



Table of Contents

<i>President’s Message</i>	<i>1</i>
<i>Executive Director’s Corner</i>	<i>2</i>
<i>A Note from the Editor</i>	<i>5</i>
<i>e-Resource</i>	<i>5</i>
<i>Canadian Pharmacists Conference 2014</i>	<i>6</i>
<i>Faculty Spotlight – University of Manitoba</i>	<i>7</i>
<i>Faculty News</i>	<i>10</i>
<i>Contributors & Editor</i>	<i>28</i>

PRESIDENT’S MESSAGE

The end is near! No, not winter since that does not show any sign of ending even here in Waterloo, Canada’s most southerly pharmacy program. I mean the end of the bachelor’s degree in pharmacy is in sight.

In Ontario, the last BSc in Pharmacy degrees will be awarded in 2014 ending a sixty year run as the degree for pharmacy. In 2015, close to 700 entry-to-practice PharmD degrees will be granted in Canada and it appears that all pharmacy programs across the country are on track to implement a PharmD curriculum well in advance of the suggested AFPC timeline of 2020.

The timing of this transition could not be better as updated curricula with enhanced experiential education are needed to support the changes in the scope of pharmacy practice that are sweeping across the country. In my opinion, it is critical that the pace of transition to patient-centred pharmacy practice continue to accelerate so that patients and other health care providers have a clear vision of

what to expect from a pharmacist. The wide variability in professional services available in individual community pharmacies at this time creates a significant problem for the identity of the profession. Patients know what to expect and demand from their physician, their dentist or their optometrist but too many are unaware of what their pharmacist is capable of and are settling for less than optimal pharmaceutical care.

The ongoing changes in pharmacy practice and education also provide us with a number of opportunities for research that we need to take advantage of. I believe that an expanded scope of pharmacy practice will improve the health of Canadians but it is critical that this be evaluated through rigorous scholarly inquiry. In addition, curricular change of the magnitude occurring right now provides an opportunity to determine whether we are succeeding in our goal of producing pharmacists with the knowledge and skills to serve as medication therapy experts.

Research and education are the twin pillars on which all of our programs are built and this is appropriately reflected in the name of our annual meeting, the Canadian Pharmacy Education and Research Conference. I look forward to seeing everyone in Saskatoon in June for CPERC 2014.

Sincerely,

AFPC President 2013-14

EXECUTIVE DIRECTOR ACTIVITIES

Website – The new AFPC website was officially launched in September. Thanks to Doreen Sproule for her hard work in adding and transferring content to the site. The feedback has been positive and there have been no significant concerns or issues reported. Through the Council members we will be reminding faculty members to enter information into their profiles on the website research / education directory.

Office – December 31 is the financial year end for AFPC and we will be completing our year end entries and preparing financial records for review by the auditor. Also, invoices are being prepared for 2014 AFPC faculty membership fees.

COUNCIL OF FACULTIES

The Council of Faculties voting members upcoming mid year meeting is scheduled for February 7, 2014 and the annual meeting is scheduled for May 30, 2014.

COUNCIL OF DEANS

The Council of Deans annual meeting was held on October 6, 2013. The agenda included external consultation with the Executive Director from the Canadian Association of Chain Drug Stores (CACDS). The Council of Deans mid-year business meeting is scheduled for February 5, 2014. On February 6, the Deans will be meeting with Health Canada officials including the Deputy Minister. A date for the Deans 2014 annual meeting has not yet been confirmed.

BOARD OF DIRECTORS

The Board of Directors met December 10, 2013. The Board reviewed their position about the new Canadian Pharmacists Association governance model (requesting

to become a member of the new CPhA Board), approved revisions to published member criteria and approved the 2014 AFPC operating budget. The next Board meeting is scheduled for February 14, 2014. The revised published member criteria can be viewed at <http://www.afpc.info/node/63>.

COMMITTEES

Awards – The awards committee met and made changes to awards criteria. The changes were to benefits provided to award winners. Student award winner benefits were changed to a \$1500 maximum for travel and accommodation, a complementary conference registration and an awards banquet ticket. The benefits for faculty award winners were changed to a \$500 maximum for travel and accommodation expenses, a complementary conference registration and an awards banquet ticket.

Rx and D, Janssen and Pfizer renewed their sponsorship of awards for 2014 (we are still waiting to hear from Merck). For the January 15, 2014 submission deadline, student and faculty nominations were received for the CFP Graduate Student Award for Pharmacy Practice Research, Merck Graduate Pharmacy Fellowship Award, the New Investigator Award, and the Pfizer Research Career Award. A total of 11 nominations were received for these awards. The next award submission deadline is March 15, 2014 (for the Graduate Student Research Award, National Award for Excellence in Education, Janssen Award for Innovation in Education and PEBC Excellence in Research or Innovation in the Assessment of Competence).

Canadian Pharmacists Conference & CPERC

The AFPC Canadian Pharmacy Education and Research Conference (CPERC) will be held at the Canadian Pharmacists Conference May 31 - June 3, 2014 in Saskatoon. The conference is being held jointly with the Canadian Pharmacists Association and the Pharmacists' Association of Saskatchewan. The format for the May 31, 2014 CPERC will include a plenary session, guest speaker presentations, oral faculty

presentations, round table sessions, and the Annual business / town hall meeting. Guest speakers will address topics including aboriginal student engagement in pharmacy curriculum and educating the current generation of learners. The awards ceremony will take place in the evening. The following is a summary schedule of the conference program.

Date	Location	Activity
May 30, 2014	Delta Bessborough	AFPC Council business meetings
May 31, 2014	Delta Bessborough	CPERC educational sessions, Annual Business / Townhall meeting, Awards Ceremony
June 1, 2014	TCU Place	Joint Educational Sessions
June 2, 2014	TCU Place	Joint Educational Sessions
June 3, 2014	TCU Place	Joint Educational Sessions

Online registrations opened in January. The registration fee will allow attendance to all education sessions from May 31 to June 3. For ongoing information about the 2014 conference see <http://www.pharmacists.ca/index.cfm/news-events/events/conference/>.

AFPC Initiatives / Programs

Pharmacists in training – A major milestone was reached in the pharmacists in training project. The eLearning resource that has been developed is unique as we are not aware of any similar educational project for use with pharmacy students. Version 1.1 of the eLearning resource “Informatics for Pharmacy Students” has been released. Five domains are available in this version: 1) Concepts and context in pharmacy informatics; 2) Information management and technology; 3) Knowledge management and technology; 4) Privacy, security and confidentiality; and 5) Consumer health informatics. Special thanks to our faculty lead, Marie Rocchi, who has done a significant amount of work and been responsible for her leadership, and specific format and content development. Also, thanks to our contributing authors: Lisa Bishop, Kelly Grindrod, Neil de Haan, Doris Nessim, Olavo Fernandes, Monique Pitre, Jeff Barnett, and Donna Pipa.

Demonstrations of the resource have been provided to ½ of the AFPC faculties and to representatives from other organizations (e.g., CHI, COACH, AACP, ISMP, etc). Marie Rocchi and Donna Pipa gave a presentation about the eLearning resource at PDW 2014. Student access to the resource was officially launched at PDW 2014. The resource can be accessed by students and faculty members through the student online education portal on the AFPC website (www.afpc.info). Faculty members are encouraged to tour the new e-learning resource. Faculty and students have to register to explore the e-learning resource using their university email.

An external project evaluation is being conducted through the University of Alberta, Faculty of Extension (Stanley Varnhagen and Jason Daniels). The evaluation will collect information from faculty, students and other key stakeholders. The evaluation will be completed by March 31, 2014.

Experiential education plan – A detailed plan to enhance pharmacy experiential education in hospitals and primary care was developed by the PEPC Executive (Angie Kim-Sing, Harriet Davies, Ann Thompson) to implement the plan developed from the October 2013 multi-stakeholder workshop. The plan consists of 3 phases: 1) action on top 4 national priorities, 2) action on next 6 national priorities, and 3) project evaluation / assessment. The duration for the project is 2 years. Early in 2014, a project steering committee will be struck and a project manager will be recruited. Partial external funding was requested from the Blueprint for Pharmacy and from the AFPC Board of Directors. The Blueprint for Pharmacy has contributed \$60K (over 2 years) and the AFPC Board of Directors has committed \$30K for 2014 (an additional \$30K will be considered for approval by the Board in 2015). Additional external funding will be sought as the project budget is approximately \$200K. Also, faculties will be providing in kind contributions to the project. The report from the October 2012 multi-stakeholder experiential education workshop is available on the AFPC website (see http://www.afpc.info/sites/default/files/Report%20-%20experiential%20education%20workshop%20FINAL%2001-22-2013_0.pdf).

Program evaluation / assessment initiative – A draft terms of reference was developed for a program evaluation / assessment SIG. In consultation with the SIG chair, Chantal Pharand, a first teleconference meeting of potential members of the SIG will be planned for the end of February. Copies of the Powerpoint presentations from the June 12 program evaluation / assessment workshop are available on the AFPC website (see <http://www.afpc.info/node/29>).

OTHER

AFPC / CCCEP Accreditation Task Group – A joint AFPC / CCCEP task group was established to review the current CCCEP process with regards to site accreditation for CPD departments. A report (including recommendations for changes) will be presented to the Council of Deans.

Student employment survey – Jason Johnson (CAPSI President) is completing the analysis of the 2013 student employment survey. The results include a sub analysis by province. The results will be presented at the February 2014 Council mid-year meetings.

Specialization task group project – A task group made up of senior executive representatives from CPhA, CSHP, NAPRA, CCCEP, PEBC developed a proposal to conduct a needs assessment of specialization in pharmacy. The study will be partially funded through the Blueprint for Pharmacy, stakeholder organizations and other sponsors. The study has implications for the recognition of advanced degree educated pharmacist specialists. The proposed study will examine:

- The need and demand for specialization in pharmacy by pharmacy professionals, employers and the health system; and
- The feasibility of a system of recognition and certification of pharmacist specialists in Canada.

Canadian Student Loan (CSL) forgiveness – A letter has been sent to the CSL policy department to request that pharmacists be added to the CSL loan forgiveness program (see http://www.canlearn.ca/eng/loans_grants/repayment/help/forgiveness.shtml). The current program applies only to physicians and nurses.



AFPC Executive Director

We wish to acknowledge the following sponsors supporting AFPC. Thank you for your contributions.

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Merck
Pfizer
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Janssen
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Canadian Patient Safety Institute
Nycomed
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Leo-Pharma

A NOTE FROM THE EDITOR

Dr. Frank Abbott is the President-Elect of the Canadian Society for Pharmaceutical Sciences (CSPS), effective January 1, 2014. Dr. Abbott was the Executive Director of AFPC for many years and has provided extensive contributions to AFPC. Congratulations and best wishes, Dr. Abbott!

R.M.Law

Introducing



Informatics for Pharmacy Students – e-Resource

Available at <http://afpc-education.info>

“**Informatics for Pharmacy Students**” is an e-Resource designed to be used by faculty members within their respective courses. It may be completed by students in sections or in its entirety. Written by a collective of Canadian pharmacy faculty members and clinicians, with upper year students involved in development, the program will engage pharmacy students in a comprehensive foundational treatment of this area, using media-rich material with innovative learning activities, including virtual patients, polls, discussion forums & self-assessment quizzes.

The screenshot shows the user interface of the 'Informatics for Pharmacy Students' e-Resource. At the top, there is a navigation bar with links for Home, Student e-Resources, Faculty e-Resources, Canada Health Infoway, and AFPC Website. A search bar is located on the right side of the navigation bar. Below the navigation bar, there are two main sections: 'ADMINISTRATION' and 'TRANSLATE'. The 'TRANSLATE' section includes a 'Select Language' dropdown menu with 'French' selected. The main content area displays a list of domain categories under the heading 'Domain categories: Student Resources'. The domains listed are: Domain 1: Concepts and Context in Pharmacy Informatics, Domain 2: Information Management & Technology, Domain 3: Knowledge Management & Technology, Domain 4: Privacy, Security, & Confidentiality, and Domain 5: Consumer Health Informatics. Each domain entry includes a small icon and a link icon.

- Faculty and students are now able to register to view and utilize the e-Resource.
- Please note that you will have to use your university email for the registration process.

We look forward to any feedback you may have about the content of the program, and your participation in the program evaluation phase.

Canada's premier gathering of pharmacists
and pharmacy stakeholders

CANADIAN PHARMACISTS CONFERENCE 2014

Build Networks
Learn New Skills
Share Information
All In One Place!

May 31 - June 3
Saskatoon, SK



Conference Highlights

CE SESSION TOPICS INCLUDE:

Deprescribing, minor ailments, advocacy/government relations, geriatrics, hypertension and experiential education.

NETWORKING OPPORTUNITIES:

Trade Show, Welcome Reception, Saskatchewan Fun Night, President's Gala and CPhA, AFPC, PAS, SCP Awards Ceremonies.

PHARMACY PRACTICE INNOVATION SHOWCASE RETURNS:

Ordinary pharmacists sharing extraordinary practice stories.

KEYNOTE SPEAKER, SUNDAY, JUNE 1

Michael "Pinball" Clemons,

Vice-Chairman of Toronto Argonauts Football Club

Remarkable athlete, outstanding sportsman. An inspirational and captivating speaker who promotes teamwork to reach your goals.

Yup! We're bringing an Argo into Rider territory!



Visit www.pharmacists.ca/conference for more details.



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The Pharmacists' Association
of Saskatchewan
L'Association des pharmaciens
de la Saskatchewan

FACULTY SPOTLIGHT: UNIVERSITY OF MANITOBA

~~~MESSAGE FROM THE DEAN~~~

This is perhaps the most exciting time ever in the history of the Faculty of Pharmacy at the University of Manitoba. On a winter day where Manitoba was colder than the planet Mars the Manitoba Pharmaceutical Act Regulations were enacted - on January 1, 2014.

The Manitoba legislature initially passed a new Pharmaceuticals Act in December 2006, granting pharmacists new professional rights. The Manitoba Health Act regulations were only proclaimed by the Manitoba Legislature in 2014. The newly implemented practice guidelines and 'regulations enable pharmacists to exercise their expanded scope of practice to include the right to order and receive certain diagnostic tests, administer immunizations and injections, including publicly funded vaccines for influenza, pneumococcal, pertussis and the human papillomavirus and the authority to prescribe medications for ambulatory ailments such as acne, athlete's foot and smoking cessation. Pharmacists will also have the ability to issue short-term refill prescriptions for patients with chronic conditions and prescribe medical devices such as inhalers used to control asthma.

Our 214 pharmacy students within the Faculty of Pharmacy and Manitoba's 1378 pharmacists who are working in 396 licensed pharmacies are ready. Last year, we at the University of Manitoba's Faculty of Pharmacy implemented courses and training into our curriculum to equip student pharmacists with the knowledge and skills needed to administer immunization and injections and perform physical assessments.

So far, over 300 fully trained pharmacists and students are ready to meet patients' needs with respect to providing immunization and injection services. Ongoing advanced training of pharmacy students for the new act and regulations will be a collaborative effort between the Faculties of Pharmacy and the College of Pharmacists of Manitoba.

Our patients can now have additional healthcare services provided by Manitoba pharmacists and pharmacy student interns. Enabling pharmacists to perform these types of pharmaceutical services benefits patients and the health care system as a whole. It will alleviate some of the pressure on physicians and nurses to address these types of patient requests - the kind of work that may unnecessarily clog emergency rooms, waiting rooms and walk-in clinics; and at the same time it will provide patients the opportunity to meet with superbly trained pharmacy health care professionals.

The Faculty of Pharmacy supports the proclamation of the new act and regulations which will increase patients' access towards optimal health care and undoubtedly will contribute to better health outcomes for Manitobans. With our comprehensive accreditation 2013-2020 behind us and a new strategic plan in hand, we enter this new era in pharmaceutical care with great hopes and aspirations for the future of our pharmacy program.

Go Bisons! Go Jets! Go Bombers!

*Neal Davies BSc(Pharm), Ph.D., R.Ph.
Professor and Dean*

Student News

On September 30th, 2013 the Faculty of Pharmacy welcomed 55 new students to the undergraduate program at the annual White Coat Ceremony. These students will make up the class of 2017 and were presented with a white coat from our programs' alumni. This event coincided with our annual Homecoming and the opportunity to involve alumni as drapers during the ceremony was fantastic. Student awards and bursaries were handed out, as well as special recognition for preceptors to our students.



The Faculty of Pharmacy Class of 2017 at the White Coat Ceremony

The Graduate Studies Awards Reception was held on December 5th, 2013. A lecture from Class of 1980 Alumni Mark Fleming entertained students, faculty and alumni. His lecture, “The Bear Facts: Rich Career Opportunities for Pharmacists in Pharmacy, Photography and Pharmaceuticals” highlighted the diverse opportunities for pharmacists in the province of Manitoba and followed his personal career path from a community pharmacist, to author and into government relations.

The Faculty of Pharmacy also welcomed Mr. William Eamer and Dr. Joanne Bugey to present awards to graduate students.

The Leslie F. Bugey Graduate Scholarship in Pharmacy was presented to Ryan Lillico (Advisor: Dr. T. Lakowski). Ryan is working on his Masters’ degree. He was selected for this award based on his academic excellence and research potential.

The MPhA/William G. Eamer Graduate Scholarship in Pharmacy was presented to Jordyn Lerner (Advisor: Dr. E. Ho). Jordyn’s commitment to working in the

community was what earned him the recognition from the awards committee for this prestigious scholarship.



Kyle MacNair, President of the MPhA and William Eamer presenting Jordyn Lerner with the MPhA/William G. Eamer Graduate Scholarship in Pharmacy

The Faculty is welcoming four new graduate students pursuing their Masters Degrees:

- Divna Calic (Advisor: Dr. S. Zelenitsky)
- Kevin Friesen (Advisor: Dr. S. Bugden)
- Refaat Omar (Advisor: Dr. Y. Gong)
- Sahar Karimzadehnamini (Advisor: Dr. T. Lakowski)

Undergraduate Electives Program

Prepared by Dr. Silvia Alessi-Severini, Coordinator of the Electives Program

Our Electives Program (PHRM4800) has entered the 8th year since its implementation in the academic year 2006-07. This project-based academic offering was designed to provide senior pharmacy students with opportunities for self-directed learning in areas of basic or clinical research, professional practice and education that are beyond the boundaries of the required pharmacy undergraduate curriculum.

Students can choose to conduct projects at sites pre-approved by the Faculty or to propose alternative avenues, in fact students are allowed and encouraged to pursue their own interests and “passions” and to contact prospective preceptors and sites to enquire about opportunities and discuss projects.

Pre-approved sites have included the Faculty of Pharmacy itself where many professors have accepted undergraduate students in their respective research laboratories, many departments of the Faculty of Medicine at the University of Manitoba, including the Family Medicine resident program and the Pediatric Endocrinology clinic, and federal research facilities such as the National Microbiology Laboratory and the

RCMP toxicology laboratories. Other sites include the Addiction Foundation of Manitoba, the Winnipeg Adult Learning Centre and the Palliative Care Centre at St. Boniface hospital in Winnipeg. Pre-approved sites are also located outside of Manitoba (e.g., Motherisk at SickKids, Toronto) and outside of Canada (e.g., University of Queensland).

Numerous publications and conference presentations have been produced by our students over the years and their experiences in various areas of research have stimulated their interests in pursuing post graduate education and specialties.

A growing segment of our student population has chosen to go abroad for their electives: from 4% in the early years to an impressive spike of 43% of the current graduating class. Our students’ interest in conducting humanitarian endeavours in developing countries has allowed them to bring their pharmacy expertise to hospitals and orphanages as far as Ecuador, Ghana and Nepal, and to learn invaluable lessons from situations of great challenge and disadvantage.

All projects and reports generated by our students’ elective experiences are testimonials of the incredible breadth of pharmacy education.

Faculty News

The Program Evaluation Committee compiled their Employer Survey results, collected in 2013. It was noted that employers who supervised recent graduates from the program have been quite satisfied with the quality of skills these graduates present in the workplace. A high level of importance was placed on professionalism and communication skills. The Program Evaluation Committee plans to continue their assessment by working with both exam content and the Admissions Committee. By assessing students and graduates through these avenues, our program will increase in quality.

Dr. Silvia Alessi-Severini is currently on academic leave from January 2014-July 2014.

After much collaboration and generosity, the Faculty of Pharmacy awarded the first Leslie. F. Bugegy Professorship in December 2013. The first of its kind, this Professorship was arranged by Dr. Joanne Bugegy and her family in honour of her late father, a 1927 University of Manitoba Pharmacy Alumni. The Professorship is to be awarded every 5 years to a

selected faculty member to sponsor excellence in research and teaching. The first winner of this impressive Professorship was Dr. Keith Simons.



Dr. Neal Davies, Dean of Pharmacy, presents Dr. Keith Simons with the Leslie F. Bugegy Professorship along with Dr. Joanne Bugegy

Graduate Studies and Research

Prepared by Dr. Hope Anderson, Graduate Studies Chair and Dr. Yuewen Gong, Associate Dean Research

Research in the Faculty of Pharmacy is diverse, embracing the basic, clinical practice, and population health/health policy sciences. Research in our Faculty is a significant part of the academic ethos. The Faculty offers M.Sc. and Ph.D. programs with specialization in four research areas: (i) Drug Design, Development, and Delivery, (ii) Evaluation of Medication Use, Effectiveness and Safety, (iii) Translational Pharmacotherapy, and (iv) Molecular Biotherapeutics. A number of practicing pharmacists have returned to the Faculty graduate program to undergo training as highly-qualified clinician-researchers. Moreover, a strength of the program is cross-fertilization between disciplines; for example, graduate students bring to the program expertise in clinical pharmacy, medicine, pharmaceutical sciences, food science, and the basic sciences. This has fostered valuable collaborations with the Faculties of Medicine, Science, Human Ecology, as well as the Asper School of Business. In addition to the integrated research schemes, the Faculty also established a Pharmaceutical Analysis Center,

which houses several High Performance Liquid Chromatography (HPLC) units, Mass Spectrometry (MS), and a Shimadzu LC/MS/MS 8040 dedicated to small molecule analysis. There are 19 tenured and tenure track professors in the Faculty undertaking research in pharmaceutical science and clinical pharmacy. More than \$1.1 million in research grants and contracts are received in the Faculty per year and several potential intellectual technologies have been patented or submitted for patent.

Grants

Dr. Geoff Tranmer received the 2013 Canada/UK Collaboration Development Awards from the UK Science and Innovation Network and Foreign and Commonwealth Office. This award (\$2,000) will cover the cost of travel from Canada to the UK for the purposes of developing collaborations.

The Manitoba Medical Service Foundation (MMSF) has awarded Dr. Geoff Tranmer \$20,000 for one year in funding to support his research in "Examining the Role of the Antioxidant N-Acetylcysteine in Hypoxia as a Model System for the Development of Hypoxia-Activated Prodrugs".

Dr. Emmanuel Ho received funding from the Canadian Foundation for Innovation (CFI) in the amount of \$129,741 for his project "Microbicide Development and Characterization Laboratory." He also received a grant from the University in the amount of \$5,615 for the same project.

The Manitoba Medical Service Foundation (MMSF) has awarded Dr. Ted Lakowski \$25,000 for one year in funding to support his research in "Targeting Lysine-Specific Demethylase for the Treatment of Breast Cancer".

Dr. Mike Namaka received \$60,000 in support of the Manitoba Multiple Sclerosis Research Network from Bayshore Health Care.

Dr. Hope Anderson received Canadian Institutes of Health Research funding for the project "Protective mechanisms of endocannabinoids in cardiac hypertrophy" in the amount of \$61,195.

Major Visitors

Dr. Marilyn Morris (née Brown) was awarded the second annual Distinguished Alumni Award for 2013. As a graduate of the class of 1973, Dr. Morris has gone on to receive a M.Sc. (Pharmacology) from the University of Ottawa and her Ph.D. degree in pharmaceuticals from the State University of New York at Buffalo. She is currently a Professor of Pharmaceutical Sciences, University at Buffalo (UB), State University of New York (SUNY).

Dr. Morris presented a lecture as part of the Pharmacy Grand Rounds Series on September 27th, 2013 entitled "Gamma-Hydroxybutyrate Toxicokinetics and Toxicodynamics: Role of Monocarboxylate Transporters."



Dr. Marilyn Morris, Alumna of Distinction for 2013

FACULTY NEWS

UNIVERSITY OF ALBERTA

Individual Faculty News

Promotions

Congratulations to Dr. Scot Simpson who was recently promoted to Full Professor.

Congratulations to Drs. Paul Jurasz, Arno Siraki, Carlos Velazquez and Mark Makowsky who were recently granted tenure and promoted to Associate Professor.

Departures

Cathy McCann has left the faculty as she and her husband have moved to British Columbia. Cathy joined

the faculty in fall of 2013 to help coordinate the Practice Skills courses, and subsequently, was the Director of the PharmD program from May-December 2013. The faculty would like to thank Cathy for all her contributions.

Aaron Cunningham, Assistant to the Associate Dean, Ariane Arnould, Student Services, and Connie McLaws, Assistant to Directors of PharmD and Practice Development, all lost their positions with the recent budget cuts at the University of Alberta. The faculty thanks them for all their hard work and dedication.

New appointments

The faculty would like to extend a warm welcome to Czabrina Wallace, Advisor, Student Services, who will provide support to Student Services under the leadership of Rae Beaumont. Welcome to the Faculty Czabrina.

We would also like to welcome Dr. Rene Breault, Clinical Assistant Professor, to his new role as Director for the Post-Professional PharmD program starting January 2014.

General Faculty News

Dr. Afsaneh Lavasanfar (nanoscopic drug delivery in the human body) and Dr. Hoon Sunwoo (celiac disease treatment) were among 15 University researchers who received recognition for their 2012 U.S. patents at the Innovation Makes Sense event. The researchers

teamed up with TEC Edmonton as their technology transfer agent to create patents. More information is located at: <http://pharm.ualberta.ca/news/2013/november/innovation-makes-sense>

The 2013 Campus Influenza campaign was a big success. Fourth year pharmacy students, along with nursing students, administered 3,816 individuals in November, 2013.

The Alberta Pharmacists Student's Association (APSA) popular fundraiser, Value Drug Mart Mr. Pharmacy brought in \$15,600 for Prostate Cancer with their fourth annual pageant. Congratulations to this year's Mr. Pharmacy winner: Jason Croteau-Walker, Class of 2016.

UNIVERSITY OF BRITISH COLUMBIA

General Faculty News

Faculty produces student recruitment video

Last fall, the Faculty released a six-minute video highlighting how the profession of Pharmacy can make a difference in patients' lives. The film stars two undergraduate students, as well as Faculty members Tamiz Kanji, Kathy Seto, Roxanne Carr, Larry Leung and Jason Min. The video is part of a student recruitment and awareness initiative, spearheaded by Wayne Riggs, professor and associate dean, and Jennifer Chatterton, director of Student Services, who worked closely with UBC Studios to create the final communications piece. View the video by visiting <http://youtu.be/uI4EPxvwTfE>.

UBC Faculty of Pharmaceutical Sciences Launches New Analytical Services Suite

On October 16, 2013, the Faculty launched the Pharmaceutical Sciences Analytical Suite (PSAS), a dedicated facility for research and data acquisition. Located on the fifth and sixth floors of the Pharmaceutical Sciences Building, PSAS consists of a Bruker 400 MHz Nuclear Magnetic Resonance (NMR) Spectrometer, a Vevo 2100 Ultrasound Imaging System, an AB Sciex UHPLC/MS/MS System, and a Thermo Scientific Q Exactive Orbitrap High Resolution Mass Spectrometer. The suite also incorporates the Pharmaceutical Sciences Sequencing Centre, including the Illumina HiSeq 2500 capable of generating 600 gigabytes of genetic information and Illumina MiSeq

capable of sequencing one exome daily. For more information, visit <http://www.psas.pharmacy.ubc.ca>.

Professionalism, Patient Care & the Pharmacist: Celebrate Learning 2013

On October 23, 2013, the Faculty hosted a seminar titled "Competency Based Curricular Design" as part of the University of British Columbia's annual Celebrate Learning Week. The seminar featured talks by two prominent members of Canada's teaching community: Dr. Nancy Winslade, assistant professor, Clinical and Health Informatics Research, Department of Medicine, McGill University and president of Winslade Consultants Inc.; and Dr. Gurdeep Parhar, associate dean, Equity and Professionalism, Faculty of Medicine and acting-associate vice president Equity and Inclusion, University of British Columbia. The two-hour speaking program drew over 35 faculty members, staff and students.



Pharmacists Clinic Offers Flu Immunizations to the UBC Campus Community



Photo by Ivan Yastrebov

Last November, the Pharmacists Clinic participated in the Provincial Influenza Campaign, which provides influenza vaccinations (flu shots) free of charge to B.C. residents. The cost of this service is covered by the Ministry of Health as part of a provincial effort to minimize the potential impact of influenza, which can spread quickly and cause serious illness in some people. Members of the campus community not covered by the UBC Risk Management's Influenza program were eligible to receive flu shots as part of the campaign. The immunizations were administered by supervised fourth year UBC Pharmacy students who received training and authorization from the College of Pharmacists of BC. There were a total of four flu clinics, which ran for three

hours each. Close to 250 people were immunized by 20 Pharmacy students, all supervised by licensed pharmacists and faculty members.

New Entry-to-Practice Program Update

Following several months of hard work by many dozens of pharmacists, faculty members, students, and other stakeholders in our professional community, the New Program Proposal for UBC's next entry-to-practice pharmacy program was approved by the Pharmaceutical Sciences Faculty Advisory Council on October 31, 2013. There are many more steps along the road to commencing this new program by our target of September 2015, including more consultations with UBC faculties, students, and pharmacy professional associations. Approvals by UBC's Board and Senate, and the Provincial Government, are also required.

Flexible PharmD Program Update

We have also been working diligently to create a PharmD program for pharmacists with a BSc Pharmacy degree who wish to attain the knowledge, skills, and competencies of a PharmD degree. Such a program must be flexible, enabling pharmacists who are working full-time to complete the coursework, and allow them to complete the experiential components in a way that is compatible with their busy lives. This new program will be required to follow a similar consultation and approval process described for the Entry-to-Practice Program.

AGILE Project final report

The AGILE project (Advancing Experiential Learning In Institutional Pharmacy Practice) was originally initiated by the Faculty of Pharmaceutical Sciences at UBC in November 2012. Its goal was to develop recommendations to inform new approaches to institutional experiential pharmacy education in British Columbia. Upcoming program changes and increased enrolment at the Faculty are expected to exacerbate existing challenges in securing adequate numbers of institutional placements for pharmacy learners. The AGILE Project sought to identify solutions for these concerns and to determine the support needs of preceptors and learners at Health Authority sites. The final report is now available for viewing at <http://agile.pharmacy.ubc.ca/feedback-results-and-report/>.

Faculty takes part in Medication Reconciliation Interprofessional Event

On January 13, 2014, UBC Pharm Sci took part in a Medication Reconciliation Interprofessional event in partnership with the Faculty of Medicine at three sites and the Schools of Nursing at UBC, UNBC and UVic. Medication reconciliation is a formal process by which health care professionals partner with patients to identify a complete list of medications that the patient is taking, in order to ensure the patient continues to receive appropriate medications as they proceed through admission, transfer and discharge. Now in its third year, the event was attended by more than 415 Medicine, Pharmaceutical Sciences and Nursing undergraduate students. An additional 70 students from Victoria (Island Medical Program and University of Victoria Nursing) and Prince George (Northern Medical Program and UNBC Nursing) participated remotely via video-conferencing.

The event was co-coordinated by UBC Pharmaceutical Sciences faculty members Dr. Judith Soon, Dr. Arun Verma, and Lynda Eccott; and UBC Faculty of Medicine members Dr. Lesley Bainbridge and Dr. Linlea Armstrong. In addition, Dr. Stan Bardal (UBC Medicine), Dr. Karen Joughin (UBC Medicine), Dr. Tarnia Taverner (UBC Nursing) and Dr. Anita Lo (Fraser Health Authority) contributed to the session. Off-site facilitation was provided by Dan Martinusen (Vancouver Island Health Authority), Dr. Fraser Black (Island Medical Program), Aleisha Thornhill, (Northern Health Authority) and Dr. Keri Closson (Northern Medical Program). Thanks also to Jessica Hartley, Deborah Phillips and John Cheng for their contributions.



Photo by Ivan Yastrebov

Publications Update

To view a complete list visit <http://www.pharmacy.ubc.ca/aboutus/publications>.

Arendt-Nielsen L, Cairns BE. Pain: what poisons are revealing about its mechanisms. *The Lancet Neurology*. January 2014. Volume 13. Issue 1. Pages 22-23. DOI: 10.1016/S1474-4422(13)70289-8

Marra F, Chong M, Henry B, Patrick DM, Kendall P. Effectiveness of neuraminidase inhibitors in preventing hospitalization during the H1N1 influenza pandemic in British Columbia, Canada. *Journal of Antimicrobial Chemotherapy* 2013; doi: 10.1093/jac/dkt496

Gregory-Evans CY, Wang X, Wasan KM, Zhao J, Metcalfe AL, Gregory-Evans K. Postnatal manipulation of Pax6 dosage reverses congenital tissue malformation defects. *J Clin Invest*. 2014 Jan 2;124(1):111-6. doi: 10.1172/JCI70462.

Kagan L, Gershkovich P, Wasan KM, Mager DE. Dual physiologically based pharmacokinetic model of liposomal and nonliposomal amphotericin B disposition. *Pharm Res*. 2014 Jan;31(1):35-45. doi: 10.1007/s11095-013-1127-z.

Awards & Honours Update

To view a complete list visit <http://www.pharmacy.ubc.ca/aboutus/awards-honours>.

Dr. Frank Abbott - New President Elect 2014, Canadian Society of Pharmaceutical Sciences

Dr. Kishor Wasan - invited to join the Canadian Academy of Health Sciences Fellowship Committee

Dr. Peter J. Zed - Patient Care Enhancement Award from the Canadian Society of Hospital Pharmacists

Dr. Mary Ensom - 2013 Paul F. Parker Award

Presentations Update

To view a complete list visit <http://www.pharmacy.ubc.ca/aboutus/presentations>.

Dr. Corey Nislow - International Conference on Functional and Comparative Genomics & Pharmacogenomics, November 12-14, 2013, Chicago-North Shore, USA.

Legal M, Rahmatian D, Collins K, Gerber P, Kim-Sing A, Loewen PS, Zed PJ - The path forward: solutions from a province-wide university-health authority engagement initiative. Canadian Society of Hospital Pharmacy, BC Branch, Annual General Meeting, November 24, 2013, Vancouver, BC.

Dr. Kishor Wasan - Development and Evaluation of a Novel Oral Amphotericin B Formulation for the Treatment of Systemic Fungal Infections and Drug-Resistant Visceral Leishmaniasis (VL). January 16, 2014, St. Paul's Hospital, Vancouver, Canada.

Dr. Peter J. Zed - Adverse Drug-Related Events and Emergency Department Visits: Opportunities and Challenges for Pharmacists. CSHP Professional Practice Conference (PPC), February 1-5, 2014, Toronto, Canada.

DALHOUSIE UNIVERSITY

Individual Faculty News

Anne Marie Whelan was cross appointed as a Professor in the Department of Family Medicine retroactively effective for the period July 1, 2013 to June 30, 2016.

Grants

Isenor J, Helwig M, Bowles S. Advancing and Evaluating the Drug Information Resources (DIR) Website. Dalhousie Pharmacy Endowment Fund grant. (2014-2015)

Yeung, PKF. Cardiovascular Protective Effect of Co-enzyme Q10 in Complementary Medicine. Dalhousie Pharmacy Endowment Fund Research Grant (2014 – 2015).

Publications

A new book titled “Shaping Academia for the Public Good: Critical Reflections on the CHSRF/CIHR Chair

Program” has been published by the University of Toronto Press, Scholarly Publishing Division.

Edited by Louise Potvin and Pat Armstrong, the book describes lessons learned from a program that CHSRF (now CFHI) and CIHR funded with other sponsors. Health services and nursing research Chairs trained researchers to conduct innovative research, to develop partnerships with government, community and health care delivery organizations and to mobilize scientific knowledge to inform health care practice, programs and policies.

Dr Ingrid Sketris has a chapter in this book titled “Service Learning within a Multi-Stakeholder Program”. http://www.amazon.ca/dp/1442646829/ref=rdr_ext_tmb#reader_1442646829. The book serves as a resource for educators, applied health researchers and policy makers who are bridging the gap between academia and health care organizations.

Yeung PKF, Tinkel J. Complementary Effect of Exercise in Cardiovascular Medicine (Editorial). *Cardiol Pharmacol* 2: e119. doi:10.4172/2329-6607.1000e119 (2013).

Yeung, PKF, Dauphinee, J and Marcoux, T. Effect of acute exercise on cardiovascular hemodynamic and red blood cell concentrations of purine nucleotides in hypertensive compared with normotensive rats. *Therapeutic Advances in Cardiovascular Disease* 7(2):63-74, 2013.

Student News

Andre Pollmann, Class of 2014, received the “Best Presentation by an Undergraduate Student” from the 23rd annual Dalhousie Department of Psychiatry research day in November 2013 for research on sedative discontinuation. (Supervisors: Drs. Andrea Murphy and David Gardner).

Five students at Dalhousie, (Laura Minard, Andre Pollmann, Erica Maclean, Joel Bergman of the College of Pharmacy and Russell Christie of the Faculty of Medicine) received student travel awards to assist in attending the CADTH Symposium in Gatineau, Quebec in April. Three of the students will be presenting their abstracts and they are as follows:

Laura Minard - Statin utilization among beneficiaries of the Nova Scotia Seniors' Pharmacare Program over a 14-year period. Laura V Minard, Ying Zhang, Ingrid Sketris, Judith Fisher, Amber Corkum, Ahmed Saleh.

Andre Pollmann - In search of the optimal strategy for sedative discontinuation. André Pollmann, David Gardner, Andrea Murphy.

Russell Christie - Does Continuity of Community Pharmacy Care Influence Adherence to Statins? Russell Christie, Dr. Ingrid Sketris, Dr. Pantelis Andreou, Dr. Anne Holbrook, Dr. Adrian Levy.

UNIVERSITÉ LAVAL

General Faculty News

Scholarship Ceremony

The Scholarship Ceremony Faculty of Pharmacy is an annual event, which aims to reward academic excellence and involvement of our students. In addition to the faculty representatives, partners and major scholarship donors are there to celebrate the achievements of our students. In 2013, the Faculty of Pharmacy awarded 93 scholarships to students whose excellence deserves to be rewarded and highlighted. The total amount of scholarships was **\$62,900**.



Scholarships Ceremony. Photo by Jean-François Rivard

Research

A grant to identify genetic determinants of blood and exposure and response to omega 3:

Marie-Claude Vohl (principal investigator), Olivier Barbier (co-principal investigator) and Louis Perusse (co-

applicant), respectively professors in faculties of Agriculture and Food Science, Pharmacy and Medicine at Laval University received a catalyst grant from CIHR. Their research proposition entitled "Interactions between dietary n-3 fatty acids and cardiovascular disease genetic variations on risk factors" aims at identifying novel genetic determinants of response to omega 3 and at developing new analytical tools for quantifying specifically the patient exposure to these fatty acids and their bioactive metabolites.

Researchers discover two markers that indicate a treatment against prostate cancer moves towards failure:
A discovery made by a team from the Faculty of Pharmacy, Laval University, and conducted by Dr. Olivier Barbier, could lead to better treatment for men suffering from prostate cancer. In an article published in *Cancer Research*, the researchers have identified two new surrogate biomarkers for the development of resistance in patients undergoing androgen ablation therapy.

Dr Calon's research highlighted in a popular science TV show in Quebec:

The work of Dr. Calon and his team, reporting a decrease of GABA receptors in the cerebellum of Essential Tremor patients, was the focus of a 20-minute report in a scientific TV show *Le Code Chastenay* which aired in Nov 2013.

<http://lecodechastenay.telequebec.tv/occurrence.aspx?id=611&ep=150>

Events

A success for the Symposium of the Faculty of Pharmacy!
Almost 350 people participated in the last rendition of the Symposium of the Faculty of Pharmacy with the theme "Heart and anticoagulation". Participants attended 9 top quality presentations from pharmacists specialized in this field.

4th symposium "Focus on adherence to treatment"

On November 5 and 6, 106 people attended the 4th symposium "Focus on adherence to treatment" presented by the Chair on treatment adherence of the Faculty of Pharmacy, Université Laval. The symposium showcased presentations and discussions on the challenges in adhering to treatment faced by people living in specific contexts. The role of interprofessional collaboration was particularly addressed during a roundtable with representatives of the Ordres professionnels of dietetists,

pharmacists, nurses and physicians of Quebec. The symposium concluded with the wish expressed by many for more active dialogue between the various health professionals, with the Chair dedicated to playing a role.

Student News

Sarah Caron was awarded the Didier Mougnot scholarship

Congratulations to Sarah Caron, a MSc student in the Laboratory of Molecular Pharmacology headed by Olivier Barbier. Sarah was awarded one of the Didier Mougnot scholarships from the CHU-Q Research Center. This scholarship, worth a total of \$ 20,000, will allow Sarah to continue her research on the validation of animal models for the analysis of drug kinetic endocrine disruptors, such as bisphenol A.

Two doctoral students under the direction of Dr. Chantal Guillemette distinguish themselves at the 10th Congress of the International Society for the Study of Xenobiotics (ISSX):

Mélanie Rouleau and Isabelle Laverdière obtained the first and second prizes for the best presentation at the Competition for graduate students at the ISSX. Mélanie Rouleau, winner of the first prize, presented her work on

a new class of proteins involved in the modulation of multiple cellular pathways including drug metabolism. Her work was recently published in *Molecular Pharmacology*. Isabelle Laverdière presented her discovery of new genetic markers in the progression of prostate cancer in relation to hormonal profile. Her work was recently published in *Clinical Cancer Research*.

Graduates of the Faculty accumulate honors!

One of our alumni wins the Raymond-Blais Medal:

Pierre-André Dubé (Bachelor of Pharmacy in 2004 and Master of Hospital Pharmacy 2006), pharmacist and clinical toxicology scientific officer at the National Public Health Institute of Quebec (INSPQ) has received this important honor at the Awards Gala graduates on November 6. This important distinction awarded by the Alumni Association of the University Laval recognizes the remarkable career of young graduates under 35 who have distinguished themselves in their field and who promote their alma mater worldwide.

Pierre-André Dubé wins Takeda Magnum Opus 2013 for the province of Quebec:

Pharmacist and scientific expert in clinical toxicology at the National Public Health Institute of Quebec (INSPQ) since June 2011, Pierre-André Dubé is considered the pharmacy expert in toxicology in Quebec. Pierre-André expanded his practice to share his knowledge with his colleagues, namely through the INSPQ's clinical toxicology portal. Launched in January 2011, this website gathers a wealth of useful information for health

professionals, including the provincial registry of antidotes, which he created in 2012. This list identifies all the antidote agents and the quantities stocked by more than 100 health institutions in Québec. With a single click, a pharmacist can find out which hospital to contact if he or she urgently needs an antidote treatment. Pierre-André has chosen to donate his \$1,000 award to the Pharmacy Faculty of Université Laval.

<http://www.canadianhealthcarenetwork.ca/magnumopusaward/winners2013#Quebec>



Pierre-André Dubé (alumnus)

Three pharmacists who graduated from our Faculty were honored as part of the Conferences of the Ordre des Pharmaciens du Québec held last June:

The 2013 Louis-Hébert prize was awarded to Mr. Marc Parent, Pharmacist at the CHU of Quebec for over 25 years. The passion for pharmacy that Marc Parent has is renown throughout the province of Québec. As a clinical Associate Professor at the Faculty of Pharmacy, a frequently invited speaker, a lively blogger and outstanding communicator, he seizes every opportunity to share his knowledge and his long-term vision to advance the profession.

The Innovation Award, which emphasizes the development of innovative pharmaceutical care with an

impact on the well-being of the population, was awarded to Jean-François Bussières. He is the head of the Department of Pharmacy of CHU Sainte-Justine for more than 17 years, where he leads the Research Unit in Pharmacy Practice (RUPP). Jean-François Bussières is also a clinical professor, a lecturer and an author of numerous publications and reference books.

The Merit of the Quebec Interprofessional Council (QIC), paying tribute to a member of the Order and recognizing his outstanding contribution to the development and recognition of the profession of pharmacy, was awarded to Denis Brouillette. Mr Brouillette is one of Quebec's most outstanding ambassadors of our profession.

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

Academic Appointments

Dr. Carlo Marra appointed new Dean of Memorial's School of Pharmacy

After an extensive national search, Dr. Carlo Marra has been appointed as a professor and the new dean of the School of Pharmacy at Memorial University. "I'm pleased to welcome Dr. Marra to Memorial," said Dr. David Wardlaw, provost and vice-president (academic). "He is eager to join the school and offer his leadership and vision as the next dean and his knowledge and expertise as a teacher, researcher, and colleague." "It is also a pleasure to thank Dr. Linda Hensman for her considerable contributions to advancing the school during her two terms as director/dean. Her commitment and dedication to the school and the university, and her consistent focus on students are valued by the Memorial community."

Dr. Marra is currently a professor in the Faculty of Pharmaceutical Sciences and director of the Collaboration for Outcomes Research and Evaluation (CORE) at the University of British Columbia (UBC). He also holds a Tier II Canada Research Chair (CRC) in Pharmaceutical Outcomes. After completing a B.Sc. in pharmacy at UBC, Dr. Marra also received a doctor of

pharmacy and a PhD in health care and epidemiology from UBC. Dr. Marra then completed a post-doctoral fellowship at the Arthritis Research Centre of Canada in Arthritis Epidemiology and Pharmacoepidemiology.

During his career, Dr. Marra has received numerous grants including those from the Michael Smith Foundation for Health Research, International Society of Quality of Life Research, Canadian Arthritis Network, Medical Research Council of Canada/Arthritis Society, and the Social Sciences and Humanities Research Council of Canada. Dr. Marra's research has mainly focused on health economics, quality of life research and pharmacoepidemiology. He has published over 100 peer-reviewed articles and more than 100 other publications as well as presented at nearly 100 conferences.

The recommendation of the search committee for Dr. Marra's appointment as a professor and dean was accepted by Dr. Gary Kachanoski, Memorial University's president and vice-chancellor, and approved by the Board of Regents on Feb. 6, 2014. Dr. Marra's appointment is effective June 1, 2014.

General Faculty News

White Coat Ceremony rite of passage for pharmacy students

Forty students from Memorial's School of Pharmacy made a formal declaration to uphold the ethical and professional responsibilities of the pharmacy profession at the annual White Coat Ceremony on Jan. 16, 2014.

Members of the School of Pharmacy's Class of 2017 were joined by dignitaries, members of the pharmacy community, students from all classes at the school, faculty and staff, family and friends. Five pharmacists from the St. John's metro and surrounding area, all of whom were related to one of the members of the class, facilitated the donning of the white coats.

Kelly Mitchelmore is the student representative for the Class of 2017 and during the ceremony accepted the Newfoundland and Labrador Pharmacy Board Code of Ethics on behalf of the class. She explained why the

White Coat Ceremony is meaningful at this stage of her student career. "As a first year student, this ceremony is so important because it really welcomes you into the profession in a special way," she said. "I think it makes us all much more comfortable and really accepted as future pharmacists."



Dean Hensman(l) with the pharmacy class of 2017.

Individual Faculty News

Dr. Lisa Bishop receives national awards

Dr. Lisa Bishop has received two national awards from the Canadian Society of Hospital Pharmacists (CSHP). She was recently conferred as a fellow of the organization and also named this year's recipient of the Isabel E. Stauffer Meritorious Service Award. Both honours were presented on Feb. 2, 2014 at the CSHP Professional Practice Conference in Toronto, Ont.

The fellow program, started more than 40 years ago, distinguishes individuals who have made a significant, long-term and sustained contribution to CSHP and the profession of pharmacy through outstanding leadership, dedication and commitment to practice excellence and professional growth. This may be achieved in a variety of areas of service to the society, to patient care, to education or research, and to the profession.

The Isabel E. Stauffer Meritorious Service Award recognizes prolonged service and contributions specifically to CSHP, primarily at the branch or chapter level.

Both awards are based on Dr. Bishop's exceptional record of achievement that spans an 18-year career in pharmacy education and clinical practice in hospital and community settings.

"I feel very honoured that the society has recognized my contribution to our local CSHP branch and the profession of pharmacy," said Dr. Bishop. "My commitment to CSHP is based on the fact that I believe in the society and what it does to advance hospital and clinical practice in this province."

Dr. Leslie Phillips was awarded the Alfred G. Dawe Distinguished Service Award at the CSHP conference.

Dr. Barb Thomas was awarded the CSHP NL & Lab Branch Leadership in Pharmacy Practice Award at the CSHP conference.

Several faculty members collaborated and had an article entitled "*Rivaroxaban versus enoxaparin for prevention of venous thromboembolism in elective total hip replacement: A retrospective cohort study*" accepted for poster presentation at the 55th American Society of Hematology (ASH) Annual Meeting and Exposition (December 7 – 10, 2013) in New Orleans, LA. The authors of this abstract were: Dr. Stephanie Young, Dr. Jason Kielly, Dr. Maria Mathews, Dr. Andrew Furey, Dr. Kuljit Grewal, Dr. Lisa Bishop, Dr. Carla Dillon, Dr. Tiffany Lee and Dr. John Hawboldt.

Dr. Noriko Daneshtalab was a panel participant and shared her research with representatives from the local sector in the annual bio-partnering forum on Nov 19, 2013 to showcase the researchers and companies who comprise the local biotechnology and life sciences sector.

Dr. Debbie Kelly successfully completed the examination and met the criteria to be credentialed with the "HIV Specialist Credentialing Program" through the American Academy of HIV Medicine.

Dr. L. Alisaraie spoke at the 3rd International Congress on Cancer Science and Therapy in San Francisco, USA. She presented her latest research results in "Targeting Microtubules and MT-depolymerization Agents as Anti-Cancer Drugs."

Dr. Barb Thomas was awarded the Preceptor Achievement Award from the University of Colorado Non-Traditional Pharm.D. program. She also gave a presentation on anxiety disorders at the CSHP Professional Practice Conference in February, 2014.

Dr. J. M. Gamble had two papers published in late 2013: Abdelmoneim AS, Eurich DT, Gamble JM, Simpson SH. Use Patterns of Antidiabetic Regimens by Patients with Type 2 Diabetes. Canadian Journal of Diabetes. and Bousageon R, Gamble JM, Gueyffier F, Cornu C. Clinically Relevant Efficacy of Insulin Therapy in Patients with Type 2 Diabetes. *Thérapie*.

Dr. Lisa Bishop published a paper in 2013: Bishop L, Duggan N, Flynn H. *Teaching family medicine residents how to answer clinical questions using QUIPs*. Canadian Medical Education Journal 2013, 4(2):e4-e9. <http://www.cmej.ca/cmej/index.php/cmej/article/view/269>

Dr. Mohsen Daneshtalab was an external reviewer of pharmacy graduate programs (MSc and PhD) for the Faculty of Pharmacy, University of Manitoba in their Graduate Academic Program Review.

Grants

Dr. Laurie Twells and Ms. Leigh Ann Newhook received a \$70,000 Janeway Research Grant. The title of the research grant is “*A comparison of health services use in infants in the first year of life by infant feeding method.*”

Dr. Laurie Twells and Leigh Anne Newhook (along with Dr. Rebecca Schiff at the Labrador Institute) will receive \$3,240 from the MUN Cross Campus Initiatives fund. The funding will provide support for additional research team members to travel to Happy Valley-Goose Bay, where they will conduct a full-day research planning meeting and grand rounds. Funding from the CCIF is being used to leverage an existing CIHR Café Scientifique grant for a public dissemination event on breastfeeding in Labrador communities. This series of events will take place in May, 2014.

Student News

Team pharmacy runs for a cure

Students from the School of Pharmacy teamed up to participate in the 2013 CIBC Run for the Cure with incredible results, raising over \$3,000 for breast cancer research, education and awareness programs. On Oct. 6, 2013, local events were organized in cities across the country for Canada's largest single day, volunteer-led fundraising event.

School of Pharmacy graduate student receives A.G. Hatcher Memorial Scholarship

Yuxi (Betty) Chen was awarded the prestigious A. G. Hatcher Memorial Scholarship in September 2013, becoming the first student from the School of Pharmacy to receive the honour.

The \$15,000 award is based on academic excellence and is awarded annually to three students at Memorial, categorized according to the origin of their undergraduate degree. Ms. Chen was the top graduate student at Memorial who received an undergraduate degree from a university outside Canada.

Ms. Chen began her M.Sc. in pharmacy in January 2013, shortly after completing an undergraduate degree in pharmaceutical science from Capital Medical University in Beijing. She hopes to complete her degree in December 2014. Her area of study is medicinal chemistry, primarily in the area of synthesis and drug

Kara O’Keefe is a second year student who took the initiative to form a team for the 2013 event in St. John’s. She summed up why the experience was meaningful for her, both as a student and future pharmacist. “There are so many benefits to participating in events like these. The first is that you are raising money to help breast cancer patients (and future patients) who are struggling with this horrible disease. And personally, it really puts things in perspective. Often when we are caught up in studying we complain and assume others don’t understand what we are going through, but when you wake up on Run Day thinking about your midterm next week and then remember that someone is waking up this morning facing breast cancer, you realize how lucky you are.”



discovery. Specifically, she is focused on work that will investigate the synthesis of low toxic anti-fungal agents that have been previously declared metabolically unstable. Ms. Chen hypothesizes that modifications to the substituents and derivatives of those anti-fungal agents may improve their stability and effectiveness. Because fungal infections have increased significantly in recent years along with the emergence of drug-resistant fungal strains in immunocompromised patients, developing new treatment options is extremely important.

“My work is only at the very early stages, but eventually the goal would be a new option for the anti-fungal therapies in the future,” said Ms. Chen. “Patients who have weakened immune systems often include those undergoing cancer chemotherapy, organ transplant or people with AIDS. The goal is for these therapies to combat fungal infections that can be life threatening for those patients.”

Memorial and Dalhousie partner for student pharmacy conference

MUN and Dal pharmacy students were collaborating and learning together at the Atlantic Pharmacy Advancement Conference (APAC) held Oct. 31 – Nov. 2 at Memorial University. The conference establishes an open forum for Atlantic Canada's pharmacy students to collaborate on a variety of topics and issues focused on advancing pharmacy education and the profession.

Started in 2005 by a group of students from Memorial, the event is organized and run by pharmacy students from Memorial and Dalhousie, with the schools alternating each year as the host university. This year 77 students travelled from Halifax to join 100 Memorial

students for three days of presentations, workshops and social events.

The conference theme was 'From the Classroom to the Clinic: Translating Ideas Into Practice'. Maria Whelan is a fourth year student from Memorial and the conference Chair for APAC 2013. "Our goal for this conference was to inspire and enable pharmacy students to take the knowledge they have learned in the classroom and translate that to innovative practice in the community, hospital and beyond," she said. "We wanted to showcase the expanding role of the pharmacist and motivate pharmacy students to step up to the challenges that the pharmacy profession is facing today and make their mark."

Faculté de pharmacie, Université de Montréal

General Faculty News

Honoris Causae

On October 25th, 2013, the graduation ceremony was held. On this special occasion, the faculty granted diplomas to the first 27 students completing the Pharmacy Qualification Program. Also, the faculty granted 180 Pharm D and 34 Bachelor in Biopharmaceutical Sciences diplomas. During the ceremony, a Doctor *Honoris Causa* title was awarded to Mr. Yves Rosconi. Mr Rosconi graduated in 1977 and held leadership positions among different pharmaceutical companies including Rhone-Poulenc, Aventis and Theratechnologies. As the head of Theratechnologie Company, he managed to obtain the approval of the FDA for the drug Egrifta. He also participated in the development of humanitarian programs, especially in South Africa. Mr. Rosconi now works as a company administrator.

Chair report

The first report of the Chair Beaulieu-Saucier in Pharmacogenomics was presented recently. The holder of this chair, Dr Simon Dedenus, professor at the faculty, received the Martial G. Bourassa award granted by the Montreal Institute of Cardiology for his active participation in the scientific life as a young researcher. The numerous activities of the chair were highlighted. Simon Denus shared his expertise as a guest speaker as part of several international congresses and around twenty articles have been published, including some in high impact journals such as Journal of Heart & Lung

transplant and Pharmacogenomics, Pharmacogenetics & Genomics.

Research and development

Meeting of pharmaceutical research

The 2nd annual meeting of pharmaceutical research was held on December 5th. Over 300 people responded to the invitation, which offered them a unique opportunity to discover and discuss the research of our teachers and our graduate students. The next annual meeting will be held on December 4th 2014.

Role of the pharmacist platform

The team of Dr Jean-Francois Bussieres, clinical professor, has developed a platform gathering the best data on the role of the pharmacist. This project reports the best evidence taking into account conditions (diabetes, hypertension, etc.), clinical services (intensive care, geriatrics, etc.) and pharmaceutical activities (counselling, medication reconciliation, clinical rounds etc.) The tool is available online for free.

Research grants

The program of research chairs of Canada has granted a total funding of \$ 500,000 for 5 years to Dr Xavier Banquy, professor. These funds will allow him to begin his research program on the development of replacement biomaterials that can be used for the treatment of medical conditions in which few options are actually available.

Programs

Gateway program

Professional development aims to provide a first course this winter that could be recognized inside the gateway program for Pharm. D. This program, developed together with the Faculty of Pharmacy, Université Laval, allows a pharmacist that holds a bachelor's degree in Pharmacy and a valid license to practice in Quebec to undertake an education program leading to the title of Doctor of Pharmacy.

Media

Some of our students participated in an activity organized by Dr. Stanley Vollant. This activity is aimed at promoting health-care professions.

The video is posted on our website in the section “vie étudiante” (student life) and on the Radio-Canada website.

UNIVERSITY OF SASKATCHEWAN

Faculty and Staff News

Dean's Search – the candidates for the new deanship visited the College and U of S in November. Each candidate presented their vision for the college, along with interviews and meetings with faculty, staff, and senior leadership. Dr. David Hill will complete his service as Dean on June 30, 2014.

Rational Drug Design Chair – the college is pleased to announce the appointment of Dr. Meena Sakharkar to the new position of Chair in Rational Drug Design. The goals of the chair are to provide vision and leadership in developing a successful research program in rational drug design at the U of S while working with colleagues across campus and the Canadian Light Source synchrotron. Dr. Sakharkar will be joining us in mid-February from the University of Tsukuba, Japan.

College Updates

The College Centennial celebrations continued on November 29, when the college celebrated its official birthday with a party in the new Health Sciences facility. The Centennial will continue with an event in March at the national university hockey championships in Saskatoon, alumni receptions in Vancouver, Regina, Calgary, and Toronto, the PAS/CPhA/AFPC conference, and the Centennial Reunion Weekend in June 2014.

The College move-over to the new Health Sciences facility is now almost complete with a large segment of faculty and staff now relocated into the new D and E wings of the health sciences facility. Because most of the undergraduate pharmacy and nutrition classrooms and labs will not be ready until the final renovations of the A and B wings of the health sciences building are completed in 2015-2017, the College will continue to operate in its current Thorvaldson Building location for

on-going undergraduate programs teaching and student support services.

Planning has continued for the large CPhA/PAS/AFPC conference in 2014. The conference will be held from May 31 – June 4 in Saskatoon. The planning committees continue to develop its preliminary programs and the College is looking forward to everyone visiting the “Land of Living Skies” in June.

Student News

The College was well represented at PDW 2014 with a large number of BSP students and interns in attendance in Vancouver for the CAPSI conference hosted by the University of British Columbia. Some of the highlights for the U of S BSP students and interns were as follows:

Pharmafacts: 1st Place [Team: Andrew Plishka Rx4, Jennifer Hookensen Rx3, Madison Schmidt Rx2, and Venessa Liang Rx1]

Student Literary Competition: 3rd Place: Tommy Barr (Rx4)

Compounding Competition: 3rd Place: [Andrew Plishka, Jeff Herbert, James Khouri, Alanna Hoesgen (Rx4)]

CPhA Award of Professionalism (for the best pharmacy awareness week (PAW)): 3rd Place (award accepted by Cooper Sinclair and Shelby Scherbey)

IPSF Health Campaign Award (last year it was for the Tuberculosis campaign): 1st Place (award accepted by AJ Havlicek, Paige Knox, Cooper Sinclair, Shelby Scherbey)

We are looking forward to seeing you all (hopefully!) in June! We promise a good time!

UNIVERSITY OF TORONTO

Faculty News

The University of Toronto is conducting an extensive international search for the position of Dean of the Leslie Dan Faculty of Pharmacy and invites applications and expressions of interest, with the appointment to be effective July 2014.

The Advisory Committee will begin the consideration of candidates immediately and will continue until the position is filled. The Committee welcomes nominations from interested people via email at uoftPharmacy@lavernesmith.com.

Appointments

Professor K. Sandy Pang has been appointed Interim Director, Biomedical Science Division until June 30, 2014 while Professor Rob Macgregor is on sabbatical.

Associate Professor Stephane Angers has been appointed Interim Graduate Coordinator for the Graduate Department of Pharmaceutical Sciences until June 30, 2014 while Professor Heiko Heerklotz is on sabbatical.

Associate Professor Christine Allen has been selected as the new GlaxoSmithKline Chair in Pharmaceutics and Drug Delivery, effective July 1, 2014. Dr. Allen takes over this role from Professor Ping Lee, who will complete his second term as GlaxoSmithKline Chair in Pharmaceutics and Drug Delivery on June 30, 2014. Congratulations to Dr. Allen and thank you to Dr. Lee for his leadership and the important role he has played in Pharmaceutics at the Faculty.



Della Croteau has been appointed the new Interprofessional Education Lead at the Faculty. Della joins the Faculty from her previous role as Deputy Registrar and Director of Professional Development at the Ontario College of Pharmacists.

Advancement

At the end of October, 2013 the Faculty embarked on an internal fundraising campaign as part of Boundless Innovation: The Campaign for the Leslie Dan Faculty of Pharmacy. Over the course of six weeks, the Faculty Family Campaign saw 98% participation from faculty and staff members, and raised over \$300,000 to support student awards, programs, and research initiatives.

On December 31st, Associate Professor Ian Crandall completed his appointment as Interim Associate Dean, Academic. Moving forward, Dr. Crandall will continue teaching at the Faculty and leading the Faculty's curriculum mapping project. Thank you Dr. Crandall for serving in this position.



Dr. David Dubins has been promoted to the rank of Senior Lecturer, effective July 1, 2014. Dr. Dubins has been a highly valued lecturer in both the Pharmacy and Pharmaceutical Chemistry programs since 2005.



Awards & Recognition

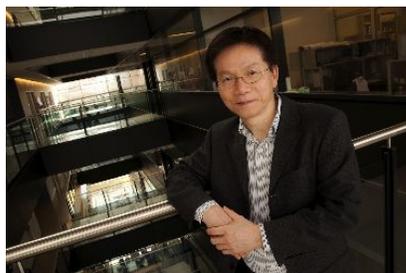
Professor Muhammad Mamdani has been awarded the Robert and Dorothy Pitts Chair in Integrated Clinical Research at St. Michael's Hospital. Over the five-year term for this chair, Dr. Mamdani will pursue clinical research that crosses barriers between different methodological areas, such as clinical trials, observational epidemiology, health economics, and knowledge translation.



Professor Muhammad Mamdani was recently named a Fellow of the Canadian Academy of Health Sciences. Election to Fellowship in the Academy is considered one of the highest honours for individuals in the Canadian health sciences community, and is reserved for those who have demonstrated leadership, creativity, distinctive competencies, and a commitment to advance academic health sciences.

Dean Emeritus Wayne Hindmarsh was awarded a FIP Fellowship at this fall's International Pharmaceutical Federation World Congress in Ireland. This honour acknowledges the outstanding contributions of Dr. Hindmarsh to the fields of pharmacy practice and pharmaceutical sciences, and his efforts to advance pharmacy practice, science, and education for the betterment of global health.

Professor Ping Lee was named a Fellow of the American Association of Pharmaceutical Scientists. Over the course of his career, Dr. Lee has made significant contributions to the field of controlled-release drug delivery, particularly relating to hydrogels and matrix systems. During his time in academia and the pharmaceutical industry, his research has had a profound impact on the fundamental understanding of the complex drug release mechanisms from polymers and has provided accurate design equations that have helped guide the rational design of controlled-release products.



Professor Anna Taddio is the 2014 recipient of the Jeffrey Lawson Award for Advocacy in Children's Pain from the American Pain Society. Recognizing advocacy efforts to improve the management of pain in children, this award is both an acknowledgement of the significance of Dr. Taddio's research, and a testament to its impact. Dr. Taddio will be presented with this award at the 33rd Annual Scientific Meeting of the American Pain Society, to be held in Tampa, Florida, this April.

Assistant Professor Suzanne Cadarette was recognized with the Early Career Excellence in Teaching Award by the American Society for Bone and Mineral Research. Dr. Cadarette was recognized with this award because of her enthusiasm, effective teaching and mentoring strategies, outstanding results, and the significant impact her teaching has had on students' intellectual development by providing them with opportunities to develop their interests in science in general and bone and mineral-related research specifically.



Professor Shirley Wu was the senior corresponding author of a team (which also included Professor Jeff Henderson) that received the Drug Delivery and Translational Research Journal Outstanding Paper Award. This award recognizes excellence in research in the field of drug delivery and translational research.

The Office of Experiential Education, with the support of Pfizer Consumer Healthcare, was pleased to provide the "Structured Practical Experience Program Teaching Associate Awards of Excellence" to Terry Dean (Grand River Hospital, Kitchener), Nick Krawczuk (Shoppers Drug Mart, Sudbury), Rania Saghir (Shoppers Drug Mart, Oakville), and Ali Zohouri (Loblaw, Toronto) at a ceremony held this past fall.

Funding News

Professor Raymond Reilly is the recipient of a four-year Canadian Institutes of Health Research grant to design a new radiation treatment for breast cancer that is resistant to trastuzumab (Herceptin). Through this project, Dr. Reilly and his lab are creating a new targeted radiation treatment for breast cancer that links a part of the Herceptin molecule with other proteins that bind the co-expressed EGFR or IGFR present in resistant tumours. These bispecific drugs (radiopharmaceuticals) are further modified with polymers that are designed to complex large quantities of the radioisotopes, indium-111 or lutetium-177. These radioisotopes emit radiation that can destroy a tumour when the bispecific radiopharmaceuticals bind to the co-expressed receptors.

Professor Shana Kelley is the recipient of a Grand Challenges Canada Rising Star in Global Health grant to develop a stand-alone, self-powered disposable diagnostic tool for rapid diagnosis of malaria in low resource settings. Using a small blood sample, the testing device will quantify the presence of malaria parasitemia via electrochemical sensors packaged within a disposable wand. This instrument-free solution

will display an easily interpretable result, and will identify particular strains of malaria for proper treatment – all within twenty minutes.

Professor Shirley Wu received two Natural Sciences and Engineering Research Council of Canada (NSERC) grants as part of the Discovery Grants and Research Tools and Instruments Grants programs. Through these projects, Dr. Wu will design new polymeric and polymerinorganic hybrid materials using renewable natural materials to make them suited for future medical and pharmaceutical uses. Developing “smart” multifunctional materials for biomedical applications such as self-regulated insulin release and cancer imaging will ultimately enable more precise disease detection and more effective treatment by delivering drugs on demand.

Dr. Wu also received a two-year Canadian Cancer Society Research Institute Innovation Grant to test whether new types of nanoparticles developed by Dr. Wu and her team can improve the environment around tumours to allow radiation treatments to be more effective.

Professor David Hampson received a three-year operating grant from the Canadian Institutes of Health Research to explore how using a viral vector to encode a missing gene in the brain may re-introduce a missing protein to patients affected by Fragile X syndrome, the most common inherited cause of mental retardation and intellectual disability. Through this grant, Dr. Hampson will determine if the reintroduction of this protein leads will restore anatomical, cellular, and behavioural impairments.

Assistant Professor Suzanne Cadarette is the recipient of a Connaught New Researcher Award. Through this funding, Dr. Cadarette will complete preliminary analysis in the area of glucocorticoid-induced osteoporosis by leveraging healthcare utilization data among Ontario seniors to describe glucocorticoid-induced osteoporosis management (bone mineral density testing, osteoporosis treatment) over time and examine predictors of glucocorticoid-induced osteoporosis management. Administered by the

University of Toronto, the Connaught New Researcher program helps provide professors within the first five years of their appointment with the ability to establish strong research programs.

Associate Professor Lakshmi Kotra received a John R. Evans Leaders Fund award from the Canadian Foundation for Innovation. Dr. Kotra is the Director of the Centre for Molecular Design and Preformulations, which seeks to accelerate the drug discovery process by integrating very early aspects for lead generation, and allowing intelligent and real-time feedback between each stage of the drug discovery pathway and conducting translational drug discovery research – all within an academic setting. This funding will allow the Centre to acquire and upgrade much needed equipment and infrastructure to ensure it remains at the forefront of integrated drug discovery and Canada’s biopharmaceutical sector, and advance the mission of the Centre to discover and develop novel small molecule therapeutics.

Student News

On January 15th, 2014 the Class of 1T7 was formally welcomed into the Pharmacy community through a white coat ceremony. The Induction to the Professional Community of Pharmacy Ceremony saw first year students recite the Ontario College of Pharmacists' Code of Ethics, don their white coats, and sign the Pledge of Professionalism, all under the watchful eyes of faculty, staff, and invited guests from the pharmacy community.

The Graduate Department of Pharmaceutical Sciences saw 3 MSc and 2 PhD students graduate from their programs at the University's Fall Convocation Ceremony. Since the beginning of the academic term, 23 students have joined the MSc program, while an additional 15 students have joined the PhD program, raising the number of graduate students at the Faculty to 139 (49 MSc and 90 PhD).

Program News

Students in the Fourth Year of the B.Sc. in Pharmacy program are currently completing their experiential training components as part of the Structured Practical Experience Program (SPEP). This marks the final cohort of BScPhm students at the Faculty, and the final group of students to participate in the SPEP program.

The Doctor of Pharmacy (PharmD) program replaces the BScPhm program. Students are currently in the second term of their first, second, and third years of study in this exciting new program. For students in Third Year, this term represents their final set of in-class instruction, as they will enter the Advanced Pharmacy Practice Experience (APPE) program beginning this Spring. Between May 2014 and April 2015, students participating in this program will complete 36 weeks of experiential training at various community, hospital, and other pharmacy practice sites, putting the knowledge they acquired in the classroom to use in a host of direct and non-direct patient care settings.

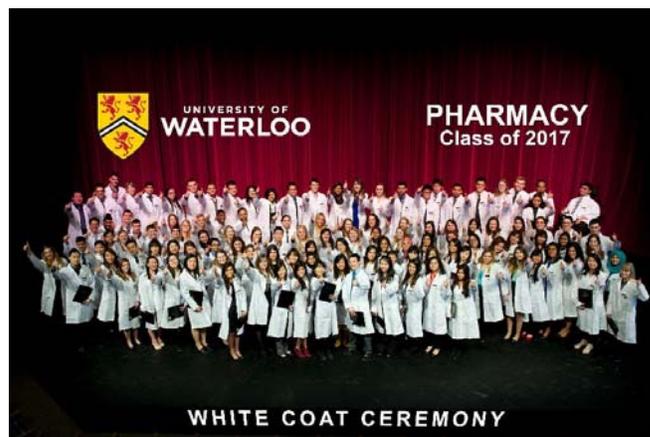
UNIVERSITY OF WATERLOO

School News

PharmD Program - As of January 2014, the School's "entry-to-practice" degree program changed to a four year Doctor of Pharmacy (PharmD) degree. The program will provide students with more advanced clinical training in order to prepare them for their expanded role in direct patient care. The program will also emphasize interprofessional education and collaboration with physicians, nurses and other health professionals.

Community of Practice - an innovative feature of the new PharmD program is the Community of Practice clinical rotations, where students spend 24 weeks training in one community. From January to August, starting in January 2015, students will have 3 x 8 week PharmD direct patient care Clinical rotations. Ideally at least 2, and hopefully all three will be in the same geographical area.

<http://uwaterloo.ca/pharmacy/experiential-co-op-and-pharmd-clinical-rotations/pharmd-rotations>



The School of Pharmacy welcomed its first class of PharmD students at the White Coat ceremony on Thursday, January 9, 2014. The Rx2017 class has 120 students.

Bridging Program - the School is offering an option for Waterloo BScPhm graduates to complete the courses required to achieve a PharmD degree through a bridging program. The program, tentatively scheduled to launch in January 2015, will focus on the development of advanced clinical expertise and experience, and will aim to be flexible and attractive to our graduates regardless of their current geographic or practice location in Canada.

New PhD Program - the School is commencing a new dedicated PhD program in Pharmacy. Up until this point, students who aspired to a doctorate took their degrees through the Departments of Biology and Chemistry, who have been major players in helping the School develop its scientific programs. The new PhD program, recently funded by the Province of Ontario, already has eight students enrolled, and promises to be a major part of the increased research momentum anticipated for the School over the next few years.

Appointments

David Edwards, Hallman Director was recently appointed to the Board of Directors of the Canadian Foundation for Pharmacy.

Recent staff appointments include:

Deborah Arsenault – Manager, Experiential Education. Deborah will be help launch the clinical rotations for the fourth year of our PharmD program in January 2015.

Christine Bird – Community Engagement Coordinator. Christine will design and implement the new Community Service Learning milestone for the PharmD program.

Jessica Loughridge – Programmatic Assessment and Curriculum Project Coordinator. Jessica will assist with a variety of projects associated with programmatic assessment and implementation of a PharmD curriculum.

OPEN Update

The Ontario Pharmacy Research Collaboration is a multidisciplinary and multi-institutional research program headquartered at Waterloo. Dr. Eric Schneider and Dr. Nancy Waite are leading OPEN's Pharmacists as Immunizers project that is evaluating the effectiveness and uptake of influenza vaccination in community pharmacies. The project is determining the demographic and clinical characteristics of patients who receive flu shots from their community pharmacists, and will examine the attitudes and beliefs of pharmacists, physicians, nurses, public health officials and patients with respect to this recently expanded scope of practice. Project findings will be used to help increase the uptake of immunization by pharmacists, as well as to inform university and professional organization education programs to better prepare pharmacy students and practicing pharmacists to provide flu shots.

Student Awards

Rx2013 graduate, Scott Campbell received the highest score in Canada on the 2013 PEBC Pharmacist Qualification Exam. This is the first time a University of Waterloo Pharmacy student has won the award. As a result of his achievement, Scott will receive the George A. Burbidge Award this spring in Saskatoon.



Rx 2013 graduate, Scott Campbell with Ken Potvin, Director of Admissions, Professional Relations & Undergraduate Affairs at the 2013 convocation reception.

Rx2014 student, Danielle Paes received the Commitment to Care & Service Award for Student

Leadership at the annual awards gala held in Toronto on November 25, 2013. Danielle was recognized as a dynamic young leader who is predicted to be a change agent within the profession.

Grants

Tarek Mohamed (PhD candidate), received a CIHR travel grant (\$1000) to attend 13th International Geneva/Springfiled Symposium on Advances in Alzheimer's Therapy.

Roderick Slavcev – received a HRSDC Career Focus Grant (\$50,000). Strategic Education. 2013.

Shawn Wettig - was awarded a MITACS Accelerate Intern Fellowship (joint with Accucaps Industries Ltd.) for an industrial project relating to the development of a novel soft-gelatin capsule product. The Fellowship is to support a new MSc student.

Publications

Edginton AN, Shah B, Sevestre M, Momper JD. 2013. The integration of allometry and virtual populations to predict clearance and clearance variability in pediatric populations over the age of six years. *Clinical Pharmacokinetics*. 52(8): 693-703.

Yun YE, Edginton AN. 2013. Correlation-based prediction of tissue-to-plasma partition coefficients using readily available input parameters. *Xenobiotica*. 43(10): 839-852

Maharaj AR, Barrett JS, Edginton AN. 2013. A workflow example of PBPK modeling to support pediatric research and development: case study with lorazepam. *AAPS Journal*. 15(2):455-464.

Offman E, Edginton AN. 2013. Contrasting toxicokinetic evaluations and interspecies pharmacokinetic scaling approaches for small molecules and biologics: applicability to biosimilar development. *Xenobiotica*. 43(6):561-569.

Tarek Mohamed, Tuan Hoang, Masoud Jelokhani-Niaraki, Praveen P. N. Rao. Tau-derived-hexapeptide 306VQIVYK311 aggregation inhibitors: Nitrocatechol moiety as a pharmacophore in drug design. *ACS Chemical Neuroscience*. 4, 1559-1570, 2013.

Tarek Mohamed, Wesseem Osman, Gary Tin, Praveen P. N. Rao. Selective inhibition of human acetylcholinesterase by xanthine derivatives: In vitro inhibition and molecular modeling investigations. *Bioorganic and Medicinal Chemistry Letters* 23, 4336-4341, 2013.

Presentations

Andrea Edginton presented "Rational pediatric dose prediction: a role for physiologically-based pharmacokinetic (PBPK) models." at the International Society of Pharmacometrics (ISoP) MidWest Local Chapter Meeting, January 29, 2014, Chicago, IL.

Nardine Nakhla and Shannon Gordon presented "Thinking outside the library: being embedded in a professional practice lab" at Toronto's Ontario Library Association Super Conference in January 2014. Their talk explored a collaboration involving an Academic Librarian providing on-site drug information seeking support in a first year professional practice lab at the University of Waterloo's School of Pharmacy. Their

Nicastro, J., Sheldon, K., Kaur, T., Aucoin, M., and R.A. Slavcev. 2013. Construction and analysis of a genetically tuneable lytic phage display system. *Applied Microbiology and Biotechnology* 97:7791-7804.

Kaur, T., and R.A. Slavcev. 2013. Solid Lipid Nanoparticles: "Tuneable Anti-Cancer Gene/Drug Delivery Systems". In: *Gene Therapy/Book 1*, InTech Open Access Publisher. DOI: 10.5772/54781

Huang, E. and R.A. Slavcev. 2013. A Celebration of the Innovation and Entrepreneurship at University of Waterloo 2nd Annual Business Awards Ceremony. *Canadian Pharmacists Journal/Revue des Pharmaciens du Canada* 146: 251-252.

Slavcev, R.A., Cheung, D., and J. Tjendra. 2013. A needs-driven model for strategic pharmacy education. *Currents in Pharmacy Teaching and Learning* 5: 593-599.

Slavcev, R.A., Tjendra, J., Boran, V. and N. Kanji. 2013. Pharmacy Investment Club: Fostering financial management skills from beyond the classroom. *Canadian Pharmacists Journal/Revue des Pharmaciens du Canada* 146: 144-145.

Slavcev, R.A. 2013. Strategic pharmacy: Navigating the storm to not just survive, but thrive. *Ontario Pharmacist* 77: 8-

Haitang Want and Shawn D. Wettig "Transfection and structural properties of phytanyl substituted gemini surfactant-based vectors for gene delivery", *Phys. Chem. Chem. Phys.*, 2013, DOI: 10.1039/C3CP52621F

experience represented the possibility for interprofessional partnerships, and also showed how the skillset of an Academic Librarian can support course coordinators meet their teaching and learning objectives for courses in the Pharmacy Practice curriculum. This project was done in collaboration with and in honour of their good friend and colleague, Lisa McLean.

Nardine Nakhla presented at OPA's Minor Ailments Program in Toronto on December 14-15, 2013. This course is designed to train pharmacists on triaging, assessing and treating/prescribing for common minor ailments.

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