Faculty of Pharmacy

Annual Report

July 1, 2012 - June 30, 2013

Educating Pharmacists in Manitoba since 1899
Faculty of Pharmacy

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

It is a sure sign that autumn is in the air when I am asked to provide the Dean’s message for the 2012-2013 Annual Report. This is my second report as the Dean since my arrival back to Canada in 2011 and with the “sophomore slump” (i.e. the second year jinx) safely behind me I look forward to the new academic year with considerable anticipation. I know that we will continue to provide exemplary word class pharmacy research and teaching at the University of Manitoba Faculty of Pharmacy which is detailed in this report and we have much to look forward to in 2013-2014.

As I contemplate the past year it brings to mind again our collective and individual accomplishments and special achievements. Firstly, the Bachelor of Science in Pharmacy program of the Faculty of Pharmacy at the University of Manitoba has been awarded the status of full accreditation by the Canadian Council of Accreditation of pharmacy programs for the six-year term 2013-2019. Well done! Moreover, we have maintained considerable success in research and graduate education. In particular, Dr. Hope Anderson was awarded a 5 year ~$600,000 Canadian Institutes of Health Research Grant for her work on “Protective Mechanisms of Endocannabinoids in Cardiac Hypertrophy” and the Canada Foundation for Innovation Leaders Opportunity Fund provided $130,000 for Dr. Emmanuel Ho to establish a Microbicide Development and Characterization Laboratory. Dr. Xiaochen Gu contributed excellent leadership as acting Associate Dean Academic to enable Dr. Lavern Vercaigne to complete a successful administrative study leave. In addition, with the power of team work under the leadership of Dr. Hope Anderson we have successfully developed our Graduate Program accreditation report. Over the past year we have successfully graduated two Ph.D. and one master’s student. Moreover, we have hosted several Brazilian exchange students in our classes and in our laboratories. – ‘Obrigado!’

I am particularly pleased with the leadership and progress of the Program Evaluation Committee enabling evidence based decision making for the optimization of our program. Collectively, we presented a record number of high quality posters at the Association of Faculties of Pharmacy of Canada in Niagara-on-the Lake and at the Annual MPhA/MSP Pharmacy Conference and we can now proudly display our achievements on new poster boards on the second and third floor walls of the Apotex centre. The work advanced by the admissions committee to recalibrate our pharmacy pre-requisites to two years and to eventually consolidate the program to the Bannatyne campus is also greatly appreciated. Furthermore, we also co-hosted with the MPhA a very successful District 5 NABP/AACP meeting at the Forks in Winnipeg. We all enjoyed the sparkling jocularity of Dr. Shawn Bugden’s presentations at these conferences.

Moreover, it has been a pleasure to recruit and welcome our new faculty, Dr. Jamison Falk, Dr. Christine Leong and Dr. Geoff Tranmer who have accepted and commenced tenure track Assistant Professor positions. Dr. Dennis Cote, Dr. Grace Frankel and Ms. Sheila Ng, and are also now full-time instructors and are all well enshrined in the program. We also welcomed Ms. Usha Pammi as an office assistant and she has comfortably settled into the team.

We have also built three new offices for Clinical Pharm.D. staff and have finished erecting a state of the art Pharmaceutical Analysis Laboratory. Also, we have remodeled a new Gold Medal Lounge in the basement for our students. In addition we celebrated the lifetime achievements of the 50 and 60 year classes and provided our first Outstanding Pharmacy Alumnus Award. At the White Coat Ceremony alumni of the past cloaked the pharmacists of the future. The Grand Round alumni seminar series from 1962-2012 also

www.umanitoba.ca
provided us many outstanding alumni lectures. Furthermore, new gold-headed walking sticks were inaugurated and a new ceremonial pharmacy livery collar was commissioned. Dr. Dennis Cote and I also made our first “Pharmacy Alumni House Call” in June with a successful alumni reception with our Victoria British Columbia alumni diaspora.

In 2012, we welcomed 55 students into the Faculty of Pharmacy and in 2013 we all shared in our student’s achievements as we tiptoed through the rain over to the Brodie Center together to graduate 54 new pharmacists. The Pharmacy students also competed in the first Manitoban “Mr. Pharmacy” competition to support prostate cancer in Movember. Our students have performed outstandingly well in the Pharmacy Examining Board of Canada examination process again this year. Their successes are our shared accomplishments. Furthermore, student and Faculty involvement in volunteer and community activities remains robust and are further highlighted in this report.

With the companionship of several helpful colleagues I have toured over 250 pharmacies in our province so far (http://umanitoba.ca/faculties/pharmacy/pharm_locations.html). We have thanked pharmacists and alumni and humbly asked for their continued support. It is with an ardour of meliorism that the new regulations of the Manitoba Pharmaceutical Act will come into force January 1, 2014. The Faculty of Pharmacy will not simply be an educator and an observer to the expanded scopes of practice but also an active participant and leader in providing clinical pharmaceutical services enabled with this legislation to advance the profession.

Together we are working on implementing the new strategic plan for the Faculty’s development. Indeed, these are extraordinary times for pharmacy. The Faculty of Pharmacy at the University of Manitoba is growing but we must continue to work very hard to sustain our momentum in the face of the current economic outlook. I cannot thank our alumni, stakeholders, and supporters enough for they have been generous in their time and financial commitments and this facilitates the greater success of the Faculty of Pharmacy and the profession. Although I am proud of what we have accomplished over this past year, I look forward to the next academic semester and an even brighter future. What we can and will accomplish in 2013-2014 will provide us with even more reasons to celebrate together.

The University of Manitoba is a wonderful higher educational institution and the Faculty of Pharmacy is an area of professional excellence within it. We advance the profession of pharmacy by our constant searching, discovering, teaching, learning, training, and ultimate amelioration of health. Be proud of who and what we are. We are amongst the best Faculties of Pharmacy in the world.

Thank you for having me as your Dean.

-Go Bisons!

Sincerely,

Neal Davies BSc.(Pharm), Ph.D., R.Ph. Dean and Professor
Message from the Associate Dean (Academic)
On Sabbatical January 1 to July 1, 2013

I am pleased to provide highlights of the 2012-2013 academic year in the Faculty of Pharmacy. The Faculty recently underwent an undergraduate accreditation visit from the Canadian Council for Accreditation of Pharmacy Programs (CCAPP) and I’m pleased to announce that we received full accreditation status for a period of 6 years. The preparation for accreditation was a significant undertaking by many people from within the faculty and beyond, and I extend my thanks to everyone involved and offer congratulations on the outcome.

In regards to curriculum development, the Faculty is very encouraged by the recent positive vote of the MPhA members to pass the new pharmacy regulations. We look forward to the coming months when the regulations are made official and pharmacists are given the opportunity to engage in expanded scopes of practice. In anticipation of this occurring, we have already begun to train pharmacy students to give injections / immunizations. Injection / immunization training was offered to the graduating class and is now a mandatory component of the third year Skills Lab course. We anticipate our students participating in multi-disciplinary flu clinics at the University as part of their training in the near future. In addition, the 2013-2014 curriculum will incorporate a mandatory component of physical assessment in the third year Skills Lab. The focus of this initiative is to begin developing the skills to assess vital signs and perform physical assessment needed to monitor drug therapy. In the future, we will be designing additional components in the curriculum including ordering lab values and prescribing. Although we are encouraged by the expanded scopes of practice, we are also mindful of the unique knowledge and skills that pharmacists offer and our extensive knowledge of drug therapy, which will continue to be a primary focus of the curriculum.

As previously reported and in order to ensure quality, a new Program Evaluation Committee has been struck, and two University of Manitoba professors were hired to facilitate the evaluation process; Dr. Rob Renaud (Faculty of Education) and Dr. Cheryl Kristjanson (former Director of University Teaching Services). The committee has been very active since its inception and has been conducting important work analyzing admissions data, mapping the curriculum to educational outcomes, conducting exit surveys of graduating
students and recently conducting employer surveys to help inform areas of the curriculum that could be improved upon. Thank you to everyone who has contributed to providing us with this valuable feedback. In closing, I would like to thank the entire faculty and all of our partners for their enthusiasm, support, and efforts in ensuring a strong pharmacy program in Manitoba.

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

Message from the Acting Associate Dean (Academic)

January 1 to July 1, 2013

I had the honour to serve as the Associate Dean (Academic) between January 1 and June 30, 2013, when Dr. Lavern Vercaigne was taking his administrative leave. The following are some highlights of these six months:

1) the Faculty joined pharmacy schools across the country to explore transfer planning from BSc (Pharm) program to E2P PharmD program in the future;
2) curricular modifications, particularly consolidation of Medicinal Chemistry and addition of physical assessments in PSL-3, were initiated and planned;
3) the Faculty participated in various events organized by Services for Students at Bannatyne Campus, in order to provide integrated and enhanced learning experiences to students of the health sciences.

I would like to take this opportunity to thank everyone who had made their contributions to another successful academic year. It was also a great personal experience for myself serving in this important administrative position.

Xiaochen Gu, Ph. D.
Professor and Acting Associate Dean (Academic)
Message from the Associate Dean (Research)

Research in the Faculty of Pharmacy covers a variety of areas in pharmacy and pharmaceutical sciences such as pharmaceutics, pharmacoepidemiology, medicinal chemistry, antibiotic resistance, nanotechnology, biomedical sciences and clinical pharmacy. The research laboratories are located on the second and third floor of the Apotex Centre since 2008 with significant improvement of research equipment, facilities and infrastructure occurring on an annual basis.

In 2012 to 2013, it has been an exciting year for research in the faculty. The faculty has finalized the Pharmaceutical Analysis Laboratory on the second floor and installed several advanced instruments such as a Shimadzu LCMS-8040 and GE AKTA purifier. The new and sophisticated LCMS instrument from Shimadzu (LCMS-8040) was purchased to improve research in pharmaceutical analyses, clinical pharmacokinetics and epigenetic areas. The LCMS-8040 has improved ion optics and collision cell technology therefore; it can provide higher multiple reaction monitoring (MRM) sensitivity and expend the potential range of LC/MS/MS applications to basic and translational research projects. The GE AKTA purifier is a high end liquid chromatography system and can be used for rapid purification of proteins.

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, 2012 to June 30, 2013 exceeded more than one million Canadian dollars. A major highlight of the funding received in the year 2012 to 2013 is a successful CFI Grant to Assistant Professor Dr. Emmanuel Ho for a Microbicide Development and Characterization Laboratory to facilitate his translational research in nanomedicine and targeted delivery of HIV vaccines.

On July 1, 2012, an Assistant Professor, Dr. Ted Lakowski joined the Faculty of Pharmacy. Dr. Lakowski has broadened our research areas into pharmacoepigenetics. His expertise will enhance not only research but also teaching in pharmacogenetics and pharmacogenomics in our faculty. Recent hires Drs. Jami Falk and Christine Leong will significantly add to our faculty complement and depth in pharmacy practice research. Dr. Geoffrey Tranmer will continue on our tradition of medicinal chemistry investigations.

In conclusion, I am very excited with 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 ethos within the Faculty of Pharmacy.

Yuewen Gong, Ph.D., Professor and Associate Dean (Research)
Faculty & Staff 2012-2013 (full-time or faculty based)

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

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

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

Professors
Frank Burczynski, B.Sc. (Pharm.), M.Sc., 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.), Pharm.D. (Minnesota)
Xiaochen Gu, B.Sc. (Pharm.), M.Sc., Ph.D. (China)
Brian Hasinoff, B.Sc. (Hons.), Ph.D. (Alberta)
Lavern M. Vercaigne, B.Sc. (Pharm.), Pharm.D. (Toronto)
Sheryl Zelenitsky, B.Sc. (Pharm.), Pharm.D. (Buffalo)

Associate Professors
Hope Anderson, B.Sc., Ph.D. (Manitoba)
Mike Namaka, B.Sc. (Pharm.), M.Sc., Ph.D. (Manitoba)

Assistant Professors
Silvia Alessi-Severini, B.Sc. (Pharm.) (Parma), Ph.D. (Alberta)
Christine Davis, B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC)
Jamison Falk B.Sc. (Pharm.) (Manitoba), Pharm.D. (UBC)
Emmanuel Ho, B.Sc. (Hons.) (Toronto), Ph.D. (Toronto)
Harris Iacovides, B.Sc. (Pharm.), M.Sc. (Manitoba), Pharm.D. (Toronto)
Ted Lakowski, B.Sc. (Pharm.), Ph.D. (UBC)
Christine Leong 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 of Pharmacy

Faculty & Staff 2012-2013 ... cont.

Instructors
Kelly Brink B.Sc. (Pharm.) (Manitoba)
Dennis Cote B.Sc. (Pharm.), M.Sc., Ph.D. (Manitoba)
Drena Dunford, B.Sc. (Pharm.) (Toronto)
Grace Frankel, B.Sc. (Pharm.), 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
Ross Forsyth, B.Sc. (Pharm.) (Manitoba)
Ronald Guse, B.Sc. (Pharm.) (Manitoba)
Susan Lessard-Friesen, B.Sc. (Pharm.) (Manitoba)
Kim McIntosh, B.Sc. (Pharm.) (Manitoba)
Shirley Treacy B.S.P., M.Sc. (Sask.)

Professional / Research Associates
Xing Wu, B.Sc. (Biochem) (China), Dip. Fermentation (China), Ph.D. (Biochem)(Switzerland)

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

Faculty Administrative Staff
Janice Bailey – Faculty Manager
Patricia Kopp – Technical Support Manager
Cheryl Lee – Undergraduate Program Administrator
Joanne Ogilvie – Assistant to the Dean (On Leave June 2013-July 2014)
Usha Pammi - Office Assistant
Sara Smith – Office Assistant
Sherri Vokey – Librarian
Lisa Zhang - Graduate Program Administrator

Technical Staff
Steven Birch - Computer Technician
Paola Cordova-Laboratory Technician
Chrissy Laqui - Laboratory Technician (On Leave March 2013-April 2014)
Daywin Patel – Laboratory Technician
Dr. Casey Sayre – Laboratory Technician
Cathy Zahradka - Laboratory Technician
Faculty & Staff 2012-2013 (Emeritus, Clinical and External)

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

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

Assistant Professors
Albert Friesen, B.Sc., M.Sc., 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.), Ph.D. (Manitoba)
Shanna Chan, B.Sc (Pharm.) (Manitoba)
Sheri Fandrey, B.Sc. (Pharm.), Ph.D. (Saskatchewan)
Mark Friesen, B.Sc. (Pharm.), 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.), M.Sc. (Manitoba)
Ronald Guse, B.Sc. (Pharm.) (Manitoba)
Nick Honcharik, B.Sc. (Pharm.), Pharm.D. (SUNYAB)
Pat Honcharik, B.Sc. (Pharm.), Pharm.D. (SUNYAB)
Kyle MacNair, B.Sc. (Pharm.)
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.), Pharm.D. (Florida)
Donna Woloschuk, B.Sc. (Pharm.) (Sask.), Pharm.D. (Cincinnati)
Adjunct Professors
Sreeneeraj Kasichayanula, B.Pharm (India), Ph.D. (Manitoba)
Songyan Liu, M.D. (China), MSc (Patho) (China), PhD (Patho) (China)
Gary Van Domselaar, B.Sc. (Chemistry), Ph.D. (Alberta)

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

Field Instructors
Trevor Shewfelt, B.Sc. (Pharm.) (Manitoba)

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
Ratna Bose, Pharmacology
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
Teresa DeKievit, Microbiology
The Faculty of Pharmacy is pleased to announce the following new faculty and staff appointments.

**Dr. Jamieson (Jamie) Falk** joined the Faculty of Pharmacy in March 2013 as an Assistant Professor in the area of clinical sciences and practice. He graduated from the University of Manitoba, Faculty of Pharmacy in 1997. He worked as a community pharmacist for five years before pursuing his Doctor of Pharmacy degree at the University of British Columbia. After graduating from the Doctor of Pharmacy program in 2004 he practiced as a clinical pharmacy specialist at the Royal Jubilee and Victoria General Hospitals in Victoria, BC where he developed a practice in intensive care medicine. He also served as a preceptor for pharmacy residents and PharmD candidates along with providing clinical support to the staff pharmacists at these hospitals.

**Dr. Christine Leong**, B.Sc.(Gen); B.Sc.(Pharm); Pharm.D. joined the Faculty of Pharmacy in July 2013 as an Assistant Professor. She graduated with a Bachelor of Science in Pharmacy from the University of Manitoba in 2010 and completed her Doctor of Pharmacy degree at the University of Toronto in 2012. Her research interests include primary care practice, neuropsychiatry, and pharmacy education. Dr. Leong has been a contributing author of nine peer-reviewed papers, and served as a peer reviewer for the Annals of Pharmacotherapy. During the Doctor of Pharmacy program, Dr. Leong examined a near-peer teaching model in pharmacy education, which was published in the Canadian Journal of Hospital Pharmacy last year. In collaboration with the Manitoba Centre for Health Policy, Dr. Leong’s research will aim to describe the trend in antidepressant use in older adults. Prior to her appointment with the faculty, she has worked as a clinical pharmacist at the Health Sciences Centre in Surgery. She also acted as preceptor to pharmacy students and provided presentations in the area of seizure disorders, insomnia, infectious disease, and antidepressant use for depression in patients with dementia, to pharmacists, nurses, and medical residents.
New Faculty and Staff ctd.

Dr. Geoff Tranmer  Ph.D., joined the Faculty of Pharmacy as an Assistant Professor in July 2013. He has a B.Sc. (Hons.) degree from Brock University in Chemistry and a Doctor of Philosophy degree from the University of Guelph, specializing in Organic Chemistry. Following post-doctoral studies at Princeton University, he received an NSERC post-doctoral fellowship and continued his studies at the University of Cambridge under the supervision of Prof. Steven V. Ley, CBE, FRS, examining the application of new technologies in organic synthesis. His first industrial role was as a Senior Research Chemist at Merck Frosst in Montreal as a member of the Technology Enabled Synthesis group, integrating the application of automated synthesis and purification into medicinal chemistry programs. Following subsequent employment at McMaster University as the Synthesis and NMR Lab Manager in the Centre for Microbial Chemical Biology, and research at the Centre for Probe Development and Commercialization, he has accepted the appointment of Assistant Professor in the Faculty of Pharmacy, with specialization in Medicinal Chemistry.

His research interests are focused on the application of innovative technologies in the field of organic synthesis as applied to medicinal chemistry and new strategies for targeted cancer therapies. Specifically, he is interested in developing novel flow chemistry techniques that will aim at enhancing current synthetic organic methodologies, and focus on lead generation and optimization in drug discovery, while simultaneously focusing on the development of novel targeted cancer therapies, with particular focus on hypoxia. He has co-authored 16 papers and 3 reviews in peer-reviewed international journals, and has been named as co-inventor on six published patent applications.

“Geoff Tranmer – Taking the “ick” out of Organ-ic Synthesis since 1998"
Outstanding Teacher Awards 2013-2014

2013 UMSU/UTS Students’ Teacher Recognition
No nomination was received for 2013.

Outstanding Teacher 1st year
Ms. Nancy Kleiman, Instructor

Outstanding Teacher 2nd year
Dr. Lean Chee, Associate Professor

Outstanding Teacher 3rd year
Dr. Alan McIntosh, Professor

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

Tenure and Promotions

There were no tenures or promotions from July 1, 2013 to June 30, 2013.
The following report highlights activities during my 6 month research/study leave from January 01, 2013 to July 01, 2013. During this time, work was completed locally in Winnipeg to investigate research topics in nephrology (vascular access) and pharmacokinetics, as well as provide ongoing clinical service in the Manitoba Renal Program at our chronic kidney disease clinic. I was also involved in ongoing service commitments during this time as outlined in the sections below.

Research

Vascular Access and catheter-locking solutions

During my time on research/study leave, I was involved in two main research projects. The first is an ongoing clinical study investigating the use of a new catheter locking solution in the hemodialysis population to prevent catheter-related bloodstream infections and catheter thrombosis. Our research team previously invented this new therapeutic entity (30% ethanol / 4% sodium citrate) and has conducted in vitro testing to confirm its antimicrobial and antifungal activity in the last several years (references below).


This preliminary work lead to a collaboration with MED XL in Montreal, QC, to develop a pharmaceutically suitable product to conduct the first pilot clinical trial with the new catheter locking solution. The new product is called CitraLok Plus.
We were hopeful that during my research/study leave, all of the patients required for the pilot study (n=40) would have been enrolled and completed the study duration so we could concentrate on data analysis. However, despite best efforts of our research team and specifically our very dedicated research nurse, Lorraine Kuzyk, all patients had not completed the study duration by January 01, 2013. Therefore, during my study leave we continued to enroll patients into the study and follow them for outcomes. We have now enrolled all 40 patients from the Health Sciences Centre and Seven Oaks General Hospital. We are currently following the last 3 patients for study outcomes. If the final patients do not reach endpoints by October 31st, 2013, they will have reached the full study duration of 6 months from the time of enrollment and the study will close.

During my research/study leave I created the study database, entered all existing data for patients that had completed the study, met with the biostatisticians to plan study analysis (even though it is a pilot study of only 40 patients) and prepared and submitted all patient safety reports to the Data Safety and Monitoring Board (DSMB) previously established for the study. I also secured additional research funds to support completion of the study over it’s longer than anticipated duration.

In anticipation of preparing the manuscript, I have identified and reviewed the most recent literature in the area, which will help to expedite the publication process after data analysis.

I would like to express my sincere thanks to my co-investigators Dr. Lisa Miller, Dr. James Zacharias, Dr. Sean Armstrong and Dr. Don Allan. A special thanks to Dr. Lisa Miller for her valuable input throughout study implementation and to Lorraine Kuzyk, our research nurse for her enthusiasm, perseverance, and expert attention to detail throughout the study.

**Gentamicin pharmacokinetics in the hemodialysis population**

The second significant area of research performed during my study leave was the development of a new gentamicin dosing protocol to improve the effectiveness and safe use of gentamicin (a potentially toxic antibiotic) in the hemodialysis population. Gentamicin has the potential to cause irreversible hearing loss in the hemodialysis population and therefore, improved dosing regimens are required to maintain efficacy and enhance safety. I had the pleasure of working with two experts in the area of gentamicin pharmacokinetics; Dr. Sheryl Zelenitsky from the Faculty of Pharmacy and Dr. Rob Ariano from St. Boniface Hospital. With the use of Monte Carlo simulation techniques, the group, led by Dr. Zelenitsky, was able to develop a new dosing protocol for use in this population. An abstract of the research work (provided below) was submitted and accepted for poster presentation at the upcoming American Society of Nephrology meeting in Atlanta, Georgia from November 6-10, 2013. This meeting typically involves between 10,000-15,000 participants from around the world with an interest in nephrology research. A manuscript of the results has already been prepared for submission to the American Journal of Kidney
Disease and is currently being reviewed by the co-authors before submission. Of note, the Manitoba Renal Program, who is responsible for providing care to renal patients throughout Manitoba, has adopted the new dosing protocol for patient care.

Title: Gentamicin Dosing Protocol for Empirical Therapy in Hemodialysis Patients
Lavern M. Vercaigne1,2*, Robert E. Ariano3,1 and Sheryl Zelenitsky1,3. 1Faculty of Pharmacy, University of Manitoba, Winnipeg, Manitoba, Canada; 2Manitoba Renal Program, Winnipeg Regional Health Authority, Winnipeg, Manitoba, Canada and 3St. Boniface General Hospital, Winnipeg, Manitoba, Canada.

Background: Gentamicin is an important antibiotic for empirical treatment of Gram-negative infections in hemodialysis (HD) patients.

The goal of this study was to determine an effective and convenient dosing strategy for empirical therapy which avoids inadequate or excessive gentamicin exposure in overweight patients.

Methods: Monte Carlo simulation methods were used similar to those described previously (Clin Infect Dis 2012;55:527) using pharmacokinetics estimated from a population-pharmacokinetic model developed in the HD population (Clin Pharmacokinet 2004;43:205). The dosing regimen used by the Manitoba Renal Program (1.5 mg/kg load followed by 1.0 mg/kg post-dialysis) was tested as the baseline in subjects with normal body weights (40-80 kg). A dosing strategy to achieve similar gentamicin concentration profiles and exposures in patients with heavier body weights was determined (Table 1).

<table>
<thead>
<tr>
<th>BODY WEIGHT (kg)</th>
<th>LOADING DOSE</th>
<th>SECOND DOSE (after next dialysis session)</th>
</tr>
</thead>
<tbody>
<tr>
<td>40-80</td>
<td>1.5 mg/kg</td>
<td>1 mg/kg</td>
</tr>
<tr>
<td>81-100</td>
<td>120 mg</td>
<td>80 mg</td>
</tr>
<tr>
<td>101-120</td>
<td>130 mg</td>
<td>90 mg</td>
</tr>
<tr>
<td>121-140</td>
<td>140 mg</td>
<td>100 mg</td>
</tr>
</tbody>
</table>

Results: The proposed dosing protocol provided very similar predicted peaks and troughs in patients ranging from 40-140 kg. Figure 1 shows the results for 500 simulated patients in the lower and upper weight categories. As an index of gentamicin exposure, the AUC 0-48 (mg/Lxh) was similar in the 40-80 kg group (180 ± 37 mg/Lxh) compared with the 121-140 kg group (182 ± 38 mg/Lxh).
Conclusions: The proposed dosing protocol provides similar predicted peak and trough gentamicin values in patients with body weights ranging from 40-140 kg. The protocol is suitable for empiric dosing of gentamicin over the first two HD sessions.

Clinical Service
Throughout my research/study leave, I continued to provide clinical care in the Chronic Kidney Disease Clinic with Dr. James Zacharias and the entire multidisciplinary team. As these patients commonly have Stage 4-5 chronic kidney disease, can be quite sick, and are nearing dialysis, I felt the need to continue providing care to these people during my leave. This commitment involves ½ day each week, reviewing charts, labs, DPIN histories, etc. to prepare for the clinic and another half day participating in the clinic when the patients arrive. I also took this opportunity to completely review the latest KDIGO clinical practice guidelines for treatment of anemia of chronic kidney disease, bone and mineral metabolism, hypertension, and evaluation and management of CKD. In addition, the new Canadian Diabetes Guidelines were recently
Faculty & Staff

Research/Study Leave Report ... cont.

released, so my research/study leave provided me time to review them thoroughly.


Other Service

A portion of my research/study leave was also used to fulfil some ongoing commitments to pharmacy and research organizations. I completed the final year of a six year term on the Pharmacy Examining Board of Canada, Board or Directors, Chair of the Committee on Exams and Chair of the Panel of Examiners (Part 1).

I am also serving as the Chair of the Data Safety and Monitoring Board (DSMB) for a CIHR sponsored study being conducted out of the University of Calgary called the BK KIDI study. Our group reviews all SAEs reported in the study and provides recommendations on the safety of continuing the study on an ongoing basis.

Thank you

I am grateful for the opportunity to have taken this research/study leave. It has provided me the chance to advance research and clinical practice in my therapeutic area of chronic kidney disease. Thank you.
Facility Introduces New Sticks

On September 17th the Faculty of Pharmacy sticks were officially retired by the 1962 co-Sticks, Dr. Glen McIver (B.Sc. Pharm 1962, MD 1967) and Millie Ritchie (B.Sc.Pharm 1962, M.Sc. 1965), on the occasion of their 50th class anniversary. The retired gold-headed walking sticks were presented to Professor H.E. Bletcher by the Major Pharmacy Class of 1904 upon his retirement. The smaller stick is inscribed H.E.B. 1908.

Since 1939 the pharmacy sticks have symbolized the office of the President of the Pharmacy Student Association. Until 1990 the larger stick was used for the male class president or Senior Stick and the smaller for the Lady Stick or female class president. In 1991 male or female co-sticks were elected. Since 1999, students have been elected each year as third and fourth year co-sticks.

New gold-headed walking sticks were commissioned by Dean Davies in 2012. The sticks of 2011/2012, Michael Prout and Scott Andresen, conducted a fundraising campaign resulting in donations from 53 former co-sticks from 1945–present. Over $7,000 was donated and used to create the sticks and purchase a shadow box. Artist Gary Zahradka from Omega Artworks created the sticks. The senior stick is represented by a bison adorned below with the pharmacy crest and symbols. The junior stick has a Rod of Asclepius and a mortar.

These sticks are now the current symbols of the third, Jillian James, and fourth year, Scott Andresen, co-sticks of the Pharmacy Student Association. They represent a new era in the practice of pharmacy in Manitoba with the development of regulations of the new Pharmaceutical Act and the proclamation of a new Code of Ethics.

Dean’s Tour Continues

Dean of Pharmacy, Dr. Neal Davies has continued on a tour of Manitoba’s pharmacies that will see him visit each and every pharmacy practice in the province.

The Manitoba tour kicked off in January 2012, with Davies leaving the Apotex Centre. As of August 1, 2013 he has visited more than 250 pharmacies across the province, including stops in The Pas, Winnipeg Beach, Flin Flon, Melita, Vita etc. At each stop, Davies has been given a warm welcome and he is excited to continue connecting with more alumni over the coming months. In addition, Pharmacy alumni primarily residing in the Victoria region enjoyed high tea at the Empress Hotel during the afternoon of June 8th, 2013. Pharmacy graduates from 1945 to 2011 networked, reminisced, and shared stories with Dean Davies and Dr. Dennis Cote. A great time was had by all and the friendly Manitoba bison spirit was evident throughout. Further Pharmacy Alumni House Calls in other town’s and cities are planned for the future. (http://umanitoba.ca/pharmacy).

Dean’s Tour Continues

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Students

Senior Stick’s Message

First off, I must say I am extremely humble and grateful for my peers who have elected me as their representative. Not only has the past year been an amazing and unique set of experiences, but also the past four years within the Faculty have been the most exciting, yet challenging times I’ve faced. Having said that, with our recent graduation, I know my classmates and I have many new experiences and challenges ahead of us.

Having the opportunity to be Senior Co-stick, I have gotten to work with a lot of great people, not only within the Faculty, but on the University of Manitoba Pharmacy Student Association’s (UMPhSA) Student Council. There is no doubt that I am privileged to work with some of the brightest and most hard working students within the student body who have accomplished remarkable feats in the past year; not only academically but in extracurricular activities and more. We’ve had a myriad of successful events within the Faculty this year.

In social events, we started the year off with a Meet and Greet in early September for the newcoming Pharmacy students which included a “welcome back” party at Cheers. This event was soon followed up with the 5th annual Red Party in mid-September, which went “pink” in support of Breast Cancer where we raised more money for the Canadian Breast Cancer Foundation than all other Canadian Pharmacy schools! In terms of sports, we’ve organized golf tournaments, sport pools and currently planning a curling bonspiel and the annual Alumni hockey game. CAPSI has been busy with bowling nights and lunch and learns, but some of the more notable things were the Run for the Cure which raised more money than any other Pharmacy school in Canada (again!). Fifty lucky students also attended CAPSI’s annual Professional Development Week (PDW) in Montreal where we came in first in the compounding competition! We also came in 3rd in the Pharmafacts Bowl. Congratulations guys! UMPhSA also continues to take part in the WISH (Winnipeg Interprofessional Student-run Health) Clinic and hosted another success Career Fair. The student body is also continuing to give back to the community through charities for those who are less fortune, such as Christmas Hampers.

Now, I’ve saved the best for last. This year, we crowned our first ever Mr. Pharmacy at the Mr. Pharmacy Pageant. This event put some friendly rivalry competitions between eight bachelors (two students from each year) in a hilarious and fun evening. Competitions included pill counting, ethical trivia (by none other than Mr. Ron Guse himself) and a talent contest ranging from juggling to singing and dancing (once by a giant Lego man!). The evening was attended by students, professors, MSP and MPhA and would not have been possible without the support of the Faculty of Pharmacy and the hard work of many volunteers. The event was awe-inspiring and brought colleagues together under one roof for a fantastic evening that we hope to continue as an annual event.

So maybe you can see why I am so grateful to get to work with this amazing group of people that I am honoured to call colleagues. We have set the bar high and made our Faculty well-known and stand out from others across Canada. As I’ve said in the beginning, I am thankful for the experiences over the past four years and wouldn’t change a thing. I want to thank everyone for this amazing opportunity and the Faculty for their amazing support, mentorship, care and guidance as I wouldn’t be where I am today without them. Having said that, I look forward to what the future will bring for me and my fellow classmates (as we prepare for our PEBCs) and everyone else in the Faculty of Pharmacy.

Scott Andresen, Senior Co-Stick
Students, Alumni Come Out for Annual White Coat Ceremony

The Faculty of Pharmacy’s annual White Coat Ceremony was highly represented by pharmacy students from the not only from the present but the past as well. Graduates from the 1952 and 1962 class and former co-sticks joined pharmacy faculty members, association members, family and friends to welcome the 55 new pharmacy students and congratulate the award winners from the undergraduate pharmacy program on September 17th.

The Dean of Pharmacy, Dr. Neal Davies, hosted the White Coat Ceremony. The Registrar of the Manitoba Pharmaceutical Association, Mr. Ronald Guse served as the guest speaker taking inspiration from a famous doctor, Dr. Seuss!

Accomplishments of students from all four years of the pharmacy were not overlooked. Thirty-four students were presented with awards by Dr. Neal Davies and Ms. Janice Bailey. In addition, Dr. Yuewen Gong presented Nathan Baart, Alicia Dash, Amelia MacDougall, Heather MacPhee, Jordan Nash and Lucy-Rose Vuong with Summer Student Research Awards. Dr. Alessi-Severini and Ms. Kelly Brink presented the Preceptor of the Awards.

Preceding the awards presentation Glen and Millie Ritchie, Howard Zink, Evelyn Nixon and Glen McIver from the graduating class of 1962 were joined by Ralph Whitfield from the class of 1952 and Eric Bays from the 1955 class to present the 55 new students with a white lab coat. The presentation of the lab coat is a time honoured tradition symbolizing the entry into the pharmacy profession. Upon receiving their lab coats Dr. Harris Iacovides led the students in reciting the Pledge of Professionalism.

The ceremony concluded with the retirement of the existing pharmacy sticks and the introduction of the new sticks. Millie Ritchie and Glen McIver represented the sticks of 1962 and Scott Andresen and Jillian James represented the sticks of 2013. Dr. Neal Davies invited all guests to the Apotex Centre for a reception.
Students Compete in Mr. Pharmacy Pageant

Pharmacy students held a Mr. Pharmacy Pageant to raise money for Prostate Cancer Research and Movember.

Mr. Pharmacy Pageants have been taking place at other pharmacy Faculties across the country and it was the University of Manitoba’s time to find their own Mr. Pharmacy. Mr. Pharmacy is someone who is calm, cool and collected. He is both respected and respectful as well as leads by example in the classroom, workplace and community. The contestants included Alexei Berdnikov, Riley MacCharles (1st year), Ryan Rohan Persaud, Shawn Chohan (2nd year), Jeff Ngo, Eddie Ahoff (3rd year), Cody Hotel and Denys Borovytskyy (4th year). The contestants would be competing in various events throughout the night to win the title of Mr. Pharmacy.

Dinner was served at Canad Inns Polo Park at the beginning of the holiday season. As dessert was served the main event began with the introduction of the judges, Dr. Vercaigne, Mrs. Kleiman, Ms. Ng and Dr. Cote. The contestants set the mood by starting the pageant with a choreographed dance. Their energy and excitement percolated throughout the crowd. Next was the professional dress section where the boys showed that Mr. Pharmacy is not only a respected professional but also an impeccable dresser. Outfits ranged from fitted suits, crisp lab coats and even a vest with a strategically placed picture of Mrs. Kleiman, one of the judges. The pageant continued with the contestants competing in a pill counting competition, where the quickest and most accurate counter received top marks. Though dispensing and counting are both part of Mr. Pharmacy’s job, he also has to have sound professional judgment. Mr. Ron Guse, the winner of the best mustache, presented the contestants with ethical questions. Each contestant spoke from the heart and often put their patients before themselves in their answers and in their practices. The night finished with each contestant showcasing their talents outside of the practice of pharmacy. They dazzled the crowd with juggling, singing, dancing, public speaking, work out instruction and even how to make ice cream using dry ice. Their talents proved to be the highlight of the show and all were met with energetic applause. At the end of the evening the first Mr. Pharmacy was crowned, and the winner was Jeffrey Ngo. All the contestants showed that Mr. Pharmacy is a professional who excels in all aspects of life. The night continued with a dance and lots of pictures with the new found celebrities of the faculty.

Overall the evening was a huge success raising $3000 for the Movember Foundation and beginning a tradition that the students hope is carried on for years to come.
Students

Undergraduate Enrolment

In 2012-2013, 55 students were offered positions in the Pharmacy program. Of these, 34 had attended an urban high school and 15 had attended rural high schools in Manitoba; three had attended high schools in other provinces and the remaining three did not provide the data. Thirteen students had already completed a university degree, 10 students had completed three or more years of university study, 13 students had at least two years of study and the remaining 19 had completed the required one year of university study.

Table 1: Student Profile 2012-2013

<table>
<thead>
<tr>
<th>Year</th>
<th>Female</th>
<th>Male</th>
<th>Total</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>34 (62%)</td>
<td>21 (38%)</td>
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<td>2</td>
<td>23 (45%)</td>
<td>28 (55%)</td>
<td>51</td>
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<tr>
<td>3</td>
<td>33 (63%)</td>
<td>19 (37%)</td>
<td>52</td>
</tr>
<tr>
<td>4</td>
<td>31 (56%)</td>
<td>24 (44%)</td>
<td>55</td>
</tr>
</tbody>
</table>

Total 121 (57%) 92 (43%) 213

The total number of applications for entry to the Faculty in 2012-2013 was 301, compared to 307 in 2011-2012.

Graduates

The Faculty graduated 54 undergraduate students in 2012-2013:

Lindsay Alvero  Michael Giannuzzi  Naresh Patti
Scott Andresen  Cody Hotel  Carolanne Pollock
Nathan Baart  Kurtis Houlin  Katelyn Roehl
Allison Bacon  Chelsea Huang  Devin Ross
Brendan Ball  Michelle Huyber  Parveen Samra
Renata Blahey-Hasay  Zachary Kroeker  Myralie Sanchez
Jaden Brandt  Daniel Kyrzyk  Abbey Schamber
Jessica Cheung  Christopher Lawson  Pawandeep Sidhu
Magkie Cheung  Dennis Le  Bethany Simpkin
Aaron Chu  Stephen Lewis  Robyn Small
Maya Dang  Bryn Lindsay  Sara Smith
Jennifer Dannefaer  Heather MacPhee  Sarah Stroeder
Alicia Dash  Justine Manulak  Mark Takla
Garrett Davey  Alisha McCulloch  Linda Tran
Christopher Dupont  Nicole Robi Messinbird  Graham Trott
Carrie Evans  Alexandra Nahnybida  Lucy-Rose Vuong
Nathan Friesen  Jordan Nash  Lesley Worsnop
Kimberly Galvin  Kristin Nelson  Ryan Yanke
Interprofessional Education Initiative

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 system.

The U of M Interprofessional Education Initiative (IPE), led by Dr. Ruby Grymonpre, was created in 2008 by the Deans of the health sciences academic units within the university. The IPE Coordinator and chairs of the working groups report on a regular basis to the Steering Committee which is comprised of the Deans of the participating academic units.

A Liaison Advisory Committee, with faculty representation from each of the academic units involved and representation from WRHA, 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 (Nancy Kleiman) and IP Clinical Placements (Kelly Brink).

IPE Events for 2012-2013

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

"Learning Health Promotion Interprofessionally": This event was held simultaneously on both campuses in October 2012 (271 students from 5 academic units) and again in March 2013 (481 students from 9 academic units). 2nd year pharmacy students participate in the March session each year with 5 faculty members acting as facilitators. Those involved this year were Drena Dunford, Chris Louizos, Sheila Ng, Kelly Brink and Nancy Kleiman. The time invested by faculty members who participate is greatly appreciated as this event would not happen without facilitators.

Nightmare/Nightcare IPE Event: This is the second year that Pharmacy was able to participate in this event. Pharmacy was represented by eight 3rd year pharmacy students who were able to work with 4th year nursing students and 2nd year medical students in a simulated ward. The event simulates an overnight shift with 10 different “patients” in 2 identical wards. Students were directly supervised by faculty members from each of the 3 participating groups. Supervisors for this event were 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.

IPE Initiative website: http://umanitoba.ca/programs/interprofessional/about_us/index.html

Submitted by Nancy Kleiman, Faculty of Pharmacy IPE Liaison
Shine the Light Initiative was founded by Dr. Brent Wong of Shine Dental and his wife Wendy Wong in 2004. The organization brings dental aid, medical aid, education and home building programs to impoverished communities. Since January 2011, the organization has focused its efforts in the village of Nuevo Renacer, Dominican Republic. Working with the community and two local pastors, an average of 5 houses per year have been built for families in need.

In May 2013, we joined a team of 29 volunteers which made up the building, medical and dental teams. The dental team comprised of hygienists and dentists who performed cleanings, extractions and oral health education. The building team worked on two houses in Nuevo Renacer, which means “new birth” in Spanish. The village was formerly known as Agua Negra, meaning “black water”. The village was built on a dump site where the roads were higher than the houses and rain would seep into the houses, like a gutter. The name Nuevo Renacer reflects the growth and improvement of the community, in part due to the work of Shine the Light and other organizations. We contributed to the building of the two homes, where we learned how to tie rebar and mix cement by hand. We enjoyed the breaks from working to play with the local children and our group also went to help out at a feeding program to provide a healthy meal to malnourished children. Although we spent most of time at the medical clinics we enjoyed these experiences and felt moved to be involved and welcomed into their communities.

Our medical team comprised of three nurses, one pharmacist, two pharmacy students (us!) and one interpreter. We joined with Dr. Kerolle, a local doctor, and his team to provide clinics for the residents of poverty-stricken villages. Each day we visited a different village and set up our clinic in spaces such as churches, community centres and schools. Some of the villages we went to include Lacinega, Cabarete and Ascension, to name a few. Patients were first triaged by the nurses, examined by the doctor and then came to the pharmacy to receive their prescription and counselling. We were very busy dispensing prescriptions and providing patient counselling via our translators. Our patients suffered from conditions such as various fungal and bacterial skin infections, uncontrolled diabetes, nutrient deficiencies and parasite infections. Although it was difficult to communicate, we felt that the patients appreciated our work and had a sense of hope that people thousands of kilometers away care about their community and will continue to provide sustainable aid.

We greatly enjoyed our time in Dominican Republic and felt that we were helping each person we saw, making a small difference in their life. We would highly recommend this experience to other students and anyone who has a desire to volunteer overseas for communities in need.

Submitted by: Amanda Li and Samantha Maryk
Convocation Ceremony 2013

The Pharmacy Class of 2013 celebrated their convocation on Thursday, May 30th, with 54 new pharmacists graduating into the profession. We congratulate them on their achievements as they take the next step in their careers.

Bagpipes announced the beginning of the graduation ceremony as the Dean of Pharmacy, Dr. Neal Davies, entered the Brodie Centre from the Apotex Centre. The hooding of graduates was performed by Associate Deans Dr. Xiaochen Gu and Dr. Yuewen Gong. The valedictorian address was provided by Mr. Christopher Dupont.

MPhA president Kyle MacNair [BSc(Pharm)00] presented the MPhA Gold Medal and President’s Prize to Lesley Worsnop, and the MPhA Silver Medal to Devin Ross. Canadian Society of Hospital Pharmacists (CSHP) Manitoba Branch President Nicole Nakatsu presented the CSHP (MB Branch) award to Justine Manulak. The Manitoba Society of Pharmacists (MSP) A. Langley Jones Leadership Award was given to Jessica Cheung by MSP Vice-President Scott McFeetors [BSc (Pharm)88].

Dean Davies presented the Fourth Year Teaching Award to Dr. Lavern Vercaigne [BSc(Pharm)91], who then offered the faculty address. Dr. Sheryl Zelenitsky [BSc(Pharm)89] read the graduate names as Dean Davies handed out certificates. Dr. Gu gave the graduates their mortar and pestles and MPhA President MacNair presented the MPhA pins.

The senior stick address was provided by Scott Andresen [BSc(Pharm)13], which was followed by the group photo and mortarboard toss. Guests celebrated in the Apotex Centre for two days until the Pharmacy Graduation Ball at the Fairmont Hotel on June 1st.

Dean’s Honour List 2012-2013

Year 1
Matthew Buchok
Doris Cheung
Jacy Howarth
Nicholas Malzahn
Marlena Stewart
Emily Wright

Year 2
Alysha Dudych
Stephanie Gautron
Ruth Habte
Joel Hart
Riley Love
Samuel Shuster

Year 3
Morgan Albisser
Heather Bourns
Ashley Ewasiuk
Heidi Marschall

Year 4
Brendan Ball
Jessica Cheung
Magkie Cheung
Jennifer Dannefaer
Garrett Davey
Christopher Dupont
Nathan Friesen
Kurtis Houlin
Daniel Kyrzyk
Christopher Lawson
Dennis Le

Justine Manulak
Alexandra Nahnybida
Jordan Nash
Katelyn Roehl
Devon Ross
Parveen Samra
Graham Trott
Lesley Worsnop
Graduand Exit Survey, 2013

As part of our ongoing program evaluation the Faculty of Pharmacy continued the online survey and facilitated focus groups process for students to provide feedback on their pharmacy education and transition to the profession. Invitations to participate were extended to all students in the 4th Year pharmacy class.

The following summarizes the responses from 51 students who completed the online survey and participated in the focus groups in March 2013. Of the respondents, 94.1% planned to obtain licensure to practice pharmacy. There was also interest in pursuing further studies in a Pharm.D. (33%), Masters or Ph.D. in pharmacy (8%), non-pharmacy degree (17.6%) or pharmacy residency (9.8%). Only 13% indicated a lack of interest in pursuing more formal education or training.

Of the respondents, 27 (67.5%) indicated that they had already secured a practice position following graduation while 13 persons indicated that they had not secured a position. Of those with positions, 70% were with a chain pharmacy, 13.3% with an independent pharmacy and 16.7% with a hospital pharmacy. Seventy four percent of practice sites were in Winnipeg, whereas 13% were outside the city but within the province of Manitoba. Respondents indicated a salary of $80,000-$100,000 in 81.6% of cases and >$100,000 in 15.8% of cases.

The exit survey/focus groups gathered valuable feedback from graduands on the Pharmacy curriculum. The following summarizes the results from students who responded to the online survey, and data collected during the focus groups. Students agreed (80.4%) or strongly agreed (17.6%) that they are prepared to apply the specialized body of pharmacy knowledge for the benefits of patients and the profession. Eighty-eight percent also agreed or strongly agreed that they are able to work collaboratively as a part of an inter-professional team. Ninety-six per cent of the students expressed satisfaction with the overall program. Strengths of the pharmacy curriculum were identified as the quality of their clinical education, small class sizes and access to expert clinicians and practitioners in courses and experiential training. Students again suggested a re-structuring of pharmacy pre-requisites and the 1st Year pharmacy program, and enhancing the quality control and improvement measures for instruction and student assessment. Changes have been made in the first three years of the program based on this feedback.
Undergraduate Student Awards

Doris Cheung (Year 1) and Jaclyn Deonarine (Year 2): 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.)


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

Jacy Howarth, (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.

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

Jenna Hawkins and Nicholas Malzahn (Year 1): Procurity Pharmacy Services Inc. Award. Outstanding merit (great aptitude) in Skills Lab I (PHRM1100). TWO AWARDS are granted. Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5.

Joel Hart and Nicholis St. Goddard, (Year 2): Procurity Pharmacy Services Inc. Award. Outstanding merit in Skills Lab II (PHRM2100). TWO AWARDS are granted. Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5.

Samuel Shuster, (Year 2): Petasko 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.

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

Heather Bourns, (Year 3): Dr. A.W. Hogg Undergraduate Scholarship. Highest standing in the Faculty of Pharmacy.

Jaclyn Deonarine, (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.

Stephanie Gautron, (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.

Robyn Small (Year 4): 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.

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

Amy Lo, (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 PHRM2100: Jurisprudence Section.


Kulwant Singh, (Year 2): Mrs. Ethel Roberts Memorial Prize. Outstanding merit in second year pharmacy. NOT TENABLE with other awards.


Kristen Poncsak, (Year 2): Donald J. Forsyth Memorial Scholarship. Outstanding merit in second year pharmacy.


Alia Marcinkow, (Year 3): The Mike Kupfer Memorial Award (student nominated). Participated in student activities; demonstrated high degree of empathy of fellow students.

Morgan Albisser & Samantha Smith (Year 3): Procurity Pharmacy Services Inc. Award. Outstanding merit in Skills Lab III (PHRM3100). TWO AWARDS are granted. Obtained grade no less than B+ in course; achieved minimum cumulative GPA of 3.5.

Heather Bourns, (Year 3): Novopharm Ltd. Scholarship in Medicinal Chemistry. Highest aggregate standing in first, second, and third year medicinal chemistry. Given along with Flexon Silver Medal (same criteria.)
Undergraduate Student Awards ... cont.

Riley Love, (Year 2): Isbister Scholarship in Pharmacy. Highest standing in any year (first, second, third.)

Heather Bourns, (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.

Sue Wong, (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.

Morgan Albisser (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.

Ashley Ewasiuk, (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.

Jillian James, (Year 3): 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.


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

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

Heather Bourns, (Year 3): Flexon Silver Medal. Highest aggregate standing in Medicinal Chemistry courses (same criteria for Novopharm Med Chem Award #22409.)

Heather Bourns, (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.
Students

Undergraduate Student Awards ... cont.

Amanda Li, (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 CPhA student Member.

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

Nathan Friesen, (Year 4): David Stern Memorial Scholarship. Highest standing Pharmacy Practice Management (PHRM4230) and who plans to pursue a career in retail pharmacy. (96.7%.)

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

Justine Manulak, (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.


Devin Ross, (Year 4): 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.

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

Lesley Worsnop, (Year 4): University Gold Medal. Highest standing in Pharmacy. Based on degree GPA.

Lesley Worsnop, (Year 4): MPhA Gold Medal in fourth year Pharmacy. Highest GPA second, third, fourth year (pharmacy courses only.)

Devin Ross, (Year 4): Abraham Schwartz Prize. Highest standing in B.Sc. (Pharm.)
Undergraduate Student Awards ... cont.


Brendan Ball & Stephen Lewis, (Year 4): Procurity Pharmacy Services Ltd. Award (2). Highest standing in PHRM4230 Pharmacy Practice Management.

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

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

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

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

Lesley Worsnop (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.
MPhA awards recognize U of M grads

Congratulations to the deserving alumni who won 2013 Manitoba Pharmaceutical Association awards:

The following awards were presented at the Annual Awards Banquet on April 6 at the Delta Hotel:

- Pfizer Bowl of Hygeia – Lothar Dueck [BSc(Pharm)/74]
- 2012 Pharmacist of the Year – Grant Lawson [BSc(Pharm)/68], [MSc(Pharm)/70]
- Bonnie Schultz Memorial Award for Practice Excellence – Dr. Jamie Falk [BSc(Pharm)/97], [PharmD/04], University of British Columbia
- Patient Safety Award – Susan Lessard-Friesen [BSc(Pharm)/83]
- Honourary Life Membership – Lois Cantin [BSc(Pharm)/73]

The following award-winning alumni were honoured at the Annual Awards Luncheon on April 7th at the Winnipeg Convention Centre:

**BSc(Pharm) graduates from the class of 1963 who received 50-Year Gold Pins and Certificates:**
- Ted Bartman
- Garry McManus
- Jud Scales
- Allan Shinfield

**BSc(Pharm) graduates from the class of 1988 who received 25-Year Silver Pins and Certificates:**
- Murvin Abas
- Angela (Jakimeczko) Adamson
- Caterina Bueti
- Darwin Cheasley
- Carla Dribnenky
- Cecile Dumesnil
- Ronald Eros
- Warren Hicks (1987)
- Vincent Huynh
- Barbara Khoe
- Jeannie Lee
- Donald Scott McFeetors
- Sandra (Sichewski) Negrey
- Sam Nocita
- Petr Prochazka
- Marty Sexton
- Grant Sklar
- Tamara Strecker
- Edmund Yu
First Distinguished Alumni Award Presented

On September 17, 2012 the first Faculty of Pharmacy Outstanding Alumni Award was presented to Dr. Wayne K. Anderson. Wayne Anderson received a BSc.(Pharmacy) in 1962 and a MSc. (Pharmaceutical Chemistry) 1964 from the University of Manitoba Faculty of Pharmacy. He received a Ph.D. in medicinal chemistry from the University of Wisconsin, School of Pharmacy Madison, Wisconsin: Ph.D.in 1968.

Dr. Anderson joined The State University of New York School University at Buffalo School of Pharmacy and Pharmaceutical Sciences in 1968 as an Assistant Professor. He served as the Associate Chair of Medicinal Chemistry (1994-1996), Director of the University at Buffalo’s Pharmaceutical Sciences Training Grant Program and Director of the Training Grant on Cancer Drug Development before becoming Interim Dean in 1995 -1997. He is currently a Professor of Pharmaceutical Sciences with a joint appointment as Professor of Chemistry since 2002.

Dr. Anderson’s research focused on the design, synthesis and development of anticancer and anti-HIV agents, and the study of enzyme inhibitors. He has published over 100 peer-reviewed manuscripts, holds eight patents. He received continuous research funding from the National Institutes of Health -National Cancer Institute from 1969-1997.

Thirty nine students received graduate degrees under his supervision (30 PhD and 9 MSc); 30 post-doctoral fellows trained in his laboratory and more than 50 undergraduate research fellows conducted research projects in his laboratory. Dr. Anderson has taught courses at both the undergraduate and graduate level in medicinal chemistry, chemistry, biochemical pharmacology, and pharmacy.

Dr. Wayne K. Anderson was appointed as the tenth Dean of the University at Buffalo School of Pharmacy and Pharmaceutical Sciences in November 1997 a position which he has held continuously for the past 15 years.

Dr. Anderson was a member of the University of Buffalo Faculty Senate Executive Committee, Secretary of the University of Buffalo Faculty Senate and a chair or member of a number of University committees. Dr. Anderson was named as the Niagara Frontier Inventor of the Year in 1988; he received a New York State/United University Professors Excellence Award in 1990 and received a Buffalo Ambassador Award in 1993. In 2006 he received the State University of New York Teachers Insurance and Annuity Association – College Retirement Equities Fund Lifetime Achievement Award, He is a member of the Phi Lambda Sigma, Rho Chi, and Sigma Xi honor societies, and is listed in Who’s Who in Science and Engineering, Who’s Who in the East, Who’s Who in America, and Who’s Who in the World.

From 1996-2012 Dr. Anderson has raised approximately $35 million in philanthropic, grant and foundation support for the School of Pharmacy and Pharmaceutical Sciences for student scholarships, education and health care initiatives, innovative research support, and state-of-the-art research instrumentation and a new pharmacy building to advance the profession of Pharmacy.

Congratulations Dr. Anderson we are proud to have you as a distinguished alumni of our pharmacy program.
Perspective of an out of towner!

Vincenzo Lamonica [BSc(Pharm)/83 wanted to become a pharmacist and as such applied to many pharmacy schools in hopes that one would see him as a candidate for their program. Lucky for us, we offered Vincenzo a position in our school and in 1980 he ventured west from his home in Toronto to learn and live in a city he had never visited before.

After arriving at the airport, he made his way to Student Services at the Fort Garry campus to check out the options for housing and was surprised to find a great location on Grosvenor. It had a room and kitchen which was all he needed. He spent four years there and says it was the perfect spot for a student as it was quiet and the rent was affordable. Vincenzo knew all along that he would return to his home province to practice after graduation but has never forgotten his alma mater. He has made the University of Manitoba a priority in his personal philanthropy and for over 20 years, he has supported the Faculty of Pharmacy with gifts to both the Pharmacy Endowment fund and the Building Fund. His giving reflects a desire to “pay it back” and his philosophy is “if you throw a piece of bread into the river, it comes back to you as cake”. Vincenzo has decided to give to the faculty’s endowment fund as, “It gives the pharmacy school the flexibility to use the interest generated by the endowment fund to wherever it feels it is needed”.

Vincenzo has great memories of many of his professors including Dr. John Hubbard and Dean John Steele and joined his classmates in 1988 to celebrate their 5 year reunion at the Lake of the Woods area. He hopes to be able to come back in 2013 and celebrate 30 years at the new Apotex Centre.

Vincenzo has always worked for independent pharmacies in Ontario and has been at the busy Derry Road Pharmacy in Mississauga for 12 years. It has two full time and one part time pharmacists and regularly dispenses 300-400 prescriptions per day. Previously, he has worked at Caledian and Gould’s pharmacies and is planning on working for another10-15 years. One of his daughters is following in his footsteps as she is enrolled in the US in a PharmD program.
# Endowment Fund

## Endowment Committee

The Pharmacy Endowment Committee met on November 5, 2012 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: Neal Davies (chair), Nancy Kleiman, Keith Simons, Frank Burczynski, Mike Namaka, Susan Lessard-Friesen (MPhA), Jillian James (third year co-stick), Casey Sayre (graduate student), Pat Kopp and Cheryl Lee (recorder).

This fund was established in 1986. Contributions are derived from various donors and on an annual basis from the undergraduate students. The undergraduate students pay $110 through their student fee assessment. Every three years, the students have a referendum to vote on the contribution. The last referendum was held in September 2010, where students voted to each contribute $110 per year for a three year term beginning in September 2011. The money is allocated as follows: 45% to the Endowment fund, 45% to the Student Initiative fund and 10% to the WISH Clinic.

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

## ENDOWMENT FUND SPENDING 2012-2013

<table>
<thead>
<tr>
<th>REQUEST</th>
<th>REQUEST FROM</th>
<th>AMOUNT REQUESTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Catastrophic Fund</td>
<td>Standing Request</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>PDW subsidy for registration cost</td>
<td>Ashley Ewasiuk</td>
<td>$4,000.00</td>
</tr>
<tr>
<td>Undergraduate student summer research funding</td>
<td>Yuewen Gong</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>Christmas Dinner/ Mr. Pharmacy Pageant</td>
<td>Lisa Lagimodiere</td>
<td>3,611.00</td>
</tr>
<tr>
<td>ÄKTA Purifier UPC 10 FPLC</td>
<td>Ted Lakowski</td>
<td>$15,000.00</td>
</tr>
<tr>
<td>Graduation Dinner Donation</td>
<td>Justine Manulak, Sara Smith</td>
<td>$5,000.00</td>
</tr>
<tr>
<td><strong>TOTAL REQUESTED</strong></td>
<td></td>
<td><strong>$47,611.00</strong></td>
</tr>
<tr>
<td>Balance remaining of endowment funds</td>
<td></td>
<td><strong>$ 0</strong></td>
</tr>
</tbody>
</table>
Philanthropy

Endowment Fund ... cont.

### Catastrophic Research Fund

<table>
<thead>
<tr>
<th>Period</th>
<th>Funding Provided</th>
<th>Interest In</th>
<th>Expenses Description</th>
<th>Amount Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Balance</td>
<td>28,102</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2004-05</td>
<td>5,000</td>
<td></td>
<td>HPLC major repair (X. Gu)</td>
<td>2,252</td>
</tr>
<tr>
<td>2005-06</td>
<td>5,000</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2006-07</td>
<td>5,000</td>
<td></td>
<td>HPLC repairs (X. Gu)</td>
<td>1,800</td>
</tr>
<tr>
<td>2007-08</td>
<td>5,000</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2008-09</td>
<td>5,000</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2009-10</td>
<td>5,000</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2010-11</td>
<td>5,000</td>
<td></td>
<td></td>
<td>0</td>
</tr>
<tr>
<td>2011-12</td>
<td>5,000 1,725</td>
<td></td>
<td>Transfer to the Research and Support Fund</td>
<td>35,775</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>December 2011, Tablet Press</td>
<td>5,320</td>
</tr>
<tr>
<td>2012-13</td>
<td>5,000 2,961</td>
<td></td>
<td>HPLC repairs (X. Gu)</td>
<td>2,641</td>
</tr>
</tbody>
</table>

**Funds Available** 30,000

### Research and Support Fund

<table>
<thead>
<tr>
<th>Period</th>
<th>Funding Provided</th>
<th>Interest In</th>
<th>Expenses Description</th>
<th>Amount Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Balance</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2011-12</td>
<td>35,775</td>
<td></td>
<td>Cryostat (HPLC Room 328)</td>
<td>27,564</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Biosafety Cabinet (Zelenitsky/Iacovides Lab)</td>
<td>8,037</td>
</tr>
<tr>
<td>2012-13</td>
<td>0</td>
<td></td>
<td></td>
<td>0</td>
</tr>
</tbody>
</table>

**Funds Available** 174

Catastrophic Research Fund 30,000
Research and Support Fund 174

**TOTAL 30,174**
Graduate Studies Committee Report 2012-2013

Faculty of Pharmacy, Graduate Studies Committee:
Dr. Hope Anderson, Chair
Dr. Shawn Bugden
Dr. Frank Burczynski
Dr. Christine Davis (-April, 2013)
Dr. Yuewen Gong
Dr. Brian Hasinoff
Ms. Stephanie Martinez, graduate student representative
Ms. Lisa Zhang, administrative support

1. OVERVIEW OF FACULTY OF PHARMACY GRADUATE ACTIVITIES FOR 2012-2013

Summary of Graduate Students, as of June 1, 2013

<table>
<thead>
<tr>
<th>Number of continuing graduate students, as of June, 2012</th>
<th>M.Sc.</th>
<th>Ph.D.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>Number of incoming graduate students</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Total number of graduate students</td>
<td>10</td>
<td>9</td>
</tr>
</tbody>
</table>

New Students, 2012-2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Program</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Bolanle Akinwumi</td>
<td>Ph.D.</td>
<td>Dr. Hope Anderson</td>
<td>September 2012</td>
</tr>
<tr>
<td>Ms. Noor Breik</td>
<td>M.Sc.</td>
<td>Dr. Silvia Alessi-Severini</td>
<td>January 2013</td>
</tr>
<tr>
<td>Ms. Tina Khorshid Ahmad</td>
<td>M.Sc.</td>
<td>Dr. Mike Namaka</td>
<td>January 2013</td>
</tr>
<tr>
<td>Ms. Zhanni Weber</td>
<td>M.Sc.</td>
<td>Dr. Sheryl Zelenitsky</td>
<td>September 2012</td>
</tr>
<tr>
<td>Mr. Sarandeep Singh Malhi</td>
<td>Ph.D.</td>
<td>Dr. Xiaochen Gu</td>
<td>May 2013</td>
</tr>
</tbody>
</table>

List of Current Master Students, as of June 1, 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Supervisor</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Ms. Crystal Acosta</td>
<td>Dr. Mike Namaka</td>
<td>January 2012</td>
</tr>
<tr>
<td>2 Ms. Samaa Akrushaid (on leave 01/13-08/13)</td>
<td>Dr. Lean Chee, then Dr. Neal Davies</td>
<td>January 2010, May 2013</td>
</tr>
<tr>
<td>3 Ms. Tina Khorshid Ahmad (on leave 01/13-08/13)</td>
<td>Dr. Mike Namaka</td>
<td>January 2013</td>
</tr>
<tr>
<td>4 Ms. Noor Breik</td>
<td>Dr. Silvia Alessi-Severini</td>
<td>January 2013</td>
</tr>
<tr>
<td>5 Mr. Kevin Hamilton</td>
<td>Dr. Christine Davis</td>
<td>January 2012</td>
</tr>
<tr>
<td>6 Ms. Sarita Jha</td>
<td>Dr. Silvia Alessi-Severini</td>
<td>July 2011</td>
</tr>
<tr>
<td>7 Mr. Ryan Lillico</td>
<td>Dr. Lean Chee, then Dr. Ted Lakowski</td>
<td>May 2012, then May 2013</td>
</tr>
</tbody>
</table>
### List of Current Master Students, as of June 1, 2013 ctd.

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Supervisor</th>
<th>Start Date</th>
<th>Oral Defence</th>
<th>Graduation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Siyan Wang</td>
<td></td>
<td>Dr. Lean Chee, then Dr. Frank Burczynski</td>
<td>May 2012, then May 2013</td>
<td>August 8, 2012</td>
<td>October 2012</td>
</tr>
<tr>
<td>Ms. Zhanni Weber</td>
<td></td>
<td>Dr. Sheryl Zelenitsky</td>
<td>September 2012</td>
<td>June 7, 2012</td>
<td>October, 2012</td>
</tr>
<tr>
<td>Ms. Sidi Yang</td>
<td></td>
<td>Dr. Emmanuel Ho</td>
<td>September 2011</td>
<td>November 23, 2012</td>
<td>February 2013</td>
</tr>
</tbody>
</table>

### List of Current Ph.D. Students, as of June 1, 2013

<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Supervisor</th>
<th>Start Date</th>
<th>Oral Defence</th>
<th>Graduation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Bolanle Akinwumi</td>
<td>M.Sc.</td>
<td>Dr. Hope Anderson</td>
<td>September 2012</td>
<td>August 8, 2012</td>
<td>October 2012</td>
</tr>
<tr>
<td>Mr. Basma Aloud</td>
<td></td>
<td>Dr. Hope Anderson</td>
<td>September 2010</td>
<td>June 7, 2012</td>
<td>October, 2012</td>
</tr>
<tr>
<td>Mr. Yufei Chen</td>
<td></td>
<td>Dr. Emmanuel Ho</td>
<td>May 2011</td>
<td>November 23, 2012</td>
<td>February 2013</td>
</tr>
<tr>
<td>Ms. Yan Lu</td>
<td></td>
<td>Dr. Hope Anderson</td>
<td>September 2010</td>
<td>June 5, 2012</td>
<td>October 2012</td>
</tr>
<tr>
<td>Ms. Stephanie Martinez</td>
<td></td>
<td>Dr. Neal Davies</td>
<td>January 2012</td>
<td>November 23, 2012</td>
<td>February 2013</td>
</tr>
<tr>
<td>Mr. Sarandeep Singh Malhi</td>
<td></td>
<td>Dr. Neal Davies</td>
<td>May 2013</td>
<td>June 5, 2012</td>
<td>October 2012</td>
</tr>
<tr>
<td>Mr. Casey Sayre</td>
<td></td>
<td>Dr. Neal Davies</td>
<td>September 2011</td>
<td>November 23, 2012</td>
<td>February 2013</td>
</tr>
<tr>
<td>Ms. Dana Turcotte</td>
<td></td>
<td>Dr. Mike Namaka</td>
<td>May 2007</td>
<td>June 5, 2012</td>
<td>October 2012</td>
</tr>
<tr>
<td>Ms. Tao Wang</td>
<td></td>
<td>Dr. Xiaochen Gu</td>
<td>January 2005</td>
<td>August 8, 2012</td>
<td>October 2012</td>
</tr>
</tbody>
</table>
Graduate Studies Committee Report 2012-2013  ... cont.

**Graduates ctd.**

<table>
<thead>
<tr>
<th>#</th>
<th>Name</th>
<th>Degree</th>
<th>Supervisor</th>
<th>Date of Exam</th>
<th>Date of Proposal</th>
</tr>
</thead>
</table>
| 5  | Mr. Ousama Rachid| Ph.D.  | Dr. Keith Simons\(^1\)  
  Dr. Estelle Simons\(^1\)  
  Dr. Yuewen Gong\(^2\)  
  Dr. Brian Hasinoff\(^2\)  
  Dr. Archie McNicol\(^3\)  
  Dr. Shirley Wu\(^4\) | March 5, 2013 | May 2013 |
| 6  | Mr. Parvez Vora  | Ph.D.  | Dr. Mike Namaka\(^1\)  
  Dr. Silvia Alessi-Severini\(^2\)  
  Dr. Christine Davis\(^2\)  
  Dr. David Eisenstat\(^3\)  
  Dr. Tammy Ivanco\(^3\)  
  Dr. Timothy Kennedy\(^4\) | June 11, 2012 | October 2012 |
| 7  | Mr. Wenjun Zhu   | Ph.D.  | Dr. Mike Namaka\(^1\)  
  Dr. Yuewen Gong\(^2\)  
  Dr. Xiaochen Gu\(^2\)  
  Dr. Maria Vrontakis-Lautatzis\(^3\)  
  Dr. Lan Xiao\(^4\) | October 25, 2012 | May 2013 |

\(^1\)Advisor; \(^2\)Internal Committee Member; \(^3\)External Committee Member (University of Manitoba); \(^4\)External 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>1 Yufei Chen</td>
<td>Dr. Emmanuel Ho</td>
<td>May 3, 2013</td>
</tr>
<tr>
<td>2 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>1 Yufei Chen</td>
<td>Dr. Emmanuel Ho</td>
<td>May 3, 2013</td>
</tr>
</tbody>
</table>
Graduate Studies Committee Report 2012-2013 ... cont.

**Merit-Based Awards/Scholarships**

<table>
<thead>
<tr>
<th>Award/Scholarship</th>
<th>Recipient(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 2012-2013 Lesley F. Buggey Graduate Scholarship</td>
<td>Zhanni Weber</td>
</tr>
<tr>
<td>2 2012-2013 MPhA/William G. Eamer Graduate</td>
<td>Casey Sayre</td>
</tr>
<tr>
<td>3 2012-2013 Pfizer Canada Inc. Centennial Pharmacy</td>
<td>Stephanie Martinez</td>
</tr>
</tbody>
</table>
| 4 Manitoba Health Research Council Graduate Studentship | Yufei Chen¹  
Yan Lu¹² |
| 5 University of Manitoba Graduate Fellowship | Stephanie Martinez (w/ Manitoba Graduate Scholarship)  
Casey Sayre (w/ Duff Roblin Fellowship & Manitoba Graduate Scholarship) |
| 6 Mechanism-Based Natural Product Development Conference – Poster Award | Stephanie Martinez |
| 7 Evelyn Shapiro Award for Health Services Research | Sarita Jha |
| 8 AFPC/Rx and D – Student Research Poster Award | Sarita Jha |

Funding partner: ¹Faculty of Pharmacy; ²St. Boniface Hospital Research Foundation

**vi. Presentations; Conference Participation**


Graduate Studies

Graduate Studies Committee Report 2012-2013

Presentations; Conference Participation ctd.


Graduate Studies Committee Report 2012-2013 ... cont.

Presentations; Conference Participation ctd.


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 this year to undergo a review. Preparation of the self-evaluation report is underway. Deadline is October 31, 2013.

- **On Pharmacy Graduate Awards Terms of References** -
  At the PGSC meeting on October 3, 2012, the following recommendation was approved: Award terms on cumulative grade-point average (GPA) will be modified, from “Candidates must have achieved cumulative grade-point average of not less than 3.5 in their previous program of study” to “Candidates must have achieved a cumulative grade-point average of not less than 3.5 in the last two years of their previous program of study” (for MphA/William G. Eamer Graduate Scholarship) and “not less than 3.0 in the last two years of their previous program of study (for Leslie F. Buggey Graduate Scholarship). (MphA/William G. Eamer Graduate Scholarship was consider and approved by Senate on January 9, 2013 and the Leslie F. Buggey Graduate Scholarship was considered and approved by Senate on March 6, 2013).

- **On PHRM 7102 Pharmacoepidemiology course** -
  Considered by Senate Executive on October 24, 2012, then approved by Senate on Nov 7, 2012.

- **On Pharmacy supplemental regulations** -
  - Dean Davies appointed Dr. Yuewen Gong as the designated examiner from the Dean’s office for the PhD candidacy exam.
  - At the PGSC meeting on November 21, 2012, the following recommendations were approved (approval by Faculty of Graduate Studies pending):
    - Regarding the Ph.D. candidacy exam, revise the list of examinable themes under the evaluation criterion - the breadth of overall knowledge as pertains to the field of study.
    - Regarding the Ph.D. candidacy exam, add the statement “Alternate themes not listed [above] may be proposed by the advisor, in consultation with the student and the advisory committee, at least 9 months prior to the candidacy exam. These will be considered by the Pharmacy Graduate Studies Committee within 2 weeks of submission and may, or may not, be accepted.”
Lisa Zhang 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 Lisa Zhang. In addition, Lisa needs a copy of the FAAF to record the research and contract grants for the Faculty of Pharmacy. Lisa 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 of $434,233 dollar, researchers in the Faculty of Pharmacy have funded support from April 1, 2012 to March 31, 2013 for 7 research projects as indicated in the Research tool website. In addition, some funding not listed in the Research tool from April 1, 2012 to March 31, 2013 are also included in the report. The detailed information can be found below.
Faculty of Pharmacy Research Report... cont.

Faculty Grants


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

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 ($324,352) 2012-2013 Principal Investigator “Microbicide Development and Characterization Laboratory” Canada Foundation for Innovation (CFI) - Leaders Opportunity Fund

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 ($100,000) 2013-2015 Principal Investigator “Regulation of nuclear protein import in cardiovascular disease states”. CIHR/MHRC RPP

Pierce GN ($653,820) 2011-2016 Principal Investigator “The use of flaxseed as a dietary intervention to modify cardiovascular disease”. CIHR


Pierce GN ($15,000) 2012-2013 Principal Investigator “The Flax-PAD Study: An international research collaboration”. AUCC/LACREG

Pierce GN (£34,000) Feb.-Dec. 2012 Principal Investigator “Advanced bioactive compounds countering the effects of radiological, chemical and biological agents (Yalta, Ukraine)”. NATO Advanced Research Workshop


Faculty of Pharmacy Research Report... cont.

Indirect Costs Funding
In 2012/2013, the Faculty of Pharmacy received $25,000.00 dollar to support the following activities:
$1,380 Grant facilitator
$23,620 Technical support

Under the Physical Plant Portion of ICP (under the Renovations and maintenance of research facilities category)

$50,000 – room 241 – convert computer lab into pharmaceutical analysis lab
$45,000 – incinerator contribution (animal facility)

Shared Research Equipment
In 2012/2013, the Faculty of Pharmacy continued to support research. Equipment purchased in the reported period is listed in the following, which include shared equipment and equipment purchased from individual fund.

- Savant integrated SpeedVac system $13,500.00 Shared
- GE AKTA purifier $48,000.00 TL
- Shimadzu LCMS - 8040 $296,000.00 Shared
- Nitrogen generator $28,000.00 Shared
- Cellometer $21,000.00 Shared
- Climatic chamber $21,000.00 EH
- Spectrophotometer $16,500.00 DC

Post-Doctoral Fellows and Research Associates

<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Post-Doctoral Fellow Research Associate</th>
<th>Professional Associate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Brian Hasinoff</td>
<td>Dr. Arun Yadav</td>
<td>Dr. Kim O’Hara</td>
</tr>
<tr>
<td>Dr. Hope Anderson</td>
<td>Dr. Xing Wu</td>
<td>Dr. Emma Frost</td>
</tr>
<tr>
<td>Dr. Mike Namaka</td>
<td>Dr. Jijin Gu</td>
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<tr>
<td>Dr. Emmanuel Ho</td>
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</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 2012/2013, six pharmacy students participated in the undergraduate summer research program. The students and their advisors are listed in the table below.

Alicia Dash in the lab of Dr. Emmanuel Ho in 2011/12 is the recipient of the 2013 GlaxoSmithKline National Summer Student Research Program Awards. Alicia Dash presented a poster and received the award at the CSPS annual conference at Vancouver in June 2013.

<table>
<thead>
<tr>
<th>Student’s Name</th>
<th>Supervisor</th>
<th>Supported from</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kristjana Britton</td>
<td>Dr. C. Davis &amp; H. Iacovides</td>
<td>Endowment</td>
</tr>
<tr>
<td>Joelle Boileau</td>
<td>Dr. C. Davis &amp; H. Iacovides</td>
<td>Grant</td>
</tr>
<tr>
<td>Amanda Li</td>
<td>Dr. Emmanuel Ho</td>
<td>Grant</td>
</tr>
<tr>
<td>Juliana Nguyen</td>
<td>Dr. Emmanuel Ho</td>
<td>Grant</td>
</tr>
<tr>
<td>Himath Jayasighe</td>
<td>Dr. Xiaochen Gu</td>
<td>Grant</td>
</tr>
<tr>
<td>Nicole Lee</td>
<td>Dr. S. Zelenitsky</td>
<td>Endowment</td>
</tr>
<tr>
<td>Solnaz Nafez</td>
<td>Dr. S. Zelenitsky</td>
<td></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>Janaina Artem Ataide</td>
<td>Dr. Xiaochen Gu</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Rafaela Vieira Da Silva</td>
<td>Dr. Paul Fernyhough</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Juliano Amador da Silva</td>
<td>Dr. Shawn Bugden</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Nayara Moreira</td>
<td>Dr. Emmanuel Ho</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Drielly Cristina Braite</td>
<td>Drs. F. Burczynski</td>
<td>Science without Borders</td>
</tr>
<tr>
<td>Sarah Montiel Gomes Eloi</td>
<td>Drs. F. Burczynski</td>
<td>Science without Borders</td>
</tr>
</tbody>
</table>

1co-supervised with Dr. Judy Anderson in the Department of Biological Sciences in the Faculty of Science
Faculty Publications

Pharmacy researchers continue to be productive in their research programs. For 2012/2013, 80 peer-reviewed publications, 2 book and book chapters, 86 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:**


Bugden S. Should hospital pharmacy departments commit a larger proportion of their clinical resources to ambulatory care/primary care services? CON. Canadian Journal of Hospital Pharmacy. 2012;65(6):461-463.


Li Y, Shen H, Burczynski FJ, Gong Y. Prospect of bone morphogenetic protein-13 in liver diseases. Journal of Central South University (Medical Sciences) 37(1), 2012.
**Faculty Publications ... cont.**

Fan J, Dai Q, Burczynski FJ, Minuk GY, Gong Y. The extent of extracellular signal-regulated kinases (ERsK) phosphorylation determines the sensitivity of hepatic stellate cells to staurosporine-induced apoptosis. Journal of Central South University (Medical Sciences) 37(1), 2012.


Faculty Publications ... cont.


Ho EA, Davies NM Targeting the metabolism of leukemia stem cells as a novel therapeutic strategy. Drugs in Context 212252; doi:10.7573/dic.212252; 2013
**Faculty Publications ... cont.**


**Ho EA**, Osooly-Talesh M, Strutt D, Masin D, Yang Y, Yan H, Bally M. Characterization of long-circulating cationic nanoparticle formulations consisting of a two-stage PEGylation step for the delivery of siRNA in a breast cancer tumor model. Journal of Pharmaceutical Sciences 2013; 102(1):227-236. (This article was ranked as one of the TOP 10 Most Downloaded Articles between January-March 2013).


Thomas D, Koopmans T, **Lakowski TM**, Kreinin H, Bui JM, Vhuiyan MI, Martin NI, Frankel A. Nη-substituted arginyl peptide substrates implicate a conserved His-Asp catalytic dyad in the protein arginine methyltransferase mechanism and reveal divergent rate limiting steps within the enzyme family. ACS Chemical Biology 2013. (In press).


Acosta CMR, Cortes C, MacPhee H, **Namaka MP**. Exploring the Role of Nerve Growth Factor in Multiple Sclerosis: Implications in Myelin Repair. CNS & Neurological Disorders-Drug Targets, in press, 2013,


Faculty Publications ... cont.


Faculty Publications ... cont.


Full Length Papers in Books and Proceedings:


Faculty Conferences and Presentations


Martens P, Raymond C, Targownik L, Alessi-Severini S, Bugden S. “CNODES – A leading edge approach to researching the post-marketing safety and effectiveness of Canadian pharmaceuticals”, Pharmacy Grand Ronds - Seminar Series. Faculty of Pharmacy University of Manitoba (Winnipeg, MB, Canada, January 30, 2013)

Alessi-Severini S. “Ricerca Farmacoepidemiologica all’Universita’ del Manitoba” [Pharmacoepidemiologic research at the University of Manitoba], Universita’ degli Studi di Parma, Dipartimento di Farmacia, Dottorato di Ricerca in Biofarmaceutica-Farmacocinetica (Parma, Italy; November 27, 2012)

Alessi-Severini S. “Utilizzazione dei farmaci antipsicotici nella popolazione del Manitoba, Canada”, [Utilization of antipsychotic medications in the population of Manitoba, Canada], Universita’ degli Studi di Verona, Dipartimento di Sanita’ Pubblica e Medicina di Comunita’, Sezione di Psichiatria, WHO Collaborating Centre for Research and Training in Mental Health and Service Evaluation, Scuola di Specializzazione in Psichiatria, Dottorato di Ricerca in Scienze Psicologiche e Psichiatriche (Verona, Italy, November 16, 2012)


Anderson HD PPAR/DGK signaling in cardiac myocytes. Department of Pharmacology & Therapeutics, University of Manitoba. Winnipeg, Canada. February, 2013. (Invited Speaker)


Faculty Conferences and Presentations ... cont.

**Bugden S.** Controversy Vaccination. Community Based CPD Program, Faculty of Medicine, University of Manitoba. Southern RHA (Boundary Trails Health Centre, Morden/Winkler Dec 6, 2012; Bethesda Hospital, Steinbach, Feb 19th, 2013) (Invited Presentations)


**Bugden S, Nash J.** Pharmacovigilance in the guidance of pharmacy practice vigilance. Canadian Pharmacists Conference, Charlottetown, PEI. June 1-4, 2013. (Abstract)


Faculty Conferences and Presentations … cont.

Gong Y. Role of bone morphogenetic protein 4 in liver disease. The Shanghai Tenth Affiliated Hospital of the Faculty of Medicine, Shanghai Tongji University, Shanghai, China, July 5, 2012.


Grymonpre R, MacDonald L. IPE University of Manitoba Experience. Presented as a keynote symposium at Iowa University, Iowa. May, 2013

Grymonpre R IPE from Preparing students for person-centred interprofessional collaborative practice: Embedding interprofessional learning in the health faculty. Presented as a keynote address at Symposium, Griffith University, Gold Coast, Australia. January, 2013


Grymonpre R, Iacopino A. IPE in Action. Presented as a keynote address at the Deans Summit, Newburg, Oregon, August 2012

Hasinoff BB, Patel D and Wu X, The dual targeted HER1/HER2 tyrosine kinase inhibitor lapatinib strongly potentiates the cardiac myocyte damaging effects of doxorubicin. 7th Meeting of the Oxidative Stress Consortium, 2012.


Wu X, Yalowich JC, Hasinoff BB. Elesclomol (STA-4783) is a potent inhibitor of topoisomerase II. American Association for Cancer Research, 2012.


Faculty Conferences and Presentations ... cont.


Acosta CMR, Cortes C, and 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). 2013 Canadian student health and research forum (CSHRF), Winnipeg, MB, June 4-6, 2013.

Pierce GN, Xth World Congress of the International Society of Adaptive Medicine, Bucharest, Romania, 2012.


Faculty Conferences and Presentations ... cont.

**Pierce GN** 7th Meeting of the Canadian Oxidative Stress Consortium, Lakehead University, Thunder Bay, Canada, 2012.

**Pierce GN** XXII Scientific Forum of the International Congress of Cardiovascular Sciences, Belo Horizonte, Brazil, 2012.

**Pierce GN** 4th Cuba-Canada International Heart Symposium, Holguin, Cuba, 2013.

**Pierce GN** Canadian Nutrition Society Advances in Dietary Fats and Nutrition, Mississauga, Canada, 2013.

**Pierce GN** Advances in Cardiovascular Research from Bench to Bedside, Smolenice, Slovakia, 2013.

**Pierce GN** Peru-Brasil Postdoctoral Joint Meeting on Cardiovascular Sciences, Chiclayo, Peru, 2013.

**Pierce GN** St. Boniface Hospital Foundation Major Gifts Committee, 2012.

**Pierce GN** St. Boniface Hospital Foundation Board of Directors, 2012.

**Pierce GN** Federal Ministers’ Managers, St. Boniface Hospital Research Centre, Winnipeg, 2012.

**Pierce GN** Advancing Health Research with Genomics Symposium, St. Boniface Hospital Research Centre, Winnipeg, 2012.

**Pierce GN** Aging Well Expo, Canadian Mennonite University, Winnipeg, 2013.

**Pierce GN** Heart of a Woman Heart Health Conference, Winnipeg Convention Centre, 2013.


**Fusee R.** Let’s Talk About it - Erectile Dysfunction in Heart Failure. Heart Failure Awareness Day, Winnipeg. May 9, 2013 (Oral presentation)

**Fusee R.** Midazolam and Lorazepam Use in MRI Patients. St. Boniface Hospital MRI Department, Winnipeg. May 29, 2013 (Oral presentation)

**Fusee R.** Keeping Current with CV Care (Conference). Winnipeg June 3, 2013

**Sood AR.** Practice Spotlight: Renal Health Clinics, Manitoba Renal Program. Manitoba Pharmacy Conference, Winnipeg, Manitoba, April 7, 2013. (Invited presentation)


Research

Faculty Conferences and Presentations ... cont.


Woloschuk DMM The immune system. WRHA Pharmacy Program Pharmacy Technician Lunch & Learn Series, Winnipeg, Manitoba, 11 December 2012 (Invited speaker)

Woloschuk DMM Research opportunities in your own practice. 2nd Annual Research and Education Day, Capital Health Pharmacy, Halifax, Nova Scotia, 13 October 2012 (Invited speaker)

Woloschuk DMM Pharmacy practice change: a “Winn-ing” experience. 2nd Annual Research and Education Day, Capital Health Pharmacy, Halifax, Nova Scotia, 13 October 2012 (Invited speaker)


Renaud R, Louizos C, Kristjanson C, Zelenitsky S. Predicting students’ communication skills in a Pharmacy program. Association of Faculties of Pharmacy of Canada Annual Conference / Canadian Pharmacy Education and Research Conference, Niagra-on-the-Lake, ON (06/2013) (Abstract)


Patent application: