



Association of Faculties  
of Pharmacy of Canada

Association des facultés  
de pharmacie du Canada

# AFPC COMMUNICATION

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Photo: Celebrating our last Council of Faculties meeting with Harold Lopatka and first with Janet Cooper, February 8, 2017.

## **PRESIDENT'S MESSAGE**

Happy New Year to all! It's been an exciting year already with a change in leadership for AFPC. On January 2, 2017, Janet Cooper joined AFPC as the new Executive Director with a wealth of experience in association management and strategic leadership. With over 20 years at the Canadian Pharmacists Association (CPhA), most recently as the Vice President of Professional Affairs, she was a passionate advocate for advancing the profession and enhancing patient care. She led the Blueprint for Pharmacy practice change program and the association's initiatives in professional development, practice research, knowledge translation, conference, membership services and health informatics. She has extensive experience in government and stakeholder relations, health care policy, patient safety and health human resources. Prior to CPhA, Janet practiced as a manager and pharmacist in hospital and community pharmacy in Ontario and Nova Scotia. AFPC is very fortunate to have attracted Janet to this position, and the Councils and Board look forward to working with her in the future.

On behalf of the Board, I would like to thank Harold Lopatka for his service to AFPC as Executive Director for the last 6 years. Harold worked hard to fulfill the vision and mission of AFPC, and brought a valuable leadership perspective to AFPC, both internally and externally. He was innovative in securing funding for various initiatives and creating visibility for AFPC. Thank you Harold for your leadership, passion and dedication to AFPC. It has been a tremendous pleasure to work with you, and I wish you much health and happiness in your retirement.

Special Interest Groups continue to form at AFPC. At the mid-year Council meeting on Feb 8, we reviewed terms of reference for 2 new groups – medicinal chemistry and social & administrative pharmacy. This is an excellent way for faculty to collaborate and network based on their area of teaching and research. Adding these 2 groups to the existing SIGs gives AFPC a total of 7 SIG groups! Additionally, an Ad Hoc Committee on Professionalism has been formed, with representation from each faculty of pharmacy. Led by Patricia Gerber, this will focus on how to improve our teaching and assessment of professionalism within curriculum. If interested in any SIG, contact [Janet Cooper](#) and/or the SIG lead. (Info about the medicinal chemistry SIG is spotlighted in the U of A Spotlight.)

AFPC continues to partner with other national organizations to deliver the Canadian Pharmacy Education and Research Conference (CPERC). In 2017, AFPC partners with CPhA for the Canadian Pharmacists Conference/CPERC from June 2-6, 2017 in Quebec City. AFPC-specific sessions will be scheduled on June 5 and 6. More information is available at: <http://afpc.info/content/conference-overview>. Lastly, please see the Executive Director's update in this newsletter, which provides you with more information about AFPC activities since the last newsletter. Please contact myself or Janet Cooper if you have suggestions or comments.

Ann Thompson  
AFPC President 2016-2017

## EXECUTIVE DIRECTOR'S CORNER

### HIGHLIGHTS

- Janet Cooper is hired as the new Executive Director. Harold Lopatka retires from position. Transition period January – February 2017.
- Planning is underway for the CPERC 2017 conference in partnership with the CPhA in Quebec City, June 2-6, 2017 (AFPC educational sessions planned for June 5, 6). Check AFPC website for registration and program information.
- AFPC educational outcomes are currently under review. Revised educational outcomes will be available in advance of 2017 annual conference.
- Three new AFPC committees to be established: Medicinal Chemistry SIG, Social and Administrative Pharmacy SIG, Ad-hoc Professionalism Committee.

### ADMINISTRATION

Executive Director Transition – A seamless transition in responsibilities occurred over 1 ½ months. Janet Cooper started as Executive Director January 2, 2017. Through the month of January, Janet received orientation and training from Harold Lopatka. Janet assumed responsibility for the majority of the Executive Director duties at the end of January. The AFPC head office will be in Ottawa. Formal orientation

will be completed mid-February. Harold will stay on in a consulting role with continued involvement in the pharmacy manpower initiative and the informatics project until the end of June.

### GOVERNANCE

Board of Directors – The Board of Directors met November 24, 2016. Agenda items included review and approval of the 2017 AFPC operating budget, CPhA membership, and updates on selected AFPC programs and activities. The next Board of Directors meeting was February 14, 2017.

Council of Faculties – The Council of Faculties mid-year meeting was held February 8, 2017 and the annual meeting will be held on June 4, 2017.

Council of Deans – The Council of Deans annual meeting was held October 30, 2016 at the University of Waterloo. Agenda items included consultation with the interim President of Innovative Medicines Canada, research funding, advocacy plan, CPhA membership, proposed revisions to CCAPP standards, 2015/16 annual benchmark statistics, and briefings on AFPC programs and projects. The Council of Deans mid-year meeting was March 9, 2017.

### PROGRAMS / SERVICES / PROJECTS / COMMITTEES

Awards – Three faculty applications were received for the AFPC nomination for the Canadian Pharmacists Association Canadian Pharmacist of the Year Award. One AFPC applicant was selected and the application forwarded to the Canadian Pharmacists Association.

Thirteen nominations were received January 15, 2017 for the following four AFPC awards: Research Career Award (Pfizer), New Investigator Research Award, Pharmacy Graduate Student Award for Pharmacy Practice Research (CFP), and Post Graduate Pharmacy Fellowship Award (Merck Canada). The applications are under review with the intent that selections will be made by April 1, 2017.

March 1 is the application deadline for the following AFPC awards: Graduate Student Research Award, Student Research Poster Award, Award for Innovation

in Education (Janssen), Award for Excellence in Research or Innovation in Assessment of Competence (PEBC), and National Award for Excellence in Education.

CPERC 2017 – The 2017 AFPC annual conference (CPERC) is planned in conjunction with the Canadian Pharmacists Conference. The conference will mark the 400<sup>th</sup> anniversary of Canada's first pharmacist, Louis Hebert. The joint conference is planned from June 2 – 6, 2017 in Quebec City, with the specific AFPC educational programming planned for June 5 and 6. AFPC Council and Board business meetings will be held on June 4. The conference programs and registration details will be posted soon on the AFPC website at <http://www.afpc.info/content/conference-overview> . The following is a preliminary outline for the June 5 and 6 AFPC sessions.

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<b>June 5</b>	
0700-0830 hrs	AFPC SIG business meetings
0845-0945 hrs	AFPC-CPhA educational session*
1000-1100 hrs	AFPC-CPhA educational session*
1115-1215 hrs	AFPC Townhall
1230-1430 hrs	Joint Canadian Pharmacists Conference plenary session and lunch
1445-1545 hrs	AFPC plenary session
1545-1715 hrs	AFPC Roundtables
1900-2200 hrs	AFPC Awards banquet
<b>June 6</b>	
0800-0930 hrs	AFPC Plenary
1000-1100 hrs	AFPC SIG concurrent sessions
1100-1200 hrs	AFPC SIG concurrent sessions
1200-1300 hrs	Lunch – Poster presentations
1300-1500 hrs	AFPC Concurrent sessions – oral presentations
1530-1700 hrs	AFPC plenary – closing

Note: \* denotes the session is part of the academic content stream running concurrently with other streams within the Canadian Pharmacists Conference.

Administrative and planning changes have been implemented for the 2017 conference. A centralized model similar to that employed by AACP has been used for planning (reduced reliance on local planning model). The AFPC education committee is providing oversight in planning program content and formats for the conference. Topics for invited presentations will be determined and abstract reviews and selections for concurrent sessions will be conducted by the education committee. The AFPC research committee will review abstracts and make selections for poster presentations.

In addition, Université Laval and Quebec pharmacy organizations (APES, OPQ, AQPP) are holding a conference, Événement des pharmaciens 2017, on June 1-2 (with June 2 being a joint day with CPhA). As well, Laval will be hosting CIDPharmEF during this week (the International Conference of Deans of Francophone Faculties of Pharmacy).

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AFPC Review of Educational Outcomes – Four bids were received in response to the RFP for a consultant to assist in reviewing and revising the educational outcomes. Donna Woloschuk was hired as the consultant for this review. The consultant reviewed and made revisions to the 2010 educational outcomes following comparisons with other outcomes and competency documents (e.g., AACP, NAPRA, RCPSC). Through the education committee an educational outcomes task force was established to provide faculty member feedback to draft versions of the revised educational outcomes. A consultation version of the revised outcomes was sent out for review by internal and external stakeholders, with feedback requested by February 3<sup>rd</sup>. A final version of the revised outcomes will be completed in March

2017. In addition, a user / reference manual will be developed as a supplementary document to the educational outcomes. A final version of the educational outcomes will be presented at the 2017 CPERC.

Communications – Rebecca Law has consented to serve as the editor for one more edition of the newsletter (January / February 2017 edition). This will provide time for a newsletter replacement strategy to be developed and reviewed at the mid-year Council meetings. AFPC appreciates Rebecca’s continued assistance over this period.

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Informatics SIG – The Informatics SIG meets on a regular basis. Through the SIG, faculty peer leaders are enabled to expand the educator network by connecting with colleagues (other faculty members) to plan and organize informatics integration activities. Lisa Bishop, the national peer leader coach / mentor, has completed 7 webinar sessions with individual faculties to support local integration plans. 45 faculty colleagues have been oriented to the informatics competencies and the e-resource. Sessions with the remaining 3 faculties are planned for spring 2017. Six faculties are mapping the informatics competencies to their respective curricula. Marie Rocchi, the e-resource project manager / instructional designer, is completing content revisions to the “informatics for pharmacy students” e-resource. Two of the revised chapters will be translated to French for potential use by Montreal and Laval. There have been approximately 4500 users of the e-resource since it was launched. The activities of the SIG are aligned with the Pharmacy Educator Informatics Network project (externally funded by

Canada Health Infoway). The leadership team members for the project are Lisa Bishop, Marie Rocchi, Donna Pipa, Seema Nayani, Janet Cooper and Harold Lopatka.

Experiential Education SIG (PEP-C) – Pharmacy Experiential Programs of Canada (PEP-C) is continuing to provide leadership on the CanExEd perpetuation plan. The 4 priorities are: making the grade, teaching and learning models, partnership development, and recruitment and retention. Terms of reference are being finalized for the working groups to provide advice and oversight for each of the 4 priorities. A successful webinar, “How students add value to your pharmacy practice - Findings from the CanExEd project” was held as part of a series of important topics to pharmacy practice. The webinar is archived on the [CPhA website](#). Another significant output from the CanExEd project, a peer assisted learning preceptor [guidebook](#) has been developed and is posted on the AFPC website.

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Program Evaluation / Assessment SIGs - The program evaluation / assessment SIGs continue to hold regular web based educational sessions on topics related to the field. If you are interested in participating in these sessions or require additional information please contact [Gilles Leclerc](#). The program evaluation SIG recently completed the pilot project 2016 graduating student survey. Five of 10 faculties participated in the pilot. The results are being discussed with the Council of Deans and Council of Faculties. The survey will be piloted again in 2017 with the intent of expanding the use to other faculties. For additional information about the survey please contact [Ken Cor](#).

efforts to advance the abilities of each school to enhance student professionalism and meet the AFPC educational outcomes. Patricia Gerber (British Columbia) is the lead for this committee.

Other SIGs and Working Groups – Terms of reference have been drafted for two new SIGs: Medicinal Chemistry SIG, and Social and Administrative Pharmacy SIG. The contacts for the Medicinal Chemistry SIG are Carlos Velazquez (Alberta) or Simon Albon (British Columbia) or Ed Krol (Saskatchewan). The contact for the Social and Administrative Pharmacy SIG is Jason Perepelkin (Saskatchewan). The terms of reference for both SIGs were reviewed and approved at the Council of Faculties mid-year meeting.

Pharmacy workforce planning – Work is continuing on the joint AFPC / CPhA workforce planning initiative. The mandate is to conduct research, develop recommendations, and to advise on key issues related to the development a modern pharmacy workforce planning model for Canada. The following organizations are represented on the pharmacy workforce planning committee: CPhA, AFPC, NAPRA, CSHP, CAPSI, NPAC, CCCEP, CCAPP, CAPT, CPTEA, APES, OPA, ACP, Pharmacists Manitoba, and AQPP. The research phase included collection about processes, systems and frameworks from the US, UK, Australia, Canadian Institute for Health Information (CIHI), CSHP, NAPRA, AFPC, Canadian Occupational Projection System, WHO, and the Physician Resource Planning task force. The pharmacy workforce planning committee met face to face in mid-February. Objectives of the meeting were to: 1) finalize short-term recommendations for pharmacy with respect to improved data collection and the creation of a supply-based forecasting model, and 2) reach consensus on next steps (timing and deliverables) for Pharmacy Workforce Planning Committee and future work in this area.

The ad-hoc Professionalism Committee terms of reference has been drafted. This committee will explore the development of national guidelines and

**OTHER**

International Pharmaceutical Federation (FIP) – Delegates from Canadian pharmacy faculties attended the FIP Global Conference on Pharmacy and Pharmaceutical Sciences Education. The [conference](#) was held to set future milestones for education and workforce development of pharmacists, pharmaceutical scientists, creating a global vision for transformative pharmacy and pharmaceutical sciences education. A number of [statements and documents](#) were reviewed and approved at this conference: pharmaceutical workforce development goals, global vision for education and workforce and supporting documents.

Canadian Council Accreditation of Pharmacy Programs (CCAPP) – Consultations were held with the AFPC Council of Deans regarding revised Standards for First Professional Degree in Pharmacy Programs. The CCAPP Board accepted changes to the Standards for First Professional Degree in Pharmacy Programs at their December 2016 meeting. The changes will take effect January 2018.

The revised standards are posted on the CCAPP website and available at: <http://ccapp-accredit.ca/university-degree-programs-in-pharmacy/>.



Harold Lopatka  
Executive Director (outgoing)



Janet Cooper  
Executive Director (incoming)

**ACKNOWLEDGEMENT OF 2016 SPONSORS**

AFPC would like to acknowledge the following 2016 Sponsors for their generous contributions:

**Canadian Pharmacy Education & Research Conference Sponsors**

- Innovative Medicines Canada – Platinum Sponsor
- Teva Canada – Platinum Sponsor
- BD Canada – Gold Sponsor
- Shoppers Drug Mart – Gold Sponsor
- Pfizer Canada Inc. – Silver Sponsor

**Award Sponsors**

- Merck Canada Ltd. – AFPC / Merck Postgraduate Pharmacy Fellowship Award
- Canadian Foundation for Pharmacy – AFPC / CFP Graduate Student Award for Pharmacy Practice Research
- Pharmacy Examining Board of Canada – AFPC / PEBC Award for Excellence in Research or Innovation in Assessment of Competence
- Janssen Inc (J&J Shared Services) – AFPC / Janssen Award for Innovation in Education
- Pfizer Canada Inc. – AFPC / Pfizer Research Career Award

## FACULTY SPOTLIGHT: UNIVERSITY OF ALBERTA

### **ANNOUNCEMENT: Improving Teaching in Medicinal Chemistry: a new SIG opportunity**

The implementation of PharmD curricula in Canadian Universities represents an opportunity for faculty members in Pharmaceutical Sciences to re-think teaching effectiveness across the disciplines. Topping this teaching improvement agenda is preparing student pharmacists to apply scientific principles to practice. One discipline needing attention at this time is Medicinal Chemistry. Historically, medicinal chemists in North American universities have struggled with challenges of content relevance, low acceptance, and poor teaching evaluations despite being a knowledge domain unique to pharmacy education, differentiating pharmacists from other health professionals.

This history might be due to the intrinsic nature of the discipline and/or its inherent content that pharmacy students often approach as isolated, unimportant subject matter and many pharmacists consider unnecessary for day-to-day clinical practice. However, given the importance of medicinal chemistry principles to appropriate and safe use of medications, there is tremendous opportunity to teach these concepts in a practical and thought-provoking manner. The ever-changing role of pharmacists in Canada will demand that courses in pharmaceutical sciences adopt teaching methods that showcase application through use of realistic, patient-centered scenarios.

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This announcement is also a general call for action to all AFPC members with interest in the multidisciplinary teaching of Medicinal Chemistry. Ideally, we think that the SIG in Medicinal Chemistry should have at least one faculty member from each Canadian Pharmacy school. Consequently, we invite Faculty members, regardless of their particular role or discipline affiliation, to consider this initiative and let us know if you would like to participate in this exciting and challenging activity.

In this regard, we have completed and submitted the final draft of the terms of reference, which will be discussed during the upcoming AFPC's meeting. Finally, during our first nationwide teleconference (sometime towards the end of February or early March) we will elect the Chair and Vice-Chair, who will then propose subsequent activities, any potential sub-committees, deadlines and action items.

Consequently, in an effort to initiate the development of a PharmD-oriented medicinal chemistry curriculum and associated pedagogical practices in the Canadian context, collaboration has led to the formation of a Special Interest Group (SIG) in Medicinal Chemistry.

The AFPC's Medicinal Chemistry SIG will focus on addressing key issues related to instruction and scholarly teaching of medicinal chemistry competencies for PharmD students, and will assist programs to integrate pharmacy practice with selected and relevant chemical principles of drug action and disposition.

The goals of the SIG are:

1. To contribute and share expertise in medicinal chemistry education within PharmD programs.
2. To serve as a resource for practice educators and pharmacy faculties in Canada.
3. To promote a culture of interdisciplinary collaboration between basic scientist and practitioners, in which selected principles of medicinal chemistry can and should be considered essential in clinical practice.
4. To foster teaching excellence and scholarly teaching practices amongst teachers of medicinal chemistry in Canada.

We are looking forward to hearing from you! (For further information and enrollment, please contact Dr. Carlos Velázquez at [velazque@ualberta.ca](mailto:velazque@ualberta.ca)).

The organizing committee:

#### **Simon Albon, PhD**

Professor and Director of Educational Support and Development Faculty of Pharmaceutical Sciences, University of British Columbia

#### **Ed Krol, PhD**

Associate Professor, College of Pharmacy and Nutrition, University of Saskatchewan

#### **Carlos Velázquez, PhD**

Associate Professor, Faculty of Pharmacy and Pharmaceutical Sciences, University of Alberta

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FM, Hammer, D. (2011) An evidence basis for assessing excellence in pharmacy teaching. Currents in Pharmacy Teaching and Learning 2011 3:238-248.

Weiman, C. The “curse of knowledge” or why intuition about teaching often fails. American Physical Society News 2007; 16(10). Retrieved from <http://cwsei.ubc.ca/resources/other.htm>

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**New Pharmacy Programs at the University of Alberta**

The Faculty has announced some important news regarding the PharmD for BSc in Pharmacy Students (PBS, or “bridging” PharmD), entry-to-practice Doctor of Pharmacy and the Doctor of Pharmacy for Practicing Pharmacists programs. In September, the Faculty received approval from the Government of Alberta’s Advanced Education Ministry to go ahead with implementation of these three programs.

The Faculty plans to implement the new Doctor of Pharmacy (PharmD) for incoming students beginning in September 2018. The PBS bridging program will enable a proportion of our current BScPharm students to graduate with an entry-to-practice PharmD degree.

In its first offering, the PBS program will have a quota of up to 65 students. Current third year students (Class of 2018) may apply to transfer into the PBS program. Students will be selected based on cumulative GPA from Year 1 to the end of fall term Year 3. Applications were due Feb. 1, 2017 with offers of conditional acceptance given during winter term 2017; students will be transferred to the PBS program on May 1, 2017 following successful completion of Year 3. Students who choose not to apply or do not fall within the quota for the PBS program will continue to complete their fourth year in the BScPharm program.

The comparison of the 2 program pathways is as follows:

	<b>BScPharm Program</b>	<b>PBS Program</b>
May – Aug 2017	Summer Break	<b><u>Required Courses:</u></b> Pharm 531: Critical Analysis of Evidence Pharm 532: Patient Assessment Pharm 547: Advanced Pharmacotherapy & Practice <b><u>Elective Course:</u></b> One
Sept – Dec 2017	On-campus courses (electives)	<b><u>Experiential Placements (8-weeks each):</u></b> Pharm 426: Community Practice Experience Pharm 428: Acute Care Practice Experience Pharm 538: PharmD Seminar
Jan – Apr 2018	<b><u>Experiential Placements (8 weeks each)</u></b> Pharm 426: Community Practice Pharm 428: Acute Care Practice	<b><u>Experiential Placements (8 weeks each):</u></b> Pharm 536: Selective in Patient Care ( <b>New</b> ) Pharm 537: Elective ( <b>New</b> ) Pharm 539: PharmD Seminar

## FACULTY NEWS

### UNIVERSITY OF ALBERTA

#### General Faculty News

The **Alberta Pharmacy Students' Association** will host the 30<sup>th</sup> annual Professional Development Week (PDW) January 10-13, 2018. PDW is an annual four-day pharmacy student conference that provides a unique set of educational opportunities for future pharmacists. The theme for next year's conference is "Fuelling our Future."

#### Awards

- **Dr. Sherif Hanafy Mahmoud** was awarded the Preceptor Recognition Award, Faculty of Pharmacy and Pharmaceutical Sciences.

- **Dr. Fakhreddin Jamali** received a 2016 Lifetime Achievement Award for Excellence in Pharmaceutical Sciences from the Canadian Society of Pharmaceutical Sciences.
- Graduate student **Seyed Amirhossein Tabatabaei Dakhili** won best poster presentation award at the 5<sup>th</sup> Western Canadian Medicinal Chemistry Workshop (WCMCW) in Saskatoon.

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#### Publications

Congratulations to Jill Hall, Terri Charrois, Ken Cor and Fakhreddin Jamali for co-authoring the following publications:

1. **Hall JJ**, Bolina M, Chatterley T, **Jamali F**. Interaction between low-dose methotrexate and nonsteroidal anti-inflammatory drugs, penicillins, and proton pump inhibitors: A narrative review of the literature. *Ann Pmcother* 2016; DOI: 10.1177/1060028016672035
2. **Hall JJ**, Dissanayake TD, Lau D, Katz SJ. Self-Reported Use of Natural Health Products Among Rheumatology Patients: A cross-sectional survey. *Musculoskeletal Care* 2016; DOI:10.1002/msc.1178
3. Dikun J, Crumby AS, Shahpurwala Z, **Hall J**, **Charrois TL**, Rosenthal MM. Understanding pharmacist success in practice: A scoping review. *JAPhA* 2016;56:649-655.
4. **Hall JJ**, Katz SJ, **Cor MK**. Patient satisfaction with pharmacist-led collaborative follow-up care in an ambulatory rheumatology clinic. *Musculoskeletal Care* 2016; [in press]. doi: 10.1002/msc.1160

Congratulations to professor Sherif Hanafy Mahmoud who co-authored the following publication:

Nancy Marr, Jessica Yu, DJ Kutsogiannis and **Sherif Hanafy Mahmoud**. Risk of hyponatremia in patients with aneurysmal subarachnoid hemorrhage treated with exogenous vasopressin infusion. *Neurocritical Care* 2016. doi:10.1007/s12028-016-0300-8.

Congratulations to **Ann Thompson** and **Michelle MacDonald** for contributing to the authorship of a preceptor guidebook on Peer-Assisted Learning in Experiential Education:

This was a collaborative effort between the Pharmacy Faculties at University of British Columbia and University of Alberta, and the Association of Faculties of Pharmacy of Canada, and is posted on the AFPC website at: <http://afpc.info/content/peer-assisted-learning-preceptor-guidebook>. This guidebook is first in a series to provide preceptors and experiential education coordinators with guidance to support best practices in non-traditional learner-preceptor models.

## UNIVERSITY OF BRITISH COLUMBIA

### Announcing the 2017 UBC Faculty of Pharmaceutical Sciences Alumni Agent of Change



We are pleased to announce that the 2017 Faculty of Pharmaceutical Sciences Alumni Agent of Change is Gary D. Lopaschuk, BSc(Pharm) '78, MSc(Pharm)'80, PhD(Pharm)'83.

A triple alumnus of the Faculty, Dr. Lopaschuk is now a distinguished university professor of pediatrics at the University of Alberta, Edmonton. He is a cardiovascular researcher who focuses on the regulation of fatty acid oxidation in the heart and the mechanism by which high rates of fatty acid oxidation contribute to heart disease and heart failure. He is also examining how alterations in fatty acid metabolism contribute to cardiovascular disease in the diabetic. The Faculty hosted an event to celebrate Dr. Lopaschuk's tremendous achievements on March 1, 2017, at the Robert H. Lee Alumni Centre.

### MEDTalks: The Genomics Revolution



Image Credit: alumniUBC

On January 24, 2017, UBC Pharm Sci partnered with UBC's Faculties of Medicine and Dentistry, and alumniUBC, to bring together five top UBC researchers including Dr. Corey Nislow, Canada Research Chair Tier 1 and associate professor at the Faculty, to learn more about their important work in the field of genomics.

A webcast of the evening's presentations is available to view online (free registration required): <https://mediasitemob1.mediagroup.ubc.ca/Mediasite/Logi n/Register?ReturnUrl=%2FMediasite%2FPlay%2Fdeb13a800fc5425baa75bbb02273f8121d>

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### New Patient Care Tools for Pharmacists Available to Use

Due to multiple requests from pharmacists for access to the patient care tools used at the UBC Pharmacists Clinic, we have updated our online catalog of pharmacist resources. The templates are free for pharmacists to download and use, and may be accessed at <https://pharmsci.ubc.ca/pharmacists-clinic/resources-learners/pharmacist-resources>

### Celebrating 70 Years of UBC Pharm Sci



Photo credit: Ivan Yastrebov, UBC Pharm Sci

*In the month of November, 2016, the Faculty celebrated 70 years of leadership in pharmacy and pharmaceutical science education, research, and practice.*

The anniversary was marked with a commemorative print and the installation of a time capsule, slated to be opened on the Faculty's 100<sup>th</sup> anniversary.

UBC Pharm Sci was the sixth school of pharmacy established in Canada. It began in 1946 as the Department of Pharmacy in the Faculty of Arts and Sciences at UBC, under the leadership of Dean Esli Woods. Through Dean Woods' and colleagues' efforts, the Board of Governors recognized the Department as a fully-fledged faculty on May 12, 1949. Read more about the Faculty's history at <https://pharmsci.ubc.ca/news/celebrating-70-years-ubc-pharm-sci>

### Recent Publications

To view our latest publications, visit <https://pharmsci.ubc.ca/research/research-publications>.

## DALHOUSIE UNIVERSITY

*Drs. Andrea Murphy and David Gardner meet with federal Minister of Health, the Honourable Dr. Jane Philpott, to discuss the Bloom Program*

The federal Minister of Health, the Honourable Dr. Jane Philpott, traveled across Canada visiting provinces and territories to learn of innovations in mental health care and home care.

On Friday, January 20, Dr. Philpott met with **Drs. Andrea Murphy** and **David Gardner** of Dalhousie University's College of Pharmacy and Department of Psychiatry to learn about the Bloom Program - *the mental health and addictions community pharmacy partnership program of Nova Scotia*. Also participating in the meeting were Nova Scotia's Minister of Health, Mr. Leo Glavine, the province's new Deputy Minister of Health, Denise Perret, and MP Darren Fisher (Dartmouth - Cole Harbour).

Dr. Murphy described the meeting as "a very positive experience", adding "we are really inspired by the interest and support for the Bloom Program, not only from the Nova Scotia Minister of Health but also at the federal level from Dr. Philpott and her advisers." For over 45 minutes, Drs. Murphy and Gardner provided the officials with an overview of the Bloom Program and recent findings from the evaluation. The question and answer

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The College welcomes **Dr Emily Reeve** as an Adjunct Appointee. Emily is a NHMRC-ARC Dementia Research Fellow, Faculty of Medicine, The University of Sydney and is currently an Affiliate Scientist: Geriatric Medicine Research, Faculty of Medicine, Dalhousie University and Capital Health, Nova Scotia Health Authority. She is participating in the 2017-18 TUTOR-PHC program, a pan-Canadian, interdisciplinary research capacity building program at Western University.

### Publications

**Mackenzie M**, Hall R. Pharmacogenomics and pharmacogenetics for the intensive care unit: a narrative review. *Can J Anaesth.* 2017 Jan;64(1):45-64 published online October 2016: DOI 10.1007/s12630-016-0748-1

**Isenor J**, Edwards N, Alia T, Slayter K, **Bowles S**. Impact of pharmacists on immunization rates: A systematic review and meta-analysis. *Vaccine* 2016 Nov 11;34(47):5708-5723. doi: 10.1016/j.vaccine.2016.08.08

**Isenor J**, Killen J, Billard B, McNeil S, MacDougall D, Halperin B, Slayter K, **Bowles S**. Impact of pharmacists

period was lively and Dr. Gardner noted: "they had very encouraging feedback about the program and great questions that showed their interest in the mental health and addictions roles of community pharmacists." He added: "of course I'm hoping that this means that they are considering our proposal to gradually expand the Bloom Program so that it is available to many more Nova Scotians."

For more information about the Bloom Program in Nova Scotia, visit <http://bloomprogram.ca> or contact [andrea.murphy@dal.ca](mailto:andrea.murphy@dal.ca) and [david.gardner@dal.ca](mailto:david.gardner@dal.ca)



(left to right): Caroline Pitfield, Andrea Murphy, David Gardner, Jane Philpott, Leo Glavine, Darren Fisher, Denise Perret

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**Bowles S**. Polypharmacy and Falls. In: Medication-Related Falls in Older People. Causative Factors and Management Strategies. Huang A & Mallet L, Eds. ADIS – Springer International, Switzerland. pp 41-54.

**Whelan AM, Cox D, Mansour S**. An evaluation of 18 years of use of a progress exam at the Dalhousie College of Pharmacy. *Pharmacy Education* 2016;16(1):218-29.

Black A, Guilbert E, Costescu D, Dunn S, Fisher W, Kives S, et al. Canadian Contraception Consensus (Part 1 of 4). *J Obstet Gynaecol Can* 2015;37(10):936-8. (**AM**

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### Presentations

**Isenor J**, O'Reilly B, Fitzgerald A, Billard B, **Bowles S**. Evaluating the Impact of a Universal Policy with or without Pharmacists as Immunizers on Influenza Vaccine Coverage in Nova Scotia: Preliminary Results. Oral abstract presented by J. Isenor at the Canadian Immunization Conference 2016, Ottawa, ON, December 6, 2016.

Neville H, Losier M, Pitman J, Gehrig M, **Isenor J**, Minard L, Penny E, **Bowles S**. Benzodiazepine and sedative-hypnotic drug use in Nova Scotia hospitals: A point prevalence survey. Presented by H. Neville at the NSHA Quality Summit, Halifax NS, December 6, 2016.

**Isenor J**, Bettinger J. CANVAS Surveillance Network for Influenza Vaccine. Presented by J. Isenor at the Public Health Pharmacy Flu Education Session, Public Health Office, Dartmouth NS, October 13, 2016.

### Grants

Information seeking behaviours of pharmacists and pharmacy students in the Maritimes. Co-principal applicants: **J Isenor** and M Helwig; Co-applicants: **S**

**Whelan** is 13<sup>th</sup> co-author – co-authors listed in alphabetical order; AM Whelan was the only pharmacist on the consensus team)

Black A, Guilbert E, Costescu D, Dunn S, Fisher W, Kives S, et al. Canadian Contraception Consensus (Part 2 of 4). *J Obstet Gynaecol Can* 2015;37(11):S1-S39. (**AM Whelan** is 13<sup>th</sup> co-author – coauthors listed in alphabetical order; AM Whelan was the only pharmacist on the consensus team)

Black A, Guilbert E, Costescu D, Dunn S, Fisher W, Kives S, et al. Canadian Contraception Consensus (Part 3 of 4): Chapter 7 – Intrauterine Contraception. *J Obstet Gynaecol Can* 2016;38(2):182-222. (**AM Whelan** is 13<sup>th</sup> co-author – co-authors listed in alphabetical order; AM Whelan was the only pharmacist on the consensus team)

**Yeung PKF**, Sundar Kolathuru S, **Agu R**. Effect of isoproterenol on catabolism of adenosine 5'- triphosphate and adenosine in systemic blood in a freely moving rat model in vivo. *Drug Metabolism Letter* 2016;10 (3): 219 – 226.

Curran JA, Taylor A, Chorney J, Porter S, **Murphy AL**, MacPhee S, Bishop A, Hawthorn R. Development and feasibility of the Pediatric Emergency Discharge Interaction Coding Scheme. *Health Expectations.* (2017) DOI: 10.1111/hex.12512.

**Bowles, AM Whelan**. Dalhousie Pharmacy Endowment Fund 2017-2019.

**Drs. J Isenor, N Kennie-Kaulbach, AM Whelan, S Burgess** from the College of Pharmacy and colleagues, Drs. R Martin-Misener and F Burge received a Research and Development Grant from the Dalhousie University Faculty of Health Professions to form their collaborative interprofessional deprescribing research team and initiate a pilot project to study the perceptions of healthcare providers in Nova Scotia around deprescribing. **Drs. J Isenor** and **N Kennie-Kaulbach** have received grant funding from the Drug Evaluation Alliance of Nova Scotia (DEANS) to assist their team in continuing their deprescribing research with a focus on implementation strategies.

**P Yeung** has received a research support grant from Dalhousie Pharmacy Endowment Fund to study the potential of ATP metabolism in the red blood cell (RBC) as systemic biomarker for evaluating anti-ischemia agents for cardiovascular protection.

**I Sketris** is an associate investigator on the grant “How best to protect public health: a comparative analysis of regulatory safety warnings on medicines in Australia, Canada the European Union and the United States.” This grant has numerous co-investigators from Canada, USA, Australia and the Netherlands and is funded by the Australian National Health and Medical Research Council and administered by the University of Sydney, Australia (2017-2019).

### Awards

Melissa Gehrig and **S Bowles** received the Patient Care Enhancement Award from the Canadian Society of Hospital Pharmacists for the project “Ensuring appropriate use of antipsychotics in older patients with dementia.” The award was presented on February 5,

2017 at the CSHP Professional Practice Conference in Toronto.

The College of Pharmacy & Nova Scotia Health Authority & IWK Pharmacy 18<sup>th</sup> Annual Student Research Event was held on November 21, 2016. **Beth O’Reilly**, BSc Pharm student, (**Drs. Jennifer Isenor** and **Susan Bowles**, supervisors) won the CSPA award for Dalhousie for her poster: “Evaluating the impact of immunization policies, including the addition of pharmacists as immunizers, on influenza vaccine coverage in Nova Scotia: 2006 to 2016”, and **Ayah Shakshuki**, MSc graduate student, (**Dr Remigius Agu** supervisor) received the AFPC Student Poster award for Dalhousie for her project titled: “Drug Release and Permeation of Compounded Topical Gabapentin in Different Formulations”

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## Université Laval

### Faculty News

#### *Launch of the Apothecary guide*

The official launch of the L’Apothicaire occurred in October 2016 at the Faculty of Pharmacy. L’Apothicaire is a compendium of tables of pharmaceutical information that is a powerful tool for pharmacists. The Laval University residents from 2013-2014 cohort until 2015-2016 cohort were authors of many chapters. Present at the launch were some residents of the cohorts of the Master in advanced pharmacotherapy who participated in the project, the publisher and president of Covapharm, Mr. Stéphane Côté, Dr. Jean Lefebvre, dean of the Faculty, Dr. Julie Méthot, Master in advanced pharmacotherapy program’s director and Mr. Daniel Kirouac. Several revising pharmacists collaborated to ensure the accuracy of the published data. At this time, already more than 1600 copies have been sold.

#### *Evening of recognition and excellence 2016 of the Faculty of Pharmacy*

The second edition of the La Soirée de Reconnaissance et d’Excellence (evening of recognition and excellence of the Faculty of Pharmacy) was held on November 10<sup>th</sup> 2016 at the Ferdinand-Vandry Pavilion. The Faculty welcomed 200 guests. Some were able to visit the laboratories of experimentation and professional practice where the students learn and evolve through the program.

During the ceremony, individual donors, members of the Cercle de la Faculté (group of donating graduates) and corporate donors, members of the Cercle D’honneur de la Faculté received several recognitions from Dr. Jean

Lefebvre, Dean and Mr. Yves Bourget, President and CEO of the Foundation of Laval University. Later, the generous donors had the opportunity to see concretely how their money was spent while the Faculty highlighted the \$ 150,000 in scholarships to deserving students involved in their community. Several clinical instructors who welcome students of the Faculty in training were given recognition for their involvement with the next generation. To close the ceremony, some staff members were also honored in connection with the excellence of their work. All the participants then socialized during a nice cocktail reception.

Ms. Nicole Labonté, a secretarial and faculty member for the past 15 years, received the Member’s Excellence Award for Administrative or Support Staff. Similarly, Dr. Frédéric Calon, Professor at the Faculty of Pharmacy and Researcher, was awarded the Excellence Professor Researcher. For all the award recipients of the evening, see the Honor Board of the 2016 Soirée de reconnaissance et d’excellence.

*Ms. Nicole Labonté, a secretarial and faculty member for the past 15 years, received the Member’s Excellence Award for Administrative or Support Staff. (photo taken by Jérôme Bourgoïn)*



## Teachers News

*Dr. Frédéric Calon presents his research results on the site of the Fonds de recherche du Québec*

Frédéric Calon, a professor at Laval University, presents the results of his research demonstrating the beneficial effects of omega-3 fatty acids on brain health and the development of Alzheimer's and Parkinson's. [To watch the video](#)

*Le Fil meets with Dr. Chantal Guillemette and talks about the findings of her research team*

Le Fil, the university community newspaper, spoke with Dr. Chantal Guillemette, a full professor at the Faculty of Pharmacy. There was talk of discovering more than 160 new UGT proteins that opens up new perspectives in pharmacology and cancer treatment. To view the [article](#)

*Marie-Claude Boivin, recipient of a Health Profession Award*

Marie-Claude Boivin, pharmacist and head of practical training at Laval University's Faculty of Pharmacy, was awarded the Profession Santé Award in the "Interprofessional collaboration" category. Ms. Boivin has been working for several years at the *Apprentiss* Center of the Integrated Center for Health Sciences Education to ensure that students embrace a collaborative practice as they develop and maintain this *modus operandi* throughout their careers. The 2016 Health Profession Awards were held in Montreal on October 13<sup>th</sup>

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*Dr. Line Guénette receives a grant from the Canada Foundation for Pharmacy Innovation Fund*

The Canadian Pharmaceutical Foundation presented its annual Innovation Fund grant to Dr. Line Guénette, Faculty of Pharmacy, Université Laval. His research project "Evidence-based Electronic Tools for Community Pharmacists to Detect and Intervene on Non-Adherence Medication" will build on the previous work of his team. In addition to detection, the project will help pharmacists develop tailored interventions to improve the outcomes of drug non-adherence. This phase of the work will focus on diabetes and depression, two important areas of chronic disease for Canadians. View the [press release](#)

*Dr. Roxane Pouliot is distinguished at the Université Laval Teaching Excellence Awards*

Congratulations to professor Roxane Pouliot who received the Université Laval Teaching Excellence Award - Cycles from the Rector Mr. Denis Brière and Mr. Bernard Garnier, vice-president academic and international activities. This prestigious award underlines the quality of the supervision offered by Dr Pouliot to her students engaged in research training programs. [To see the profile of Roxane Pouliot and view the video](#)

2016. Nearly one hundred people applauded the winners of the eight prizes awarded to doctors, pharmacists and nurses in Quebec. [To read the full text of the award ceremony to Marie-Claude Boivin](#)



Marie-Claude Boivin, recipient of a Health Profession Award (photo taken by Pierre Longtin/Profession Santé)



Dr Roxane Pouliot (photo provided by Université Laval)

## Students News

### *Adam Ménard as Student Ambassador for Pharmacists Without Borders Canada*

Adam Ménard, 2nd year Pharm. D. student was appointed to the position of Student Ambassador for Pharmaciens sans Frontières (Pharmacists Without Borders) Canada.

### *Presentation of the controversies of management by the 2015-2016 cohort*

On September 12, 2016, residents of the 2015-2016 cohort of the Master in advanced pharmacotherapy program presented their work on various topics of management controversy. The 9 teams performed in front of brothers and sisters who were residents of the 2016-2017 cohort, teachers, representatives and members of the management of pharmacy departments in healthcare establishments. Thanks to Jean-François Bussi eres, pharmacist, manager of the management course and congratulations to the residents!

### *Rapha el Parent stands out during the 15th edition of the Universit e Laval 2016 Concours d'id ees (Business Ideas Competition)*

Rapha el Parent, a second-year undergraduate doctoral student in pharmacy, with Julian Garneau, Ph.D. candidate in microbiology-infectiology at the Universit e de Sherbrooke, won two prizes at the 15th edition of the Concours d'id ees de l' Universit e Laval 2016:

- Winners 1st in Group F (Faculties of Medicine, Dentistry, Pharmacy and Nursing)
- BMO Bank of Montreal Grand Prix Winners.

Their business idea is as follows: "MicroProfile is a preventive test to detect abnormalities in the intestinal microbiota of infants in matter to evaluate their risk of developing an atopic disease, such as asthma, eczema or

allergies." Congratulations to the two young entrepreneurs!

### *Congratulations to Aleck Brodeur and the Rouge et Or, winner of the Vanier Cup!*

Aleck Brodeur, a first year undergraduate pharmacy student and a member of the Rouge et Or football team, won with his teammates the highest honor in Canadian university football, the Vanier Cup! Rouge et Or defeated the Calgary Dinos 31-26 to capture the Vanier Cup for the ninth time in an abduction match held in Hamilton on November 26, 2016.

### *The 2016 edition of the Journ e de la Recherche (Research Day) was a great success!*

The sixteenth edition of the Journ e de la Recherche contained 70 oral and poster presentations including from all three graduate students and 5 speakers who shared their passion for research with the participants.

Eighteen awards were presented to the deserving presenters at the end-of-day cocktail with the loyal partner of the event, Pfizer Canada.

For more information see the [complete summary of the Research Day 2016](#)



The Research Day winners (photo taken by Jean-Fran ois Rivard)

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### *Outstanding presentations at the Annual Oral Presentation Day*

The Annual oral presentation day for Master's students in advanced pharmacotherapy (cohort 2015-2016) was held on November 25, 2016 at the Gene-H.-Kruger Pavilion. The attendees were presented with 21 remarkable presentations, which did not make the work of the evaluators of the day easy! (Evaluators were Isabelle Laverdi ere, assistant professor, Am elie Poirier, hospital pharmacist at the CHU of Qu ebec-Universit e Laval and Julie Fortier, pharmacist, experiential learning staff.)

Congratulations to the following award recipients:

• First prize: Fleur-Ange Denis (CHUL), *Required dose of enoxaparin to achieve heparinemia in the target at the CHUL Soleil-enfant Soleil center* (Genevi eve Laflamme, Marie-H el ene Dub e and Karine Cloutier).

• Second prize: Laurence Allard (Chicoutimi), *The delirium at the intensive care unit of the Chicoutimi hospital* (Catherine Bergeron, Alexandre Lavoie and Pierre Gagnon).

• Third prize - ex-aequo: Magali Laprise-Lachance (L evis), *Risk of pulmonary toxicity of filgrastim in addition to bleomycin* (Pierre Lemieux and Jean-Pierre Gr egoire) and Laurie T. Sylvain (L evis), *Transition to oral anti-emetic therapy: Assessment of nausea-vomiting post-chemotherapy* (Jean-Fran ois Dufour and Chantal Guillemette).

The Faculty would like to thank the partner of the day, Servier Canada. Due to their partnership this day is growing year after year!

### *End of residency for Master's students in advanced pharmacotherapy*

Twenty-one residents completed the Advanced Medication Master's program in mid-December 2016. An end-of-program cocktail was held on December 16, 2016 to celebrate the event, thanks to the involvement of Servier Canada. We would like to thank all pharmacists, professionals and professors who participated in their training. Congratulations to the graduates and good success to all of you for the future! We also wish the residents of the 2016-2017 cohort (who are currently on an integration course in the various healthcare establishments) to be very successful.



*Master in advanced pharmacotherapy program (photo taken by Sara Hébert)*

### *PDW 2017*

A delegation of 28 undergraduate Ph.D. students in pharmacy proudly represented the Faculty at the 2017 Professional Development Week held in Winnipeg, Manitoba from January 4 to 8th. This conference brings together students from Canada's 10 faculties of pharmacy and allows them to attend various conferences, participate in networking events, distinguish themselves in excellence competitions and discover the host city. Laval University has distinguished itself by winning national awards in academic competitions, including at PDW:

- Literary competition - Fourth place: Raphaël Gagnon-Paradis (Phase 3)
- Patient Advice Competition - Non-prescription Drugs - Third Place: Alexandre Bergeron (Phase 3)

- PharmaFacts 2017 - First place: team composed of Florence Paré (Phase 1), Gabrielle Anhoury-Sauvé (Phase 2), Raphaël Gagnon-Paradis (Phase 3) and Audrey Champagne (Phase 4)
- Guy-Genest Award: Anaïs Paré (Phase 4).

Thanks to a program of scholarships funded by the Association Générale des Étudiants en Pharmacie (general association of Pharmacy Students) (AGEP), the CAPSI Local and the Faculty of Pharmacy of Université Laval, participants were able to be reimbursed for part of their expenses. This program allowed the Faculty to send to Winnipeg the third largest delegation in Canada and positioned Faculty students as national leaders. Congratulations to all participants!

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## **UNIVERSITY OF MANITOBA**

### **Individual Faculty News**

Dr. Hope Anderson has been named Acting Associate Dean of Graduate Studies at the University of Manitoba.

Dr. Geoff Tranmer has been named Acting Graduate Studies Chair for the College of Pharmacy.

### **General Faculty News**

#### *2016 International Forum of Pharmacy Students*

Alan Phung and Jessica Truong, both fourth year Pharmacy students, attended and presented at the 2016 International Forum of Pharmacy Students at China Pharmaceutical University in Nanjing, China. This year's

forum focused primarily on the laboratory experience and creative ideas of contemporary students of pharmacy in pharmaceutical science exploration and drug discovery, as well as their strategies for providing pharmaceutical care.

#### *Undergraduate Awards Reception*

On October 20, 2016 undergraduate students were recognized with a unique new event. All student award winners were invited to a reception in their honour to share their achievements in academics, service and research. Faculty, donors and members of the Pharmacy community were able to mingle with these award winners, providing networking opportunities.

### *Influenza clinics at U of M and U of W*

The College of Pharmacy has taken a leading role in the fight against the flu! With the Office of Interprofessional Collaboration, Pharmacy students provided vaccines to staff, students and the public in October and November 2016. Along with Medicine and Nursing students, Pharmacy students and staff facilitated a two-day clinic at the University of Winnipeg, immunizing approximately 500 people. Clinics were also held at the University of Manitoba campus, providing an excellent service. Our students performed very professionally and feedback was incredibly positive.

### *Manitoba's Next Top Pharmacist pageant*

On November 5, 2016 the College of Pharmacy hosted its fifth annual Manitoba's Next Top Pharmacist pageant (formerly "Mr. Pharmacy"). This event, organized by pharmacy students, was in support of the University of Manitoba Campus Food Bank and collected donations for students in need. Taylor McVannel, fourth year student, was victorious and named Manitoba's Next Top Pharmacist.

### *Graduate Studies Awards Reception*

The Graduate Studies Awards Reception was held on December 7, 2016 and has become a staple in celebrating research excellence at the College of Pharmacy. The 2016 Leslie F. Bugey Endowed Professor, Dr. Hope Anderson, gave an address that detailed how this award has helped her research in cardiovascular disease. Mr. Yuhua Fang was awarded the Leslie F. Bugey Graduate Scholarship in Pharmacy and Ms. Amani Hamad was presented with the CPhM/William G. Eamer Graduate Scholarship in Pharmacy. Both award winners wowed the audience by presenting a "3 minute thesis" on their research projects. Yuhua's work is on the Photochemical Synthesis of Drug Candidates in Flow and Amani is researching prenatal and early childhood antibiotics exposure. Dr. Emmanuel Ho was named the 2016-2017 Leslie F. Bugey Endowed Professor, an honour

presented to him by Dr. JoAnne Bugey, creator of this prestigious award.



*Photos:*  
(Top) Mr. William Eamer, valued donor (left) and Ms. Susan Lessard-Friesen, registrar of the College of Pharmacists of Manitoba (right) with Michael Szelemej and Karyn Wiebe, winners of the William G. Eamer/CPhM Scholarships.

(Bottom) Dr. JoAnne Bugey and Dr. Emmanuel Ho at the Graduate Studies Award Reception

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### *PDW 2017*

January was chilly, but it didn't stop Professional Development Week 2017 from being a success. Hosted in Winnipeg from January 4-7, the conference had attendees from across Canada. This year's theme – 'Beyond Boundaries' – was chosen to reflect the ever changing nature of the pharmacy profession, from specializing in disease states, to providing private care in homes, to working on interprofessional teams.

As well, the CAPSI executive elections and annual general meeting took place during the conference. Students participated in a mini-Folklorama, showcasing different cultures from around the world, a "Roaring 20's" themed Canada's Next Top Pharmacist competition, CAPSI contests and guest speakers highlighting the diversity required of pharmacy practice. The student organizing committee worked tirelessly to prepare a fun, educational and balanced agenda.

# UNIVERSITÉ de MONTRÉAL

## General Faculty News

### *The Faculty Welcomes a New Assistant Professor*

We are proud to announce that Dr. Davide Brambilla was hired recently as an assistant professor in pharmaceutical nanoformulation. He will be in charge of creating a dynamic research program in this specialty. He will also be involved in toxicology, pharmaceutical formulation, biopharmacy or pharmacokinetics courses in undergraduate and postgraduate programs.

Dr. Brambilla is the group leader in the laboratory of JC Leroux at ETH Zurich, Switzerland, who specializes, among other things, in microneedle design and engineering for diagnostic and therapeutic purposes as well as design of advanced nanomedicine to overcome biological barriers. Mr. Brambilla has a PhD from Université de Paris for which he received a “Très honorable” mention.

### *An Opportunity to Share Knowledge*

In January 2017, the first Pharmacollogue event was held. The intent is to promote academic programs in the biopharmaceutical and pharmacological sciences by bringing together researchers in the field to engage in discussion with young scientists. A collaboration between l'Université de Montréal, l'Université de Sherbrooke and McGill University, the event was

organized by a group of students from the three universities.

During the session, attendees had the opportunity to explore multiple aspects of the process of drug discovery and development that range from fundamental research to market access. Several guest speakers shared their expertise and knowledge regarding industrial, clinical, academic and commercial topics. Students were invited to participate in various discussions, interactive presentations, and problem solving scenarios with the lecturers. The main goal was to facilitate networking between students and researchers to create connections and expand collaborations.

### *Conference on the Future of Pharmacy*

In November 2016, students at the Faculty organized the 6<sup>th</sup> annual conference on the Future of Pharmacy under the theme “New Horizons”. Each year, members of the *Comité des étudiants engagés face la pratique de la pharmacie de l'Université de Montréal (CÉPPUM)* are proud to create an event in which they can deliberate about the future environment of their soon-to-be profession. Among the topics that were discussed were vaccination by pharmacists, the evolution of the remuneration model, and the use of new technology in diverse contexts of practice.

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## Recent Publications

Two professors of the Faculty of Pharmacy have published reference books in recent months. First, Louise Mallet, Clinical Professor, (co-authored with Allen R. Huang of the University of Ottawa), has published *«Medication Related Falls in Older People: Causative Factors and Management Strategies»*. This book reviews the body of scientific knowledge about falls related to medication use among seniors to determine the best strategies to reduce risk.

Also, Johanne Collin, a sociologist and historian, full professor at the Faculty of Pharmacy, co-directed with Pierre-Marie David, sociologist and pharmacist, lecturer and associate researcher at the MÉOS Group, the book *«Towards a Pharmaceuticalization of Society?»* The book presents the social effects of drugs from the perspective and the displacement along three axis: between normal and pathological, between social inclusion and exclusion, and between nature and culture.

## Research grants: Congratulations to our Professors

John Stagg received a \$1,162,040 grant over a five-year period for his project “Targeting the CD73-adenosine pathway in cancer” (project component) from the Canadian Institutes of Health Research.

At the last Canadian Foundation for Innovation competition, Lucie Blais received a \$302,660 grant from the John Evans Leaders Fund for the project “Electronic Tools for Prescribing and the Optimal Use of Drugs”.

A grant of \$149,700 for 1 year was awarded to Yola Moride by the CIHR Drug Safety and Effectiveness Network for the project “Options to support appropriate prescribing”.

The Cancer Research Society awarded a \$120,000 grant over a two year period to Marc Servant for the project entitled “Role of the Deubiquitinating Enzyme USP17 in Colorectal Cancer”.

## Awards

### *Award of Excellence in Cardiovascular Research*

During the Coeur Québec event organized by the Heart and Stroke Foundation on October 13, 2016, two of our researchers had their work recognized and rewarded.

Dr. Céline Fiset, Vice-Dean of Graduate Studies and Research, was awarded the Jean Coutu Group (PJC) Cardiovascular Research Award for her cardiac arrhythmia project.

Dr. Marc Servant, Full Professor, received the RBC Royal Bank Award of Excellence rewarding an emeritus researcher working on cardiovascular research.

### *The Best in Teaching*

Presented at the Convocation, the Excellence in Teaching Awards was presented to professors to recognize their exceptional commitment to the various facets of student education and mentoring. Congratulations to the following 2016 winners!

Award for Excellence in Pharmacological Sciences:

Mr. Marc Servant

Award for Excellence in Pharmaceutical Sciences:

Mr. Grégoire Leclair

André-Archambault Prize in Population Health:

Ms. Yola Moride

Award for Outstanding Contribution to Teaching:

Mr. Réjean Lemay

Alfred-Joseph Laurence Prize in Clinical Sciences:

Ms. Nancy Sheehan

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## UNIVERSITY OF SASKATCHEWAN

### General Faculty News

The following letter was sent to our preceptors on Friday, December 23, 2016 regarding the upcoming PharmD program, and plans to implement a program for current pharmacists to obtain a PharmD degree.

[Read more.](#)

Our nutrition program has received 7 year full accreditation status (2015-2022) for both our academic and practicum components of our program. Congratulations to **Drs. Shawna Berenbaum** and **Carol Henry**, and their team, for all their leadership and dedication throughout the process.

The Pharmacy and Nutrition graduate pictures have been removed from the halls of the Thorvaldson Building. A campus-wide initiative began last year to

### *Dr. Williamson honored at the Gala des Émilie*

In October 2016, the Montreal Sacred Heart Hospital Foundation celebrated its 40<sup>th</sup> anniversary and the 25<sup>th</sup> anniversary of the Gala des Émilie. Over the course of the evening, the Foundation acknowledged the contributions of outstanding individuals who have put a lot of heart into advancing research.

Dr. Williamson, Full Clinical Professor at our Faculty, was amongst the honored recipients. He has contributed to teaching activities at the hospital since the beginning of his career in 1999. He has mentored more than 100 graduate and undergraduate students with great dedication. A video was made to celebrate the journey of each of the winners.

### *Health Professions Award: Daniel Thirion honored*

In October 2016, Dr. Daniel Thirion, a Full-time Clinical Professor at our Faculty and Pharmacist at the McGill University Health Center (MUHC), was awarded the “Innovative Practice Award”, given to “a pharmacist who has developed an original and inspiring practice that has contributed to improving quality Patient care or the organization of work or services”. The jury of eight people underlined the creation of the new antibiotic management program at the MUHC.

These awards highlight the values of teamwork and communication embodied by health professionals, while recent legislation is increasingly promoting the expansion of practices. They reward nurses, doctors and pharmacists whose practices stand out and deserve recognition.

scan the pictures in an effort to preserve them, and we are happy to announce these pictures are now available on the college website. [See the pictures.](#)



**Dr. Susan Whiting** has been named a Fellow of CAHS for her contributions to the promotion of health science. For 40 years, Susan has conducted research on dietary influences on bone health, effectiveness and use of nutrient supplements, the calcium and vitamin D status of Canadians, and food security in Canada and Ethiopia. [Read more.](#)

Welcome to **Dr. Ekaterina (Kate) Dadachova** who joined the University of Saskatchewan as a professor of pharmacy in the College of Pharmacy and Nutrition and as the Fedoruk Centre for Nuclear Innovation Chair in Radiopharmacy. The role of the chair is a key element of the recently established Saskatchewan Program for Nuclear Imaging to apply nuclear imaging to life sciences in humans, animals and plants. [Read more.](#)



### Awards

Congratulations to **Dr. Yvonne Shevchuk**, and her colleagues, on being awarded the 2016 Provost's Prize for Innovative Practice in Collaborative Teaching and Learning. [Read more.](#)



Congratulations to **Dr. Jane Alcorn** who received the Distinguished Graduate Supervisor Award at the Fall Convocation Ceremony on Saturday, October 22, 2016. The award honours those faculty members who excel in the supervision of graduate students.

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**Dr. Kerry Mansell** received his Master of Business Administration at the Fall Convocation Ceremony on Saturday, October 22, 2016.

**Dr. Pawel Grochulski** was reappointed Adjunct Professor in the College of Pharmacy and Nutrition for a five year term that will expire on June 30, 2021. Dr. Grochulski is a Staff Scientist at the Canadian Light Source.

Congratulations to **Dr. Jaris Swidrovich** on being elected as a member-at-large on the University Council. Jaris was elected to one of two positions for which eight faculty members from across campus were nominated.

### Grants

**Hassan Vatanparast** is part of a \$1.5 million 38-month project funded by the Public Health Agency of Canada entitled: "Achieving Healthier Weights in Canada's Communities". This is the third phase of the Healthy Start/Départ Santé project led by the Réseau Santé en Français de la Saskatchewan.

**Jonathan Dimmock** received a 3-year \$270,000 grant from the Maunders McNeil Foundation for the project entitled "Creation of tumour-selective compounds".

**Charity Evans** is the principal investigator on a 1-year \$40,000 Hermès Canada-MS Society Wellness Research Innovation Grant for the project "Determining the Impact of a Pilates Program in Multiple Sclerosis".

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### Alumni News

On Wednesday, September 28, 2016, **Frank (BSP 1959, MSc 1962)** and **Phyllis Abbott** met with **Dean Kishor Wasan** in Vancouver to sign the paperwork for the Frank and Phyllis Abbott Legacy Fund at the College of Pharmacy and Nutrition. The fund will support the college's priority areas, as determined by the Dean. [Read more.](#)

**Victor Bartle (BSP 1963)** bequeathed a generous \$250,000 gift in his estate to the college. According to his will, Bartle's gift is to be used at the discretion of the Dean of the College of Pharmacy and Nutrition. The gift will be reserved for future pharmacy practice and research activities in the college. [Read more.](#)

## Staff News

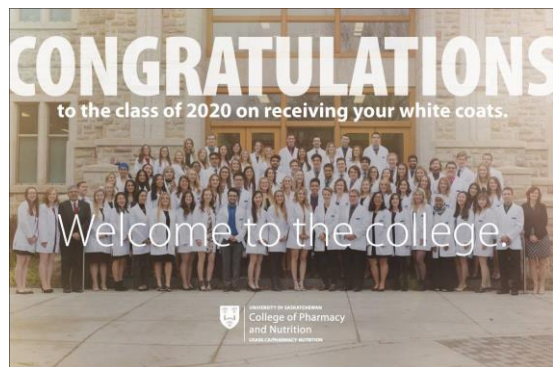
The College welcomed the following staff to their new roles:

- **Michelle Betker**, Finance Officer, on Monday, October 3, 2016.

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## Student News

### *Class of 2020 White Coat Ceremony*



Congratulations to all of our first year pharmacy students on receiving their white coats at a ceremony on Sunday, October 23, 2016. Thank you to Master of Ceremonies **Dr. Yvonne Shevchuk**, as well as **Dr. Patricia McDougall** for providing greetings from the University, the Honourable **Paul Merriman** for providing greetings from the Government of Saskatchewan, and the following people who acted as dressers for the students:

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- **Audrey Boensch**, Clerical Assistant, Administrative and Program Support, on Tuesday, November 1, 2016.

- **Justin Kosar**, President-elect, Saskatchewan College of Pharmacy Professionals
- **Julia Bareham**, Chair, Pharmacy Association of Saskatchewan
- **Dr. Kishor Wasan**, Professor and Dean, College of Pharmacy and Nutrition
- **Suzanne Len**, President, Canadian Society of Hospital Pharmacists (SK Branch)
- **Katherine DeMong**, Co-President, SPNSS
- **Steven Kary**, Senior Stick, SPNSS
- **Kaitlyn Tress**, CAPSI representative
- **Dr. A.J Rémillard**, Canadian Pharmacists Association representative
- **Dr. Melanie McLeod**, Keynote Speaker
- **Lori Postnikoff**, Saskatchewan College of Pharmacy Professionals

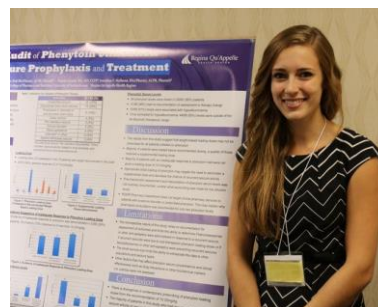
With 75 delegates at the 2017 CAPSI Professional Development week, the University of Saskatchewan had an impressive showing at the national conference. Congratulations to all those who proudly represented the U of S! [Read more.](#)



On Wednesday, January 25, our first year pharmacy and nutrition students held their Pledges of Professionalism Ceremony in the Health Sciences Building. Each year the first year students write these pledges, which are posted in the hallway near the Thorvaldson main office.

Congratulations to **Shelby Pflanzner** on winning a poster award at the CSHP Saskatchewan Branch AGM & Educational Sessions for her poster "An Audit of

Phenytoin Utilization for Seizure Prophylaxis and Treatment."



Congratulations to **Karissa Weber**, **Annika Kolar**, and **Delaney Long** for spearheading a fundraising drive that raised an extra \$7,672 for the Nutrition Cornerstone Fund. [Read more.](#)

On **Friday, November 25**, Saskatchewan Pharmacy & Nutrition Student Society held its annual **Winter Formal** at TCU Place. They raised approximately \$1,400 for The Lighthouse Supported Living Inc. [See the pictures.](#)

## In the Media

The University of Saskatchewan issued a news release on Friday, September 30, about the research **Dr. Ed Krol** and his colleagues are conducting on caffeine and Parkinson's disease. [Read more.](#)

**Dr. Charity Evans** was featured in a Saskatoon StarPhoenix article on Friday, November 11, about her

research on the effect of Pilates in multiple sclerosis. [Read more.](#)

**Dr. Gordon Zello** spoke with SaskatoonHomepage about tips for eating over the Thanksgiving weekend. [Read more.](#)

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## Recent Publications

- Alaverdashvili M, **Paterson PG**. Mapping the dynamics of cortical neuroplasticity of skilled motor learning using micro X-ray fluorescence and histofluorescence imaging of zinc in the rat. *Behav Brain Res.* 2017;318: 52-60.
- Alharbi HA, **Alcorn J**, \*Al-Mousa A, Giesy JP, Wiseman SB (2016). Toxicokinetics and toxicodynamics of chlorpyrifos is altered in embryos of Japanese medaka exposed to oil sands process-affected water: Evidence for inhibition of P-glycoprotein. *Journal of Applied Toxicology*, article in press.
- **Blackburn DF**, Tran D, **Quiring C**. Evaluation of a refill synchronization program in two community pharmacies. *Journal of the American Pharmacists Association* 2016; 56 (6): 656 - 659.
- **Blackburn DF**, **Evans CD**, Eurich DT, **Mansell KD**, **Jorgenson DJ**, **Taylor JG**, **Semchuk WM**, **Shevchuk YM**, **Remillard AJ**, Tran DA, Champagne AP. Community Pharmacists Assisting in Total Cardiovascular Health (CPATCH): A Cluster-Randomized, Controlled Trial Testing a Focused Adherence Strategy Involving Community Pharmacies. *Pharmacotherapy* 2016; 36 (10):1055 - 1064.
- Elmoselhi H, **Mansell H**, Soliman M, Shoker A. Circulating chemokine ligand levels before and after successful kidney transplantation. *Journal of Inflammation (United Kingdom)* 2016; 13 (1): 1 - 9.
- Hager N, **Bolt J**, Albers L, Wojcik W, Duffy P, **Semchuk W**. (2016) Development of a Left Atrial Thrombus after Co-administration of Dabigatran Etextilate and Phenytoin: A Case Report. *Canadian Journal of Cardiology*. In press.
- Jones J, Rosaasen N, **Taylor J**, Mainra R, Shoker A, **Blackburn D**, Wilson J, **Mansell H**. Health Literacy, Knowledge, and Patient Satisfaction Before Kidney Transplantation. *Transplantation Proceedings* 2016; 48 (8): 2608 - 2614.
- Kucey M, **Bolt J**, Albers L, Bell A, Iroh N, Toppings J. Prescribing of Direct Oral Anticoagulants in Atrial Fibrillation Based on Estimation of Renal Function Using Standard and Modified Cockcroft-Gault Equations: A Retrospective Analysis. *Can J Hosp Pharm.* Sep-Oct 2016;69(5):409-414.
- Mesfin A, **Henry C**, Girma M, **Whiting SJ**. Use of pulse crops in complementary feeding of 6-23-month-old infants and young children in Taba Kebele, Damot Gale District, Southern Ethiopia. *Journal of Public Health in Africa* 2016; 6 (1), art. no. 357, pp. 1 - 6.
- Penm J, MacKinnon NJ, **Jorgenson D**, Ying J, Smith J. Need for Formal Specialization in Pharmacy in Canada: A Survey of Hospital Pharmacists. *Can J Hosp Pharm.* Sep-Oct 2016;69(5):356-366.
- Roy C, Gray C, Ruda L, Bell A, **Bolt J**. High-Dose, Extended-Interval Gentamicin and Tobramycin for Pediatric Inpatients: A Survey of Canadian Hospital Pharmacists. *Can J Hosp Pharm.* Sep-Oct 2016;69(5):367-375.
- Tangedal K, Semchuk W, **Bolt J**. How Should Canadian Pharmacy Departments Utilize Idarucizumab? *Can J Hosp Pharm.* Sep-Oct 2016;69(5):429-430.

**In Memoriam**



Professor **J. Graham Nairn** passed away on January 15, 2017.

After graduating from the Pharmacy program at the University of Toronto (Class of 5T2), Graham joined the Faculty in 1958 and became full professor in 1973, a rank he held until his retirement in 1994. Throughout his career, Graham was a mentor to numerous undergraduate and graduate students in a variety of courses including Pharmaceutical Calculations and Arithmetic, Physical Pharmacy, Pharmaceutical Preparations, Pharmaceutics, and Parenteral Dosage Forms and Sterile Products. Although he formally retired from the Faculty in 1994, Graham continued to serve as the Coordinator of the Faculty's Industrial Residency Program until 2014.

In addition to his role as an educator, Graham was an accomplished scholar and researcher, presenting and publishing numerous scientific and professional papers during his career, as well as serving as a reviewer of grants, book and papers, and successfully acquiring significant grant funding to support his research activities.

Beyond the classroom and laboratory, Graham served as a member of almost all of the Faculty's Committees, was a long-time Faculty Advisor to the Undergraduate Pharmacy Society, and served as Treasurer of the Pharmacy Alumni Association for over 20 years. He continued to support the Office of Advancement and Alumni Relations in his retirement as a frequent speaker and tour guide at a multitude of alumni events. Within the University community, Graham served as a member of the Council of Arts and Sciences, the University Senate and the Council of the University of Toronto Faculty Association.

A dedicated member of the pharmacy community, Graham served in executive capacities with the Association of Faculties of Pharmacy of Canada, the Canadian Pharmaceutical Association, the Canadian Society of Hospital Pharmacists, the Ontario College of Pharmacists, the Pharmacy Examining Board of Canada and the Canadian Hospital Pharmacy Residency Board.

Graham's passion for the Faculty of Pharmacy and the profession was shared by his family. His wife Kathleen was also a member of the Pharmacy Class of 5T2 and served as a Teaching Assistant at the Faculty for a number of years. Graham's daughter Dawn was an Assistant Professor at the Faculty and taught in both the BScPhm and PharmD programs and his daughter Debra was a Faculty Member and Professional Practice Coordinator for many years. Graham and Kathleen had two other children, Diane, who pursued a career in finance, and David, an engineering professor at the University of Waterloo, as well as 10 grandchildren.

Graham was a wonderful colleague, mentor and friend to countless students, faculty, staff and alumni. His contributions to both the Faculty and the profession have been tremendous. He touched the lives of so many and he will be deeply missed.

### In Memoriam



**Helen Walton** passed away on January 26, 2017. Helen joined the staff of the Ontario College of Pharmacy (affiliated with the University of Toronto) in 1941 as the secretary to the academic staff as well as librarian of the College. In July 1953, when the College became the Faculty of Pharmacy, she joined the University as secretary to the Dean. In July 1973, she was named the Faculty Secretary, performing a role more focused on student admissions. Helen was an advisor and confidant to many generations of pharmacy students, staff, and faculty members. Helen retired from the Faculty of Pharmacy in 1985.

### Appointments, Retirements and Leaves

After 27 years working at the Leslie Dan Faculty of Pharmacy, Rose Damian retired from the Faculty in November 2016. To celebrate Rose's career and achievements, faculty and staff convened for an appreciation event that featured speeches from many of Rose's colleagues and an opportunity to reminisce about Rose's many contributions to the success of the Faculty. Congratulations on your retirement, Rose – you will be missed.



The Faculty's Advancement and Alumni Relations team welcomed Nadia Gibbons in January in the role of Coordinator, Advancement and Alumni Relations. In this role, Nadia will leverage her experience in fundraising and government to provide high-level administrative support related to Advancement and Alumni Relations, events, and stewardship.

James Lu will be retiring from the Faculty after 22 years of service with the University of Toronto. Throughout

his career, James has been instrumental in supporting the Faculty's network and functioning as the Faculty's sole systems administrator. A retirement party will be scheduled for James in the spring.



In February, the Faculty bid adieu to Assistant Dean, Advancement David White and Senior Development Officer, Alumni and Leadership Giving Erika Rueter, who left after achieving success in Boundless Innovation: The Campaign for the Leslie Dan Faculty of Pharmacy. David accepted the role of Chief Development Officer at the Aga Khan Museum, while Erika joined Upper Canada College as their Senior Manager of Major Gifts. Congratulations David and Erika on these exciting new opportunities.

In December 2016, the Canada Research Chairs Program announced the appointment of assistant professors Robert Bonin, Elise Paradis, and Keith Pardee as Canada Research Chairs.

## Faculty News

Dr. Robert Bonin is the new Canada Research Chair in Sensory Plasticity and Reconsolidation. Dr. Bonin's research is directed at understanding one of the most debilitating conditions faced by millions of Canadians every day – chronic pain. Focusing on understanding how sensory information is processed in the spinal cord – particularly how the connections between nerve cells in the spinal cord allow information to be passed between cells – Dr. Bonin is investigating how changes in this processing lead to chronic pain. To do this, he explores how the ability of cellular connections to change strength, called 'plasticity,' can be both a cause of and cure for chronic pain. His research capitalizes on the fact that spinal cord plasticity shares many properties with the storage of memories in the brain. Dr. Bonin has discovered a means of reversing the increased strength of connections in the spinal cord to reverse increased pain sensation – a process that resembles how memories can fade over time.

Dr. Elise Paradis is the new Canada Research Chair in Collaborative Healthcare Practice. Dr. Paradis' research focuses on investigating the origins and effects of collaboration in the healthcare system, conceptualizing collaboration of as an object of study rather than a goal to reach, and challenging individualistic and interactionist models of professional practice through a focus on structure, socialization, and organizational culture. By turning collaboration into an object of study

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On Wednesday, January 11th, 2017 the Faculty hosted the annual Induction to the Professional Community of Pharmacy Ceremony. One of the Faculty's signature events, the Induction Ceremony (or White Coat Ceremony as it is often referred to) brings together members of the pharmacy community to welcome the Class of 2T0 to the profession. The speakers at this year's ceremony included emcee and Director of the PharmD program, Dr. Sandra Bjelajac-Mejia, Dean Heather Boon, Associate Professor Scott Walker (representing the TAHSN hospitals), Chair of the Ontario Pharmacists Association Board of Directors Sean Simpson, Undergraduate Pharmacy Society President Faraz Razzagh, and Registrar and CEO of the Ontario College of Pharmacists Nancy Lum-Wilson. Assistant Dean, Advancement and Alumni Relations, David White also presented alumnus David Windross with the Faculty's inaugural honorary white coat for his tireless work for the profession, the Faculty, and pharmacy students across Canada. Anne Resnick from the Ontario College of Pharmacists led the reading of the Ontario College of Pharmacists Code of Ethics, and students recited the Faculty's Pledge of Professionalism.

– instead of an ideal to be achieved – Dr. Paradis will attempt to answer questions about the rise of collaboration, its actual practice, and the future of healthcare delivery and education for collaboration. She will examine what happens when the commonsense idea of collaborative practice is confronted by the structural and cultural realities of healthcare delivery, and the difficulties that emerge when the collaborative ideal is put into practice. Ultimately, Dr. Paradis will challenge the overwhelming belief in the power of collaboration to cure an ailing healthcare system.

Dr. Keith Pardee is the new Canada Research Chair in Synthetic Biology and Human Health. Dr. Pardee's research focuses on the potential of moving synthetic biology outside of the cell. Rather than using cells to host engineered genetic programs, he is developing pioneering cell-free engineered gene circuits by creating programmable materials with the transcription and translation properties of a cell. Dr. Pardee's research program combines synthetic biology – which involves the design and construction of devices based on biological parts – with molecular engineering to build sterile and abiotic biomolecular devices that harness the vast potential of cell-free synthetic gene networks. This interdisciplinary approach has led to the development of groundbreaking hardware-enhanced programmable biosensors, as well as a promising portable molecular manufacturing platform.

After the event, the Class of 2T0, presenters, and guests mingled at a reception held in the Apotex Atrium.



The WHO Collaborating Centre for Governance, Accountability and Transparency for the Pharmaceutical Sector co-hosted *Combating Corruption in Health Care and Pharmaceuticals* this fall with Carleton University, the Munk School of Global Affairs, and the University of Sainte Anne. Bringing together experts in public health, corporate governance, health care, philosophy, business ethics, health policy, and corruption from across the globe, the symposium explored the prevalence of corruption in the pharmaceutical sector, and the various opportunities and strategies that exist to excise it.

## **Awards and Recognition**

Drs. Rob Bonin and Shirley X.Y. Wu are two of nine U of T researchers to receive Connaught Innovation Awards in 2017. “Automated behavioural platform for rapid in vivo pharmaceutical testing” will allow Dr. Bonin to accelerate the development of this technology into a high-capacity behavioural testing array for the evaluation of new pharmaceutical drugs and formulations. Dr. Wu’s project to develop “Intelligent nanoparticle theranostics for CNS diseases,” will see the Advanced Pharmaceuticals and Drug Delivery Laboratory develop new nanoparticle formulations for detecting early onset of Alzheimer’s disease by non-invasive imaging and intervening disease progression at early stage using a leading-edge nanotechnology that is able to deliver a variety of therapeutic and imaging agents across the blood-brain barrier.

A team comprising of Assistant Professor John Papastergiou (lead), Lecturer Peter Tolios, community pharmacist Wilson Li, and PharmD student Jia Jane Li, received the Commitment to Care & Service Award for Overall Patient Care. This award recognizes their efforts in exploring how implementing personalized medicine in community practice settings can impact medication management.

Adjunct Lecturer Suzanne Singh was recently named on the Honour Roll for the Minister’s Medal Honouring Excellence in Health Quality and Safety. Dr. Singh was recognized by the Ontario Ministry of Health and Long-Term Care at the annual Health Quality Transformation conference. The Minister’s Medal is a competitive annual program designed to recognize healthcare providers from Ontario that place the patient at the

centre of the circle of care, have demonstrated exceptional work in collaboration, and achieved sustainable results. Dr. Singh was nominated for and selected as an Honour Roll recipient for her work as a pharmacist integrated within a dynamic primary care team at the Mount Sinai Academic Family Health Team.

Clinician Scientist and Assistant Professor Lisa Burry attended the first Canadian Critical Care Trials Group Young Investigator Retreat in Gravenhurst, Ontario earlier this fall. Organized to recognize the importance of developing Canada’s next generation of critical care researchers, the CCCTG Young Investigator Retreat guides participants in the design, implementation, and analysis of high-quality clinical studies, effective grant writing, and academic career management. Modeled after a famous series of retreats responsible for grooming major researchers, being invited to participate in the CCCTG Young Investigators Retreat is a great honour for an emerging researcher.

Assistant Professor Keith Pardee is part of an international, multidisciplinary team of researchers to be recognized with a ‘Best of What’s New’ award for their development of a rapid, paper-based Zika test earlier this year. Each year, Popular Science honours 100 products that are brilliant, revolutionary and bound to shape the future through the presentation of their ‘Best of What’s New.’ Dr. Pardee was part of a multi-institutional team led by Professor James Collins of Harvard University’s Wyss Institute for Biologically Inspired Engineering that leveraged synthetic biology to develop a low-cost, easy-to-use test capable of diagnosing the Zika virus in patient samples within a few hours.

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## **Grants**

Assistant Professors Sara Guilcher, Lisa McCarthy, and Olavo Fernandes are co-Principal Investigators of a research study supported by the Canadian Foundation for Pharmacy (CFP) Innovation Fund Grant to explore the role that pharmacists can play in transitions in care and develop solutions to include pharmacists in conversations involving patients during care transitions. This funding adds to existing support from the Canadian Society of Hospital Pharmacists Research and Education Foundation. Other team members include: Assistant Professors Philip Lui, John Papastergiou, and Gary Wong, Lecturer John Farrell, Adjunct Lecturer Karen Cameron from the Faculty, and Pauline Pariser, Primary Care Clinical Lead of the Mid-West Sub-LHIN region.

CFP also awarded an Innovation Fund Grant to a project titled “Mobilizing Community Pharmacists as Catalysts for Deprescribing.” Led by Dr. Barbara Farrell of the Bruyère Institute in Ottawa, the team of investigators for this project includes Dr. Lisa Dolovich, Dr. Lisa McCarthy, and Dr. Lalitha Raman-Wilms.

JDRF awarded funding for Professor Shirley X.Y. Wu of the Faculty and Professor Adria Giacca of the Department of Physiology at the Faculty of Medicine on a two-year project to develop a first-of-its-kind disposable, microneedle patch that will automatically sense when blood glucose levels are too low and deliver glucagon, or other regulatory hormones, in real time to prevent hypoglycemic events.

Three researchers from the Ontario Pharmacy Evidence Network (OPEN) – Assistant Professor and Clinician Scientist Lisa McCarthy, Ontario College of Pharmacists (OCP) Professor in Pharmacy Practice Lisa Dolovich, and OCP Professor in Pharmacy Innovation Nancy Waite from the University of Waterloo – are the recipients of a CIHR grant. “Incorporating Quality Improvement into Community Pharmacy to Improve Drug Prescribing, Use and Health Outcomes for Older Adults” will see OPEN bring together researchers, stakeholders (including patients), and knowledge users for a one-day meeting to discuss implementing and embedding quality improvement practices in community pharmacy settings.

### **Publications**

Associate Professor Stephane Angers and PhD student Zachary Steinhart, along with Drs. Jason Moffat and Sachdev Sidhu from the Donnelly Centre for Cellular and Biomolecular Research, the Department of Molecular Genetics, and the Centre for the Commercialization of Antibodies and Biologics, developed a process to dramatically cut the time taken to create new cancer treatments. Their study, published in *Nature Medicine*, identified a new potential target to treat a class of pancreatic cancer - a treatment option that exploits genetic faults to destroy cancer cells.

A breakthrough by Professor Shana Kelley’s research group was published in *Nature Nanotechnology*. The group has provided a new tool to characterize

Circulating Tumour Cells that may help cancer biologists and clinicians understand how to use these cells to provide better treatment.

Clinician Scientist and Assistant Professor Lisa McCarthy recently published “Medication reconciliation interventions in ambulatory care: a scoping review” in the *American Journal of Health-System Pharmacy*. Along with Clinician Educator and Assistant Professor Natalie Crown, Associate Professor Thomas Brown, and former PharmD student Jessica John, Dr. McCarthy conducted a comprehensive literature review of medication reconciliation studies to review interventions tried and outcomes impacted, and factors facilitating medication reconciliation in ambulatory care settings.

A recent study published in *The Canadian Journal of Psychiatry* revealed that children in Canada are now being prescribed more psychotropic medications – specifically antidepressants and antipsychotics – than ever before. Assistant Professor Mina Tadrous was lead author on this study, which also included Professor Muhammad Mamdani, Assistant Professor Tara Gomes, and Assistant Professor Sandra Knowles. This work was done by the Ontario Drug Policy Research Network.

Assistant Professor Elise Paradis and collaborator Gary Sutkin of the University of Pittsburgh Medical Center recently published “Beyond a good story: from Hawthorne Effect to reactivity in health professions education research” in *Medical Education*.

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Professor Anna Taddio and a team of pediatricians and researchers from the Hospital for Sick Children, University of Toronto, and York University published a paper in *CMAJ* comparing the effectiveness of pain interventions administered during vaccine injections during the first year of life.

Recent MSc graduate Dane Bergstrom from Professor Raymond Reilly’s laboratory had his thesis research highlighted on the cover of *Nuclear Medicine and Biology*, a leading journal in the field of radiopharmaceutical science.

Professor Jillian Clare Kohler, along with Associate Professor Taryn Vian from the Boston University School of Public Health, authored a recent policy paper commissioned by the WHO. “Medicines Transparency Alliance (MeTA): Pathways to Transparency, Accountability and Access” examines the Medicines Transparency Alliance initiative implemented in Ghana,

Jordan, Kyrgyzstan, Peru, the Philippines, Uganda, and Zambia from 2008 to 2015. The aim of this international initiative was to bring together key stakeholders in the pharmaceutical sector to improve access to medicines and decision-making by increasing transparency and accountability in these countries.

Assistant Professor Rob Bonin is part of a multi-institutional, interdisciplinary team that identified the cellular basis of opioid withdrawal and targeted this processes with an existing anti-gout drug to alleviate withdrawal in opioid-dependent rodents. The results of this study appeared in the prestigious journal *Nature Medicine*.

Professor Murray Krahn of the Faculty and the Toronto Health Economics and Technology Assessment Collaborative (THETA) is a co-author on several chapters of the recently-published *Cost-Effectiveness in Health and Medicine, Second Edition*.

## Student News

This February, pharmacy technician students from Lambton College visited the Faculty. As part of this field trip to complete their last scholastic assignment, they were joined by pharmacy students in an interprofessional event designed by Lecturer Della Croteau, the Faculty's Interprofessional Education Coordinator, Connie Beck, Lambton College's Coordinator and Professor, Pharmacy Programs, and Associate Professor David Dubins. This fun event delved into case studies involving challenges in pharmaceutical practice. Students shared insights between professions, discussed ethics, error remediation, and roles overlap. The interprofessional experience didn't stop there – instructors shared teaching strategies regarding program structure, student engagement, and even swapped compounding recipes. The event was so much fun that the coordinators are talking about repeating it next year and exploring how it might fit into the Pharmacy curriculum permanently.

In the Fall of 2016, the Faculty celebrated the accomplishments of students in the PharmD program at the annual Undergraduate Student Awards Ceremony. A total of 70 awards were presented to 83 outstanding students at the event held at the Faculty Club. Congratulations to all of the amazing PharmD students who received awards at this special event.

The Graduate Department of Pharmaceutical Sciences hosted its annual Graduate Student Awards Ceremony and Convocation Celebration at Victoria College's historic Alumni Hall. This event showcased the accomplishments of students in the Faculty's PhD and MSc programs, recognizing 44 graduate students with a total of 25 internal and external awards. This event also recognized the 12 PhD students and 9 MSc students who completed their academic programs between June and November. Congratulations to all the award winners and graduates.

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## UNIVERSITY OF WATERLOO

### School News

#### *Opioid Crisis and Naloxone Awareness*

Professors Michael Beazely and Kelly Grindrod have given presentations in Waterloo and Toronto educating the public and key stakeholders about opioids and naloxone. Both were speakers at the Waterloo Pharmacy's public lecture, *The Opioid Crisis: a local perspective on an international epidemic*, and Dr. Grindrod has run naloxone-training workshops for healthcare providers.

#### *First ever Waterloo Pharmacy Reunion*

2016 was the fifth year since Waterloo Pharmacy graduated its first cohort. To celebrate we hosted our first reunion, an event which drew graduates from across the country. Reunion featured a continuing education session which covered current topics in pharmacy practice like the Zika virus and pharmacists as immunizers.



Photo: students at Reunion

#### *TransEd developed and launched*

Elaine Lillie, Director of Interprofessional Education and Curriculum Development, partnered with McMaster University's School of Medicine to develop and launch TransEd, an interprofessional module which educates healthcare students about transgender patients. Composed of eight sections, the online module is available to healthcare students throughout Ontario. [Visit the module website.](#)

#### *Pharmasave contest winners develop student clinic business plan*

Pharmacy students Denise Keller, Sarah Blythe, Britney Marshall and Vivian Bui won the 2016 Pharmasave Industrial Case Competition. POckit Clinics business has students bring point-of-care kits to pharmacies to deliver student-run clinical services.



Photo: Four Pharmasave award winners

*Students recognized for outstanding dermatology work*  
Pharmacy students Taylor Gelinas and Kristi Butt received the La Roche-Posay Dermatology Contest award. Taylor and Kristi are senior pharmacy students who share a passion for community practice. The award, sponsored by La Roche-Posay, supports students who generate exceptional learning tools in the field of skincare.

### **Appointments**

Dr. Praveen P Nekkar Rao has been appointed to the role of Graduate Officer, responsible for the administrative coordination of the School's MSc and PhD programs.

Debbie Ellen has joined Waterloo Pharmacy as the Experiential Coordinator for the Bridging Program. Debbie brings extensive experience from her time as a pharmacy owner in a family health team and in senior positions in both the insurance and the pharmaceutical advertising industries.

### **Grants and Awards**

Dr. Praveen P Nekkar Rao was awarded an NSERC-Engage grant (\$31,300) which is a collaborative partnership with the pharmaceutical industry to investigate protein misfolding disorders.

Dr. Nancy Waite and Dr. Sherilyn Houle, along with co-investigators, have received an International Research Grant (\$19,555+\$20,000 matching funds from Australia) from the University of Waterloo for "Giving a Shot in the Arm to Global Pharmacists". They have also, with co-investigators, received a Neighbourhood Pharmacy Association of Canada grant (\$79,992) for their project "Economic analysis of pharmacist-administered influenza immunizations".

Dr. Waite and co-investigators have also received a CIHR Planning and Dissemination Grant (\$19,988) for the project "Integrating quality into pharmacy culture to improve medication management, use and outcomes for older adults".

2016 Best Paper award from the Research in Social and Administrative Pharmacy Journal for: Wenger LM, Rosenthal M, Sharpe JP, **Waite N.** Confronting inequities: A scoping review of the literature on pharmacist practice and health-related disparities. *Res Social Adm Pharm.* 2016;12(2):175–217 Impact Factor 1.936. The award was received based on methodological rigour, comprehensiveness and salience of subject matter.

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### **Presentations**

**Beazely M, Grindrod K.** *The opioid crisis: a local perspective on an international epidemic.* University of Waterloo School of Pharmacy Annual Public Lecture, Kitchener, ON. Nov 10 2016.

**Beazely M, Grindrod K.** *Opioid overdose and naloxone.* Ontario Association of Chiefs of Police Conference, Toronto, ON. Nov 30 2016.

**Beazely M, Grindrod K.** *Opioids, overdose and fentanyl.* Waterloo Region Fentanyl Symposium, Kitchener, ON. Dec 16 2016.

**Nakhla N. A refresher on women's reproductive health.** 2016 *Self-Care Symposium: providing*

*pharmacy staff with research-based information on common OTC- and NHP-related issues.* Toronto, ON. Nov 6, 2016.

**Waite N.** Research as a driver for improving practice and health policy: Emerging findings from the Ontario Pharmacy Research Collaboration (OPEN), Social and Administrative Pharmacy Education Conference, Montreal, QC. Oct 17, 2016.

**Waite N.** Integrating Co-operative Education and Regional Patient Care Rotations: A Novel Approach to Experiential Learning, Canadian Association for Cooperative Education National Conference, Fredericton, NB. Aug 8, 2016.

## Publications

Hallaji NAE, **Nekkar Rao P**, Graham E. Trope. Preservative content in generic and brand name glaucoma eye drops. *Canadian Journal of Ophthalmology* 2016; 51:492.

Kar SS, Bhat GV, **Nekkar Rao P**, Shenoy VP, Bairy I, Shenoy GG. Rational design and synthesis of novel diphenyl ether derivatives as antitubercular agents. *Drug Design, Development and Therapy* 2016; 2299–2310.

Mohamed T, **Nekkar Rao P**. 2,4-Disubstituted quinazolines as amyloid-beta aggregation inhibitors with dual cholinesterase inhibition and antioxidant properties: Development and structure-activity relationship (SAR) studies. *European Journal of Medicinal Chemistry* 2017; 126:823-843.

Courtney M, Chen X, Chan S, Mohamad T, **Nekkar Rao P**, Ren C. A droplet microfluidic system with on-demand trapping and releasing of droplet for drug screening applications. *Analytical Chemistry* 2017; 89:910–915.

Muslim AA, Ayyash D, Singh SG, Mekhail GM, **Nekkar Rao P**, **Wettig S**. Synthesis and characterization of asymmetrical gemini surfactants.

*Physical Chemistry and Chemical Physics* 2017; 19: 1953–1962.

Armstrong D, **Nakhla N**. Non-prescription proton-pump inhibitors for self-treating frequent heartburn: the role of the Canadian pharmacist. *Pharmacy Practice*. 2016 Oct-Dec;14(4):868. doi:10.18549/PharmPract.2016.04.868. Available online, published October 16, 2016.

**Nakhla N**. Helping new parents manage colic. *Pharmacy Practice Plus*. 2016;3(8):27-28. Available online, published October 21, 2016.

McCarthy L, Milne E, **Waite N**, Cooke M, Cook K, Chang F, Sproule B. Sex and gender-based analysis in pharmacy practice research: A scoping review. *Res Soc Adm Pharm*. Published online: November 19, 2016.

Buchan SA, Rosella L, Finkelstein M, Juurlink D, Isenor J, Marra F, Patel A, Russell M, Quach S, **Waite N**, Kwong J for the Public Health Agency of Canada/Canadian Institutes of Health Research Influenza Research Network (PCIRN) Program Delivery and Evaluation Group. Impact of pharmacist administration of influenza vaccines on uptake in Canada. *CMAJ* August 8, 2016 cmaj.151027.

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