

5th Annual Canadian Pharmacy Education & Research Conference

Showcasing Pharmacy Education and Research in Canada

May 30 - 31, 2014
Full Program



71st Annual General Meeting of the AFPC



ASSOCIATION OF FACULTIES OF PHARMACY OF CANADA | ASSOCIATION DES FACULTÉS DE PHARMACIE DU CANADA



Table of Contents

Welcome from Kerry Mansell, CPERC Conference Chair 2014 Planning Committee	3
Welcome from David Edwards, AFPC President	4
Welcome from David Hill, Dean of the College of Pharmacy and Nutrition, University of Saskatchewan	5
AFPC Executive & Council	6
Conference Program	8
Conference Sessions for May 31, 2014	10
Award Winners	16
Awards Sponsors	24
Hotel Map – Delta Bessborough	25

Welcome from Kerry Mansell, CPERC Conference Chair 2014 Planning Committee



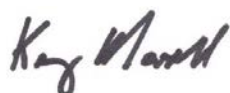
Greetings everyone, and welcome to sunny Saskatoon! We are delighted to host our pharmacy colleagues from across the country and celebrate the 5th Annual CPERC Conference. We are glad to have you here, as we celebrate 100 years of pharmacy in Saskatchewan!

As you are all aware, this year's conference is being held in conjunction with the annual Canadian Pharmacists Association and Pharmacists' Association of Saskatchewan conferences. This gives us an opportunity to further showcase our activities as well as network with a much larger group of our colleagues.

The annual CPERC conference has been condensed into a full one-day conference, with at least 3 different topics relevant to AFPC members interspersed into the larger full conference. The planning committee designed the topics based on two premises: talking about topics that are relevant to AFPC members, and being interactive. The first session kicks off with a short presentation by each of the 10 schools of pharmacy, the second session highlights an innovative program focused on Aboriginal engagement, and the roundtable discussions and innovations showcase are designed to get conference delegates involved and talking! Finally, we hope that our keynote speaker will provide us with pragmatic and useful advice on how to connect better with today's generation of learners.

This year's organizing committee consists of myself, Dr. Patricia Gerber (UBC), Dr. Jeff Taylor (U of S), Dr. Anas El Aneed (U of S), Ms. Heather Dawson (U of S), Dr. Eric Schneider (Waterloo), and Ms. Cynthia Richard (Waterloo). We hope you enjoy the program as much as we have enjoyed putting it together. On behalf of the entire committee, I want to welcome you to our lovely city, and we hope you thoroughly enjoy this year's conference.

Cheers!



Kerry Mansell, BSP, PharmD, CDE
Conference Committee Chair

Welcome from David Edwards, AFPC President



Dear Registrants,

As President of the Association of Faculties of Pharmacy of Canada, it is my pleasure to welcome everyone to the 2014 Canadian Pharmacy Education and Research Conference (CPERC). The theme for this year's meeting is "Showcasing Pharmacy Education and Research in Canada". The organizing committee, chaired by Kerry Mansell, and the AFPC Education Committee, chaired by Dr. Eric Schneider, have done an excellent job in putting together a great program which includes updates on the transition to PharmD across the country and roundtable discussions on a wide range of topics. As always, the conference concludes with our annual Awards Banquet where we recognize excellence in research and education by our students and faculty members. My best wishes to all for a rewarding conference and a wonderful visit to Saskatoon!

A handwritten signature in black ink that reads "David Edwards". The signature is written in a cursive, flowing style.

David J. Edwards, BScPharm, PharmD, MPH
Hallman Director, School of Pharmacy
University of Waterloo

Welcome from David Hill, Dean of the College of Pharmacy and Nutrition, U of S



Dear Registrants,

On behalf of the University of Saskatchewan College of Pharmacy and Nutrition, I extend a warm prairie welcome to the 2014 Canadian Pharmacy Education and Research Conference (CPERC). This is the 5th anniversary of CPERC, the 80th anniversary since the first guest registered at the beautiful, historic Bessborough conference hotel, the 104th anniversary of the Saskatchewan Roughriders (watch for the Grey Cup), and the 100th anniversary of pharmacy at the U of S.

Quoting from the Lonely Planet's introduction of Saskatoon: *'...Sundown in the Paris of the Prairies. Wheat Kings have all their treasures buried...the Tragically Hip summed it up pretty well. Saskatoon, the Paris of the Prairies, is full of hidden treasures. The South Saskatchewan River winds through the lively downtown, enhancing the city's genteel air. Despite the town's legacy as an 1883 settlement by Ontario's Temperance Colonization Society, it knows how to heat up cold winter days and short summer nights.'* This last sentence foretells some of fun the organizing committee has planned for us!

We are delighted to have CPhA, AFPC and PAS with us, as we commemorate the centennial milestone for the College. These respected organizations over the years, have made and continue to make, essential contributions to our professional programs and we thank them. In turn, our U of S pharmacy grads, and grads from sister schools throughout the country, have the opportunity to give back and shape the futures for CPhA, AFPC, PAS and the profession overall.

And so, as our College celebrates its past, embraces the present and looks ahead to the future, we are excited to be the host site for CPERC's theme "Showcasing Pharmacy Education and Research in Canada." This is an exhilarating time in the history of pharmacy and I know all registrants will gain valuable knowledge and insights from our speakers, roundtable discussions and research presentations.

Please enjoy the Conference.

David S. Hill, Ed.D., FCSHP
Professor and Dean
College of Pharmacy and Nutrition
University of Saskatchewan

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2014 AFPC Canadian Pharmacy Education and Research Conference Program
“Showcasing Pharmacy Education and Research in Canada”

Friday, May 30, 2014

Delta Bessborough Hotel, Saskatoon

7:00 – 9:00 pm AFPC Opening Reception
Battleford Room

Saturday, May 31, 2014

Delta Bessborough Hotel, Saskatoon

7:30 - 8:15 am Breakfast
William Pascoe Room

8:15 - 8:30 am Welcome / Opening Remarks (Kerry Mansell and David Hill,
University of Saskatchewan)
William Pascoe Room

8:30 - 9:30 am PharmD: A Cross Country Update (Individual Deans or Faculty
Representatives)
William Pascoe Room

9:30 - 10:30 am Aboriginal Students: Recruitment and Engagement Strategies in
the Pharmacy Curriculum (Speakers: Candace Wasacase-Lafferty,
University of Saskatchewan; Larry Leung, University of British
Columbia; Jason Min, University of British Columbia)
William Pascoe Room

10:30 - 10:45 am Nourishment Break



Conference Program

Saturday, May 31, 2014

Delta Bessborough Hotel, Saskatoon

- | | |
|---------------------|--|
| 10:45 am - 12:15 pm | Roundtable Discussions (topics planned include: Integrating adherence into the curriculum; Modeling professionalism; Minor ailments - curriculum challenges in pharmacists prescribing; Current practices, challenges, and opportunities in graduate education; Program assessment and evaluation; Med Chem, Kinetics, and Pharmaceutics - How much is enough; Experiential education; and PharmD session – debrief)
<i>Battleford Room</i> |
| 12:15 - 1:45 pm | Lunch and AFPC Annual Business / Townhall Meeting (David Edwards)
<i>William Pascoe Room</i> |
| 1:45 - 3:30 pm | Innovations in Pharmacy Education and Research Presentations (Concurrent Sessions)
<i>Terrace Lounge, Salon Batoche, Kelsey/Saskatchewan</i> |
| 3:30 - 3:45 pm | Nourishment Break |
| 3:45 - 4:45 pm | Next Generation of Learners – What to Expect (Speaker: Jade Ballek – Learning Consultant, Saskatchewan)
<i>William Pascoe Room</i> |
| 4:45 - 4:50 pm | Closing Remarks (Kerry Mansell, University of Saskatchewan)
<i>William Pascoe Room</i> |
| 6:30 - 9:30 pm | AFPC Awards Banquet
<i>William Pascoe Room</i> |

Session Title: Aboriginal Students: Recruitment and Engagement Strategies in the Pharmacy Curriculum

Candace Wasacase-Lafferty



Candace is a member of the Kahkewistahaw First Nation and has been working with the University of Saskatchewan since 2001. Her role as the Director for Aboriginal Initiatives oversees the development and coordination of Aboriginal engagement strategies for the University of Saskatchewan. Through the facilitation of internal partnerships with Saskatchewan Aboriginal communities, the goal is to increase the participation of Aboriginal people in all aspects of the University experience. Candace maintains oversight of the Aboriginal Student

Centre and is also Chair of the Wanuskewin Heritage Park Board of Directors.

Larry Leung and Jason Min



Larry Leung



Jason Min

There is a need to increase opportunities for pharmacy students to learn about the delivery of culturally competent pharmaceutical care in Aboriginal health. This presentation by Larry Leung and Jason Min, Lecturers with the Faculty of Pharmaceutical Sciences at the University of British Columbia (UBC), will highlight their innovative and collaborative work in Aboriginal communities, which led to the development of the undergraduate course entitled Pharmaceutical Care in Aboriginal Health. The course includes topics such as residential schooling, cultural competency, current Canadian legislation, Non-Insured Health Benefits, traditional medicines, and application into selected pharmacy health areas of interest. They will share their diverse teaching strategies, which encourages student engagement during class and have proven to be popular based on student feedback. This includes video conferencing with pharmacists working with Aboriginal community members, video vignettes of rural communities and reserves, and experiential educational trips. They will detail their process in developing the course through engagement with the UBC Centre for Excellence in Indigenous Health, the Musqueam Cultural Centre, and the UBC Xwi7xwa Library. Larry and Jason will report on the importance of developing an advisory committee consisting of scholars, Aboriginal community members, and other healthcare professionals for ongoing curriculum development and improvement.

Session Title: Next Generations of Learners – What to Expect

Jade Ballek



Jade has worked with curriculum, assessment, instruction, and technology infusion for over 20 years, having been a classroom teacher, lead technology teacher, Learning Coach and most recently, Learning Consultant with the Sun West School Division in Saskatchewan. She supports the development of online learning at the Distance Learning Centre as well as overseeing various technology infusion initiatives throughout the division. Jade received her Master's

in Education – Educational Technology and Design from the University of Saskatchewan and speaks on a variety of topics related to education.

There is little doubt that the world is changing for our learners. Children and youth are now connected, digital learners. Certainly, this change has impacted the ways in which teaching and learning takes place in schools.

From her perspective as a K-12 educator for over 20 years, as a parent of university-aged children, and from her personal experiences as an online Master's student, Jade will explore the shifting landscape of education by addressing some key questions:

- What are the educational needs of these digital learners?
- How are K-12 schools meeting the needs of these students, and what might be the implications for post-secondary institutions?
- What are some of the unique opportunities available to this generation of students? What might be some of the effects on university and college education?
- Why is change not only important, but necessary?

Rotating Roundtable Discussions – Battleford Room

Table	Topic	Facilitators	Email
1	Integrating adherence into the curriculum	David Blackburn (U Saskatchewan) Mary de Vera (UBC)	d.blackburn@usask.ca mdevera@mail.ubc.ca
2	Modeling professionalism	Patricia Gerber (UBC) Leslie Lavack (U of T)	patricia.gerber@ubc.ca l.lavack@utoronto.ca
3	Minor ailments: curricular challenges in pharmacists prescribing	Jeff Taylor (U Saskatchewan) Kelly Grindrod (U Waterloo)	jeff.taylor@usask.ca kelly.grindrod@uwaterloo.ca
4	Current practices, challenges and opportunities in Graduate Education	Anas El-Aneed (U Saskatchewan) Holly Mansell (U Saskatchewan)	anas.el-aneed@usask.ca holly.mansell@usask.ca
5	Program assessment and evaluation	Robert Renaud (U Manitoba) Cheryl Kristjanson (U Manitoba)	Robert.Renaud@umanitoba.ca Cheryl.Kristjanson@ad.umanitoba.ca
6	Medicinal Chemistry, Pharmaceutics, Kinetics: how much is enough?	Ildiko Badea (U Saskatchewan) Fred Remillard (U Saskatchewan)	ildiko.badea@usask.ca aj.remillard@usask.ca
7	“Experiential Education”	Ann Thompson (U of Alberta) Angie Kim-Sing (UBC)	aethomps@ualberta.ca akimsing@mail.ubc.ca
8	PharmD Programs Across Canada: developments and updates	Christine Davies (U Manitoba) Peter Loewen (UBC)	Christine.Davis@ad.umanitoba.ca peter.loewen@ubc.ca



Innovations in Pharmacy Education and Research Presentations

May 31, 2014

Room 1 – Terrace Lounge

Moderator - Wasem Alsabbagh, University of Saskatchewan

Interprofessional Simulation Learning – An Opportunity to Enhance Student Learning in Pharmacy	Cheryl A. Sadowski	University of Alberta
Leadership and Community Placement for Inter-professional students in rural Uganda	Adil J. Nazarali	University of Saskatchewan
Collaborating Around Medication Management: A Pilot with 2nd year Pharmacy and Dentistry Students	Lynda Eccott	University of British Columbia
Establishing a licensed, university-owned, pharmacist-led patient care environment – the UBC experience.	Barbara Gobis	University of British Columbia
Informatics Three Ways: Using the AFPC Pharmacy Informatics e-Resource in Three Pharmacy Undergraduate Courses	Marie Rocchi	University of Toronto



Innovations in Pharmacy Education and Research Presentations

May 31, 2014

Room 2 – Salon Batoche

Moderator – Anas El-Aneed, University of Saskatchewan

Active learning in pharmaceuticals or how 200 PharmD students can contribute each year to a provincial database of compounded formulations	Grégoire Leclair	Université de Montréal
Role and status of the basic pharmaceutical sciences in pharmacy education: A UBC case study	Simon Albon	University of British Columbia
Development and Evaluation of an Educational Program to Engage Pharmacists in Awareness and Prevention of Fetal Alcohol Spectrum Disorder (FASD)	Sharon Mitchell	University of Alberta
Integration of Pharmacist Expanded Scope of Practice Into a Skills-Based Course	Debra Moy	University of Toronto
Development and use of computer-based instructional technologies for application in teaching basic pharmacokinetics to pharmacy students	Dion Brocks	University of Alberta



Innovations in Pharmacy Education and Research Presentations

May 31, 2014

Room 3 – Kelsey/Saskatchewan

Moderator – Nancy Waite, University of Waterloo

Using Reflection to Foster Earlier Learners' Curiosity in Patient Perspectives	Lisa Guirguis	University of Alberta
Assessment of learning in competency-based health-professions curricula	George Pachev	University of British Columbia
Time for a new model: Re-engineering assessment.	David W. Fielding	University of British Columbia
Faculty and student perceptions of student evaluations of teaching	Marion Pearson	University of British Columbia
Assessing the Development of Professional Competencies in Pharmacy Students: the Role of the Portfolio Oral Presentation	Julie Méthot	Laval University

AFPC New Investigator Research Award: Shyh-Dar Li



Dr. Shyh-Dar Li received his B.Sc. in Pharmacy from National Taiwan University in 1998, and Ph.D. in Pharmaceutical Sciences from The University of North Carolina at Chapel Hill in 2008. He finished his postdoctoral training at Moores Cancer Center at the University of California, San Diego in 2009. He is now an assistant professor at the Leslie Dan Faculty of Pharmacy, University of Toronto, and a principal investigator at the Ontario Institute for Cancer Research. His research focuses on developing innovative drug delivery systems to enhance cancer chemotherapy. His research program has been supported by NIH and CIHR. Dr. Li has won several research awards, including 2013 AAPS New Investigator Award in Pharmaceutics and Pharmaceutical Technologies, 2013 CIHR New Investigator Award, 2013 CSPS Early Career Award, and 2012 Prostate Cancer Foundation Young Investigator Award.

Abstract

Nanoparticle-based drug delivery is an emerging technology for targeting anticancer drugs to tumors, and a number of nanoparticle-based drugs are now in clinical applications as chemotherapeutics. While these nanomedicines exhibit reduced toxicity, most candidates and products do not enhance efficacy in human patients. The failure of current nanomedicines to achieve enhanced safety *and* efficacy is largely attributed to limited tumor bioavailability, and is an issue of suboptimal drug release profile. For example, drug release from Doxil[®] (PEGylated liposomal doxorubicin) is slow (<1%/day), leading to reduced bioavailability in tumors; paclitaxel partitions rapidly out of Abraxane[®] (nanoparticle albumin bound paclitaxel) during blood circulation, and the pharmacokinetic and biodistribution profiles are not enhanced compared to the native drug. Dr. Shyh-Dar Li's research focuses on addressing the critical issue of site-specific drug release, and his team has created two nanoparticle drug delivery technologies that enhance tumor bioavailability. The first technology is a polysaccharide drug conjugate that targets docetaxel to tumor stroma and exhibits sustained release within the tumor microenvironment. The second technology is a thermosensitive liposome that is triggered to burst-release the drug cargo in seconds within a locally heated tumor (39-43°C). Both technologies have shown enhanced efficacy and reduced toxicity in multiple animal models compared to standard chemotherapy.

AFPC Graduate Student Research Award: Wael Alata



Wael Alata received his bachelor of science in pharmacy from Damascus University, Syria in 2006. He moved to Paris, France in 2007 to be trained in the laboratory of pharmacology of the hospital Pitié Salpêtrière. In 2010 he graduated with a MSc. in pharmacology, pharmacokinetic and pharmacogenetic at the faculty of pharmacy of the University Paris11. He then moved to Canada to pursue PhD studies under the supervision of Dr Frederic Calon in the faculty of pharmacy of Laval University. He expects to graduate early in 2015. He is three time recipient of awards for poster presentation, and has already four publications in peer-reviewed journals.

The research of Wael Alata under the supervision of Dr. Frederic Calon focuses on the role of the blood-brain barrier (BBB) in neurodegenerative diseases and on potential strategies to ameliorate the passage of therapeutic molecules across the BBB. One of such strategies involved the use of a monoclonal antibody targeting the transferrin receptor. In his research, he routinely performs the *in situ* brain perfusion technique, which is one of the best methods to quantify the brain uptake of a drug through the BBB, and used in less than dozen of laboratories worldwide.

Abstract

Monoclonal antibodies (mAbs) targeting blood–brain barrier (BBB) transporters are being developed for brain drug targeting. However, brain uptake quantification remains a challenge, particularly for large compounds, and often requires the use of radioactivity. In this work, we adapted an *in situ* brain perfusion technique for a fluorescent mAb raised against the mouse transferrin receptor (TfR) (clone Ri7). We first confirmed *in vitro* that the internalization of fluorolabeled Ri7 mAbs is saturable and dependent on the TfR in N2A and bEnd5 cells. We next showed that the brain uptake coefficient (Clup) of 100 μg (\sim 220 nM) of Ri7 mAbs fluorolabeled with Alexa Fluor 750 (AF750) was $0.27 \pm 0.05 \mu\text{L g}^{-1} \text{s}^{-1}$ after subtraction of values obtained with a control IgG. A linear relationship was observed between the distribution volume VD ($\mu\text{L g}^{-1}$) and the perfusion time (s) over 30–120 s ($r^2 = 0.997$), confirming the metabolic stability of the AF750-Ri7 mAbs during perfusion. Co-perfusion of increasing quantities of unlabeled Ri7 decreased the AF750-Ri7 Clup down to control IgG levels over 500 nM, consistent with a saturable mechanism. Fluorescence microscopy analysis showed a vascular distribution of perfused AF750-Ri7 in the brain and colocalization with a marker of basal lamina. To our knowledge, this is the first reported use of the *in situ* brain perfusion technique combined with quantification of compounds labeled with near-infrared fluorophores. Furthermore, this study confirms the accumulation of the antitransferrin receptor Ri7 mAb in the brain of mice through a saturable uptake mechanism.

Canadian Foundation for Pharmacy Graduate Student Award for Pharmacy Practice Research: Mina Tadrous



Mina Tadrous is currently completing a PhD in Pharmaceutical Science working in the field Pharmacoepidemiology in the Leslie Dan Faculty of Pharmacy at the University of Toronto under the supervision of Dr. Suzanne Cadarette. Mina previously completed a MSc in Health Outcomes and Policy Research at the University of Tennessee, and a Doctor of Pharmacy at Albany College of Pharmacy. He also completed a pharmacy residency in Drug Information and health Outcomes at the University of Tennessee and St. Jude Children's Research Hospital.

Mina's research interests include post-market surveillance of medications and vaccines, pharmacoepidemiology, pharmacovigilance, and the application of epidemiology to studying medication safety and effectiveness.

Abstract

INTRODUCTION: Bisphosphonates are first-line treatment for osteoporosis. Gastrointestinal (GI) adverse events (AE) are the primary reason for non-adherence. Little is known about the comparative GI safety of bisphosphonates.

PURPOSE: Leverage published clinical trial data to examine the comparative GI safety of bisphosphonates.

METHODS: We completed a systematic review of all English-language clinical trials that assessed bisphosphonate safety and/or efficacy in primary osteoporosis through to 2012. Randomized, blinded, and controlled studies were eligible. The primary outcome was any GI-related AE. Subanalyses were completed for upper GI symptoms, serious GI, nausea, esophageal-related events, and discontinuation due to AE. A Bayesian-based network meta-analysis was completed to allow for indirect comparisons. Results were reported as the probability that a specific drug had the highest number of events.

RESULTS: We identified 50 studies: 32 alendronate, 12 risedronate, 5 etidronate, and 7 zoledronic acid. Zoledronic acid had the highest probability of having the highest number of any GI AE (91%) and nausea (70%). Etidronate (70%) and zoledronic acid (28%) had the highest probability of having the greatest attrition due to AE. Etidronate had the highest probability (56%) of having the greatest number of upper GI symptoms among oral bisphosphonates.

CONCLUSION: Zoledronic acid had the highest probability of causing the greatest number of GI AE, possibly related to nausea. These results question the assumption that annual zoledronic acid will translate into better adherence. Little difference was found between alendronate and risedronate for serious AE. More research into real-world implications of the comparative safety of bisphosphonates is needed.

Pfizer Research Career Award: Anna Taddio



Dr. Anna Taddio is Professor at the Leslie Dan Faculty of Pharmacy, University of Toronto, Senior Associate Scientist at The Hospital for Sick Children, and Assistant Scientific Staff at Mount Sinai Hospital. Dr. Taddio completed a Baccalaureate degree in pharmacy in 1989, a Residency in hospital pharmacy in 1990, and a Doctor of Philosophy degree in clinical pharmacology in 1997. Her program of research examines: (1) the short-term and long-term effects of pain in children; (2) the effectiveness and safety of pain management interventions; and (3) evidence

based practice and implementation research.

Dr. Taddio has authored over 150 scientific papers and book chapters, and is the recipient of numerous awards recognizing her scholarly achievements, including: (1) New Investigator Award by the Canadian Institutes of Health Research (2003); (2) Piafsky Young Investigator Award by the Canadian Society for Clinical Pharmacology (2006); (3) Young Investigator Award by the International Association for the Study of Pain Special Interest Group on Pain in Childhood (2006); and (4) Media & Policy Fellowship Award by the Mayday Fund (2008).

Research Interests

Since 2008, Dr. Taddio has been leading a national inter-disciplinary team, Help ELiminate Pain in KIDS (HELPinKIDS), investigating and promoting evidence-based pain management during childhood vaccination. Led by Taddio, HELPinKIDS made significant progress in mobilizing knowledge into practice in the management of pain during childhood vaccination. Their wide-reaching and comprehensive knowledge translation (KT) strategy has created a network of invested stakeholders, increased awareness of the need to provide pain relief, provided evidence-based knowledge synthesis and practice tools, informed immunization policy and education, and demonstrated impact on health service delivery. Dr. Taddio has received the following awards for her work related to HELPinKIDS: (1) Publication of the Year by the Canadian Society for Pharmacology and Therapeutics for the HELPinKIDS clinical practice guideline about childhood vaccination pain management (2010); (2) Noni MacDonald Award by the Canadian Paediatric Society for significant contribution to paediatrics (2012); (3) Best Pain Awareness Award by the Canadian Pain Society and Canadian Pain Coalition for the HELPinKIDS educational video and website (2012); and (4) Jeffrey Lawson Award by the American Pain Society for outstanding advocacy in pediatric pain (2014).

Janssen Innovation in Education Award: Chantal Pharand, Françoise Crevier, Nancy Sheehan



Chantal Pharand is Professor and Vice-Dean, Undergraduate Studies at the Faculty of Pharmacy of the Université de Montréal. For the past 11 years, she has been actively involved in pharmacy program development, actively participating in the development and chairing the implementation of the Entry-Level PharmD Program; she is now chairing the development of the Non-Traditional PharmD Program. In addition to her academic activities, she practices as a Pharmacotherapeutic Specialist at the Hôpital du Sacré-Coeur de Montréal where she has practiced in inpatient and outpatient cardiology for the past 20 years, in the Coronary Care Unit for 10 years and now as co-director of the Risk Reduction Clinic. Finally, she has actively conducted research in the area of coronary artery disease and antiplatelets.

Françoise Crevier is a specialist in instructional design. With more than thirty years of experience in instructional design and a solid academic background, she has acquired skills to develop rich, stimulating and effective learning environments. To date, Françoise has developed more than a hundred learning environments; approximately half are distance learning and e-learning environments. She is also involved in curriculum development in competency-based contexts. For the last ten years, she has been involved in the design and development of the Pharm. D. Program for the Faculty of Pharmacy of the Université de Montréal.

Nancy Sheehan is a Pharmacotherapeutic Specialist in HIV and antiretroviral therapeutic drug monitoring (TDM). She began teaching at the Faculty of Pharmacy of the Université de Montréal in 2004, mainly on viral, parasitic and fungal infectious diseases as well as on tropical and travel medicine and rapidly became involved in the development and implementation of the Entry-Level PharmD Program. She now sits on the steering committee for the development of the Non-Traditional PharmD Program. She continues to practice at the Chronic Viral Illness Service of the McGill University Health Centre (a specialized clinic for the treatment of HIV and hepatitis C) and coordinates the Québec antiretroviral TDM program. She is a primary investigator on multiple pharmacokinetic studies on the pharmacokinetic / pharmacodynamic determinants of virologic response and on drug-drug interactions related to HIV and hepatitis C therapy.

Janssen Innovation in Education Award: Chantal Pharand, Françoise Crevier,
Nancy Sheehan

Abstract

In 2007, we deployed a competency-based First Professional Degree Doctor of Pharmacy program (Pharm. D.), targeting 6 generic and 3 vocational competencies. One of the latter was Service Learning. However, this first version of the program did not put enough emphasis on the development of this competency. Methods: In order to allow students to build this competency, we redesigned 6 courses, for a total of 8 credits. This led to the development of a learning environment that allowed all 600 1st- to 3rd-year pharmacy students to work together in teams of 10-12 towards a common project. In addition to developing the Service Learning competency, the objectives of these new courses were to: a) cause an important social implication by the student; b) promote the role of pharmacist as change agent with regards to public health; c) reinforce transverse competencies including teamwork, communication and leadership. Each team included students from all 3 cohorts. Each team's goal was to create, develop and implement a project that had to: a) generate a social or community impact, b) be deployed in the community; c) respect 1 of 2 imposed health topics (e.g. obesity or stress). Three mentors and 2 faculties guided the students in their projects. Results: On the first year this innovation was implemented, 50 projects were developed, 18 on obesity and 32 about stress. The projects ranged from development of websites, videos or tools for pharmacists, direct interventions with the targeted audience, organization of awareness campaigns, government representations, etc. All teams identified and collaborated with external resources needed to complete their projects. Even though students are concerned at the beginning of their project, they gain confidence and are able to go through the process, achieve their goal and deliver very high-quality productions. Conclusion: Three years after implementing this innovation, we can confirm that this project has a considerable impact on the development of the Service learning competency in our students and will remain part of the curriculum.

PEBC Award for Excellence in Research or Innovation in Assessment of Competence: David Fielding



David Fielding is a Professor in the Faculty of Pharmaceutical Sciences at the University of British Columbia. He obtained his B.Sc. (Pharm.) and M. Sc. (Biopharmaceutics) degrees from the College of Pharmacy, Dalhousie University and a Doctorate of Education (Adult Education) degree from UBC. He has been a member of the pharmacy faculty at UBC since 1977. He received the 1989 Squibb Award for Excellence in Pharmaceutical Teaching from the UBC Faculty of Pharmaceutical Sciences; a UBC Killam Teaching Prize in 1992; and, the Bristol-Meyers Squibb National Award for Excellence in Education from the Association of Faculties of Pharmacy of Canada in 1996. He has held the David H. MacDonald Professorship in Pharmacy Practice and the Dr. Tong Louie Chair in Pharmacy Administration. He has served terms as President of The Canadian Conference on Continuing Education in Pharmacy; The Canadian Council for the Accreditation of Pharmacy Programs; and, the Association of Faculties of Pharmacy of Canada. From 2002 until 2012 he served as UBC's Associate Dean, Academic and the inaugural Chair of the Faculty's Office of Educational Support and Development. Dr. Fielding is currently completing an administrative leave where he has been investigating best practices and principles for learning assessment, with a particular emphasis on how to harness the power of assessment for the promotion of learning.

Abstract

The principal focus of Dr. Fielding's 40-year research career has been 'evaluation' – evaluation of the outcomes of educational programmes, educational innovations and initiatives, pharmacy services and pharmaceuticals. Initially, his research evaluated the design and implementation of continuing professional education programs and their impact on practice behaviours. Additional work at this time focused on the development and evaluation of strategies to assess and assure practice competence. Later, he was a founding member of the Collaboration for Outcomes Research and Evaluation (CORE), a multi-discipline group that concentrated on investigating the safety and effectiveness of specific pharmaceuticals and the outcomes of selected pharmacy services. Most recently, he has worked with other members of the UBC pharmacy faculty to evaluate the impact of curriculum and assessment changes and innovations. Government granting agencies, foundations, pharmaceutical companies and the university have supported his research. He has authored or co-authored more than 100 articles, chapters, abstracts and reports. He has been an invited speaker/participant on over 60 occasions at professional and scientific meetings in Canada, the United States, England, Sweden, South Africa, New Zealand, Australia and Hong Kong. He has received two international awards to recognize his achievements in research.

Merck Postgraduate Pharmacy Fellowship Award: Tullio Esposito



Tullio Esposito completed his Bachelor of Science in Pharmacy in the Faculty of Pharmaceutical Sciences at the University of British Columbia in 2013. He is currently completing his M.Sc studies in the same faculty under the guidance of Dr. Urs O. Häfeli within the nanomedicines and drug delivery stream. His research interests are centered around using nanomaterials to modulate the immune system. His current research focus involves developing a novel therapeutic vaccine against pancreatic ductal adenocarcinoma, one of the most deadly cancers in Canada. Part of the aggressive nature of this disease stems from its ability to recruit a large numbers of suppressive immune cells; these cells not only help the tumor grow but also dampen beneficial immune responses that oppose the tumor. Tullio's project involves designing a nano-scale platform to target ablative radiation and a specialized adjuvant directly into the tumor following systemic administration. This construct is designed to help reverse the immunosuppressive nature of pancreatic ductal adenocarcinoma while augmenting effector immune responses against the tumor. Such a novel strategy is drastically needed seeing how the 5-year relative survival rate for this form of cancer has barely changed in the last 30 years.

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