Faculty of Pharmacy

Annual Report

July 1, 2013 - June 30, 2014

Educating Pharmacists in Manitoba since 1899
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Published by:  
The Faculty of Pharmacy  
Editor: Angela Shank, Administrative Assistant
Our Mission

The Faculty of Pharmacy is an institution that will create an educational environment that facilitates the integration of pharmacy scholarship in the areas of practice, research and service to effect optimal health outcomes for individuals and communities, and the advancement of the profession of pharmacy.

In striving to fulfill this mission the Faculty is dedicated to:

- Preparing competent graduates from both undergraduate and post-graduate programs who:
  - demonstrate confidence in their abilities to take responsibility for their role in optimizing the health status of society;
  - demonstrate the practical and professional application of knowledge, skills, and attitudes;
  - are critical thinkers;
  - demonstrate professionalism in the values, ethics and attitudes reflected in their practice;
  - demonstrate skills and processes of active life-long learners.

- Ensuring that ownership and responsibility for the Faculty’s educational outcomes are widely shared by both internal and external stakeholders:
  - Students share responsibility for their own academic and professional development;
  - Students are involved in the definition of education outcomes, curriculum development, evaluation and professional activities;
  - Faculty, staff, preceptors and students work collaboratively to achieve the mission of the Faculty;
  - All stakeholders are aware of curriculum components, research programs and governance/accountability structures, as well as the goals and outcomes achieved by each.

- Collaborating with the profession to enhance the continuing competence of pharmacy practitioners in Manitoba.

- Fostering a reciprocal relationship with graduates to advance both the education program and the development of the profession.

- Working with all stakeholders to proactively influence health care system innovation, change and reform to optimize the health status of society.

- Encouraging collaborative models of research that support the strategic direction of the Faculty.

- Implementing transparent structures, systems and processes to manage and support ongoing change in both internal and external environments, including regular evaluation and feedback from stakeholders on the achievement of the Faculty mission.
Message from the Dean

I am happy to provide the Dean’s message for the 2013-2014 annual report. It is hard to believe it was a year ago that I last reported to you and that I am now entering into my fourth year as Dean of this great Faculty of Pharmacy. I think that you will find that what we have accomplished together as outlined in this report are remarkable achievements from the past academic year.

As I contemplate the past year it brings to mind our many accomplishments and special achievements. Dr. Silvia Alessi-Severini completed a successful administrative study leave and was promoted to Associate Professor effective July 1, 2014. Dr. Hope Anderson led the comprehensive self-study and review of our graduate program which passed with flying colours. Together we presented a record number of posters at the Association of Faculties of Pharmacy of Canada (AFPC) meeting in Saskatoon and at the Annual CPhM/MSP Pharmacy Conference. We have also maintained considerable success in research and graduate education. Finally, we have also finished construction of three more new offices, and installed state of the art audiovisual equipment in six class rooms and the boardroom room. These accomplishments and more are highlighted throughout this report.

In 2013, we welcomed 55 students into the Faculty of Pharmacy. Our graduating students have performed very well in the Pharmacy Examining Board of Canada examination process. Furthermore, student involvement in volunteer and community activities remains thriving. In my tour of over 300 pharmacies in our province so far (http://umanitoba.ca/faculties/pharmacy/pharm_locations.html), I have seen first-hand our students using our expanded scopes of practice to the benefit of our health care system. Additionally, the Pharmacy students also competed in the second Manitoban “Mr. Pharmacy” competition to support the Children’s Hospital Foundation which was a memorable event enjoyed by both students and staff.

There remains significant work to be done for our program and the profession of pharmacy in the 21st century. We will work diligently over this next year to make further improvements and refinements to our programs. I would like to thank our alumni, stakeholders and supporters who have been generous in their support which facilitates the overall success of the Faculty of Pharmacy.
Message from the Dean ... cont.

I am proud of what we have accomplished this past year, and I really look forward to great things in the coming academic year. I know that we will continue to provide exemplary world class pharmacy research and teaching at the University of Manitoba. It is simply what we do.

Thank you for having me as your Dean.

Sincerely,

Neal Davies BSc.(Pharm), Ph.D., R.Ph. Dean and Professor
Message from the Associate Dean (Academic)

Lavern M. Vercaigne, Pharm.D.,
Professor and Associate Dean (Academic)

I am pleased to provide highlights of the 2013-2014 undergraduate year in the Faculty of Pharmacy. Over the last year, the faculty have continued to incorporate expanded scopes of practice into the Pharmacy curriculum. Injection / immunization training is now a routine part of the core curriculum for all third year students. In addition, we are actively planning to participate in a multi-disciplinary flu clinic in the Fall of 2014 with our colleagues from Nursing and Medicine here at the University of Manitoba. The faculty have successfully incorporated physical assessment into the third year Skills Lab. This initiative will develop student skills to assess vital signs and perform physical assessment needed to monitor drug therapy in their practices. An interprofessional web-based module for physical assessment was created and shared with other members of the Faculty of Health Sciences. In the coming year, we will be incorporating ordering lab values and prescribing for common ambulatory ailments and smoking cessation into the curriculum. By the time our students graduate, our goal is to have them ready to participate in the expanded scopes of practice that pharmacists are beginning to enjoy with implementation of our new pharmacy regulations. We continue to be involved in the delivery and planning of new interprofessional activities at the University, and are actively planning to participate in a patient safety activity in the spring of the upcoming academic year.

As you may already be aware, Pharm.D. programs are beginning to be implemented across Canada as the first entry-to-practice degree. As the development of Pharm.D. programs is well underway in other provinces, our Faculty will begin to create a Pharm.D. Program proposal for approval in the coming year. As part of this process, we will be consulting key stakeholders and partners as the proposal is developed. We look forward to discussing this further with you and receiving your feedback to ensure the design of a strong Pharm.D. Program proposal.

I would again like to thank the entire faculty and all of our partners for their support, input and dedication to pharmacy education in Manitoba. Your efforts are much appreciated.

Lavern M. Vercaigne, BSc. Pharm, Pharm.D.,
Professor and Associate Dean (Academic)
Message from the Associate Dean (Research)

Yuewen Gong, Ph.D., Professor and Associate Dean (Research)

Research in the Faculty of Pharmacy covers a variety of areas in pharmacy and pharmaceutical sciences such as pharmaceutics, pharmacoepidemiology, pharmacology, medicinal chemistry, antibiotic resistance, nanotechnology, biomedical sciences, clinical pharmacy and interprofessional education and program evaluation. The research laboratories are located on the second and third floor of the Apotex Centre and in St. Boniface Research Centre with significant improvement of research equipment, facilities and infrastructure occurring on an annual basis.

In 2013 to 2014, the Faculty has further improved the Pharmaceutical Analysis Laboratory on the second floor and installed several advanced instruments such as the ViiA™ 7 Real-Time PCR System and lab, the MEDICA EasyRA Clinical Chemistry Analyzer and a new Vapourtec flow Chemistry system. The new and sophisticated ViiA™ 7 Real-Time PCR System allows researchers to perform highly efficient gene expression, genotyping, protein ligation assays and high resolution melting experiments. The EasyRA Clinical Chemistry Analyzer is a fully automated clinical chemistry analyzer that accommodates the diverse needs of small laboratories. EasyRA is quickly operational and ready to run samples. It displays clearly the progress of a run and easily allows changes. It also allows you to analyze samples in less than 8 minutes. The Vapourtec flow chemistry instrument is also shared equipment that is keeping us at the forefront of advances in medicinal chemistry synthesis. All of these instruments will be incorporated into teaching laboratories for student learning.

Researchers in the Faculty have obtained funding from national and international agencies such as CIHR, NSERC, Heart & Stroke Foundation of Manitoba, Manitoba Medical Service Foundation, Manitoba Institute of Child Health, University of Manitoba, Health Science Centre Foundation and pharmaceutical and nutraceutical industry contract grants. Total funding for July 1, 2013 to June 30, 2014 exceeded over 2 million dollars. Some major highlights of the funding received this year are a CIHR grant to Dr. Hope Anderson, an establishment grant from MHRC to Dr. Emmanuel Ho, and MMSF grants to both Dr. Ted Lakowski and Geoff Tranmer.

The Leslie F. Buggey Professorship currently held by Dr. Keith Simons has also made history at the Faculty of Pharmacy in 2013 and is a great additional resource for faculty research. It is an endowed
Message from the Associate Dean (Research)...

research professorship that provides a faculty researcher with annual funds to further their research activities and program.

In 2013, Dr. Geoff Tranmer, Dr. Jamie Falk and Dr. Christine Leong joined the Faculty of Pharmacy. Dr. Tranmer brings research excellence of medicinal chemistry to our faculty. His expertise will enhance not only research but also teaching in medicinal chemistry and pharmaceutical science. Dr. Jamie Falk brings his clinical experience to the faculty and significantly enhances clinical placements and education to undergraduate pharmacy students. Dr. Christine Leong has made a significant impact in the physical assessment area of the curriculum and her research interests in primary care, evaluation of drug utilization patterns, and pharmacoepidemiology are coming to fruition.

In conclusion, we are very proud of the research achievements in the Faculty of Pharmacy and looking forward to seeing further growth in research capacity and activity in the years to come. Finally, I want to thank all faculty, students, staff and alumni for all your hard work and support in enhancing the pharmacy and pharmaceutical research within the Faculty of Pharmacy.

Yuewen Gong, Ph.D.
Associate Dean (Research)

Dr. Gong and Dr. Davies presenting the 2013 Summer Student Research Awards
Faculty of Pharmacy

Faculty & Staff 2013-2014 (full-time or faculty based)

Dean
Neal Davies, B.Sc. (Pharm.) (Alberta), Ph.D. (Alberta)

Associate Dean (Academic)
Lavern M. Vercaigne, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Toronto)

Associate Dean (Research)
Yuewen Gong, B.M. (Beijing), M.Sc., (China), Ph.D. (Manitoba)

Professors
Frank Burczynski, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
David Collins, Dip. Pharm. (NZ), M.Sc. (Minnesota), Ph.D. (Minnesota)
Neal Davies, B.Sc. (Pharm.) (Alberta), Ph.D. (Alberta)
Yuewen Gong, B.M. (Beijing), M.Sc., (China), Ph.D. (Manitoba)
Ruby Grymonpre, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Minnesota)
Xiaochen Gu, B.Sc. (Pharm.) (China), M.Sc. (China), Ph.D. (China)
Brian Hasinoff, B.Sc. (Hons.) (Alberta), Ph.D. (Alberta)
Keith J. Simons, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Washington)
Lavern M. Vercaigne, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Toronto)
Sheryl Zelenitsky, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Buffalo)

Associate Professors
Hope Anderson, B.Sc. (Manitoba), Ph.D. (Manitoba)
Shawn Bugden, B.Sc. (Hons.) (Manitoba), B.Sc. (Pharm) (Manitoba), M.Sc. (Manitoba), M.Sc. (Oxford), Pharm.D. (Washington)
Mike Namaka, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
Silvia Alessi-Severini, B.Sc. (Pharm.) (Parma), Ph.D. (Alberta) (effective April 1, 2014)

Assistant Professors
Christine Davis, B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC) (July 1, 2013-December 31, 2013)
Jamison Falk B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC)
Emmanuel Ho, B.Sc. (Hons.) (Toronto), Ph.D. (Toronto)
Harris Iacovides, B.Sc. (Manitoba), B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Pharm.D. (Toronto)
Ted Lakowski, B.Sc. (Pharm.) (UBC), Ph.D. (UBC)
Christine Leong B.Sc. (Manitoba), B.Sc. (Pharm) (Manitoba), Pharm D. (Toronto) (Effective July 1, 2013)
Geoffrey Tranmer B.Sc. (Hons.)(Brock), Ph.D. (Guelph) Effective July 1, 2013)
Faculty & Staff 2013-2014 ... cont.

Instructors
Kelly Brink B.Sc. (Pharm.) (Manitoba)
Dennis Cote B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
Christine Davis, B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC) (effective January 1, 2014)
Drena Dunford, B.Sc. (Hons) (Waterloo), B.Sc. (Pharm.) (Toronto)
Grace Frankel, B.Sc. (Pharm.) (Manitoba), Pharm D. (Toronto)
Nancy Kleiman, B.S.P. (Sask.), MBA (Athabasca)
Christopher Louizos, B.Sc. (Pharm.) (Manitoba)
Sheila Ng, B.Sc. (Pharm.) (Manitoba)
Sonal Purohit, B.Sc. (Pharm.) (Manitoba)

Sessional Instructors
Ronald Guse, B.Sc. (Pharm.) (Manitoba)
Susan Lessard-Friesen, B.Sc. (Pharm.) (Manitoba)
Kim McIntosh, B.Sc. (Pharm.) (Manitoba)
Shirley Treacy B.S.P. (Sask), M.Sc. (Sask.)

Program Evaluation Administrators
Cheryl Kristjanson, Ph.D. (Manitoba)
Robert Renaud, Ph.D. (Manitoba)

Faculty Administrative Staff
Janice Bailey – Faculty Manager
Sara Dyck, B.Es (Manitoba)—Reception (effective October 2013)
Patricia Kopp, B.Sc. (Winnipeg)– Technical Support Manager
Cheryl Lee, B.Ecol (Manitoba) – Undergraduate Program Administrator
Usha Pammi B.Sc. (Eng) (India)– Office Assistant
Angela Shank, B.A.S. (Hons) (Windsor)—Administrative Assistant (effective September 2013)
Sara Smith, BA (Manitoba) – Office Assistant (on Leave October 2013-October 2014)
Sherri Vokey, MA (Queens), MLIS (Western) – Librarian
Lisa Zhang - Graduate Program Administrator (June 2013-October 2013)

Technical Staff
Steven Birch - Computer Technician
Paola Cordova, B.Sc (Manitoba), B.Es (Manitoba)-Laboratory Technician
Chrissy Laqui, CPhT (Winnipeg)- Laboratory Technician (On Leave March 2013-April 2014)
Daywin Patel, M.Sc (Manitoba) – Laboratory Technician
Dr. Casey Sayre, Pharm.D. (Idaho) – Laboratory Technician
Cathy Zahradka - Laboratory Technician (until January 2014)
Faculty & Staff 2013-2014 (Emeritus, Clinical and External)

Dean Emeritus
John Steele, B.Sc. (Glasgow), Ph.D. (Glasgow)

Professor Emeritus
Colin Briggs, B.Pharm. (Nottingham), Ph.D. (London), FRPharmS

Assistant Professors
Albert Friesen, B.Sc. (Manitoba), M.Sc. (Manitoba), Ph.D. (Manitoba)
Kennedy Mang’era, B.Sc. (Pharm.) (Kenya), M.Sc. (Belgium), Ph.D. (Belgium)
Alberto Severini, MD. (Parma)

Clinical Associate Professor
Robert Ariano, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Minn.)

Clinical Assistant Professors
Alvaro Bras, B.Sc. (Chem.) (Manitoba), Ph.D. (Manitoba)
Shanna Chan, B.Sc (Pharm.) (Manitoba)
Sheri Fandrey, B.Sc. (Pharm.) (Sask), Ph.D. (Sask)
Mark Friesen, B.Sc. (Pharm.) (Manitoba), M.Sc., (Manitoba), Pharm.D. (Toronto)
Rhonda Fusee, B.Sc. (Pharm.) (Manitoba)
Alfred Gin, B.Sc. (Pharm.) (Manitoba), Pharm.D. (SUNYAB)
Kimi Guilbert, B.Sc. (Pharm.) (Manitoba), M.Sc. (Manitoba)
Ronald Guse, B.Sc. (Pharm.) (Manitoba)
Nick Honcharik, B.Sc. (Pharm.) (Manitoba), Pharm.D. (SUNYAB)
Pat Honcharik, B.Sc. (Pharm.) (Manitoba), Pharm.D. (SUNYAB)
Kyle MacNair, B.Sc. (Pharm.) (Manitoba)
Colette Raymond, B.Sc. (Pharm.) (Alberta), Pharm.D. (Toronto)
Brenna Shearer, B.MR (OT) (Manitoba), M.Sc. (Michigan), Ph.D. (Minnesota)
Amy Sood, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Toronto)
Peter Thomson, B.Sc. (Pharm.), (UBC), Pharm.D. (Wayne State)
Rick Thurmeier, B.Sc. (Pharm.) (Manitoba)
Shirley Treacy, B.Sc.(Pharm) (Sask.), M.Sc. (Sask.)
Pat Trozzo, B.Sc. (Pharm.) (Manitoba)
Wally Watral, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Minnesota)
Lori Wazny, B.Sc. (Pharm.) (Manitoba), Pharm.D. (Florida)
Donna Woloschuk, B.Sc. (Pharm.) (Sask.), Pharm.D. (Cincinnati)

Professional / Research Associates
Xing Wu, B.Sc. (Biochem) (China), Dip. Fermentation (China), Ph.D. (Biochem)(Switzerland)
Faculty & Staff 2013-2014 ... cont.

**Adjunct Professors**
Sreeeneeraj Kasichayanula, B.Pharm (India), Ph.D. (Manitoba)
Songyan Liu, M.D. (China), MSc (Patho) (China), PhD (Patho) (China)
Gary Van Domselaar, B.Sc. (Chemistry), (Alberta) Ph.D. (Alberta)

**Lecturers**
Britt Kural, B.Sc. (Pharm.) (Manitoba)
Todd Mereniuk, B.Sc. (Pharm.) (Manitoba)
Brenda Rosenthal, B.Sc. (Pharm.) (Manitoba)
Dinah Santos, B.Sc. (Pharm.) (Manitoba), C.D.E. (Manitoba)
Danica Wasney, B.Sc. (Pharm.) (Manitoba)

**Field Instructors**
Cory Badger, B.Sc. (Pharm.) (Manitoba)
Krista Brown, B.Sc. (Pharm.) (Manitoba)
Lisa DeGroot, B.Sc. (Pharm.) (Manitoba)
Jennifer Fotti, B.Sc. (Pharm.) (Manitoba)
Christin Franken, B.Sc. (Pharm.) (Manitoba)
Darren Hall, B.Sc. (Pharm.) (Manitoba)
Patrick Hamilton, BSP
Tara Hoop, B.Sc. (Pharm.) (Manitoba)
Jane Lamont, B.Sc. (Pharm.) (Manitoba)
Jennifer Lamont, B.Sc. (Pharm.) (Manitoba)
Grant Lawson, M.Sc (Pharm) (Manitoba)
Arleigh Maddison, B.Sc. (Pharm.) (Manitoba)
Scott McDougall, B.Sc. (Pharm.) (Manitoba)
Erin Ramalho, B.Sc. (Pharm.) (Manitoba)
Gerri Scott, B.Sc. (Pharm.) (Manitoba)
Trevor Shewfelt, B.Sc. (Pharm.) (Manitoba)
Schalk Strydom, M.Sc (Pharmaceutics)

**Field Instructors (WISH Clinic)**
Petrasko, Kristine, B.Sc. (Pharm.) (Manitoba)
Rashid, Farah (Joy), B.Sc. (Pharm.) (Manitoba)
Walus, Ashley, B.Sc. (Pharm.) (Manitoba)

**External Appointments**
Robert Biscontri, Accounting & Finance
Teresa DeKievit, Microbiology
Faculty & Staff 2013-2014 ... cont.

Ed Kroeger, Physiology
William Leslie, Internal Medicine
Hassan Marzban, Human Anatomy & Cell Science
Mohammed Moghadasian, Human Nutritional Sciences
Grant Pierce, Physiology
Daniel Sitar, Internal Medicine / Pharmacology
Don Smyth, Pharmacology

Current faculty members entering the Welcome to the Profession Ceremony, preceded by a bagpiper
Dr. Casey Sayre joined the Faculty of Pharmacy in August 2014 as an Assistant Professor. He graduated from Brigham Young University with a Bachelor of Science in Biology in 2006. He continued his studies at the Idaho State University College of Pharmacy, completing a Doctor of Pharmacy degree in 2010. He commenced pursuing a PhD in Pharmaceutical Science at Washington State University with Dr. Neal Davies and relocated to the University of Manitoba to finish in 2014. His research interests are in optimizing and individualizing currently used pharmacotherapy with pharmacogenetic, pharmaceutic, and pharmacokinetic analysis and experimentation. He has published 12 peer reviewed articles 4 as first author and 5 book chapters 1 as first author. He has also practiced pharmacy part time in hospital, community, and long term care settings.

Dr. I fan Kuo joined the Faculty of Pharmacy in August 2014 as an Assistant Professor. She graduated from the University of British Columbia (UBC) with a Bachelor of Science in Pharmacy (2004), and subsequently completed a hospital pharmacy residency at Providence Healthcare in Vancouver (2005). She practiced as a clinical pharmacist in the cardiac surgery for two years before returning to UBC to pursue a Doctor of Pharmacy degree (2009). After practicing as a clinical pharmacy specialist in cardiology at St. Paul’s Hospital, Dr. Kuo received a 3-year postdoctoral fellowship award from the Heart and Stroke Foundation of Canada (HSFC) and Canadian Institutes of Health Research (CIHR) to pursue further training in health research. She successfully completed the postdoctoral training and a concurrent Master in Science degree with the Collaboration for Outcomes Research and Evaluation (CORE) group at the Faculty of Pharmaceutical Sciences, UBC (2014).
New Faculty and Staff ...ctd

*Angela Shank* joined the support staff team effective October 7, 2013. Angela’s most recent position was with Student Housing at the University of Manitoba. She previously was employed by Seneca College and completed her Bachelor of Arts and Science degree in history and biology from the University of Windsor.

*Sara Dyck* joined the support staff team effective October 28, 2013. Prior to this, Sara was an education coordinator at Living Prairie Museum. She completed her Bachelor of Environmental Studies degree from the University of Manitoba.
Outstanding Teacher Awards 2013-2014

2014 UMSU/UTS Students’ Teacher Recognition
Dr. Robert Ariano

**Outstanding Teacher 1st year**
Dr. Dennis Cote, Instructor

**Outstanding Teacher 2nd year**
Dr. Ted Lakowski, Assistant Professor

**Outstanding Teacher 3rd year**
Dr. Sheryl Zelenitsky, Professor

**Outstanding Teacher 4th year**
Dr. Lavern Vercaigne, Professor & Associate Dean (Academic)

Retirements
Cathy Zahradka retired from the Faculty of Pharmacy effective January 9, 2014. Cathy was a valued member of the pharmacy team and her assistance as a lab technician will be missed by both faculty and students.

Tenure and Promotions
Dr. Silvia Alessi-Severini was promoted to the rank of Associate Professor with tenure effective April 1, 2014.
The following is the report on my activities during my 6-month research/study leave that extended from January 01, 2014 to July 01, 2014.

Main research activities

During this time, my efforts concentrated on the completion of two studies on the utilization of benzodiazepines in the population of Manitoba (both this studies are the latest results of an ongoing collaboration with colleagues in the Department of Psychiatry (University of Manitoba), and on another study on the utilization of smoking cessation medications in Manitoba.

The work on benzodiazepines and Z-hypnotics produced two manuscripts. One publication entitled “Utilization of benzodiazepines and related drugs: a Canadian population-based study, 1997 – 2012” has been accepted by CMAJ-open and is currently in press. The other manuscript entitled “Sustained use of benzodiazepines and dose escalation in a Canadian province” is currently in the latest stages of preparation before submission to the Journal of Clinical Psychopharmacology.

The work on smoking cessation medications has produced results that will be presented at the upcoming EURODURG 2014 conference in Groningen (The Netherlands) August 27-29. The following abstract was accepted in May 2014.

Abstract title
Utilization of prescription medications for smoking cessation in the Canadian province of Manitoba: a population-based study, 1999-2012
Author: Dr. Alessi-Severini, Silvia, University of Manitoba, Winnipeg, Canada (Presenting author)
Co-author(s): Derksen, SA, Manitoba Centre for Health Policy, University of Manitoba, Winnipeg, Canada

Topic: Drug utilization research as a tool for health policy

Abstract text
Objectives: Only two prescription medications for smoking cessation (SC) have been available in Canada: bupropion (Zyban) since 1998 and varenicline (Champix) since 2007. Provincial drug plans in Canada historically have not reimbursed products categorized as “life-style” medications, but things are changing. This study reports on the utilization of prescription smoking cessation products in the entire population of a Canadian province with a universal health care system and a publicly funded in-
Research/Study Leave Report ... cont.

... assurance for prescription drugs.

Methods: Administrative health databases from the Population Health Research Data Repository at the Manitoba Centre for Health Policy (MCHP) were accessed to determine incident and prevalent use of prescriptions for SC in the entire population of Manitoba during the time period 1999 - 2012. Stratifications by sex, age group (below 18 years, 19 – 35, 36 –65, and over 65) and socioeconomic status (SES, based on neighbourhood of residence) were performed.

Results: Incidence rates of utilization for bupropion declined significantly from 8.3 per 1,000 in 1999/2000 fiscal year to 1.4 per 1,000 in 2006/07, while varenicline prescribing peaked in 2008/09 at 4.5 per 1,000 and stabilized at approximately 3.4 per 1,000 in the following years. Highest use prevalence for varenicline was observed in 2008/09 for the low-income group (5.2 per 1,000), males (5.3 per 1,000) and the 36 - 65 age group (8.4 per 1,000). Bupropion was most utilized by individuals in the high-income group in 1999/2000 (10.5 per 1,000).

Conclusions: High prevalence of use suggests smoking relapse. Listing of SC products in provincial formularies might benefit low-income individuals. Further studies will assess morbidity and success in quitting smoking in this population.

Acknowledgments: Study funded through an unrestricted grant from Pfizer Canada. Results and conclusions are those of the authors; no official endorsement by Manitoba Health or MCHP is intended or should be inferred.

Other research activities

1. I also continued my involvement with the CNODES activities and meetings. The Canadian Network for Observational Drug Effect Studies is a CIHR-funded initiative that involves multiple sites across the country. As a member of the CNODES Manitoba team and a member of the CNODES National Training Team I attended regular monthly meeting and teleconferences. In particular, I attended the middle year CNODES meeting that was held in Winnipeg, May 28-29, 2014.

My contribution as the site leader of the CNODES project investigating the effect of antipsychotic use on hyperglycemic emergencies ended with the publication of the manuscript reporting the combined results obtained in 8 Canadian jurisdictions. The paper entitled “Atypical antipsychotics and hyperglycemic emergencies: multicentre, retrospective cohort study of administrative data” has been published in Schizophrenia Research.
Research/Study Leave Report ... cont.

2. I also completed the revisions to a review paper that originated from work done with a former Elective student I precepted in 2012 (Stephanie Warnez). The manuscript entitled “Clozapine: a review of clinical practice guidelines and prescribing trends” has been published in BMC Psychiatry.

3. As the coordinator of the Elective Program, I was asked to contribute to a publication Dr. Heather Dean wanted to submit to the Canadian Journal of Diabetes describing diabetes teams as important interprofessional placements for students from various faculties. The article was published in the last issue of CJD. I thank Dr. Dean for the great learning opportunity offered to our students.

Summary of research articles published during my RSL:


Dean H, MacDonald L, Alessi-Severini S, Halipchuck J, Sellers E, Grymonpre R. Diabetes programs are natural interprofessional collaborative learning sites. CJD in press, 2014


Funding applications

During my RSL I also worked, together with Dr. Shawn Bugden, on an investigator-initiated research application to Merck Canada, and I collaborated with other groups to two additional grant applications:

1- Merck Investigator Studies Program 2014 - $75,500 for the project “Assessment of health and economic burden of herpes zoster in Manitoba: a population-based study” (Silvia Alessi-Severini, PI, Dr. Shawn Bugden, Co-investigator, University of Manitoba) AWARDED
Research/Study Leave Report ... cont.

2- Prostate Cancer Canada -2014 Movember Discovery Grants - $153,462 for the project “The effect of antipsychotic medications on the incidence and aggressiveness of prostate cancer: a population based study” (July 1, 2014) (Dr. Salaheddin Mahmud, PI, University of Manitoba), (Silvia Alessi-Severini, Co-investigator) (other co-investigators: David Dawe, Songul Bozat-Emre, Mahmoud Torabi, Donna Turner, Eduardo Franco, Armen Aprikian) – AWARDED

3- Movember Canadian Mental Health Initiative - $2,136,053 (over three years) for the project “Re-prioritizing the use of psychotropics in the mental health care of boys to men” (Dr. Andrea Murphy PI, Dalhousie University), (Gardener, Kutcher, Wilkes, Synyshyn, Alessi-Severini, Bagnell, Cardone, Chorney, Cox, Curran, Davidson, Emberly, Martin-Misener, McLuckie, Murray, Natarajan, Roswell, Co-investigators). SUBMITTED

Visit to Dalhousie University, College of Pharmacy

During my RSL I was able to visit the College of Pharmacy at Dalhousie University. Upon invitation by Dr. Ingrid Sketris (Professor) and Dr. Rita Caldwell (Dean) I gave a seminar entitled “Use of Anti-psychotic Medications in the province of Manitoba” (April 11, 2014). During my stay I also had the opportunity to attend the meeting of DEANS (Drug Evaluation Alliance of Nova Scotia) and to observe some PBL (Problem-Based Learning) sessions with 1st year and 3rd year students. During my stay at Dalhousie I also had the opportunity to discuss research collaborations with members of the College (Dr. Andrea Murphy, Dr. David Gardner, Dr. Ingrid Sketris) and the provincial drug program (Dr. Judith Fisher).

Graduate students

During my leave I kept close contact with my two graduate students. Through meetings and electronic communication, I was able to assist Noor Breik with work required for her to obtain ethics approval for her research project and to guide Sarita Jha with the writing of her thesis entitled “Utilization of Anti-psychotic Medications in the Youth Population of Manitoba: 1996-2011” that she recently defended and submitted to the Faculty of Graduate Studies for October graduation.
Service

A portion of my research/study leave was also used to fulfil some ongoing commitments. I remained a member of the Board of the Association of Faculty of Pharmacy of Canada (AFPC) and I served as Chair of the AFPC Council; I also served as a member of the AFPC Research Committee and the Nomination Committee. I chaired the AFPC semi-annual meeting in Ottawa (February 6-7, 2014) and the Annual meeting in Saskatoon (May 30-31, 2014).

Having spent most of my time locally, I was also able to keep some commitments with the Faculty. I contributed to the graduate program by giving my lecture on presentation skills to the new graduate students on January 15, 2014 and by attending the meetings of the graduate program review visit that the Faculty received on January 27-28, 2014.

Between January and March 2014, I also served on the Search Committee for two positions in our Faculty.

Conclusion and acknowledgments

In conclusion, my six-month RSL has been very productive and rewarding. I was happy to receive the promotion to the rank of Associate Professor effective April 1, 2014 and the appointment to Adjunct Scientist at the Manitoba Centre for Health Policy. My RSL has allowed me to develop professionally, to secure funding for the continuation of my research program, to strengthen current collaborations and to establish important contacts for future collaborations.

I am indebted to the Faculty for the opportunity and support provided. A special thank you to Shawn Bugden for replacing me in one lecture in PHRM3610 and to Kelly Brink who took over the coordination of the Electives Program during my six-month leave.
Events

New Students welcomed into the Pharmacy program

Fifty-four new students were welcomed into the pharmacy program on September 27th, 2013. Outstanding achievements of students throughout the undergraduate pharmacy program were recognized in addition to faculty members, preceptors and a special friend of the Faculty of Pharmacy.

Dr. Neal Davies, Dean, served as the master of ceremonies and Mr. Ronald Guse B.Sc. (Pharm) 1979, Registrar of the Manitoba Pharmaceutical Association was invited as a guest speaker.

Students from all four years of the program were presented with awards, including the Summer Student Research Awards. Three of the awards presented to students had a name associated with them: William G. Eamer. The Manitoba Pharmaceutical Association made him an honourary member in 2008 and now in 2013 he was recognized by the Faculty for his contributions with the presentation of a personalized white lab coat.

Dr. Dennis Cote, B.Sc (Pharm) 1969 invited Mr. Garry McManus, Dr. Robert Noble and Mr. Ted Bartman from the class of 1963, along with Mr. Lyle Merrell (Class of 1958) and Drs. Keith Simons and Daniel Sitar from the class of 1966 to the stage to present the first year students with a white coat. The presentation of the white coat symbolizes the students’ entry into the pharmacy program. Dr. Harris Iacovides, B.Sc. (Pharm) 2003, led the first years in the reciting of the Pledge of Professionalism.

Senior co-stick, Jillian James, and junior co-stick, Riley Love, addressed the first year students before Dr. Davies invited all the guests to the Apotex Centre for a reception.
Fourth-year pharmacy student Louis Chute’s hard work and dedication paid off when he was crowned Mr. Pharmacy 2014 at the Metropolitan Entertainment Center this past November.

The beautiful décor of the Metropolitan set an elegant tone for the 2nd annual Mr. Pharmacy event, including a full course dinner followed by the pageant. All attendees of the event were asked to bring an unused toy as a donation to the Children’s Hospital Foundation of Manitoba. Over 200 toys were collected to help spread holiday cheer.

The student co-chairs of the event were Alanna Doell, Alexis Wanner, and Jaclyn Deonarine. Their goal was to expand the event beyond just the Faculty of Pharmacy. In addition to students and professors, members of MSP, MPhA, and CPhA were also in attendance. Bringing together the pharmacy community has been a major accomplishment of the pageant.

After last year’s success, the Mr. Pharmacy dinner and pageant became a highly anticipated event within the Faculty of Pharmacy. A total of eight contestants are selected for the pageant, two from each class. The contestants are nominated by their peers based on their professionalism, personality and style.

This year’s brave contestants were the following men: Lyndon Walker, Scott Van, A.J. Stewart, Bruce Audit, Riley Love, Kulwant Singh, Liam Hogue and Louis Chute. The pageant is an all-inclusive event complete with four categories – professional dress, a pill counting competition, a question-and-answer period, and a talent section.

Four judges spent the night evaluating each contestant’s performance. The judges were Dr. Grace Frankel, Dr. Dennis Cote, Ms. Kristine Petrasko and Dr. Frank Burczynski.

The night started off full of energy with a dance routine choreographed by fourth-year student Ashley Ewasiuk. All of the contestants’ hard work showed as they took the stage putting on a remarkable performance to start off the pageant. The professional dress portion allowed the contestants to don their best attire and strut their stuff to impress the judges. Each contestant chose a song best suited for their personality and did not fail to impress with their confidence, elegance, and individuality.

(_ctd on next page_)

Mr. Pharmacy Contestants 2013
Mr. Pharmacy Pageant... cont.

The pill-counting competition this year was designed to mimic a real-life scenario working in a pharmacy. In the middle of counting a designated number of pills, contestants were interrupted by a “customer” who was in dire need of a specific brand of Band-Aid. This required the contestants to stop mid-count and race to find the correct item in a box full of products. The contestants were ranked in order of who was able to complete the task the quickest. This was an audience favourite and showed how important it is for a pharmacist to remain cool under pressure.

The question-and-answer period was a chance for the contestants to show off their knowledge of the profession. The questions focused on ethics and professionalism and were asked by MPhA registrar Ron Guse. All of the contestants remained composed and answered their respective question with poise and intelligence.

The conclusion of the pageant was, of course, the talent portion. The contestants did not disappoint and put on a wildly entertaining show. The talents performed showed a great diversity including beat-boxing, trombone playing, unicycle riding and swing dancing.

The night drew to a close when last year’s winner, Jeff Ngo, crowned his successor, Louis Chute, as Mr. Pharmacy 2014. Chute’s winning performance stood out, plunging the entire theater into darkness and performing an “evolution of dance” routine in a homemade LED glow suit.

Mr. Pharmacy is a charitable event that brings students, educators, and professionals together for an unforgettable evening of talent, humour, and elegance. It is a tradition that we hope will only continue to grow and expand in the years to come. The Mr. Pharmacy pageant originated in Canada at Dalhousie University and has been sweeping the nation. Plans to host a national Mr. Pharmacy pageant at Professional Development Week in Quebec City in January 2015 will certainly take the event to the next level. One contestant from each school will get the opportunity to fight for their chance to become Mr. Pharmacy Canada.
Graduate Awards Reception, December 5, 2013

Each December, the Faculty of Pharmacy comes together to celebrate excellence in graduate studies. We welcome faculty, staff, students and honoured guests to the Apotex Centre and present awards to exceptional graduate students to help them pursue their academic goals. This year, we welcomed Mark Fleming (B.Sc. Pharm. 1980) to deliver a special lecture on career opportunities in pharmacy and to award the inaugural Leslie F. Buggey Professorship in Pharmacy.

After an opening address by Dr. Neal Davies, Dean, and Dr. Hope Anderson, Graduate Program Chair, Mark Fleming presented “The Bear Facts: Rich Career Opportunities for Pharmacists in Pharmacy, Photography and Pharmaceuticals.” Mr. Fleming graduated from the University of Manitoba in 1980 and lived in Churchill, Manitoba as a practicing pharmacist. He has held several positions related to pharmaceuticals and government, all while publishing two books of photography. Students and staff truly enjoyed his insight into a career based in passion for health care and seizing every opportunity.

Two awards are presented to graduate students annually. The 2012 winners, Ms. Zhanni Weber and Dr. Casey Sayre, each delivered a “3 Minute Thesis” presentation. Within 3 minutes, and using only one slide as a visual aid, their aim was to present a synopsis of their theses work that was understandable by a non-expert audience.

The recipient of the 2013 Leslie F. Buggey Graduate Scholarship in Pharmacy was Mr. Ryan Lillico (supervisor: Dr. Ted Lakowski). Ryan was presented with the award by Dr. JoAnne Buggey, the late Leslie Buggey’s daughter. Ryan thanked the Buggey family and, on behalf of graduate students across the University, expressed his appreciation for donors’ commitment to graduate education and research.

The recipient of the 2013 MPhA/William Eamer Graduate Scholarship in Pharmacy was Mr. Jordyn Lerner (supervisor: Dr. Emmanuel Ho). Jordyn was presented with the award by Mr. William Eamer and Mr. Kyle McNair, President of the MPhA. Jordyn expressed his gratitude for this award which recognizes work in the community in addition to academic excellence. Jordyn encouraged all students to volunteer in their communities as patients are the ultimate reason we study and conduct research. Jordyn believes that knowing your community and the people within it will make you a better practitioner.

In appreciation of her continued support and incredible generosity, the Faculty of Pharmacy presented Dr. Buggey with a personalized white lab coat as an honorary pharmacist. Several previous recipients of the Buggey family’s generosity were also in the audience, as faculty, alumni and students joined Dr. Davies in the recognition of Dr. Buggey.
Welcome to the Profession, Class of 2014

On June 5th the Faculty of Pharmacy celebrated the graduation of the Class of 2014. In a brand new tradition for 2013, the 50 new graduates were presented with personalized lab coats by members of the College of Pharmacists of Manitoba. The lab coats symbolized their new role as pharmacists and University of Manitoba Alumni. They then joined family, friends, faculty and “pharmaly” in the celebration.

Faculty members were led into the Brodie Centre Atrium by bagpipers and where 200+ guests welcomed the new graduates. Dean Davies and Mr. Ronald Guse, Registrar for CPhM, welcomed the new graduates and offered their congratulations.

Mrs. Glenda Marsh, President of the CPhM, offered her welcome to the profession on behalf of the College and presented the Gold Medal to Heather Bourns as the top graduating student in Pharmacy. Heidi Marschall was presented with the Silver Medal for second highest student.

The Class of 2014 selected Dr. Shawn Bugden as their guest speaker. Dr. Bugden spoke at this class’s White Coat Ceremony in 2010 and helped the students reminisce about their last four years of pharmacy education. Each graduate was presented with their own mortar and pestle, a gift from the University of Manitoba Pharmacy Students’ Association, awards and a CPhM pin.

President Marsh led the new graduates and all existing pharmacists among the audience and faculty in reciting the “Oath of a Pharmacist”. After four years of education, countless hours of study and building a lifelong desire to learn, this oath symbolizes the next step in their careers as health care providers.

Congratulations, Class of 2014.
Inter-Professional Education

The University of Manitoba Interprofessional Education Initiative (IPE) is comprised of students, faculty, administrators and staff from the University of Manitoba (UofM) who believe that interprofessional education and collaborative practice are fundamental in building a stronger health maintenance and care delivery system¹.

Website: http://umanitoba.ca/programs/interprofessional/about_us/index.html

A Liaison Advisory Committee, with faculty representation from each of the academic units oversees the interprofessional curriculum implementation and facilitates communications between the initiative and the faculties involved. There are a number of working groups that work collaboratively to develop and organize opportunities for students to be involved in IPE experiences. A number of Faculty members are involved in these working groups: Patient safety/Quality improvement (Chris Louizos & Shawn Bugden); Health Promotion (Nancy Kleiman); Oral & Systemic Health (Drena Dunford); Communications (Sheila Ng) and IP Clinical Placements (Kelly Brink).

IPE Events for 2013-2014

IP Clinical Placements: Students participate in IPE placements in a variety of WRHA sites. This past year had a number of 4th year students participating at different sites involving IPE during their SPEP-4 hospital rotations.

"Learning Health Promotion Interprofessionally": This event was held simultaneously on both campuses in October 2013 (157 students from 5 academic units) and again in March 2014 (417 students from 7 academic units). 2nd year pharmacy students participate in the March session each year with 6 faculty members acting as facilitators. Those involved this year were Drena Dunford, Chris Louizos, Sheila Ng, Kelly Brink, Grace Frankel and Nancy Kleiman. The time invested by faculty members who participate is greatly appreciated as this event would not happen without facilitators.

Day Shift Event: This event moved to the Bannatyne Campus from the Fort Garry Campus (Nursing) and was held in the Simulation Lab. Pharmacy was represented by five 3rd year pharmacy students who were able to work with students from Nursing, Medicine, Occupational Therapy, Respiratory Therapy, Physical Therapy and Spiritual Services. (Ctd on next page)
Inter-Professional Education...ctd

The event simulates a day shift with 8 different “patients” played by Nursing and Medical students. Students were directly supervised by faculty members from each participating groups with pharmacy students supervised by Dr. Grace Frankel and Nancy Kleiman.

**Determinants of Health Project:** This IPE event is an introduction for 1st year pharmacy students to IPE and focuses on the Determinants of Health. Students are introduced to the Determinants of Health in the large group and then break into smaller groups to work on a project with each of the five health professions represented in most groups. The project is completed over two sessions with students working together planning and preparing a short power point using pictures to describe the different determinants of health that they observe.

**Community Pharmacy Simulation:** This was a new event this year and involved fourteen pharmacy technician students from Robertson College, four 1st year pharmacy students, five 2nd pharmacy students and one 3rd year pharmacy student. The event simulated five small community pharmacies with 1st year pharmacy students acting as patients (dropping off prescriptions to be filled and asking questions), 2nd year pharmacy students acting as the pharmacist (checking prescriptions, patient counseling and providing education), and a 3rd year pharmacy student acting as the pharmacy manager for all the pharmacies. The event provided an opportunity for each of the students to practice working collaboratively together in a pharmacy environment and to learn more about each profession and responsibilities.

Submitted by Nancy Kleiman
Faculty of Pharmacy IPE Liaison
Students

Undergraduate Enrolment

In April 2014 the requirements for all students to have an Adult Abuse Record check and the removal of Section 2 from the Special Considerations category were taken forward to the Senate Committee on Admissions (SCADM). These submissions were both passed and are pending approval from Senate.

The Faculty of Pharmacy had 55 students who confirmed their acceptance for the 2013/14 academic session, by the end of August. The Admissions meeting for review of applicants was held on June 19, 2013. The recommendation was to offer positions to 51 applicants plus 4 applicants from the special consideration list. In past years, a small number of applicants from the alternate list are offered positions so this year we voted to place 7 students on the alternate list.

The total number of applications for entry to the Faculty in 2013-2014 was 323.

Table 1: Student Profile 2013-2014

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<th>Year</th>
<th>Female</th>
<th>Male</th>
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<td>20 (37%)</td>
<td>54</td>
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<td>17 (34%)</td>
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<td>50</td>
</tr>
<tr>
<td>Total</td>
<td>107</td>
<td>104</td>
<td>211</td>
</tr>
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</table>

Graduates

Patrick Adiong  Joël Dornez  Lisa Lagimodiere  Varinder Pandher
Edward Ahoff  Ashley Ewasiuk  Nicole Lee  Taisa Pankewycz
Morgan Albisser  William Giang  Amanda Li  Kathryn Peterson
Kaeleigh Bawdon  Adam Heinrich  Amelia MacDougall  Salil Prashar
Joelle Boileau  Linsey Henry  Alia Marcinkow  Megan Scott
Heather Bourns  Liam Hogue  Heidi Marshall  Navdeep Sidhu
Kristjana Britton  Michelle Hryciw  Corina Martens  Samantha Smith
Raymond Buhr  Jillian James  Samantha Maryk  Peter Stockmann
Steven Burczynski  Krista Kjama Jamieson  Amir Mohammed  Derrin Symington
Phillip Chung  Dorota Jaworski  Adriana Muc  Ryan Tabing
Louis Chute  Chelsea Kokan  Solmaz Nafez  Sarah Tate
Kate Demings  Ryan Kusiak  Kenzie Nemez  Matthew Tomiak

Sue Wong
The 2013-2014 school year has hosted many successful and memorable events for the students of the Faculty of Pharmacy. As the Senior Co-Stick of the Pharmacy Students’ Association (UMPhSA) I feel privileged to report on some of our more notable accomplishments.

The school year kicked off with the UMPhSA Meet and Greet night and orientation to welcome the 1st years into the Faculty. As a result of student involvement, UMPhSA and CAPSI have been very successful in their charitable efforts this year. We began with the first annual “Saving Second Base” Softball Tournament and Social in August with proceeds going to Breast Cancer Research. With the assistance of this event our Faculty’s “Run for the Cure” team raised $4,000. In September “The RED Party” raised an incredible $7,500 for The Mood Disorders Association of Manitoba. Our biggest event of the year, the 2nd Annual Mr. Pharmacy Pageant, was organized by an excellent team of volunteers from all years of Pharmacy. The pageant was held at the beautiful Metropolitan Centre in Winnipeg. For this event we paired up with the Children’s Hospital and ran a toy drive at the event which collected over 150 toys for kids! Many thanks goes out to MSP, CPhM, the Faculty of Pharmacy and the Student Association for their generous support in making this event possible. In December, class presidents paired up with the UMSU Hamper program and were able to send out three large hampers. Last but not least the first ever “Banny Bowl” was held in early February. It was a joint event between the Faculties on the Bannatyne campus and included a hockey tournament followed by a social with all proceeds going to the WISH Clinic. As we move forward together as the Faculty of Health Sciences our hope is that this fundraiser will build on its success and become an annual event.

Academically, our faculty has had some notable accomplishments at the Professional Development Conference in Vancouver. In the compounding competition, the 4th year team of Ashley Ewasiuk, Jillian James, Steve Burcynski and Heidi Marschall were awarded a very respectable 4th place. A big congrats goes out to Heidi Marschall (4th year) whom placed 1st in the national patient interview competition. She then went on to attend World Congress in Porto, Portugal and placed top 3 in the patient interview competition, and 1st place in the clinical skills competition!

The Class of 2014 spent the fall fundraising for grad with bake sales, show and save books, a wine raffle and the Halloween-themed social. The grad dinner and dance was fantastic and due to our successful fundraising, it was decided that the remaining money will be used to create a Class of 2014 Bursary.

The largest change this year was the announcement of the amalgamation of Pharmacy into the Faculty of Health Sciences. The co-sticks of the Faculties involved have met on numerous occasions to collaborate on how we can maintain our autonomy as councils, yet strengthen our inter-professional network. Despite the challenges during this process, there are many positive changes that will be implemented in the coming years for our students.

It has been my pleasure being the leader of such a hard-working, collaborative and successful student council. Over the past two years I have seen these council members continually bring new ideas to the table and challenge the student body to become advocates for the profession of pharmacy. I hope that in the coming years UMPhSA will build on that reputation within the Faculty of Health Sciences and in the community at large.

Sincerely,

Jillian James
Senior Co-Stick, Faculty of Pharmacy
**Undergraduate Student Awards**

Jacy Howarth and Jenna Hawkins: Pharmacy Class of 1966 Scholarship. Completion of 1st or 2nd year with high academic standing (min GPA 3.5) and demonstrated leadership & involvement in extra-curricular activities (by letter of application)

Jenny Fehr, (Year 1): Doreen O’Donnell Memorial Scholarship. Highest standing in first year pharmacy

Dana Kowal, (Year 1): Sanofi-Aventis Canada Scholarship. Academic merit in first year pharmacy (min. GPA 3.00)

Taylor McVannel, (Year 1): William G. Eamer/Manitoba Pharmaceutical Association Scholarship. Academic excellence and demonstrated social responsibility and personal initiative through active participation in student government or other student community service [FOUR AWARDS are granted]

Erika Hartel, (Year 1): Dr. D. McDougall Memorial Scholarship. Outstanding merit in Fundamentals of Pharmaceutics (PHRM1300)

Jenny Fehr and Nahyun Chapman (Year 1): Procurity Pharmacy Services Inc. Award. Outstanding merit (great aptitude) in Skills Lab I (PHRM1100); obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5. [TWO AWARDS are granted]

Marlena Stewart and Nicholas Malzahn, (Year 2): Procurity Pharmacy Services Inc. Award. Outstanding merit in Skills Lab II (PHRM2100); Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5. [TWO AWARDS are granted]

Andrew Kraemer, (Year 2): Petrasko Award of Excellence for Clinical Pharmacy 1. For a student who has completed second year of the B.Sc. in Pharmacy with high academic standing and shown outstanding merit in Clinical Pharmacy I

Alexis Wanner, (Year 2): Bletcher Memorial Scholarship. High standing in second year pharmacy

Jacy Howarth, (Year 2): William G. Eamer/Manitoba Pharmaceutical Association Scholarship. Academic excellence and demonstrated social responsibility and personal initiative through active participation in student government or other student community service [FOUR AWARDS are granted]

Mariam Jarkas, (Year 2): Manitoba Pharmaceutical Association Scholarship. Outstanding merit in second year pharmacy

Doris Cheung, (Year 2): Joseph & Sylvia Lavitt Award in Pharmacy. For a student enrolled full-time in the third year of the B.Sc. Pharmacy and in good academic standing

Jenna Hawkins, (Year 2): Sanofi-Aventis Award in Law & Ethics. Highest academic standing in the jurisprudence section of PSL-2 PHRM2100

Jacy Howarth, (Year 2): Stewart G. Wilcox Award. Completion of the second year of the program in the Faculty of Pharmacy with high academic standing and achieving the highest standing in the course
Undergraduate Student Awards ... cont.

PHRM2100: Jurisprudence Section
Felicia Foster, (Year 2): Mrs. Ethel Roberts Memorial Prize. Outstanding merit in second year pharmacy [Not tenable with other awards]
Kyra Skrupski, (Year 2): Manitoba Pharmacists’ Women’s Auxiliary Scholarship. Outstanding merit in second year pharmacy
Vanessa Kowbel, (Year 2): Donald J. Forsyth Memorial Scholarship. Outstanding merit in second year pharmacy
Jasmine Duthie, (Year 2): Mary & Joe Zeal Price. Outstanding merit in second year pharmacy
Emily Wright, (Year 2): Isbister Scholarship in Pharmacy. Highest standing in any year (first, second, third)
Riley Love, (Year 3): Dr. A.W. Hogg Undergraduate Scholarship. Highest standing in the Faculty of Pharmacy
Ruth Habte, (Year 3): The Mike Kupfer Memorial Award (student nominated). Participated in student activities; demonstrated high degree of empathy of fellow students
Jasdeep Sandhu and Daniel Rossi (Year 3): Procurity Pharmacy Services Inc. Award. Outstanding merit in Skills Lab III (PHRM3100); Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5. [TWO AWARDS are granted]
Joel Hart, (Year 3): Novopharm Ltd. Scholarship in Medicinal Chemistry. Highest aggregate standing in first, second and third year medicinal chemistry
Kevin Chaboyer, (Year 3): Harry Singer Memorial Medal. High academic standing and demonstrated outstanding merit in the second & third year Skills Lab in the patient counseling component; minimum cumulative GPA 3.5
Laura Newlands, (Year 3): Bonnie Schulz Memorial Scholarship. Outstanding merit in the Standardized Patient streams of PSL-1, 2 and 3 with particular emphasis on the Drug Information Component.
Kristen Poncsak (Year 3): Natural Medicines Comprehensive Database Prize in Pharmacy. High academic standing and demonstrated promise in improving patient care and an appreciation for scientific inquiry and an evidence-based approach to evaluating natural medicines
Alexis Wanner, (Year 3): Professional Development Week Award. For a student who has demonstrated involvement in student-related activities in the Faculty, professional pharmaceutical organizations, and/or volunteer activities; given to a second or third year student who is in good standing in the Faculty of Pharmacy
Kristen Poncsak, (Year 3): William G. Eamer/Manitoba Pharmaceutical Association Scholarship. Aca-
Undergraduate Student Awards ...

demic excellence and demonstrated social responsibility and personal initiative through active participation in student government or other student community service [FOUR AWARDS are granted]

Alexis Wanner (Year 3): The Doreen Ash Memorial Prize (student nominated). For a student active in available sports programs, social programs and student activities of the faculty with at least one year of Pharmacy

Riley Love (Year 3): Manitoba Pharmaceutical Association Silver Medal in Third Year Pharmacy. Highest standing in third year pharmacy

Riley Love, (Year 3): Novopharm Ltd. Award in Biopharmaceutics/Pharmacokinetics. Highest aggregate standing in Biopharmaceutics (2270), Pharmacokinetics (2280) & Clinical Pharmacokinetics (3500)

Tyler Campbell, (Year 3): Sheppy I. Adler Memorial Scholarship. Best major project (essay, oral presentation or display) in Natural Health Products (PHRM3430)

Joel Hart, (Year 3): Flexon Silver Medal. Highest aggregate standing in Medicinal Chemistry courses

Joel Hart, (Year 3): Dr. Roman (Roy) Bilous Scholarship. High academic standing for a FT student completing third year who has achieved high academic standing in the Medicinal Chemistry subject stream: PHRM2220 & PHRM3220

Jaclyn Deonarine, (Year 3): Canadian Pharmacists Association Centennial Award. Student Council nominates a third year student for the award, who promotes the faculty and profession, is actively involved with student council and other local/provincial associations, who participates in student athletics and other extracurricular activities, is in good academic standing, and is a CPA student Member.

Kaeleigh Bowdon, (Year 4): Audrey Koz Memorial Prize. Outstanding merit in Clinical Pharmacy 3 (PHRM 4310) and SPEP-4 (PHRM4700)

Heather Bourns, (Year 4): David Stern Memorial Scholarship. Highest standing Pharmacy Practice Management (PHRM4230) and who plans to pursue a career in retail pharmacy

Jillian James, (Year 4): Dr. D. McDougall Memorial Trophy (student nominated). Good scholastic standing throughout undergraduate years, citizenship and dedication

Kathryn Peterson, (Year 4). Pharmacy Class 2009 – Passion & Commitment award. Successfully completed the requirements for the BSc. Pharmacy program with a minimum degree grade point average of 3.0, & a strong record of community service within the broader community, the Faculty of Pharmacy, and/or the University

Peter Stockmann and Louis Chute, (Year 4): Outstanding paper in the Electives Course (PHRM4800). PS: “Canadian Do Not Crush list,” preceptor: Dr. Shawn Bugden. LC: “Prescription Stimulant Abuse: A Growing Problem in Youth and Young Adults,” preceptor: Dr. Sheri Fandrey
Undergraduate Student Awards ... cont.

Heidi Marschall, (Year 4): Dr. J.R. Murray Scholarship. After completing Manitoba Grade 12 proceeded to 1st year Science in a Manitoba University; Minimum GPA 3.5; High standing in all years of the program; Has participated in extra-curricular activities

Michelle Hryciw, (Year 4): Manitoba Branch – Canadian Society of Hospital Pharmacists Award. Outstanding merit in Clinical Pharmacy 3 (PHRM4310) and SPEP-4 (PHRM4700)

Heather Bourns, (Year 4): University Gold Medal. Highest standing in Pharmacy; Based on degree GPA

Heather Bourns, (Year 4): MPhA Gold Medal in fourth year Pharmacy. Highest GPA during second, third, & fourth year (pharmacy courses only)

Heather Bourns, (Year 4): Abraham Schwartz Prize. Highest standing in B.Sc. (Pharm)

Heather Bourns, (Year 4): Mark Rose Memorial Book Prize. Highest standing in B.Sc. (Pharm)

Heather Bourns, (Year 4): MPhA President’s Prize. Outstanding merit in fourth year pharmacy courses

Heidi Marschall, (Year 4): MPhA Silver Medal. Second highest GPA second, third, fourth year pharmacy courses only.

Dorota Jaworski and Morgan Albisser (Year 4): Procurity Pharmacy Services Ltd. Award (2). Highest standing in PHRM4230 Pharmacy Practice Management

Ashley Ewasiuk, (Year 4): Langley Jones Leadership Award (student nominated). For aptitude for community pharmacy and consumer health care products and leadership qualities

Heather Bourns, (Year 4): Frank Edick Memorial Prize. Highest standing in Clinical Pharmacy 3 (PHRM4310)

Heather Bourns, (Year 4): Halsey A. Park Memorial Prize. For outstanding merit in the aggregate of clinical pharmacy (PHRM 3310 & PHRM 4310); active participation in the life of the University and a promise of advancing the profession
Undergraduate Student Awards ... cont.

Dean’s Honour List

Year 1
Tran, Jackson
Gille, Joseph
Jantz, Katherine
McVannel, Taylor
Walker, Lyndon

Year 2
Kusno, Alby
Kraemer, Andrew
Cheung, Doris
Howarth, Jacy
Malzahn, Nicholas
Stewart, Marlena
Buchok, Matthew
Wright, Emily

Year 3
St. Goddard, Nicholis
Habte, Ruth
Dudych, Alysha
Hart, Joel
Love, Riley

Year 4
Lee, Nicole
Jaworski, Dorota
Scott, Megan
Peterson, Kathryn
Li, Amanda
Marschall, Heidi
Britton, Kristjana
Ewasiuk, Ashley
Martens, Corina
Adiong, John
Chung, Phillip
Sidhu, Navdeep
Albisser, Morgan
James, Jillian
Bourns, Heather

Class of 2014
2013 Employer Survey Conducted by the Faculty’s Program Evaluation Committee

In the spring of 2013, the Program Evaluation Committee’s Dr. Cheryl Kristjanson conducted a survey with Manitoba pharmacists. The survey asked questions about the skills and preparedness of newly graduated pharmacists from the University of Manitoba, and the expectations of and suggestions for these new professionals. The results were compiled and assessed to assist with curriculum mapping and overall teaching methods to ensure our graduates are prepared to meet the needs of employers.

The survey contacted 50 pharmacists who provided their overall impression of the knowledge and performance of graduates who joined the workforce within the last 5 years. Of these, 8 had not supervised recent graduates. 79% of the pharmacists worked in community pharmacies and 16% in hospitals. 66% were urban locations and the other 34% were located rurally in Manitoba. The large majority (91%) of the supervising pharmacists were U of M grads themselves.

There were three main parts of the survey: Learning objectives, Competence and Written Feedback. Answers were to be based on all U of M graduated licensed pharmacists that one had supervised in the past 5 years at a professional level (not SPEP placements).

Supervising pharmacists were asked a series of multiple choice questions related to the importance of a specific learning objectives, like management and communication, in their own pharmacy practice. They ranked from “Very Important” to “Not important”. Communication was rated high with 83% of responses as Very Important and the other 17% as Important. Professionalism and valuing the pharmacy profession was ranked Very Important by 67% of respondents and Important by 31%.

Survey participants provided competence assessments for a variety of skills and ranked the proficiency of recent graduates as “Skilled”, “Functional”, “Novice” or “not applicable”. The topics were aligned with the national educational outcomes for Canadian pharmacy programs as: Care Provider, Communicator, Collaborator, Manager, Advocate, Scholar, and Professional. For the majority of these, our graduates were “Functional” with a smaller percentage ranked as “Skilled”. In the Management category our graduates received more “Novice” rankings. Topics related to the use of management skills (41% novice) and financial management (41% novice) showed our graduates as less proficient.

Each survey asked supervising pharmacists for their overall assessment of our recent graduates. 23% rated them as Excellent and 48% as Very Good. 13% and 16% rated them as Good and Satisfactory while our graduates received no Unsatisfactory ratings.

The three major strengths of our program were seen as our graduates’ knowledge base, our Faculty’s professors and our SPEP. These were encouraging to see as we have focused significant efforts to develop and support these areas. The two areas for further improvement were seen in certain Communication Skills and Management Skills. This information is valuable as we continue to adapt our program for the current and future needs of our students and the profession.
**Student Travel**

**Student-Led National Clinics Conference**

By Katlyn Taylor, 2nd year Pharmacy student

The Winnipeg Interprofessional Student-run Health (WISH) Clinic was established in 2009 as a unique collaboration between the University of Manitoba and Mount Carmel Clinic in the Point Douglas community. WISH strives to offer holistic after-hours health and social services to the community. In addition to being a valuable community resource, WISH also creates interprofessional service learning opportunities for U of M health sciences students. In the clinic volunteers are paired interprofessionally to work through clinical cases, supervised by professional mentors. Volunteers may also choose to become involved in many facets of the clinic such as planning events and organizational management. As such, student-run clinics provide an opportunity for students to further develop skills they learn in the classroom while making a tangible difference in an identified community. As a participating member, the College of Pharmacy has seen many students take on leadership positions in establishing the clinic, during clinic hours, and behind the scenes on the Student Executive Council.

WISH is not the only student-run clinic in Canada – there are a total of eight from coast to coast. In early July 2014, 5 established clinics and 2 upstart clinics came together in Toronto to attend the Student-led National Clinics of Canada Conference (SNaCC) which is an annual event for representatives from student-run clinics to meet and discuss clinic operations. The conference included annual updates on achievements and challenges facing the clinics. We were able to tour the host clinic (IMAGINE) and surrounding community. The conference concluded with round table discussions on topics ranging from community engagement to mentor relations and volunteer management.

As a WISH volunteer for 4 years, it was eye-opening to see how other Canadian clinics were structured and their approach to the community and health. I came to realize how WISH stands out nationally as a thoroughly interprofessional clinic with volunteers from over 9 academic backgrounds.

Furthermore, one of WISH’s strengths as a community health resource and learning opportunity for students is the extension of interprofessionalism in both clinical and social programming. WISH places a strong emphasis on the social aspect of health and integrates this into the clinic with the community room activities and other programming events that are offered directly alongside clinical...
Conference ctd

services. This is a different approach taken by WISH in comparison to some other clinics. We feel that it allows for greater range of services offered to the community as well as interprofessional opportunities for students. Learning about the social determinants of health is a focus for all the colleges in the Faculty of Health Sciences. Looking forward, we hope to further expand student involvement in WISH beyond health sciences students to include Social Work, Science, Arts, and Business.

I would like to thank the College of Pharmacy for providing financial support in making my attendance at this conference possible.
New Zealand Elective Project

In 4th year Pharmacy, students participate in an Elective Project course. They select an area of pharmacy that interests them personally and are responsible for finding a location to study this. During the 7 weeks, students will work on their project under the supervision of a preceptor and produce a paper. Many students travel for their Elective Project. Here is the story of one group of students who chose to study in New Zealand.

By Amanda Li, Kenzie Nemez, Derrin Schroeder, & Kristjana Britton, 4th Year Pharmacy Students

Our elective project was conducting a research project entitled “Analysis of Medications Returned to a Dunedin Pharmacy” at the University of Otago in Dunedin, New Zealand. We collected the unused medications that patients brought back to the pharmacy for disposal and had the patients complete an optional questionnaire. We explored the consequences of unused medications in the community; these included economic concerns, environmental concerns and patient safety concerns. In our analysis, we quantified each medication by volume (# of tablets, capsules, etc) and value (NZD as per formulary) and complied the questionnaires. Our goal was to find out the most common reasons for the return of unused medications and find ways to reduce medication waste.

The reasons for return of unused medications included improvement/resolved condition, passed expiry date, excess quantity prescribed, change to other treatment, bereavement, and understanding why the medication was prescribed. Based on these responses, we found that there is a need for pharmacists to be involved in reducing medication waste. Patient counselling should always be provided so patients know why they are taking a medication and pharmacists should provide appropriate monitoring parameters and follow up to ensure that a condition has been resolved. Pharmacists can also discuss the appropriate amount of medication to fill. We found that paracetamol (acetaminophen) was the most commonly returned medication by volume (1538 tablets), and sunitinib was the highest valued medication returned.

We also had the opportunity to gain understanding of pharmacy practice in New Zealand by spending a day in both a community and hospital pharmacy setting. As a result of our research we learned more about New Zealand’s nation-wide formulary. PHARMAC is the government agency that negotiates with drug companies to be the sole provider of a certain medication.
New Zealand Project ...ctd

for a fixed term. Interestingly, these strategies have proven to be very effective and led to the savings of billions of dollars, however problems do arise when drug shortages occur.

Of course, we found time to explore the beautiful and exciting country of New Zealand. We went on many hikes including to the Haruru waterfall, Routeburn key summit, and the Tongariro Crossing, a 19.4 km hike between active and inactive volcanos (also the location of Mt. Doom in the Lord of the Rings movies). We went on an exciting kayaking tour in Bay of Islands (in the rain), as well as both white water and black water rafting. We visited various eco-sanctuaries to appreciate the conservation efforts to preserve the unique wildlife and vegetation that calls New Zealand home. We had the opportunity to see royal albatross, blue penguins, yellow eyed penguins, seals and much more! We also enjoyed learning about the history of New Zealand and the culture of the Maori people. There are many influences of Maori culture such as names for cities, Maori landmarks and stories, and some Maori words or phrases are still used in conversation today.

We had an amazing time in New Zealand conducting our research project and exploring the country. We would recommend any students who are interested in travelling for their elective or finding their own project/placement to go for it - the experience is unforgettable!
In August 2014 I attended the International Pharmaceutical Students’ Federation (IPSF) world congress held in Porto, Portugal. This annual conference brings together pharmacy students from around the world to discuss current issues relating to pharmacy practice, new advancements in health care, and of course to socialize, meet new people and have fun!

The conference was ten days long. During the day, we attended workshops, symposiums and competitions. The main theme of the congress was translational medicine which focuses on ensuring strategies for disease treatment and prevention are actually implemented in communities. It was interesting to learn how important this field is to advancing health care. Some other focuses of the congress were gene therapy and interprofessional health care and how they both will affect pharmacy practice globally. There were also many small workshops to attend comprising various current topics, including veterinary medicine, pharmacy management and nanotechnology.

The congress also held numerous competitions regarding pharmaceutical matter that all students could enter. These included the individual clinical skills event, similar to a written exam, and a team clinical skills event during which we were given a case and had to identify and solve all the drug related problems. There was an advanced counselling event, compounding competition and team jeopardy. I placed first in the individual clinical skills event and the team clinical skills event, and I was one of four finalists in the advanced counselling event. It was exciting to do so well in at a large world-wide conference while representing the University of Manitoba College of Pharmacy and Canada!

In addition to the academic portion of the conference there was a different social event planned each evening. There were club nights, pool parties and numerous cultural nights. My favourite event was International Night where each team competed to win the case study competition.
country boasted the highlights of their nation such as by bringing cultural food and drink or performing a dance. It was exciting to learn about other countries and was a great way to meet new people.

Meeting so many people from all around the world and learning about pharmacy on a global level made this conference so special. I would like to thank the profession and Faculty for the support that allowed me to participate. I greatly enjoyed my experience at the conference and would highly recommend other students to attend in the future.
Pharmacy Graduate Program Received High Rating

The Faculty of Graduate Studies strives to review all programs offering post-graduate education on a seven year cycle. This review consists of a written self-study report and a site visit by external reviewers. In January 2014 the Faculty of Pharmacy’s Graduate Program was reviewed, and we passed with very positive feedback.

We were reviewed by Dr. Mohsen Daneshtalab, Professor and Associate Dean of Pharmacy from Memorial University, Dr. David Jakeman, Professor and Graduate Coordinator with the College of Pharmacy at Dalhousie University and Dr. Janice Dodd, Professor of Physiology at the University of Manitoba. The reviewers spent two days at the Apotex Centre and met with staff and students to gain a holistic understanding of graduate-level education in pharmacy.

One of the key points noted in the reviewers’ report to the Faculty of Graduate Studies was the impressive quality of our graduate students, particularly the number of practicing pharmacy professionals who have chosen to return to post-graduate education. 25% of the graduate students currently enrolled are practicing pharmacists. The opportunity to contribute to the greater field of pharmacy was a main draw for many students. The reviewers stated “This is an impressive percentile, and any unit elsewhere in the country would likely be proud of that proportion.”

Another aspect deemed “a significant strength” was our Alumni. The Faculty of Pharmacy strives to involve Alumni in our annual seminar series and as preceptors for our undergraduate students. The reviewers noted this was impressive and would help graduates remain connected to their institution in a meaningful way.

The reviewers made concrete recommendations to make our program even better. These suggestions are being investigated by the Pharmacy Graduate Program Committee. We look forward to implementing positive changes to the Faculty of Pharmacy’s Masters and Ph.D. programs. For more information on Graduate Studies in Pharmacy, see our website at www.umanitoba.ca/pharmacy.
Graduate Studies Committee Report 2013-2014

Faculty of Pharmacy, Graduate Studies Committee:
Dr. Hope Anderson, Chair
Dr. Shawn Bugden
Dr. Frank Burczynski
Dr. Yuewen Gong
Dr. Brian Hasinoff
Ms. Stephanie Martinez, graduate student representative
Ms. Lisa Zhang, Ms. Usha Pammi, Ms. Paola Cordova, administrative support

1. OVERVIEW OF FACULTY OF PHARMACY GRADUATE ACTIVITIES FOR 2013-2014

Summary of Graduate Students, as of June 1, 2014

<table>
<thead>
<tr>
<th>M.Sc.</th>
<th>Ph.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of continuing graduate students, as of June 1, 2014</td>
<td>12</td>
</tr>
<tr>
<td>Number of incoming graduate students</td>
<td>5</td>
</tr>
<tr>
<td>Total number of graduate students</td>
<td>17</td>
</tr>
</tbody>
</table>

New Students, 2013-2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Divna Calic</td>
<td>M.Sc.</td>
<td>Dr. Sheryl Zelenitsky</td>
<td>January 2014</td>
</tr>
<tr>
<td>Mr. Kevin Friesen</td>
<td>M.Sc.</td>
<td>Dr. Shawn Bugden</td>
<td>January 2014</td>
</tr>
<tr>
<td>Ms. Miral Fumakia</td>
<td>M.Sc.</td>
<td>Dr. Emmanuel Ho</td>
<td>May 2014</td>
</tr>
<tr>
<td>Ms. Sahar Karimzadehnamini</td>
<td>M.Sc.</td>
<td>Dr. Ted Lakowski</td>
<td>January 2014</td>
</tr>
<tr>
<td>Mr. Jordyn Lerner</td>
<td>Ph.D.</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2013</td>
</tr>
<tr>
<td>Mr. Refaat Omar</td>
<td>M.Sc.</td>
<td>Dr. Yuewen Gong</td>
<td>January 2014</td>
</tr>
</tbody>
</table>
### List of Current Master Students, as of June 1, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ms. Tina Khorshid Ahmad</td>
<td>Dr. Mike Namaka</td>
<td>January 2013</td>
</tr>
<tr>
<td>2 Ms. Noor Breik</td>
<td>Dr. Silvia Alessi-Severini</td>
<td>January 2013</td>
</tr>
<tr>
<td>3 Ms. Divna Calic</td>
<td>Dr. Sheryl Zelenitsky</td>
<td>January 2014</td>
</tr>
<tr>
<td>4 Mr. Kevin Friesen</td>
<td>Dr. Shawn Bugden</td>
<td>January 2014</td>
</tr>
<tr>
<td>5 Ms. Miral Fumakia</td>
<td>Dr. Emmanuel Ho</td>
<td>May 2014</td>
</tr>
<tr>
<td>6 Mr. Kevin Hamilton</td>
<td>Dr. Christine Davis</td>
<td>January 2012</td>
</tr>
<tr>
<td>7 Ms. Sarita Jha</td>
<td>Dr. Silvia Alessi-Severini</td>
<td>May 2011</td>
</tr>
<tr>
<td>8 Ms. Sahar Karimzadehnamini</td>
<td>Dr. Ted Lakowski</td>
<td>January 2014</td>
</tr>
<tr>
<td>9 Mr. Ryan Lillico</td>
<td>Dr. Lean Chee, then Dr. Ted Lakowski</td>
<td>May 2012, then May 2013</td>
</tr>
<tr>
<td>10 Mr. Refaat Lillico</td>
<td>Dr. Yuewen Gong</td>
<td>January 2014</td>
</tr>
<tr>
<td>11 Ms. Siyan Wang</td>
<td>Dr. Lean Chee, then Dr. Frank Burczynski</td>
<td>May 2012, then May 2013</td>
</tr>
<tr>
<td>12 Ms. Zhanni Weber</td>
<td>Dr. Sheryl Zelenitsky</td>
<td>September 2012</td>
</tr>
</tbody>
</table>

### List of Current Ph.D. Students, as of June 1, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ms. Bolanle Akinwumi</td>
<td>Dr. Hope Anderson</td>
<td>September 2012</td>
</tr>
<tr>
<td>2 Mr. Yufei Chen</td>
<td>Dr. Emmanuel Ho</td>
<td>May 2011</td>
</tr>
<tr>
<td>3 Mr. Jordyn Lerner</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2013</td>
</tr>
<tr>
<td>4 Ms. Yan Lu</td>
<td>Dr. Hope Anderson</td>
<td>September 2010</td>
</tr>
<tr>
<td>5 Mr. Sarandeep Malhi</td>
<td>Dr. Xiaochen Gu</td>
<td>May 2013</td>
</tr>
<tr>
<td>6 Ms. Stephanie Martinez</td>
<td>Dr. Neal Davies</td>
<td>January 2012</td>
</tr>
<tr>
<td>7 Mr. Casey Sayre</td>
<td>Dr. Neal Davies</td>
<td>September 2011</td>
</tr>
<tr>
<td>8 Ms. Sidi Yang</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2011</td>
</tr>
</tbody>
</table>

### List of Expected Incoming Students, as of June 1, 2014

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mr. Juliano Amador da Silva</td>
<td>M.Sc.</td>
<td>Dr. Shawn Bugden</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Yuhua Fang</td>
<td>M.Sc.</td>
<td>Dr. Geoffrey Tranmer</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Danielle Lee (pending PGSC approval)</td>
<td>M.Sc.</td>
<td>Dr. Hope Anderson</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Dinghua Liang</td>
<td>M.Sc.</td>
<td>Dr. Geoffrey Tranmer</td>
<td>September 2014</td>
</tr>
<tr>
<td>Mr. Yannick Traore</td>
<td>M.Sc.</td>
<td>Dr. Emmanuel Ho</td>
<td>September 2014</td>
</tr>
<tr>
<td>Ms. Jiaqi Yang</td>
<td>M.Sc.</td>
<td>Dr. Yuewen Gong</td>
<td>September 2014</td>
</tr>
</tbody>
</table>
2. FACULTY OF PHARMACY GRADUATE ACHIEVEMENTS FOR 2013-2014

**Graduates**

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Examining Committee</th>
<th>Oral Defence</th>
<th>Graduation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Crystal Acosta</td>
<td>M.Sc.</td>
<td>Dr. Mike Namaka¹ Dr. Frank Burczyński²</td>
<td>March 25, 2014</td>
<td>May, 2014</td>
</tr>
<tr>
<td>Ms. Basma Aloud</td>
<td>M.Sc.</td>
<td>Dr. Hope Anderson¹ Dr. Lavern Vercaigne² Dr. Thomas Netticadan³</td>
<td>September 12, 2013</td>
<td>February, 2014</td>
</tr>
<tr>
<td>Ms. Samaa Alrushaid</td>
<td>M.Sc.</td>
<td>Dr. Neal Davies¹ Dr. Brian Hasinoff² Dr. Frank Schweizer³</td>
<td>April 17, 2014</td>
<td>October, 2014</td>
</tr>
<tr>
<td>Ms. Dana Turcotte</td>
<td>Ph.D.</td>
<td>Dr. Mike Namaka¹ Dr. Lavern Vercaigne² Dr. Rob Ariano³ Dr. Malcolm Doupe³ Dr. Jack Antel⁴</td>
<td>January 8, 2014</td>
<td>May, 2014</td>
</tr>
<tr>
<td>Ms. Tao Wang</td>
<td>Ph.D.</td>
<td>Dr. Xiaochen Gu¹ Dr. Brian Hasinoff² Dr. Frank Burczyński² Dr. Don Miller³ Dr. Adil Nazarali⁴</td>
<td>February 21, 2014</td>
<td>May, 2014</td>
</tr>
</tbody>
</table>

¹Advisor; ²Internal Committee Member; ³External Committee Member (University of Manitoba); ⁴External Committee Member (non-University of Manitoba)

**Candidacy Exams**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Date of Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yufei Chen</td>
<td>Dr. Emmanuel Ho</td>
<td>May 3, 2013</td>
</tr>
<tr>
<td>Casey Sayre</td>
<td>Dr. Neal Davies</td>
<td>May 28, 2013</td>
</tr>
</tbody>
</table>

**Ph.D. Thesis Proposals**

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Date of Proposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephanie Martinez</td>
<td>Dr. Neal Davies</td>
<td>December 13, 2013</td>
</tr>
<tr>
<td>Sarandeep Malhi</td>
<td>Dr. Xiao Chen Gu</td>
<td>April 29, 2014</td>
</tr>
<tr>
<td>Jordyn Lerner</td>
<td>Dr. Emmanuel Ho</td>
<td>April 30, 2014</td>
</tr>
<tr>
<td>Sidi Yang</td>
<td>Dr. Emmanuel Ho</td>
<td>May 1, 2014</td>
</tr>
</tbody>
</table>
v. Publications – Papers published or in press

**Acosta C.** Antigenic induction of nerve growth factor (NGF) in experimental autoimmune encephalomyelitis (EAE), an animal model of multiple sclerosis (MS). Bentham Science Hindawi Publishing IBIMA Publishing


Gong Y, Wang G, Gong Y, Yan, **Chen Y,** Burczynski FJ. Hepatoprotective role of liver fatty acid binding protein in acetaminophen induced toxicity. BMC Gastroenterology, 14, 44. 2014.
Lu Y, Akinwumi BC, Shao Z, Anderson HD. Ligand activation of cannabinoid receptors attenuates hypertrophy of neonatal rat cardiomyocytes. 2014. [Accepted by Journal of Cardiovascular Pharmacology]


vi. Presentations; Conference Participation


Khorshid Ahmad T, Acosta C, Cortes C, Altaweel K, Ethans K, Rastegar M, Namaka M, “Regulation of re-myelination and/or myelin repair by methyl CpG binding protein 2 (MeCP2) and brain derived neurotrophic factor (BDNF) in an experimental autoimmune encephalomyelitis (EAE) model of multiple sclerosis (MS)”. Poster endMS neuroinflammation symposium. Toronto, Canada. Feb 2014.

Lu Y. “Dual agonism of peripheral cannabinoid CB1/CB2 receptors suppress cardiac myocyte hypertrophy.” Experimental Biology Meeting. 2014. San Diego, USA. Poster presentation.

Lu Y. "Liganded Cannabinoid Receptors Suppress Cardiac Myocyte Hypertrophy and Mitochondrial Depolarization: Role of AMP-activated protein kinase (AMPK)." American Heart Association Basic Cardiovascular Scientific Session. 2013. Las Vegas, USA. Poster presentation


3. FACULTY OF PHARMACY GRADUATE STUDIES COMMITTEE DECISIONS AND UPDATES

On Pharmacy Graduate Program Review—

The Faculty was notified on February 1, 2013 that the M.Sc. and Ph.D. programs in the Faculty of Pharmacy are among the graduate programs selected to undergo a second cycle of review. Timeline of the review was as follows:

- October 18, 2013 - Faculty of Pharmacy Graduate Program self-study report and list of proposed reviewers was submitted to the Faculty of Graduate Studies (FGS).
- November 1, 2013 – The Dean of Pharmacy submitted his comments on the strategic direction of the faculty relative to the program being reviewed.
- February 5, 2014 – Reviewers’ Report Received: Of the three possible categories (I – continue as is; II – requires minor revision or restructuring to enhance effectiveness or appeal; III – major change, restructuring or amalgamation required to continue), the reviewers selected I – continue as is.
- April 22, 2014 – Pharmacy’s Response to the Reviewers’ Report was submitted to FGS, followed by the (Budget) Dean’s plan for revising/restructuring the program as needed.
- May 29, 2014 – Pharmacy Graduate Chair met with Dr. Archie McNicol (Associate Dean, FGS) prior to submission of his report to Dean Jay Doering (FGS) and Dr. David Collins (Vice-Provost - Integrated Planning and Academic Programs).
- June 9, 2014 – FGS response (i.e. Dr. Archie McNicol) was submitted to Dr. David Collins (Vice-Provost (Integrated Planning and Academic Programs) and Dr. Gary Glavin (Associate Vice-President [Research])

On Pharmacy supplemental regulations—

FGS announced revisions to the Academic Guide effective September 1, 2013, and Pharmacy supplemental regulations were revised to reconcile with FGS changes. The revised supplemental regulations were approved in February, 2014.
Leslie F. Buggey Professorship makes history at the Faculty of Pharmacy

By Lisa Thomson Stifora, Donor Relations

Thanks to the vision and generosity of Dr. Joanne Buggey and her family, the Faculty of Pharmacy has reached a watershed moment with the creation of the Leslie F. Buggey Professorship in Pharmacy. This is the Faculty’s first-ever endowed research professorship.

The inaugural Leslie F. Buggey Professor is Dr. Keith Simons, a well-respected longtime faculty member. Dr. Simons joined the faculty in 1975 as an Assistant Professor. He moved up the ranks and has held a number of high-profile positions, including Associate Dean (Research) from 2004 to 2009.

“I am greatly honored to be awarded the first Leslie F. Buggey Professorship in Pharmacy at the University of Manitoba,” says Dr. Simons. “I hope that when my ongoing research is presented and published, that being identified as the Leslie F. Buggey Professor will provide recognition of the contributions of Dr. Buggey and other members of the Buggey family in memory of Leslie F. Buggey’s career as a valued member of the pharmacy profession.”

The Professorship will make an enormous impact on research at the Faculty of Pharmacy. Dr. Simons has been able to focus his time and energy on research while limiting his undergraduate teaching hours. Those who follow him in the position will enjoy the same benefits. The professorship will also act as a magnet to attract talented young graduate students (who may also receive the Buggey family’s support). (ctd on next page)
This will provide an additional incentive to support the robust Pharmacy research program, which would have made Leslie Buggey very happy. A graduate of the University of Manitoba Pharmacy program in 1925, Buggey went on to enjoy a long and fruitful career as a groundbreaking pharmaceutical salesman in Canada and the USA.

“My father was very modest, he probably would have said I was going way overboard,” says his daughter, Dr. Joanne Buggey, who established the professorship in his honour.

Her gift will make a tremendous impact through Dr. Simons’ research. His focus is a potential alternative to the recommended epinephrine injection for the first-aid treatment of anaphylaxis in community settings. It has been identified that patients experiencing anaphylaxis, especially children and teenagers fail to use it because they are afraid of needles and injections. Dr. Simons is developing a way to deliver the epinephrine to patients with anaphylaxis using a sublingual tablet formulation. This will not only limit the need for injections, but it is also a more stable form of the drug than the aqueous formulations in the autoinjectors.

Dr. Buggey is thrilled that her father’s legacy will be connected to such pharmaceutical advancements. An accomplished teacher, academic, and children’s book author, Joanne says she could have focused her philanthropy on something that she was interested in, but preferred to celebrate her father’s life. She isn’t finished. There are plans for the Leslie F. Buggey Professorship in Pharmacy to evolve into a fully endowed research chair. A member of the Isbister Legacy Society, Dr. Buggey not only continues to provide regular ongoing support, but has planned a bequest for the university in her will. Her generosity will help the Faculty of Pharmacy to make innovations that create healthier communities well into the future. Additionally, says Dr. Simons, “the name of Leslie F. Buggey will be carried on in perpetuity by Pharmacy professors with outstanding research programs.”
New Bursary for Passionate Students

Archie Orlikow (BSc Pharm/48) had an enthusiasm for the pharmacy profession that lasted for 64 years.

“He loved people and he loved the opportunity to connect with them at the pharmacy. In fact, he was always there, so we were, too. It was our playground when we were kids,” says his son, Jim.

When their father passed away last year, Jim and his brother Bill talked about ways to pay tribute to their father and his dedication to pharmacy. They realized a bursary in his name would be the perfect testament.

“He was big on helping other pharmacists and students, so offering financial aid to a student in need was consistent with his beliefs,” says Jim. “That the university was able to obtain matching funds (through the Manitoba Scholarship and Bursary Initiative program) was a great surprise. We were thrilled.”

The Archie Orlikow Memorial Bursary will be offered to one full-time student every school year who writes a letter which best outlines their understanding of the pharmacy profession and their potential role in benefitting the communities they will serve.

The deserving student would do well to emulate Archie Orlikow as a great example of a successful pharmacist. He dedicated his life to retail pharmacy, usually working six days a week, fifty weeks a year throughout his career. He first worked at the original Broadway Pharmacy, and then at Saunderson Drugs in the North End, which he purchased and renamed Orlikow Drugs.

He was a powerful advocate as well, and served on the Province of Manitoba’s Advisory Committee on Drug Purchasing, the Interchangeable Drug Formulary and Pharmacare. His illustrious career was recognized in many ways, including a lifetime membership with the Manitoba Pharmaceutical Association, the Manitoba Pharmacist of the Year award, and the Queen’s Golden Jubilee Medal.

“He and my mom went to every pharmacy convention every year for more than 50 years. It was really his life and his passion, and hers too, she supported him all the way,” says Jim. “We’re excited to carry that on and support an ambitious student in pursuing their dreams of a career in pharmacy.”

The Archie Orlikow Memorial Bursary will be awarded for the first time in the fall of 2014.
Endowment Committee

The Pharmacy Endowment Committee met on October 28, 2013 to consider the endowment requests that were submitted from Pharmacy faculty, staff and students.

Members of the committee consist of the Dean (as chair), four members from the academic staff, a member from MPhA, an undergraduate student co-stick, one graduate student, the technical support manager, and a senior support staff member. The current members are: Dr. Neal Davies (chair), Nancy Kleiman, Dr. Keith Simons, Dr. Frank Burczynski, Dr. Mike Namaka, Susan Lessard-Friesen (MPhA), Riley Love (third year co-stick), Dr. Casey Sayre (graduate student), Pat Kopp and Cheryl Lee (recorder).

A list of the approved expenditures and available funds are included below for review.

ENDOWMENT FUND SPENDING 2013-2014

<table>
<thead>
<tr>
<th>REQUEST</th>
<th>REQUEST FROM</th>
<th>AMOUNT APPROVED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catastrophic Fund</td>
<td>Standing Request</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Subsidy 2014 Professional Development Week</td>
<td>Jaclyn Deonarine (CAPSI)</td>
<td>$7,200.00</td>
</tr>
<tr>
<td>Undergraduate student summer research funding</td>
<td>Dr. Yuewen Gong</td>
<td>$24,000.00</td>
</tr>
<tr>
<td>Franz Diffusion Cell Manifold from Perme Gear</td>
<td>Dr. Frank Burczynski</td>
<td>$5,150.00</td>
</tr>
<tr>
<td>Christmas Dinner/ Mr. Pharmacy Pageant</td>
<td>Alanna Doell</td>
<td>3,500.00</td>
</tr>
<tr>
<td>Graduation Dinner Donation</td>
<td>P. Stockmann &amp; A. Marcinkow</td>
<td>$5,000.00</td>
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<tr>
<td><strong>TOTAL APPROVED</strong></td>
<td></td>
<td><strong>$ 49,850.00</strong></td>
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<tr>
<td>Balance remaining of endowment funds</td>
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<td><strong>$ 1,117.00</strong></td>
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## Endowment Fund ...

### Catastrophic Research Fund

<table>
<thead>
<tr>
<th>Year-End</th>
<th>Opening Balance</th>
<th>Interest</th>
<th>Expenses</th>
<th>Amount Spent</th>
</tr>
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<tr>
<td>2004-05</td>
<td>28,102</td>
<td>5,000</td>
<td>HPLC major repair (X. Gu)</td>
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<td>2005-06</td>
<td>5,000</td>
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<td>2006-07</td>
<td>5,000</td>
<td>5,000</td>
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<td>2007-08</td>
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<td>2008-09</td>
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<td>2011-12</td>
<td>5,000</td>
<td>2,961</td>
<td>Transfer to the Research and Support Fund</td>
<td>35,775</td>
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<td></td>
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<td>December 2011, Tablet Press</td>
<td>5,320</td>
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<tr>
<td>2012-13</td>
<td>5,000</td>
<td>3,781</td>
<td>HPLC repairs (X. Gu)</td>
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<td>2013-14</td>
<td>5,000</td>
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**Funds Available**: 36,422

### Research and Support Fund

<table>
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<tr>
<th>Year-End</th>
<th>Opening Balance</th>
<th>Interest</th>
<th>Expenses</th>
<th>Amount Spent</th>
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<td>2011-12</td>
<td>35,775</td>
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<td>Cryostat (HPLC Room 328)</td>
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<td>Biosafety Cabinet (Zelenitsky/Iacovides Lab)</td>
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<tr>
<td>2012-13</td>
<td>0</td>
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</tr>
<tr>
<td>2013-14</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</table>

**Funds Available**: 174

Catastrophic Research Fund 36,422  
Research and Support Fund 174  

**TOTAL** 36,596
Alumni from the class of 1963 and 1973 celebrated their 40\textsuperscript{th} and 50\textsuperscript{th} anniversary during homecoming weekend from September 27\textsuperscript{th} to 30\textsuperscript{th}. Alumni still residing in Winnipeg were reunited with their classmates from several of the United States including Montana, Florida and New York, as well as other Canadian provinces such as Ontario and British Columbia. Alumni residing in Steinbach, Brandon, Hamiota and Deloraine also ventured into Winnipeg to join the festivities.

Alumni partook in various activities such as the Alumni of Distinction lecture presented by the recipient of the award, Dr. Marilyn Morris from the class of 1973 with a reception following the lecture. Members of the Class of 1973 met at the Manitoba Club and reminisced about their time in the pharmacy program. Both classes joined Dr. Neal Davies and former Dean, Dr. John Steele at the Homecoming dinner. The weekend came to a close with members of the class of 1963 attending the annual White Coat ceremony and had the honour of presenting the first year students with lab coats along with members from the class of 1958 and 1966.
Dr. Marilyn Morris: Our Alumnae of Distinction 2013

On September 27, 2013 the Faculty of Pharmacy Outstanding Alumni Award was presented to Dr. Marilyn E. Morris (née Brown). Dr. Morris received a BSc.(Pharmacy) in 1973 from the University of Manitoba’s, Faculty of Pharmacy. She received a M.Sc. (Pharmacology) from the University of Ottawa, Canada. After completing a pharmacy residency program, she held a faculty position in clinical pharmacy at Dalhousie University, Halifax, Canada from 1976 to 1978. Dr. Morris was awarded her Ph.D. degree in pharmaceutics from the State University of New York at Buffalo in 1984 for her work on the pharmacokinetics of sulfate conjugation and inorganic sulfate. She was a Canadian Medical Research Council Fellow (1984-85) working on drug metabolism in isolated perfused organ systems at the University of Toronto, Canada before joining the Department of Pharmaceutical Sciences at the University of Buffalo in 1985.

Dr. Marilyn E. Morris is currently a Professor of Pharmaceutical Sciences, University at Buffalo (UB), State University of New York (SUNY). She is the author of over 160 scientific papers and two books. She also serves on various grant review and advisory panels. Her research interests include drug metabolism and membrane transport. Her recent research is focused on the pharmacokinetics and pharmacodynamics of the dietary components, flavonoids and organic isothiocyanates. Dr. Morris has been an advisor to ten postdoctoral scholars, 25 Ph.D. students, 11 master's students, six bachelor/master's students, as well as Pharm.D., undergraduate and high school students.

Dr. Morris is an Associate Editor for The AAPS Journal, on the Editorial Boards of the Journal of Pharmaceutical Science, Pharmaceutical Research and Biopharmaceutics and Drug Disposition, and is an American Association for the Advancement of Science fellow (2012). Dr. Morris is also an advisory committee member for the United States Food and Drug Administration's Center for Drug Evaluation and Research. A 2006 recipient of the SUNY Chancellor’s Award in Excellence for Research and Creative Activity, she also served as associate dean for graduate and postgraduate education in UB’s Graduate School from 2006-12 where she established the Office of Postdoctoral Scholars.

Dr. Morris is fellow of the American Association of Pharmaceutical Scientists (AAPS) and serves as 2013 AAPS president-elect. She has received the UB Distinguished Postdoctoral Mentor Award from the Graduate School in 2012. A service Award, from the Pharmacokinetics, Pharmacodynamics and Drug Metabolism Section, American Association of Pharmaceutical Scientists (2010) and a Faculty Service Award, Pharmacy Leadership Society, Beta Omicron Chapter, University at Buffalo, (2010).
CPhM Awards 2014

These awards were presented during the annual Manitoba Pharmacy Conference, taking place April 25th – 27th in Winnipeg. The majority of pharmacists honoured were alumni of the University of Manitoba’s Faculty of Pharmacy.

2013 Pharmacist of the Year
W. Gary Cavanagh (1972)

Bowl of Hygeia for outstanding community service
Janice Coates (1973)

Patient Safety Award

Centennial Award
Christopher Louizos (2004), Lavern Vercaigne (1991) and Kimberly McIntosh (2006)

50 Year Gold Pins
J. Dexter Boyd (1964)
Barbara Cinnamon (Wormell) (1964)
Wayne Couling (1964)
Michael Dembinsky (1964)
Richard Stephanchew (1964)
Shirley Surbey (Zealand) (1964)

25 Year Silver Pins
Kenneth Zink (1989)
The Vaccine and Drug Evaluation Centre Profile 2013-2014

In 2012, Dr. Salah Mahmud, Associate Professor of Community Health Sciences and Pharmacy, University of Manitoba and Canada Research Chair in Pharmaco-epidemiology and Vaccine Evaluation established the Vaccine and Drug Evaluation Centre (VDEC) within the Department of Community Health Sciences, Faculty of Medicine, with affiliation with the Faculty of Pharmacy, University of Manitoba.

The Centre is staffed by a team of epidemiologists, data analysts, programmers, research assistants, project coordinators, support staff and students led by Dr. Salah Mahmud. Mr. Dallas Legare was recruited in January 2014 as the Centre Manager and led the transition into the new premises located in the Apotex Centre, 750 McDermot Avenue.

Our mission is to provide timely and high-quality information needed for planning and evaluating vaccine and prescription drug programs, by conducting collaborative research on the uptake, safety and effectiveness of the vaccines and drugs used in Manitoba and Canada.

VDEC consists of a secure computing environment in which to access, assemble, maintain and analyze several large administrative, clinical and research databases focused on drug and vaccine research and program evaluation. The Centre supports several epidemiologic studies involving record linkage, chart reviews, and active data collection from study participants, and facilitates the development and implementation of computer-intensive statistical analysis methods and mathematical models necessary for measuring and understanding the effects of drugs and vaccines. These resources allow the Centre to serve as a hub and a catalyst for multi-disciplinary research focused on the evaluation of drug and vaccine safety and effectiveness; to provide research support to clinicians, public health professionals and researchers working in these areas; to act as a training site for future researchers; and to provide surge capacity to support disease surveillance and program monitoring and evaluation activities conducted by regional and provincial health authorities during public health emergencies (e.g., large infectious disease outbreaks).

Productive research programs are supported in the following areas: cancer chemoprevention; evaluation of vaccine effectiveness and safety; development of novel surveillance methods for early detection of drug and vaccine adverse events; mathematical modeling of the natural history of cancer and infectious diseases, and interactions between prevention strategies such as vaccination, screening and chemoprophylaxis. In addition, the Centre provides excellent opportunities for the recruiting, retaining and training of researchers, and helps create new partnerships and collaborations and strengthen existing ones.

VDEC is providing opportunities for the training of graduate students and other researchers and health professionals by:
- Adding to the visibility of the research programs of the Director and his collaborators, thus increasing awareness and familiarity with this important research field.
- Making available all necessary tools to improve training experiences, providing trainees with the benefit of the vast network of collaborators who are connected to the Centre.
VDEC Profile ... ctd

- Having a significant positive impact on stimulating research and innovation by:
  - Providing access to unique and rich data resources not available elsewhere in Canada.
  - Enhancing partnerships among researchers and organizations with different disciplines and mandates, e.g. cancer control, vaccine delivery, drug safety.
  - Developing and refining critical research methodologies which can be used by researchers in this and other fields.

The Centre has an extensive network of local, national and international collaborations, thereby facilitating research among scholars internal and external to the University. Examples of this network include, but are not limited to:

- The Brighton Collaboration.
- The Canadian Sentinel Influenza Vaccine Effectiveness Network.
- PHAC/CIHR Influenza Research Network (PCIRN).
- The Canadian Network for Observational Drug Effect Studies (CNODES).
- Canadian Network for Public Health Intelligence (CNPHI).
- McGill Centre of Cancer Epidemiology.
- The National Microbiology Laboratory.
- Ontario Public Health Agency.
- British Columbia Centre for Disease Control (BCCDC).
- International Centre for Infectious Diseases (ICID).
- Cadham Provincial Laboratory.
- Manitoba Centre for Health Policy (MCHP).
- University of Manitoba Centre for Global Public Health.
- CancerCare Manitoba.
- The Winnipeg Regional Health Authority.

The operating budget of the Centre is supported by grants from federal and provincial funding agencies (e.g., the Canadian Foundation for Innovations, the Canada Research Chairs Program, CIHR, Manitoba Health Research Council), NGOs (Canadian Cancer Society, International Centre for Infectious Diseases, Prostate Cancer Canada) in addition to governmental (Public Health Agency of Canada) and industry sources.
Faculty of Pharmacy Research Report 2013-2014

Personnel

Usha Pammi is responsible for the administration of the research grant and contract funds. Researchers are reminded to submit all grant applications and other research information to Usha Pammi. In addition, Usha needs a copy of the FAAF to record the research and contract grants for the Faculty of Pharmacy. Usha will inform the researchers and graduate students of impending deadlines for submissions for scholarship and grant applications.

Research Funding

With existence of funding from CIHR and other agencies, researchers in the Faculty of Pharmacy have received funding support from April 1, 2013 to March 31, 2014 for 28 research projects as indicated in the Research tool website. The total project amount is $1,983,569. In addition, some funding not listed in the Research tool from April 1, 2013 to March 31, 2014 are also included in the report. The detailed information can be found below.

<table>
<thead>
<tr>
<th>Sponsoring Agency</th>
<th>Investigator</th>
<th>UM Proj. No.</th>
<th>Project Title</th>
<th>Requested Amount (First Year Only)</th>
<th>Total Project Award Amount</th>
<th>Term Start Date</th>
<th>Term End Date</th>
<th>Number of Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heidenh (D. Elaine) Foundation Inc</td>
<td>Elans, Karen (PI) - 15% Internal Medicine</td>
<td>41272</td>
<td>Regulation of myelin repair by MacT in pediatric non-traumatic spinal cord injury (NTSCI) via the dorsal root ganglia (DRG) - spinal cord (SC) connection</td>
<td>10,000.00</td>
<td>10,000.00</td>
<td>2013-Sep-01</td>
<td>2014-Aug-31</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Namaka, Michael (Co-PI) - 25% Dean's Office - Faculty of Pharmacy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Namaka, Michael (PI) - 100% Dean's Office - Faculty of Pharmacy</td>
<td>42302</td>
<td>Research grant to support the organization called &quot;Manitoba Multiple Sclerosis Research Network&quot;</td>
<td>60,000.00</td>
<td>60,000.00</td>
<td>2014-Feb-01</td>
<td>2015-Jan-31</td>
<td>1</td>
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<tr>
<td>Raytheon Healthcare</td>
<td>Namaka, Michael (PI) - 100% Dean's Office - Faculty of Pharmacy</td>
<td>42302</td>
<td>Research grant to support the organization called &quot;Manitoba Multiple Sclerosis Research Network&quot;</td>
<td>60,000.00</td>
<td>60,000.00</td>
<td>2014-Feb-01</td>
<td>2015-Jan-31</td>
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<tr>
<td></td>
<td>Anderson, Hope (PI) - 70% Dean's Office - Faculty of Pharmacy</td>
<td>41259</td>
<td>Protective mechanisms of endocannabinoids in cardiac hypertrophy</td>
<td>183,414.00</td>
<td>611,905.00</td>
<td>2013-Oct-01</td>
<td>2018-Sep-30</td>
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<td>Barnetson, Paul (Co-PI) - 20% Pharmacology and Therapeutics</td>
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<tr>
<td></td>
<td>Ho, Emmanuel (PI) - 100% Faculty of Pharmacy</td>
<td>41269</td>
<td>Microbiome development and characterization laboratory</td>
<td>391,266.00</td>
<td>128,741.00</td>
<td>2013-Aug-01</td>
<td>2016-Aug-31</td>
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</table>
# Faculty of Pharmacy Research Report 2013-2014...ctd

<table>
<thead>
<tr>
<th>Sponsoring Agency</th>
<th>Investigator</th>
<th>Project Title</th>
<th>Requested Amount (First Year Only)</th>
<th>Total Project Award Amount</th>
<th>Term Start Date</th>
<th>Term End Date</th>
<th>Term Number of Years</th>
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</thead>
<tbody>
<tr>
<td>Anderson (Duane) Foundation Inc</td>
<td>Ethan, Karen (PI)</td>
<td>Regulation of myelin repair by McPP2 in pediatric non-traumatic spinal cord injury (TSCI) via the dorsal root ganglia (DRG) - spinal cord (SC) connection</td>
<td>10,000.00</td>
<td>10,000.00</td>
<td>2013-Sep-01</td>
<td>2014-Aug-31</td>
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<td>Smythore HealthCare</td>
<td>Ramak, Michael (Co-PI)</td>
<td>Research grant to support the organization called &quot;Manitoba Multiple Sclerosis Research Network&quot;</td>
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<td>60,000.00</td>
<td>2014-Feb-01</td>
<td>2015-Jan-31</td>
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<td>CIHR</td>
<td>Anderson, Hope (PI)</td>
<td>Protective mechanisms of endocannabinoids in cardiac hypertrophy</td>
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<td>611,970.00</td>
<td>2013-Oct-01</td>
<td>2018-Sep-30</td>
<td>5</td>
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<td>Canada Foundation for Innovation (CFI)</td>
<td>Ho, Emmanuel (PI)</td>
<td>Microbiodevelopment and characterization laboratory</td>
<td>391,264.00</td>
<td>129,741.00</td>
<td>2013-Aug-01</td>
<td>2014-Aug-31</td>
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<td>Children’s Hospital Foundation of Manitoba Inc.</td>
<td>Liu, Xiaoping (Michelle) (PI)</td>
<td>An epigenetic study of Autism spectrum disorders using monosynaptic twins</td>
<td>40,000.00</td>
<td>40,000.00</td>
<td>2013-Jun-01</td>
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<td>Hanlon-Drummond, Ana (Co-PI)</td>
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<td></td>
<td>Sinard, Louise (Co-PI)</td>
<td>5% Biochemistry and Medical Genetics</td>
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<td></td>
<td>Xu, Wayne (Co-PI)</td>
<td>10% Pharmacy</td>
<td>41323</td>
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<td>Manitoba Health Research Council</td>
<td>Ho, Emmanuel (PI)</td>
<td>To design, develop, and characterize a stable intravaginal film formulation for the targeted delivery of anti-epithelial nanoparticles to immune cells</td>
<td>36,750.00</td>
<td>73,600.00</td>
<td>2013-Jul-01</td>
<td>2015-Jun-30</td>
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<tr>
<td>Manitoba Medical Service Foundation</td>
<td>Lakowski, Theodore (PI)</td>
<td>Targeting immune-specific demethylase for the treatment of breast cancer</td>
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<td>25,000.00</td>
<td>2014-Apr-01</td>
<td>2015-Mar-31</td>
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<td>Manitoba Medical Service Foundation</td>
<td>Tranmer, Geoffrey (PI)</td>
<td>Examining the role of anticonvulsant furosemide in hypoxia as a model system for the development of a hypoxia-activated produrg</td>
<td>25,000.00</td>
<td>20,000.00</td>
<td>2014-Apr-01</td>
<td>2015-Mar-31</td>
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<td>Novartis Pharmaceuticals Canada Inc.</td>
<td>Ramak, Michael (PI)</td>
<td>Transcriptional regulation of brain-derived neurotrophic factor by MeCP2: Implications in maintenance and repair of myelin damage associated with multiple sclerosis (MS)</td>
<td>25,550.00</td>
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<td>University of Calgary</td>
<td>Vercaigne, Laureen (PI)</td>
<td>The BC: KIDN trial reimbursement for data safety monitoring board chairmanship</td>
<td>2,500.00</td>
<td>5,000.00</td>
<td>2012-Oct-01</td>
<td>2018-Sep-30</td>
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<tr>
<td>University of Manitoba</td>
<td>Bugden, Shawn (PI)</td>
<td>The ethical, statistical and policy ramifications of study cross-over in oncology trials</td>
<td>5,000.00</td>
<td>5,000.00</td>
<td>2013-Aug-01</td>
<td>2014-Oct-31</td>
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<tr>
<td>University of Manitoba</td>
<td>Bugden, Shawn (PI)</td>
<td>Risk and response to clozapine cardiac toxicity</td>
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<td>10,000.00</td>
<td>2013-Feb-01</td>
<td>2014-Feb-31</td>
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<tr>
<td>University of Manitoba</td>
<td>Tranmer, Geoffrey (PI)</td>
<td>Development of superior synthetic methods for the synthesis of heterocycles</td>
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<td>7,500.00</td>
<td>2014-Jan-01</td>
<td>2014-Oct-31</td>
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| Total for PI(s) within your faculty: Total Requested Amount (First Year Only): $1,849,090.13 from 28 of 28 projects. | Total Project Award Amount: $2,081,563.77 from 28 of 28 projects. |
| Fall Project Totals (PI & Co-PI): Total Requested Amount (First Year Only): $1,749,090.13 from 28 of 28 projects. | Total Project Award Amount: $2,033,563.77 from 28 of 28 projects. |
Faculty of Pharmacy Research Report 2013-2014....ctd

Faculty grants

**Anderson H**  ($611,905) 2013-2018  Principal Investigator “Protective mechanisms of endocannabinoids in cardiac hypertrophy”. CIHR


**Hasinoff BB** ($125,855 per year), Oct 2011 – Sept 2016 Principal Investigator “Targeting topoisomerase II”. Canadian Institutes of Health Research

**Hasinoff BB** ($200,000 per year), Apr 2008 – Mar 2015 Principal Investigator “Canada Research Chair in Drug Development”. Canada Research Chair (Tier I) Research award

**Ho EA** ($372,438) 2013-2016  Co-Principal Investigator “Limiting HIV Target Cells by Inducing Immune Quiescence in the Female Genital Tract” CIHR Canadian HIV Vaccine Initiative (CHVI) Grant (PI: Dr. Keith Fowke, U of Manitoba)

**Ho EA** ($393,969) 2011-2014 Principal Investigator “Intravaginal Ring for the prevention of HIV transmission” CIHR Operating Grant

**Ho EA** ($100,000) 2012-2015 Principal investigator "Development and characterization of novel intravaginal microbicides and nanomedicines for the prevention of HIV infection" MHRC Establishment Grant

**Pierce GN** ($100,000) 2012-2014  Principal Investigator “The use of dietary flaxseed for the treatment of ischemic and post infarct cardiac dysfunction”. Heart and Stroke Foundation of Canada

**Pierce GN** ($537,075) 2013 – 2018 Principal Investigator “Regulation of nuclear protein import in cardiovascular disease states”. CIHR

**Pierce GN** ($ 25,000) April 2013 – September 2013 Principal Investigator “Regulation of nuclear protein import in cardiovascular disease states”. CIHR/MHRC-RPP

**Pierce GN** ($50,000) 2013 – 2014 Principal Investigator “The Hyperflax Trial”. SaskFlax.

**Pierce GN** ($132,324) 2014 – 2017 Principal Investigator “The anti-hypertensive action of dietary flaxseed in hypertensive patients”. CIHR
Pierce GN ($653,820) 2011-2016 Principal Investigator "The use of flaxseed as a dietary intervention to modify cardiovascular disease". CIHR

Vercaigne LM Principal Investigator, Miller, L., Armstrong, S., D. Allan, & Zacharias J. ($31,000 operating funds and $4,000 in kind-prefilled syringes for study). 2011-present "Efficacy and safety of an ethanol / citrate locking solution to prevent hemodialysis catheter-related infections: a pilot study"., Med XL Inc. Montreal QC.,


Lakowski T ($25,000) 2014-2015 Principal Investigator "Targeting lysine-specific demethylase for the treatment of breast cancer". Manitoba Medical Service Foundation

Namaka M ($60,000) 2014-2015 Principal Investigator "Manitoba Multiple Sclerosis Research Network". Bayshore Care Health Ltd.


Namaka M ($47,000) 2013-2014 Principal Investigator "Transcriptional Regulation of Brain Derived Neurotrophic Factor by MeCP2: Implications in Maintenance and Repair of Myelin Damage Associated with Multiple Sclerosis (MS). Novartis


Tranmer G ($20,000) 2013-2014 Principal Investigator "Examining the Role of the Antioxidant N-Acetylcysteine in Hypoxia as a Model System for the Development of Hypoxia-activated Prodrugs". Manitoba Medical Service Foundation Operating Grant

Indirect Costs Funding
In 2013/2014, the Faculty of Pharmacy received $20,000.00 dollar to support the following activities:
$10,000 Grant facilitator
$10,000 Technical support

Under the Physical Plant Portion of ICP (under the Renovations and maintenance of research facilities category)
$50,000 – for Ventilation System

Shared Research & Teaching Equipment
In 2013/2014, the Faculty of Pharmacy continued to support research and teaching. Equipment purchased in the reported period is listed in the following, which include shared equipment and equipment purchased from individual fund.

<table>
<thead>
<tr>
<th>Equipment Description</th>
<th>Cost</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spectra – MiniLab Nano compounding</td>
<td>$106,400</td>
<td>EH</td>
</tr>
<tr>
<td>TA instruments – DMA</td>
<td>$77,091</td>
<td>EH</td>
</tr>
<tr>
<td>Life PCR</td>
<td>$44,437</td>
<td>EH</td>
</tr>
<tr>
<td>Instron – MCT</td>
<td>$47,913</td>
<td>EH</td>
</tr>
<tr>
<td>Cypress – Easy RA chem analyzer</td>
<td>$28,702</td>
<td>Shared/Teaching</td>
</tr>
<tr>
<td>Teledyne – UV/VIS flash chrom system</td>
<td>$20,148</td>
<td>GT</td>
</tr>
<tr>
<td>CEM – microwave</td>
<td>$30,113</td>
<td>Shared</td>
</tr>
<tr>
<td>PermGear – 9 station stirrer</td>
<td>$5,440</td>
<td>Shared</td>
</tr>
<tr>
<td>Vapourtec – Flow Chemistry system</td>
<td>$57,403</td>
<td>Shared</td>
</tr>
</tbody>
</table>

Post-Doctoral Fellows and Research Associates

<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Post - Doctoral Fellow</th>
<th>Research Associate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Brian Hasinoff</td>
<td>Dr. Jijin Gu</td>
<td>Dr. Xing Wu</td>
</tr>
<tr>
<td>Dr. Emmanuel Ho</td>
<td>Dr. OusamaRachid</td>
<td></td>
</tr>
<tr>
<td>Dr. Keith Simons</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Undergraduate Summer Research Program
The undergraduate summer research program is instrumental in attracting pharmacy graduates to consider graduate studies as a part of their career path. In 2013/2014, seven pharmacy students participated in the undergraduate summer research program. The students and their advisors are listed in the table below.

Amanda Li who worked in Dr. Emmanuel Ho’s lab in 2012/13 is the recipient of the 2014 GlaxoSmithKline National Summer Student Research Program Awards. Amanda Li presented a poster and received the award at the CSPS annual conference at Montreal in June 2014.
### Faculty of Pharmacy Research Report 2013-2014....ctd

<table>
<thead>
<tr>
<th>Student’s Name</th>
<th>Supervisor</th>
<th>Supported from</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jasdeep Kaur Sandhu</td>
<td>Dr. Jamie Falk</td>
<td>Endowment</td>
</tr>
<tr>
<td>Camille Manansala</td>
<td>Dr. Geoff Tranmer</td>
<td>Endowment</td>
</tr>
<tr>
<td>Jessica Adria</td>
<td>Dr. Emmanuel Ho</td>
<td>CPhM Funds</td>
</tr>
<tr>
<td>Kevin Chaboyer</td>
<td>Dr. Christine Leong</td>
<td>Grant</td>
</tr>
<tr>
<td>Grace Badejo</td>
<td>Dr. Christine Leong</td>
<td>Endowment</td>
</tr>
<tr>
<td>Jacyn Deonarine</td>
<td>Ms. Kristine Petrasko</td>
<td>CPhM Funds</td>
</tr>
</tbody>
</table>

#### Brazilian summer research students:

<table>
<thead>
<tr>
<th>Student’s name</th>
<th>Supervisor</th>
<th>Supported by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amanda Gonelli Goncalves</td>
<td>Dr. Frank Burczynski</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Ana Luisa De Paula Oliveira</td>
<td>Dr. Neal Davies</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Marina Sobrel</td>
<td>Dr. Ted Lakowski</td>
<td>Science without Borders</td>
</tr>
</tbody>
</table>

#### Other summer research students:

<table>
<thead>
<tr>
<th>Student’s name</th>
<th>Supervisor</th>
<th>Supported from</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Bao</td>
<td>Dr. Geoff Tranmer</td>
<td>Grant</td>
</tr>
<tr>
<td>Anna Sikora</td>
<td>Dr. Mike Namaka</td>
<td>EndMS Summer Studentship award</td>
</tr>
</tbody>
</table>
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Publications

Pharmacy researchers continue to be productive in their research programs. For 2013/2014, 86 peer-reviewed publications, 6 book and book chapters, 104 conference abstracts and invited presentations, and 2 patent applications have been published or in press by the Faculty. The publications, conference abstracts, presentations and patent applications are listed in the following:

Peer-reviewed publications:


Dean H, MacDonald L, **Alessi-Severini S**, Halipchuck J, Sellers E, **Grymonpre R**. Diabetes programs are natural interprofessional collaborative learning sites. CJD in press, 2014


**Ariano RE**, Mitchelmore B, Lagacé-Wiens PRS, Zelenitsky SA. Successful treatment of pulmonary blastomycosis


Tsuyuki R, Davies NM. Self-Denigration in Pharmacy. Words that should be banished from the pharmacy lexicon. Can J Pharm (Ott) 2014;147(4): 197-199.


Friesen M. Comment on: Grapefruit–medication interactions: Forbidden fruit or avoidable consequences? CMAJ 2013 September 3; 185:1066.


Gong Y, Wang G, Gong Y, Yan J, Chen Y, Burczynski FJ. Hepatoprotective role of liver fatty acid binding protein in acetaminophen induced toxicity. BMC Gastroenterol 2014 Mar 10; 14:44.


Turcotte DA, Doupe M, Torabi M, Gomori AJ, Ethans K, Esfahani F, Galloway K, Namaka MP. Nabilone as an ad-
Faculty of Pharmacy Research Report 2013-2014....ctd


Faculty of Pharmacy Research Report 2013-2014...ctd


Faculty of Pharmacy Research Report 2013-2014…ctd


Simons KJ, Rachid OM, Rawas-Qalaji MM, Mendez AB*, Losada A, Simons ER. Preclinical Study of Rapidly-Disintegrating Sublingual Tablets (RDST): Effect of Epinephrine (E) Incorporated as Nanoparticles, J Allergy Clin Immunol 2014;133 No. 2 (Suppl):AB166 No. 575. Accepted for featured poster presentation at the AAAAI Annual Conference. (Published abstracts for research poster)


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Full Length Papers in Books and Proceedings:


Conferences, Presentations and Abstracts:


Alessi-Severini S. Use of Antipsychotic Medications in the province of Manitoba. IMPART College of Pharmacy – Dalhousie University, Halifax, NS. April 11, 2014) (Invited presentation)


Wang XT, Wang QG, Burczynski FJ, Kong WS, Gong Y: Regulation of bone morphogenetic protein 4 during hepatic stellate cell activation by Saikosaponin A. Annual Meeting of Canadian Association for the Study of the Liver, February 28 to March 4, 2013, Victoria, Canada

Acosta C, Cortes C, AlTaweel K, Klonisch T, Namaka M. Nerve growth factor (NGF) protein expression changes during the inflammatory, pre-demyelinating stages of experimental autoimmune encephalomyelitis (EAE): Implications in multiple sclerosis and myelin repair. 29th congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS) and the 18th Annual Conference of rehabilitation in MS (RIMS). Copenhagen, Denmark. October 2 – 5, 2013. (Abstract for Poster Presentation)

Acosta CMR, Cortes C, Namaka MP. Protein expression changes of nerve growth factor (NGF) during the inflammatory pre-demyelinating stages of experimental autoimmune encephalomyelitis (EAE): Implications in multiple sclerosis (MS) and myelin repair. Society for Neuroscience (SfN). San Diego, USA. November 10, 2013. (Abstract for Poster Presentation)

Khorshid TA, Acosta C, Cortes C, AlTaweel K, Ethans K, Rastegar M, Namaka M. Regulation of re-myelination and/or myelin repair by methyl CpG binding protein 2 (MeCP2) and brain derived neurotrophic factor (BDNF) in an ex-


Dunford D, Kristjanson C, Renaud R. It’s More Than a Number: Analyzing a Pharmacy Clinical Course Exam To Inform Teaching and Assessment. Submitted as a poster to the Association of Faculties of Pharmacy of Canada (AFPC) Conference. May 31 to June 3, 2014. Saskatoon, SK, Canada (73). (Abstract for a poster)

Frankel G. Get Your Heart On – For Drug Therapy. Cardiac Rehabilitation Program, Reh-Fit Centre. Winnipeg, MB. February 2014. (Seminar Presentation)


Friesen M. Patton B. Admission Medication Reconciliation in Critical Care Program. Grace Hospital Critical Care In-service. July 2013.


Friesen M. QTc, DTPs, ICU and YOU! WRHA Pharmacy Education Rounds. September 2013.

Friesen M. Everything you wanted to know about statins, but were afraid to ask. WRHA Pharmacy Education Rounds. October 2013.


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**Kleiman NL, Chartier DL, Frankel GEC, Dunford DA, Dick RM, Ng SR.** Canadian Pharmacists Conference, Association of Faculty of Pharmacies of Canada (AFPC). Saskatoon, SK. May 2014. (Poster Presentation)


**Louizos C and Bugden S.** Manitoba Pharmacy Conference, Brave New World: Pharmacy and the Epidemiology of Testing. April 27, 2014. Winnipeg, Manitoba, Canada. (Presentation)


**Moghadasian MH.** Cardiovascular benefits of prebiotics. Richardson Centre for Functional Foods and Nutraceuticals, Winnipeg, MB, Jun 17, 2013. (Abstract)

Alsaif M, Le K, **Moghadasian MH**. Cholesterol lowering and anti-atherogenic properties of Manitoban wild rice (Zizania palustris L.) in combination with phytosterols in LDL-receptor-knock-out (LDL-r-KO) mice. Canadian Nutrition Society Meeting. Quebec City, QC. June 2013. (Abstract)


Turcotte D, Doupe M, Torabi M, Ethans K, Esfahani F, Gomori A, **Namaka M**. A randomized, double-blinded, placebo-controlled study evaluating efficacy and tolerability of Nabilone as an adjunctive to gabapentin in the management of multiple sclerosis-induced neuropathic pain. 29th congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS) and the 18th Annual Conference of rehabilitation in MS (RIMS). Copenhagen, Denmark. October 2 – 5, 2013. (Abstract for Poster Presentation)

**Namaka M**. Managing Multiple sclerosis-induced neuropathic pain. MS Xchange 2013 Conference. Montreal, QC. November 15, 2013. (Invited Speaker)


**Petrasko K**. Update on the Regional Pulmonary Rehabilitation Program. Manitoba Thoracic Society Conference. Winnipeg, MB. November 22nd, 2014. (Presentation)


Haynes K, **Petrasko K**. How to Design & Build a Successful Pulmonary Rehabilitation Program. Lake Louise, AB.
Faculty of Pharmacy Research Report 2013-2014....ctd

November 8th, 2013. (Presentation)


Petrasko K. The Clinical Pharmacist as a Team Member within a Pulmonary Rehabilitation Program (PRP). Authors: Bains M, Bond A, Chute L, Deonarine J, Paunovic K, Peterson K, Petrasko K., Scott M. April 2014. (Poster Abstract)

Pierce GN. The Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators, Louisville, USA, 2013. (Invited Speaker)

Pierce GN. 10th International Congress on Coronary Artery Disease. Florence, Italy. 2013. (Invited Speaker)

Pierce GN. National Agri-Insurance Conference. Winnipeg, MB. 2013. (Invited Speaker)

Pierce GN. Stress and Ageing: From Molecular Biology to Clinical Perspectives. Halle, Germany. 2013. (Invited Speaker)

Pierce GN. Institute of Organic Synthesis and Photoreactivity (ISOF) – Dept. of CNR, Bologna, Italy, 2013. (Invited Speaker)

Pierce GN. Department of Physiology, David Geffen School of Medicine, University of California, Los Angeles, USA, 2013. (Invited Speaker)

Pierce GN. The Scuola Superiore Sant'Anna de Studi Universitari. Pisa, Italy, 2013. (Invited Speaker)

Pierce GN. Institute of Cell Biology and Neurobiology, University of Rome La Sapienza, Rome, Italy. 2013. (Invited Speaker)

Pierce GN. Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram, India. 2013. (Invited Speaker)

Pierce GN. 101st India Science Congress – Symposium on Frontiers in Cardiovascular Science and Medicine. Jammu, India. 2014. (Invited Speaker)

Pierce GN. Cuban Congress of Cardiology. Havana, Cuba. 2014. (Invited Speaker)

Pierce GN. The Ramesh K. Goyal Plenary Oration, Recent Advances in Cardiovascular Sciences. New Delhi, India. 2014. (Invited Speaker)

Pierce GN. UCM Distinguished Lecture Series in Cardiovascular Biology. Mariana Grajales Coello University of Medicine and V.I. Lenin University Hospital, Holguin, Cuba. 2014. (Invited Speaker)
Faculty of Pharmacy Research Report 2013-2014...ctd

Pierce GN. Department of Immunology, University of Manitoba, Winnipeg, MB. 2013. (Invited Speaker)

Pierce GN. Healthy Aging Expo. Winnipeg, MB. 2013. (Invited Speaker)

Pierce GN. Institute of Cardiovascular Sciences, St. Boniface Hospital Research Centre, Winnipeg, MB. 2013. (Invited Speaker)

Pierce GN. Grand Rounds. Physical Medicine and Rehabilitation, Health Sciences Centre, Winnipeg, MB. 2014. (Invited Speaker)

Pierce GN. Patient and Family Advisory Council Meeting. St. Boniface Hospital, Winnipeg, MB. 2014. (Invited Speaker)


Martinez SE, Sayre CL, Frankel GEC, Davies NM. Stereospecific characterization of the pre-clinical pharmacokinetics, pharmacological activities and content analysis in natural health products of 8-prenylnaringenin, a potent phytoestrogen found in hops (Humulus lupulus). Canadian Society for Pharmaceutical Sciences Meeting Montreal, Canada June 2014.


Severini A, Zubach V, Roy F. Genotyping of lymphogranuloma venereum chlamydia serovars at the National Microbiology Laboratory. CACMID-AMMI Canada Annual Conference. Victoria, BC. April 2-5, 2014. (Abstract)


Thomson P. Use of Warfarin and Newer Oral Anticoagulants in Atrial Fibrillation and Venous Thromboembolism. (Co Presenter with D Houston MD). Boundary Trails Physician Education Day. May 2014. (Presentation)

Thomson P. Anticoagulation. (Co Presenter with D Houston MD). Faculty of Medicine (Med II), University of Manitoba. April 2014. (Presentation)

Thomson P. Control of Gastric Secretion. Faculty of Medicine (Med II), University of Manitoba. March 2014. (Presentation)

Thomson P. Clinical Trials in Internal Medicine That Will Change Your Practice. Professional Practice Conference, Canadian Society of Hospital Pharmacists. February 2014. (Presentation)

Thomson P. Constipation. Professional Practice Conference, Canadian Society of Hospital Pharmacists. February 2014. (Presentation)


Thomson P. Ulcerative Colitis. Working Professional Doctor of Pharmacy Degree Program (PHA 5596). University of Florida. Fall 2013. (Presentation)

Thomson P. Crohn’s Disease. Working Professional Doctor of Pharmacy Degree Program (PHA 5596). University of Florida. Fall 2013. (Presentation)

Thomson P. Irritable Bowel Syndrome. Working Professional Doctor of Pharmacy Degree Program (PHA 5596). University of Florida. Fall 2013. (Presentation)


Thurmeier R. When Medical and Psychiatric Perspectives Collide: Case Examples of This Challenging Interface. St. Boniface General Hospital, Winnipeg, MB. Feb 27, 2014. (Guest Speaker)


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Wazny, L. Canadian Society of Hospital Pharmacists, MB Branch Hot Topics: Decentralized Pharmacists – How far have we come? Nov. 2013. (Professional Presentation)


Woloschuk DMM. Preceptor teaching/training tips. Canadian Society of Hospital Pharmacists 66th Annual Summer Education Sessions. Calgary, AB. Aug 12, 2013. (Conference Presentation)


Woloschuk DMM, Caligiuri C. Improving Quality and Safety of Compounded Injectable Medications in the WRHA. Manitoba Health Innovations Conference 2013. Winnipeg, MB. Nov 18, 2013. (Poster Presentation)


Patent application:


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Interview:
Ho EA. International Innovation - Treating and Prevention HIV 2013. Issue 22; Page 83-85

Featured Articles

Awards:
Petrasco K. Wellspring Pharmacy Leadership Award. June 2013

Wazny L, Sood AR. Canadian Society of Hospital Pharmacists (CSHP) National Award for Specialties in Pharmacy Practice. Awarded for, Conversion process and cost savings of a switch from intravenous to subcutaneous epoetin alfa in patients receiving hemodialysis. 2014.


Ho EA. Rh Award for Outstanding Contributions to Scholarship and Research in the Interdisciplinary Category.

Editorials:


Board Service:
Woloschuk DMM. Canadian Society of Hospital Pharmacists Representative to the Canadian Council for the Accreditation of Pharmacy Programs (CCAPP) 2013-2016