle Mackey from Providence Health and Services also addressed the incoming class. Attendees enjoyed dinner following the ceremony. ♦



Ahren Bayuk receives his white coat from Dean Kradjan.



P1 students pose in their white coats.

Faculty & Staff

Announcements

Arup Indra, Gitali Indra, and Mark Leid filed two provisional patent applications (OSU-08-14 and OSU-07-69) titled *CTIP2 as a marker for hyperproliferative and inflammatory skin disease* (June 26, 2008) and *CTIP2 expression in human head and neck squamous cell carcinoma* (July 17, 2008).

Jane Ishmael was promoted to associate professor, with tenure effective July 1.

Matthew Ito was appointed by the American College of Clinical Pharmacy and the Pharmacotherapy Self-Assessment Program editorial board as a reviewer for a chapter in the cardiology section of the 7th edition titled *Dyslipidemias: Updates and New Controversies*. He was also appointed as program co-chair for the 2009 Scientific Forum of the Pacific Lipid Association.

Chrissa Kousssi filed a provisional patent application (OSU 08-22) titled *Molecular networks of congenital myopathies*.

H. Kuiper, a graduate student in Fred Stevens' lab, was awarded a Graduate Fellowship from the Center for Healthy Aging Research.

J. Malmo, an undergraduate in bioresource research in Jane Ishmael's lab, received an Undergraduate, Innovation, Scholarship and Creativity award from the OSU Research Office

for his proposal titled *Investigation of Red Sea microbial extracts as a source of potential neurological agents*. This project is being carried out in collaboration with Kerry McPhail.

Joel Marrs is chair-elect of the Adult Medicine Practice and Research Network with the American College of Clinical Pharmacy. He also became a certified clinical lipid specialist and earned diplomate status with the Accreditation Council for Clinical Lipidology.

Jeegisha Patel was certified as a diabetic educator by the National Certification Board for Diabetes Educators.

Rosita Rodriguez-Proteau, Fred Stevens, and R. Reed filed a provisional patent application (OSU 08-47) titled *Methods and compositions for inhibiting cholesterol and bile acid absorption* (Oct. 10, 2008).

Brian Sloat, a graduate student in Zhengrong Cui's lab, received a 2008-09 Oregon Lottery Graduate Scholarship in the amount of \$4,800.

Shannon Starwalt served on the Area Health Education Center's Advisory Council in Bend, Oregon in September.

Ann Zweber received the 2008 Oregon State Pharmacist Association Pharmacist of the Year Award. ♦

Publications

Bearden, DT; Allen, GP; Christensen, JM. Comparative in vitro activities of topical wound care products against community-associated methicillin-resistant *Staphylococcus aureus*. *Journal of Antimicrobial Chemotherapy*, 2008. 62:769-72.

Bechert, U; **Christensen, JM; Nguyen, C; Neelkant, R;** Bendas, E. Pharmacokinetics of orally administered phenylbutazone in African and Asian elephants (*loxodonata africana* and *elphas maximus*). *Journal of Zoo and Wildlife Medicine*, 2008. 39(2):188-200.

Bishop, C; **Filtz, T;** Zhang, Y; Slayden, O; Stormshak, F. Progesterone suppresses an oxytocin-stimulated signal pathway in COS-7 cells

transfected with the oxytocin receptor. *Steroids*, 2008. 73:1367-1374

Block, JH; Henry, DR. Evaluation of descriptors and classification schemes to predict cytochrome substrates in terms of chemical information. *Journal of Computer-aided Molecular Design*, 2008. 22:385-392.

Calabrese, C; Gregory, WL; Leo, M; **Kraemer, DF;** Bone, K; Oken, B. Effects of a standardized *Bacopa monnieri* extract on cognitive performance, anxiety, and depression in the elderly: A randomized, double-blind, placebo-controlled trial. *American Journal of Alternative and Complementary Medicine*, 2008. 14:707-713.

RESEARCH BRIEF

Bacteria May Attack Seasonally

Jessina McGregor, assistant professor in the Department of Pharmacy Practice, and researchers from the University of Maryland School of Medicine, the University of Florida, and the Research Institute of the Hospital for Sick Children in Toronto have identified a type of bacteria that increases as much as 17 percent with every 10-degree increase in temperature.

The study, published in *Infection Control and Hospital Epidemiology*, suggests the inci-

dence of diseases caused by these bacteria may be as much as 46 percent higher in summer than in winter.

The researchers said that recognizing such seasonal trends may improve disease diagnosis, help to prompt treatments, and lead to better interventions to prevent infections.

"Gram-negative bacteria are a frequent cause of urinary tract, gastrointestinal, and respiratory infections, as well as more serious

things like pneumonia, wound, or blood infections," McGregor said. "Everyone knows there is a seasonality to some viral infections such as influenza or the common cold, but we're now finding that some of these bacterial infections peak in the heat of summer."

The findings were based on seven years of data from infections in a Baltimore hospital.

Chien, N; Christensen, JM; Ayres, JW. Formulation of sustained-release verapamil HCl and Diltiazem HCl semisolid matrix capsules. *Pharmaceutical Development and Technology*, 2008. 13:115-125.

Chuong, M; **Christensen, JM; Ayres, JW.** New dissolution method for mesalamine tablets and capsules. *Dissolution Technologies*, 2008 (August). 15,3.

Dickey, DT; Muldoon, LL; Doolittle, ND; Peterson, DR; **Kraemer, DF;** Neuwelt, EA. Effect of N-acetylcysteine route of administration on chemoprotection against cisplatin-induced toxicity in rat models. *Cancer Chemotherapy and Pharmacology*, 2008. 62:235-241.

Fotso, S; **Mahmud, T; Zabriskie, TM;** Santosa, DA; Sulastri; **Proteau, PJ.** Rearranged and unrearranged angucyclinones from Indonesian streptomycetes spp. *Journal of Antibiotics*, 2008. 61:449-456.

Hartung, DM; Wisdom, JP; Pollack, DA; **Hamer, AM; Haxby, DG; Middleton, L;** McFarland, BH. Patterns of atypical antipsychotic subtherapeutic dosing among Oregon Medicaid patients. *Journal of Clinical Psychiatry*, 2008. 69:1540-47.

Ito, MK. Dyslipidemia, Atherosclerosis, and Coronary Heart Disease. In: MA Koda-Kimble and LY Young, eds. *Applied Therapeutics: The Clinical Use of Drugs*. 9th

ed 2008. Philadelphia: Lippincott, Williams & Wilkins.

Ito, MK; Marrs, JC. Pathophysiology of atherosclerotic vascular disease. In: *Pharmacist's Guide to Lipid Management*. BS Wiggins, JJ Saseen, SA Spinler, eds. Kansas City: American College of Clinical Pharmacy. 2008:1-19.

Itokazu, G; **Bearden, DT;** Danziger, LH. Infectious diarrhea. In: MA Koda-Kimble and LY Young, eds. *Applied Therapeutics: The Clinical Use of Drugs*. 9th ed 2008. Philadelphia: Lippincott, Williams & Wilkins.

Kioussi, C; Gross, MK. How to build transcriptional network models of mammalian pattern formation. *PLoS One*, 2008 (May 13).

Kuiper, H; Miranda, CL; Sowell, JD; **Stevens, JF.** Mercapturic acid conjugates of 4-hydroxy-2-nonenal and 4-oxo-2-nonenal metabolites are in vivo markers of oxidative stress. *Journal of Biological Chemistry*, 2008. 283: 17131-17138.

Li, L; Zhinan Xu, Z; Xu, X; Zhang, Y; He, X; **Zabriskie, TM;** Deng Z. The mldiomycin biosynthetic gene cluster: initial steps for sequential generation of 5-hydroxymethylcytidine 5-monophosphate and 5-hydroxymethylcytosine in *Streptoverticillium rimofaciens* ZJU5119. *ChemBioChem*, 2008. 9:1286-94.

Madaras-Kelly, KJ; Remington, RE; Oliphant, CM; Sloan, KL; **Bearden, DT.** Cephalexin remains preferred antibiotic for uncomplicated cellulitis. *American Journal of Medicine*, 2008. 121(11):e15-e16.

Marrs, JC. Indiplon: a non-benzodiazepine hypnotic for the treatment of insomnia. *The Annals of Pharmacotherapy*, 2008. 42:1070-9.

Marrs, JC. Chronic Obstructive Pulmonary Disease. In: TL Schiwinghammer and JM Koehler, eds. *Pharmacotherapy Casebook, A Patient-Focused Approach*. 7th ed. New York: McGraw-Hill. 80-82.

McGregor, JC; Allen, GP; Bearden, DT. Levofloxacin in the treatment of complicated urinary tract infections and acute pyelonephritis. *Therapeutics and Clinical Risk Management*, 2008. 4: 843-853.

Medina, RA; Goeger, DE; Hills, P; Mooberry, SL; Huang, N; Romero, LI; Ortega-Barría, E; Gerwick, WH; **McPhail, KL.** Coibamide A, a potent antiproliferative cyclic depsipeptide from the panamanian marine cyanobacterium *Leptolyngbya* sp. *Journal of the American Chemical Society*, 2008, 130(20):6324-6325.

Munar, MY. Renal Dialysis. In: MA Koda-Kimble, LY Young, WA Kradjan, and BJ Guglielmo, eds. *Applied Therapeutics: The Clinical Use of Drugs*, 9th ed. Philadelphia: Lippincott Williams & Wilkins. Sept. 2008.

Continued on page 10

Publications

Continued from page 9

Perencevich, EN; **McGregor, JC**; Shardell, M; Furuno, JP; Harris, AD; Morris, JG; Fisman, DN; Johnson, JA. Summer peaks in gram-negative bacterial infections among hospitalized patients. *Infection Control and Hospital Epidemiology*, 2008. 29:1124-1131.

Schweizer, ML; Furuno, JP; Harris, AD; **McGregor, JC**; Thom, KA; Johnson, JK; Shardell, MD; Perencevich, EN. Clinical utility of infection control documentation of prior methicillin-resistant *Staphylococcus aureus* colonization or infection for optimization of empirical antibiotic therapy. *Infection Control and Hospital Epidemiology*, 2008. 29:972-974

Singh, H; **Marrs, JC**. Heart Failure. In: MA Koda-Kimble and LY Young, eds. *Applied Therapeutics, The Clinical Use of Drugs*. 9th ed. Philadelphia: Lippincott Williams & Wilkins. 18-1 to 18-72.

Stevens, JF; **Reed, RL**; Morr , JS. Characterization of phytoecdysteroid

glycosides in meadowfoam (*limnanthes alba*) seed meal by positive and negative ion LC-MS/MS. *Journal of Agricultural and Food Chemistry*, 2008. 56:3945-3952.

Taur, J; **Rodriguez-Proteau, R**. Effects of dietary flavonoids on the transport of cimetidine via P-glycoprotein and cationic transporters in Caco-2 and LLC-PK1 cell models. *Xenobiotica*, 2008. 38;12:1536-1550.

Thom, KA; Schweizer, ML; Osih, RB; **McGregor, JC**; Furuno, JP; Perencevich, EN; Harris, AD. Impact of empiric antimicrobial therapy on outcomes in patients with *Escherichia coli* and *Klebsiella pneumoniae* bacteremia: A cohort study. *BMC Infectious Diseases*. 8:116

Thom, KA; Shardell, MD; Osih, RB; Schweizer, ML; Furuno, JP; Perencevich, EN; **McGregor, JC**; Harris, AD. Controlling for severity of illness in outcome studies involving infectious diseases: Impact of measurement at different time points. *Infection*

Control and Hospital Epidemiology, 2008. 29:1048-1053.

Vasilevski, O; Grubb, D; **Filtz, T**; Yang, S; McLeod-Dryden, T; Luo, J; Karna, D; Chen, J; Woodcock, E. Ins(1,4,5)P(3) regulates phospholipase C β 1 expression in cardiomyocytes. *Journal of Molecular and Cellular Cardiology*, 2008. 45:679-684.

Wisdom, JP; Bielavitz, S; McFarland, B; Collins, JC; **Hamer, A**; **Haxby, D**; Pollack, D. Preparing to implement medication algorithms: Staff perspectives and system infrastructure. *Journal of Psychiatric Practice*, 2008. 14(4):209-215.

Wollenweber, E; Fischer, R; D rr, M; Irvine, K; Pereira, C; **Stevens, JF**. Chemodiversity of exudate flavonoids in *Cassinia* and *Ozothamnus* (Asteraceae, Gnaphalieae). *Z. Naturforsch*, 2008. 63c:731-739. ♦

Grants & Contracts

The following awards were received by faculty members between May 2008 and December 2008.

N. Braden, Stacy Ramirez, and Shannon Starwalt received the L.L. Stewart Faculty Development Award (\$2,200).

Ganesh Cherala received \$26,895 from Targeted Gene Delivery, Inc., in Portland, Oregon, for *Assay development and stability studies for compound 'X.'*

Zhengrong Cui received four grants from the National Institutes of Health: \$250,000 (plus \$104,412 indirect) on a 4-year grant for *Topical DNA immunization by modifying the hair follicle cycle*; \$200,000 (plus \$93,395 indirect) on a 4-year grant for *Combination therapy using tumor-targeting synthetic dsRNA and gemcitabine*; \$147,150 (plus \$58,466 indirect) on a 2-year grant for *A tri-antigen nasal anthrax vaccine against toxins and vegetative bacilli*; and \$49,050 (plus \$22,661 indirect) for *Anthrax DNA*

vaccine for non-invasive immunization on skin. He is also received \$140,375 as a co-investigator from the National Institute of Allergy and Infectious Diseases for *Liposomal adjuvant for vaccine development*.

Daniel Hartung (principal investigator), **Dean Haxby**, and L.J. Fagnan received \$49,346 (\$130,320 with federal match) from the Community Catalyst Prescription Project: Small Grants for Pharmacy Policy Projects for *Piloting alternative methods for disseminating evidence-based prescription drug information among Medicaid providers in Oregon*.

Arup Indra, Gitali Indra (co-investigator), and **Mark Leid** (co-investigator) received \$312,333 from the National Institutes of Health for *Mechanism of CTIP2 action in mouse epidermal homeostasis and barrier formation*.

Gitali Indra received \$10,000 from the OSU College of Science Economic Development Fund for *New molecular marker of head and neck squamous cell xarcinoma (HNSCC) linked to differentiation status of the tumor*.

Kerry McPhail received \$40,000 from the Medical Research Foundation for *Array-based gene expression analysis of the antiproliferative action of coibamide compounds* and \$10,000 from OSU's General Research Fund for *Human health applications of new herbicidal vinylglycines*.

Taifo Mahmud received the \$50,000 second installment on a 5-year grant from the Herman-Frasch Foundation for *Design of novel antifungal and insecticidal agents using Validoxylamine A as a scaffold*. He also received \$34,676 from Glycan Biosciences,

Inc. for *Isolation of aminocyclitol pseudo-oligosaccharides*.

Jeegisha Patel and **P4 M. Brown** received \$1,383 from the Oregon Adult Immunization Coalition for *Operation Immunization: Students providing immunizations to the immigrant population*.

Rosita Rodriguez-Proteau, K. Anderson, and J. Jenkins, co-principal investigators, received \$25,000 from the Environmental Health Science Center for a pilot project titled

Organophosphate urinary metabolites as biomarkers of human exposure pharmacokinetics of preformed metabolites.

Fred Stevens and **Cristobal Miranda** (co-investigator) received \$299,863 from the National Institutes of Health for *Vitamin C in lipid peroxidation and its relevance to inflammatory and age-related diseases such as atherosclerosis*.

Fred Stevens (co-investigator) received \$25,000 from U.S. Dept. of Agriculture

Cooperative State Research, Education, and Extension Services for *Enhancing the Genetics and Productivity of the Oilseed Crop Meadowfoam*.

Luiz Bermudez (principal investigator) from the OSU College of Veterinary Medicine and **Mark Zabriskie** (co-principal investigator) received a Bill and Melinda Gates Foundation Global Health Program Grant in the amount of \$955,183 for *Development of mefloquine or analogs for tuberculosis therapy*. ♦

Thank You!

The College of Pharmacy expresses its sincere gratitude for all donors who have established endowments with the college. Your generosity and your commitment to quality education is making a difference for our students and for the future of pharmacy.

Dean's Fund for Excellence Endowment in Pharmacy
 Pharmacy Student Scholarship Fund
 Earl E & Thelma M Johnson Education Endowment Fund
 Ralph Brunscheon Entrepreneurship Endowment Fund
 Raymond L Gerlach Scholarship Endowment in Pharmacy
 McKesson Valu-Rite Fellowship Endowment in Pharmacy
 Muriel C Vincent Scholarship Endowment Fund
 Dale M Curry Memorial Scholarship Endowment Fund
 Vince & Pat Whiting for Entrepreneurism Endowment Fund
 Rasmussen Family Scholarship Endowment Fund
 Comer Family Scholarship Endowment Fund
 Dr J Ayres Pharmaceuticals Endowment Fund
 Sara J White Scholarship Endowment Fund
 John O'Connell Scholarship Endowment Fund in Pharmacy
 Philip A Cash Scholarship Endowment Fund

Portland Retail Druggist Association Scholarship Endowment
 Krautscheid Family Scholarship Endowment Fund in Pharmacy
 Zennie M Stauffer Scholarship Endowment Fund
 Robert F & Sharon L McElroy Pharmacy Scholarship Endowment
 Daher Family Scholarship Endowment Fund
 Berman Scholarship Endowment Fund
 Fred Meek Scholarship Endowment Fund
 Longs Drug Stores Pharmacy Scholarship Endowment Fund
 Pamela J Ting Memorial Pharmacy Scholarship Endowment Fund
 Curtis & Isabella Holt Pharmacy Scholarship Endowment Fund



Frosty and Vicki Comer with Comer Family Scholarship recipients P4 Sandra Widows (left) and Justin Harmer and guest (right).

Wait & Lois Rising Pharmacy Endowment Fund
 O'Deane L Faris Memorial Scholarship Endowment Fund
 Curtis & Isabella Holt Work Scholarship Endowment Fund
 Dorman J Hyde Memorial Pharmacy Scholarship Endowment Fund
 Erling & Opal Brauti Pharmacy Scholarship Endowment Fund
 Claud W Campbell Memorial Scholarship Endowment Fund
 McKesson Foundation Scholarship Endowment Fund
 Morris & Ann Beth Fischer Pharmacy Scholarship Endowment
 A L Sponenburgh Pharmaceutical Science Graduate Student Travel Endowment
 Women in Pharmacy Scholarship Endowment Fund

Endowments and Annual Giving Recognition Clubs—College of Pharmacy and OSU

Endowments (Single gift or multiple individuals donating to a single program)

Chair	\$2 million endowment or \$100,000 annually for 3 yrs
Professorship	\$1 million endowment or \$50,000 annually for 3 yrs
Program	\$500,000 endowment or \$25,000 annually for 3 yrs
Scholarship	Minimum of \$25,000

Annual Giving Recognition Clubs

Pharmacy Dean's Council/ OSU President's Council	\$10,000 and above
Pharmacy Dean's Club/ OSU President's Club (Individuals)	\$5,000 to \$9,999
Pharmacy Partners (Corporate)	\$5,000 to \$9,999
Pharmacy Dean's Fellows/ OSU President's Fellows	\$2,500 to \$4,999
Pharmacy Dean's Associates/ OSU President's Associates	\$1,000 to \$2,499
Pharmacy Dean's Circle	\$500 to \$999 (\$250 to \$999 1-5 years after graduation)

Cumulative gifts of \$50,000 to the College of Pharmacy qualify for induction in the College of Pharmacy Society of Excellence. Cumulative gifts of \$100,000 to the College of Pharmacy qualify for induction into the College of Pharmacy Cornerstone Society and the OSU President's William Jasper Kerr Society.

Homecoming Reunion 2008

It was a typical soggy fall day in Corvallis on Nov. 1, but that didn't dampen the spirits of the alumni who came to the OSU College of Pharmacy Homecoming Reunion and Fall Continuing Education Seminar.



Vicki and Frosty Comer stand with Andrea Bertoni during the Homecoming tailgater.

Dean Kradjan welcomed attendees to the continuing education seminar and then three College of Pharmacy faculty presented the latest in their research activities. Craig Williams presented Management of dyslipidemia in diabetes: perspectives from a member of the national guidelines panel; Stacy Ramirez presented Health Resources and Services Administration patient safety and clinical pharmacy collaborative project; and Mark Leid presented Tooth development: building a better tooth through genetics. To conclude, Roger McKimmy, MD ('79), from the Oregon Urology Institute presented Practical approaches to urological pharmacotherapy—case studies.

The College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education and co-sponsors several continuing education events throughout the year.

After the seminar, alumni gathered for a tailgater outside the pharmacy building. During the meal, alumni who answered College of Pharmacy trivia questions correctly won prizes. At the football game later that evening, OSU beat Arizona State 27-25. ♦

Alumni enjoy each others' company at the tailgater.



Benefactors Honored at Reception

In the evening of October 14, 2008, students, faculty and scholarship donors gathered for the annual Benefactors Reception at Willamette Valley Vineyards. Students mingled with scholarship donors and expressed gratitude for the donors' contribution to their education and the College of Pharmacy. ♦



Dean Kradjan poses with scholarship recipients.



Orine Brunscheon (left) enjoys a moment with Andrea Renden, the 2008-2009 Ralph Brunscheon Scholarship recipient.



Joanne and Richard Kaegi ('52) visit with Joe McCann ('66) (right).



Peggy Privratsky ('75) from Bi-Mart and Jerry Sachtjen ('76) from Shopko.



Pamela Ting Scholarship recipient Aiko Hama (second from left) stands with benefactors (left to right) John and Sue Ann Irving ('76), Dennis and Arlene Ting, and Robert and Sharon McElroy.

Pharmacy Partners are progressive companies keen on maintaining their competitive edge in the marketplace. Participation in the Partners Program helps maximize employee searches and other business needs by fostering visibility and relationships with OSU pharmacy students. Some activities supported by our partners are the White Box Speaker Series, New Student Orientation, White Coat Ceremony, and Preceptor Education. Heartfelt thanks to our 2008-09 Pharmacy Partners:

- Albertsons**
- Fred Meyer Pharmacy**
- Providence Health & Services**
- Rite Aid**
- Safeway**
- Samaritan Health Services**
- Target**
- Wal*Mart**

Contact Megan Hoffart
for more information on
becoming a Pharmacy Partner:
503-494-3476

Alumni Notes

1960s

Margaret F. (Fowler) Smith ('69) retired in January 2008 after 30 years of service at Providence Portland Medical Center. She holds a master's degree from the University of Washington and a certificate from Multnomah Bible College. On May 31, 2008, she married Donald M. Smith and they live in Tualatin, Oregon. They are active volunteers with Rolling Hills Community Church and their condominium association.

1970s

Rick Sahli ('71) is the regional pharmacy director for Providence Health & Services in the Portland service area. He has been with Providence for 37 years. During his career, he has been involved with the Oregon Society of Health-System Pharmacists as secretary, board member, and president, and served legal and regulatory affairs council. He has also been a board member for the Essential Health Clinic of Washington County. In his free time, he likes to play golf.

James Reinhart ('72) retired in 2002 after working for 30 years in hospital pharmacy. He became interested in herbal medicine about 15 years ago. After retiring, he established a Chinese medicine practice in Astoria, Oregon. He just returned from China, where he visited traditional Chinese hospitals and pharmacies and sat with many physicians who use herbal medicines in tandem with Western pharmaceuticals. "It is a fascinating discipline and I am enjoying my second career," he says.

1990s

Brian Crook ('97) is director of pharmacy operations at Bi-Mart Corporation, where he started as a pharmacy manager after graduating from OSU. He enjoys the financial and human resources side of pharmacy in addition to interactions with people. He is a member of APhA and is on the OSPA board of directors. He is also on the OSU College of Pharmacy advisory council. He completed a healthcare executive MBA pro-



Nasri Massaad ('99)

Nasri Massaad chose a career as a community pharmacist after his last rotation with Albertsons in his P4 year at OSU. "I realized that

community pharmacy puts me on the front-lines of healthcare, where I felt that I could see my contributions in action every day," he said.

His career started at Albertsons in the position of pharmacy manager. After learning about pharmacy operations from both the business and patient care sides for three years, he participated in out-of-store projects and division training for about 18 months.

In 2004, he achieved a personal goal when he became a division pharmacy manager at

gram through the University of California, Irvine, in 2008 while working. Brian is married and he and his wife have an 11-year-old black lab. In his free time, he likes to travel, play golf, and read.

2000s

Jennifer Garrison ('07) is the pharmacist-in-charge at Medicap Pharmacy in Albany, Oregon, which is a family owned independent pharmacy. She has been married to Ron for 13 years and she has a stepdaughter and two grandchildren. In her spare time, Jennifer enjoys camping, "quadding," snowmobiling, and walking her dog, Jake.

Shannon Starwalt ('07) is a pharmacy practice instructor and director of introductory pharmacy practice experiences at OSU's College of Pharmacy. She also works at Good Samaritan Regional Medical Center. "I really enjoy working with the students and helping to tailor experiential opportunities to their interest," she says. "I also enjoy blending my academic activities with my clinical interests at the hospital." She is in-

Albertsons. He enjoys working with 37 stores in the Oregon and Southwest Washington market area. Being part of the development and success of Albertsons' technicians, interns, pharmacists, and store teams is a highlight of Nasri's career.

"It is very rewarding to observe people grow and develop in their roles and move to the next level and make a difference in the pharmacy profession while enhancing patient care," he said. He also enjoys interacting with customers.

He said one thing people might be surprised to know about him is that he is a certified personal trainer. "That was my full-time job while going to school," he said. "It is a lot of fun!"

Massaad is married to Jihan and they have four boys.

involved in OSPA and APhA as a new practitioner mentor. Shannon is married to Ryan Starwalt and they have baby girl on the way. ♦

ALUMNI SPOTLIGHT

BEAVERx is published twice a year for alumni and friends of Oregon State University College of Pharmacy

Project Coordinator: Megan Hoffart
Editing and feature writing: Marie Oliver
Design and layout: Monica Whipple
Please send your comments, questions, and suggestions to:

Megan Hoffart,
Director, Alumni and Student Relations
OSU/OHSU College of Pharmacy
3303 SW Bond Ave. CH12C
Portland, OR 97239
T 503.494.3476
F 503.494.8797
megan.hoffart@oregonstate.edu

Administration:
Wayne Kradjan, Dean
Gary DeLander, Chair, Pharmaceutical Sciences and Associate Dean for Academic Affairs
Matt Ito, Chair, Pharmacy Practice

You're invited

to visit our newly designed Web site at

pharmacy.oregonstate.edu

You can use the site to:

- Tell us what you've been doing since graduation and share your recent news
- Explore Pharmacy Partner benefits
- Check for current college news and events
- Read up on current faculty research projects
- ...and much more!



Management & Human Resource Skills for **Pharmacists** Online Course

Stay current on common HR issues
that arise when supervising a pharmacy!

- Self-paced, online modules total 18 CEUs
- Topics include performance appraisals, communication, legal issues, and more
- 15% discount available for groups of five or more

Register today!

ecampus.oregonstate.edu/pharmacy

800-667-1465

Oregon State | College of Pharmacy
UNIVERSITY



Events 2009

Oregon State UNIVERSITY | College of Pharmacy

203 Pharmacy Building
Corvallis, OR 97331-3507

Nonprofit Org
US Postage
PAID
Corvallis, OR
Permit No 200

- May 2 Icons of Pharmacy
Portland City Grill
- May 8 College of Pharmacy Open House
Pharmacy Building, Corvallis
- May 27 Student Recognition Banquet
CH2M Hill Alumni Center
- June 4 OHSU Commencement
Arlene Schnitzer Concert Hall, Portland
- June 12 College of Pharmacy Graduation
LaSells Stewart Center
Austin Auditorium, Corvallis
- June 13 OSU Commencement
Reser Stadium, Corvallis

Check for details at pharmacy.oregonstate.edu
or call 503.494.3476

Join us...



Fourth Annual

Icons of Pharmacy

Saturday, May Second
six-thirty o'clock reception
seven o'clock dinner

Portland City Grill
111 SW 5th Ave, Portland, OR

For information please visit us online at:
<http://pharmacy.oregonstate.edu/alumni/icons>

Contact Megan Hoffart at 503-494-3476 or megan.hoffart@oregonstate.edu



Hope
to see
you
there!