2011 – 2012 Annual Report

The Faculty of Pharmacy and Pharmaceutical Sciences

Excellence in pharmacy education and research through learning, discovery and citizenship.

www.pharm.ualberta.ca
Our Vision
Excellence and innovation in pharmacy education and research through learning, discovery and citizenship.

Our Mission
To provide pharmacy and graduate education designed to meet societal needs for safe and effective use of medications and to cultivate research and pharmacy practice.

• Fosters high quality education and ongoing development of students and postdoctoral fellows
• Conducts world-class research in the basic and applied pharmaceutical sciences, clinical pharmacy sciences and health services
• Seeks advancements and excellence in practice, research and education
• Partners with the profession, policy makers, other faculties and universities, and the public

Our Value Statements
The pharmaceutical sciences are the base for the education of our students and the development of safe and effective drugs. Pharmacy practice is the application of therapeutic and scientific knowledge to enhance patient care. These are the components of excellence at the University of Alberta’s Faculty of Pharmacy and Pharmaceutical Sciences.

Graduate students are educated to perform world-class research and student pharmacists to provide information and medication in a way that provides optimal patient care.

Our Faculty has built a reputation as one of the finest pharmacy schools in Canada.

We have embraced new technologies, developed new approaches to pharmacy education, and created an environment for innovative research. Our graduates are acknowledged as outstanding pharmacy practice and research professionals and the work of our academic staff is respected nationally and internationally.
I am extremely proud of the accomplishments of our faculty during the past year, some of which are highlighted in this year’s annual report. I appreciate that you are taking the time to review this report and trust that you will be as impressed as I am with what our outstanding students, staff, faculty members and alumni have done.

We view our alumni as valuable partners who volunteer to participate in our Experiential Education Program as preceptors, take on mentoring roles in the successful Alumni-Student Mentorship Program, and generously give to us financially providing us that essential “margin of excellence”. During the school months our many alumni volunteers guide our student pharmacists and help them to appreciate the importance of professionalism, and ethics, as well as knowledge and skills, in patient care.

We now offer two new degrees that reflect our commitment to provide enhanced skills in medication-related care, and management and business skills, to students with an interest in these additional education options:

• The PharmD is a professional doctorate degree that serves to recognize advanced education to provide the clinical skills necessary for optimal patient-centered care. Canadian pharmacists have increasingly become part of primary health care, working on teams and as prescribers of medications. This additional education will help them to be better prepared for these activities.

• In partnership with the Alberta School of Business, we now offer student pharmacists the opportunity to obtain the Masters of Business Administration (MBA) degree. This dual degree program allows our students to obtain important business and management skills in a very time and economically efficient manner. Students accepted into the program by the Alberta School of Business are granted a one year leave from their pharmacy studies, then return to our program to complete their pharmacy studies at which time they will be awarded both the BSc (pharmacy) and MBA degrees.

2011 brought many changes to our program and to our physical location. The Faculty’s Pharmaceutical Sciences Division moved into the new Katz Group Centre for Pharmacy & Health Research in August 2011. Four months later, our Pharmacy Practice Division relocated to the Edmonton Clinic Health Academy. Renovation has begun in the Medical Services Building with plans to have our Administrative and student services teams settle into their permanent home in late 2013, and to occupy new practice and pharmaceutics lab facilities sometime in 2014.

Looking ahead, our website will undergo changes late in 2012 to become more mobile device friendly, thereby fitting into a University-wide strategy. This change is designed to create an optimal experience for our prospective and current students, staff, faculty members, alumni, donors, and partners in government and industry worldwide. I invite you to participate or stay abreast of our ongoing activities by visiting our website at www.pharm.ualberta.ca.
Our Academic Plan

Shaped by unprecedented changes in pharmacists’ scope of practice

2012 – 2017 Academic Plan

Our Academic Plan’s Strategic Priorities:
• Foster excellence in research and graduate studies
• Advance the profession through exemplary educational programs
• Support enhancements in teaching and learning
• Create an effective organization to support our mission
• Cultivate excellence in the student body

Please refer to the online Academic Plan to read about our goals and strategies for each priority.

Our Academic Plan is on our website:
www.pharm.ualberta.ca > About the Faculty

The Canadian Council for Accreditation of Pharmacy Programs has awarded our Faculty full accreditation status for the six year term ranging from 2011-2017.
Curriculum and Program Development

Preparing student pharmacists for professional realities

Canada’s only dual
MBA/B.Sc. (pharmacy) program

This dual degree allows the Faculty of Pharmacy and Pharmaceutical Sciences to continue to focus on training clinical professionals who take care of patients, while experts in business at the School of Business teach the business side.

This unique program will position student pharmacists for success as future pharmacist-entrepreneurs:

- aspire to own and operate their own business
- take on management roles
- navigate the complexities of pharmacy economics today

The program has student pharmacists enter the Master of Business Administration program after their third-year to become graduate students for 12 months. They then return to the BSc (pharmacy) degree program to complete their final year in pharmacy and then graduate with both degrees.

Doctor of Pharmacy Program

The Doctor of Pharmacy academic credential is an undergraduate, professional doctorate.

The inaugural 14-month program (PharmD), begins September 2013. This Post-Professional program will accommodate students who have just completed their BSc (Pharmacy) degree and eventually practicing pharmacists.

Graduates of this program will develop leadership and evidence-based practice skills to contribute to team-based collaborative care, and abilities to educate patients, care-givers, team members, and other health professional students about drug therapy.

Our website offers more information on its Prospective Students webpages.
Our Research
Translating discoveries into treatments

We have 30 faculty members who have one or more research investigations underway. This past academic year proved productive for our research and scholarships. Our faculty member’s research encompasses several topics as outlined on the following pages.

The University of Alberta’s Toxicology Research Group

Several of our researchers work collaboratively with the Faculty of Science’s Biological Sciences, Biology, Chemistry and Lab Medicine & Pathology departments as a specialized toxicology unit.

The Faculty now houses two new pieces of innovative equipment:

• 600 MHz Nuclear Magnetic Resonance Spectrometer
• Electron spin resonance spectroscopy

Funding Awarded

Combined research revenue in 2011-2012 totals over $2.5M.

• 10 faculty received funding from the Canadian Institutes of Health Research
• 10 faculty received funding from the Natural Sciences and Engineering Research Council of Canada
• Two faculty received funding from the Canadian Society of Hospital Pharmacists

Local, national and international media reported on Dr. Scot Simpson’s research findings, released in July 2011. His published works include the Canadian Journal of Diabetes: Aspirin use rates in diabetes: a systematic review and cross-sectional study and Journal of General Internal Medicine: The Effect of Aspirin Dose on Mortality and Cardiovascular Events in People with Diabetes: A Meta-Analysis. This work showed that higher doses of aspirin prevented a repeat MI and/or death in diabetic patients who had suffered a previous MI or stroke.

Dr. Ah-Ng Tony Kong, Alumnus 1983 and world-renowned researcher, returned to the University of Alberta in September. Dr. Kong was the guest speaker for a mini symposium hosted by the Pharmaceutical Sciences Division. He was also a guest speaker for our Alumni Reunion where he tipped his hat to the university that launched his career, “I want to thank the professors who got our careers started here.”

Dr. Arno Siraki, Pharmacology & Toxicology, with his graduate students Malyaj Narwaley and Argishti Baghdasarian
Our Research Topics

### Cardiovascular

**Dr. Ayman El-Kadi**
- understanding the role of the cytochrome P450 oxidation enzymes in the generation and development of cardiovascular diseases.
(Dr. El-Kadi’s research also falls under the topic: Pharmacology & Toxicology)

**Dr. Fakhreddin Jamali**
- drug-disease interactions; studying the capacity of cardiovascular drugs to produce an effect in the presence of inflammatory disease.
(Dr. Jamali’s research also falls under the topics: Pharmacokinetics and Pharmacology & Toxicology)

**Dr. Paul Jurasz**
- studying the pharmacological regulation of platelet-derived mediators of new blood vessel growth in tumors and promotion of therapeutic blood vessel growth in cardiovascular diseases

**Dr. Mark Makowsky**
- evidence-based practice change in hospital and community pharmacy, continuity of care across healthcare settings and pharmacist identification and management of patients with cardiovascular disease.

**Dr. John Seubert**
- cardiovascular pharmacology involving the role of arachidonic acid and mitochondrial function as a main source of energy and mechanisms of cardiac cell death pathways. (Dr. Seubert’s research also falls under the topic: Pharmacology & Toxicology)

### Drug Delivery

**Dr. Mike Doschak**
- musculoskeletal system (orthopedic) diseases focusing on factors that govern the systemic transport, uptake, and chemical structure-activity relationships of drugs and short polymer or amino acid monomers (peptide) biologics in bone undergoing adaptive remodeling.

**Dr. Afsaneh Lavasanifar**
- design and development of synthetic biomaterial polymer-based drug carriers to enhance the solubility and delivery of challenging therapeutic agents such as: anticancer drugs, drug resistance modulators, immune system suppressive agents, polymers of amino acids, and proteins.

**Dr. Raimar Löbenberg**
- the delivery of drug loaded nanoparticles to the lungs using engineered carrier particles with active release mechanisms. The application is to treat diseases like lung cancer and tuberculosis. Oral drug delivery for poorly soluble drugs and the prediction of their performance in vivo.
Our Research Topics

Drug Delivery

**Dr. Hoon Sunwoo**
- immunology and biological technology research for diagnostic methods, therapeutic tools and vaccines based on antibody technology.

Education Research

**Dr. Réné Breault**
- continuing pharmacy education and its facilitation of practice change, primary care, chronic disease management.

**Prof. Cheryl Cox**
- studying and improving curriculum, clinical education and interdisciplinary education, and exploration of students’ and pharmacists’ understanding of pharmacy practice

**Prof. Darren Pasay**
- investigating the effectiveness of delivery of care in rural areas including the treatment of obesity, and prevention of Type 2 Non-Insulin-Dependent Diabetes Mellitus.

**Dr. Liam Rourke**
- perceptual learning in the health professions, neurophysiological substrate of perceptual expertise, professional socialization in limited-residency doctoral programs.

Geriatrics

**Dr. Cheryl Sadowski**
- studying medication management issues in older adults; monitoring and management of drug-related concerns in patients at risk of falls; management of bone health and falls in older adults; educational programs and attitudes toward older adults.

Health Services

**Dr. Kevin Hall**
- study of hospital pharmacy practice, practice innovation, changing management, pharmacy automation, medication safety & sterile compounding practices.

**Dr. Scot Simpson**
- measuring the impact of medication adherence on health outcomes, and clarifying the safety and effectiveness of drugs used to treat diabetes, cardiovascular disease and other related conditions. Identifying patient-perceived barriers to medication use, and optimizing medication management of diabetes and cardiovascular disease.
Our Research Topics

Infectious Diseases: Human Immunodeficiency Virus (HIV)

Dr. Michelle Foisy
- evaluating and improving:
  1. HIV-related therapies, drug interactions, adverse drug effects, care in the period immediately before and after birth
  2. pharmacy practice-related issues (patient care process)

Dr. Christine Hughes
- evaluation of safety and effectiveness of drug therapies and adherence in HIV-infected patients.

Medicinal Chemistry

Dr. Kamaljit Kaur
- design, synthesis, and evaluation of antimicrobial peptides, bacteriocin/microcin analogues for the development of food preservatives, therapeutics and diagnostics; engineering cancer targeting peptides for drug delivery and diagnostics; studying the mechanism of peptide-peptide and protein-peptide interactions using model membrane systems.

Dr. Ed Knaus
- rational Drug Design of Next Generation Heterocyclic Drugs.

Dr. Carlos Velazquez
- design, chemical synthesis, and biological evaluation of chemopreventive and chemotherapeutic compounds derived from scaffolds present in natural products.

Pharmacogenomics

Dr. Sharon Marsh
- oncology pharmacogenomics, with the goal of identifying the optimum chemotherapy options for individual patients prior to treatment selection; analysis of genes in patients to identify the causes of inter-individual differences in chemotherapy efficacy and toxicity.

Pharmacokinetics

Dr. Dion Brocks
- evaluating pharmacokinetics and pharmacodynamics of highly lipophilic drugs; analysis of pharmacokinetics of drug enantiomers.

Dr. Sharon Mitchell
- studying pharmacokinetics of morphine in children.
Our Research Topics

Pharmacology & Toxicology

Dean James Kehrer
- free radical biochemistry and toxicology; the roles of thioredoxin, glutathione, oxidized lipid species, and free radicals in signal transduction pathways; apoptosis and redox regulated transcription factors.

Dr. Lars-Oliver Klotz

Dr. Arno Siraki
- investigating the role of reactive free radical metabolites in idiosyncratic adverse drug reactions, comparing free radical metabolites with two-electron oxidized (electrophilic) metabolites.

Social Sciences in Pharmacy

Dr. Lisa Guirguis
- to understand the adoption of communication skills, practice tools, and innovations with the aim of enhancing patient-centred care in community pharmacy practice.

Prof. Terri Schindel
- development and evaluation of continuing pharmacy education courses, professional development of pharmacists.

Women’s Health

Dr. Nese Yuksel
- women’s health, specifically in the areas of menopause, osteoporosis and pharmacy practice-based research.

Lung Disease

Dr. Hoan Linh Banh
- new and novel treatments for severe asthma and COPD patients
The Dean’s Advisory Council provides advice, guidance, and support for the continuing development of high quality pharmacy programs at the University of Alberta. Recognized leaders in the pharmacy community from a diverse set of practice settings provide a breadth of perspectives on pharmacy and pharmacists in the Canadian healthcare system.

**Mission Statement**

The University of Alberta’s Faculty of Pharmacy and Pharmaceutical Sciences Dean’s Advisory Council provides diverse advisement to the Dean of Faculty of Pharmacy and Pharmaceutical Sciences. In an effort to provide the optimal educational experience for our students the council offers input on various issues:

- promoting alumni engagement
- curriculum
- experiential activities
- development

I would like to thank the members of the Advisory Council for their work in helping guide us in our efforts to evolve with our profession’s changing expectations. We have benefited from your objective and impartial advice. Your active support has truly helped our Faculty move forward.

**Council Members**

- Neil Cameron, President, Alberta Pharmacists’ Association, Athabasca Value Drug Mart
- Ali Damani, Rexall, Alumnus 2002
- Kimberly Duggan, Foothills Medical Centre, Alumnus 1996
- Dr. Bunny Ferguson, Honorary LLD degree,
- Paul Gustafson, Community Pharmacist, Olds, Alumnus 1998
- Al Hodgins, Value Drug Mart
- Cindy Jones, Athabasca Health Care Centre, Alumnus 1981
- Terry McCool, Eli Lilly, Alumnus 1963
- Katherine Olson, U of A Senate Member - Pharmacy Rep., Alumnus1998
- Barry Peachment, Canada Safeway, Alumnus 1978
- Dwayne Samycia, Retired Pharmacist, Alumnus 1973
- Lori Shockey, Director, Development & Alumni Affairs, University of Alberta
- Deb Tyson, U of A Senate Member - Pharmacy Rep., Alumnus 1993
- David Windross, Teva Canada
- Bruce Winston, Apex Pharmacies Limited, Alumnus 1985
The Pharmacy Alumni Association (PAA) consists of a core group of pharmacists that represent a broad spectrum of graduates from the past three decades. Many of our Alumni have supported our students thorough their contributions to scholarships and bursaries. They have also taken on the volunteer role of preceptor or mentor that helps launch our student pharmacists’ careers.

**Alumni/Student Mentorship**
The Pharmacy Alumni Association spearheaded the creation of our successful alumni/student mentorship program.

Alumni mentors provide third-year student pharmacists with advice, respond to the students’ questions about the profession and offer strategies to achieve a work-life balance. Our mentorship program drew in Alumni who provided a powerful impact with 25 dyads (mentorship pairings) this year.

**Sponsorship Funding** - PAA supports our students with sponsorship funds for events; volunteering at student run community events, providing a welcome gift to our first-year students and a farewell gift to our graduating students at their celebration banquet.
The Faculty of Pharmacy & Pharmaceutical Sciences is going through an exciting period of growth and opportunity. It remains one of the largest pharmacy faculties in Canada and has built a reputation as one of the finest.

Admission to the Bachelor of Science in Pharmacy program is highly competitive, with the number of qualified applicants consistently exceeding the number of available admission seats. We received 602 applications for the 131 student openings for the 2011–2012 program.

Student pharmacists gain real-life work experience, participate in a coordinated experiential program that includes more than 16 weeks of work in various pharmacy fields. As well, they have the opportunity to participate in clinical and research work. Students also have the opportunity to take part in exchanges between the University of Alberta and universities in Italy, Egypt, Hong Kong, and France.

Submitted by Ken Soong, President, Alberta Pharmacy Students' Association

Alberta Pharmacy Students' Association (APSA) members strive to represent the voice of pharmacy students and promote a positive community image for pharmacy through community involvement.

One of APSA's greatest successes is the Mr. Pharmacy event. The all-male pageant has raised more than $17,000 for Prostate Cancer Canada in its first two years.

In addition to the pageant, APSA organizes Pharmacy Awareness Week, which include volunteering at the Ronald McDonald House soup kitchen, hosting free blood pressure clinics, osteoporosis clinics and much more.

We have also achieved great successes across the province and on a national scale. Our successes include winning provincial and national awards and competitions as well as fundraising for other various charitable causes.

Melissa Chung joins a third-year student pharmacist at the Alberta Pharmacy Students’ Association’s Blood Pressure Clinic

Brett Edwards injects David Mitsui with a flu vaccine at the annual University of Alberta's Flu Vaccine Clinic
Our Graduate Students

Submitted by Anwar Anwar-Mohamed, President, Pharmacy Graduate Student Association

The Pharmacy Graduate Student Association (PGSA) brings Faculty and campus issues to the graduate student body. Their key role keeps the students informed and gives them a voice.

Our Move: One of the most exciting events in 2011 was the move of pharmaceutical sciences division from the Dentistry/Pharmacy Centre to the Katz Group Centre for Pharmacy & Health Research. Our graduate students took on a significant role that helped make the move a success. Two teams of graduate students prepared and organized the labs for a smooth tear-down and set-up of a large assortment of instruments, glassware, and chemicals. It proved to be a great experience for students and their mentors.

Research day: Graduate students help organize this annual event that serves as a graduate student training session to present their world-class research in national and international meetings. This year the PGSA also created a website that benefitted everyone involved.

Fundraising: PGSA organizes fundraising events to help support our graduate students. Funds go towards graduate students’ scholarly development and training events: Research Day’s best poster award, library and writing skills workshops, travel and accommodation expenses to bring in world-class speakers for graduate students lectures and workshops.
Endowments & Awards

Endowments
Dean’s Discretionary Award Endowment
Dispensaries Ltd. Endowment
Enhancement of Student Learning Endowment
Experiential Education Endowment
Faculty of Pharmacy Staff Professional Development Endowment
Katz Group Pharmacy Education Excellence Endowment
Value Drug Mart Educational Resource Endowment

Undergraduate Students
Laura Chee Memorial Scholarship in Pharmacy
London Drugs/Brenda Miller Memorial Scholarship
Merck Sharpe & Dohme Scholarship in Pharmacy
M.J. Huston Scholarship in Pharmacy
Nahid Ramji Memorial Scholarship in Pharmacy
PACE/Apotex Scholarship
Philip Cash Gold Undergraduate Scholarships - First and Second Years
Ron Turner Capital Region Pharmacists’ Association Scholarship
RE (Dick) Moskalyk Scholarships in Pharmacy
Save On Foods Gold Scholarship
Sheila Kelcher Scholarship
Shirley Heschuk Scholarship
Shoppers Drug Mart Community Pharmacy Scholarship
Terry Morrison Scholarships in Pharmacy
Value Drug Mart Entrance Scholarship

Awards and Prizes
Ormond and Luella Phillipson Award
M.J. Warner Memorial Prize
Myros Samycia Family Award
Pat Jacobsen Award
Pfizer Consumer Health Care Prize
Teva Canada Prize in Pharmacy
Value Drug Mart Leadership Award

Bursaries
Alberta Pharmacists’ Association Bursary
Dan Allen Bursary
Davey Drug Mart Ltd Bursary
David Pollack Memorial Bursary in Pharmacy
Friends of Pharmacy Undergraduate Bursary
Gord La Claire Memorial Bursary
Larry Pratt Family Bursary
Len Corkery Bursary
Loblaw Pharmacy Bursaries
London Drugs 60th Anniversary Bursaries
London Drugs Undergraduate Bursaries in Pharmacy
Manrex Medication Delivery Bursary
Nancy Rae Bursary
Neil Cameron Bursary

Scholarships
Alberta Blue Cross 50th Anniversary Pharmacy Scholarship
Alberta College of Pharmacists Gold Medal
Alberta College of Pharmacists Professional Scholarship
Alberta College of Pharmacists Scholarship
Alberta Pharmacists Centennial Leadership Award
Canada Safeway Pharmacy Scholarships
Charles Cummer Memorial Scholarship
Charles E Frost Scholarship
CPhA - Apotex Future Leader Award
David S. Tam Scholarship in Pharmacy
Edmonton Ladies Pharmaceutical Auxiliary Scholarship
Gene Harty Memorial Scholarship
Endowments & Awards

Undergraduate Students

Bursaries
Pharmacy Class of 1955 Bursary
Pharmacy Class of 1957 Bursary
Pharmacy Class of 1960 Bursary
Pharmacy Class of 1964/1965 Bursary
Pharmasave Drugs Western Ltd Bursary
Pharmadel Wholesale Partnership Bursary
Seneka Family Bursary
Southern Alberta Pharmacists Bursary
Sue and Jim Muir Bursary
Vic Harrison Bursary in Pharmacy

Travel Awards
A &T Danchuk Pharmacy Clinical Travel Rotation Award
Caremart Clinical Rotation Travel Award
Class of 1975 Clinical Rotation Travel Award
J.A. Bachynsky Travel Award
John and Hazel Switzer Clinical Travel Rotation Award
Value Drug Mart Mainstreet Clinical Rotation Travel Award

Graduate Students

Endowments
Philip Cash Research Excellence Endowment
Antoine Noujaim Graduate Scholarship in Pharmaceutical Sciences
BioChem Pharma Graduate Scholarship
Dr. Ed Knaus Graduate Scholarship in Pharmaceutical Sciences
Dorothy Whiteman Scholarship
Friends of the Faculty of Graduate Studies and Research Scholarship
Mike Wolowyk Graduate Scholarship
Novartis Pharmaceutical Canada Inc. Graduate Scholarship
Pharmacy PhD Alumni Graduate Student Scholarship
Shoppers Drug Mart Graduate Scholarship in Pharmacy and Pharmaceutical Sciences
Value Drug Mart Mainstreet Cancer Research Graduate Scholarship

Awards and Prizes
Dr. Leonard Wiebe Graduate Award in Pharmaceutical Sciences
Pfizer Pharmacy Research Award

Bursaries
Friends of Pharmacy Graduate Bursary
Philip Cash Pharmacy Graduate Student Bursary

Links to the Scholarships, Bursaries and Endowments can be found on our website at www.pharm.ualberta.ca > Prospective Students > Undergraduate Students

If you’re interested in creating a named award, please contact Lori Shockey: lshockey@ualberta.ca
780 492 - 8084

Susan Casey, Alberta Blue Cross scholarship representative & June Chen, Student Awardee, at the Faculty’s Celebration of Giving in October 2011
To all our Donors…..THANK YOU!!

We would like to thank all of our wonderful dedicated donors who made contributions in 2011 to support our student pharmacists and graduate education within the Faculty of Pharmacy and Pharmaceutical Sciences. We have listed those donors who provided gifts over $100 to support pharmacy education in the 2011 calendar year.

We have made every effort to prepare an accurate listing of our donors. If you have any questions or concerns, please contact Lori Shockey: lshockey@ualberta.ca or 780 492 - 8084

### Corporate Donors

- **$1,000 to $4,999**
  - Overwaitea Food Group
  - Pfizer Consumer Healthcare
  - Pharmaceutical Partners of Canada Inc.
  - Pharmasave Drugs Western Ltd.
  - Pharmascience Inc.
  - RxA
  - Ted Co Pharmacy Inc.
  - uniPHARM Wholesale Drugs Ltd.
  - Zhi Yang City Seniors Recreational Club
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  - 775739 Alberta Ltd.
  - Anderson’s Pharmacy
  - Arrowcan Partners Inc.
  - Association of Senior Apothecaries
  - Cenovus Employee Foundation
  - Elite Sportswear & Awards Ltd.
  - Gee Association of Edmonton
  - Gemini Cleaning & Building Maintenance
  - Guardian Fournier Drugs Ltd.
  - Marc & Associates Incorporated
  - My Pharmacy Holdings Ltd. o/a The Medicine Shoppe
  - Norite IDA Pharmacy
  - Rita’s Apothecary & Home Healthcare Ltd.
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  - Susan F. Poon Professional Corporation
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  - Kentigern Rowan, QC & Gail-Lynn Rowan
  - M. Lawrence & Elsie Serediak
  - Matthew Truong
  - Dr. Zhixiang Wang & Jing Yang
  - Dr. Leonard & Dr. Grace Wiebe

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<td>Tremaine &amp; Lynn Coolen</td>
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Our Donors

Individual Donors $100 - $499

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Dr. Hung Jun
Reginald & Constance Kastelan
Marilyn Kopp
Wanda Korpan
Dr. Sheri Koshman
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Mike Laevens & Chandel Lovig
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Riyaz Virani
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John & Heather Walker
Doug & Sharon Wallis
Catherine Watts

45 Anonymous Donors

Total Anonymous Donations: $49,495
The primary role of the Pharmacy Practice Division within the Faculty of Pharmacy & Pharmaceutical Sciences is to educate students (undergraduate, post-professional and graduate) and practitioners with the goals of optimizing health outcomes through medications and disease prevention, as well as enhancing the role of pharmacists.

The Pharmacy Practice Division has identified the following research areas to focus on:

- Patient Safety
- Health Outcomes
- Adherence
- Communication
- Pharmacy Education
- Health Policy
- Pharmacy Practice Change

Pharmacy Practice faculty members incorporate their expertise and research findings into classroom teaching and professional development programs. Many of the faculty members are practicing pharmacists, they have diverse expertise including:

- primary care
- diabetes
- women’s health
- hypertension
- infectious diseases/HIV
- geriatrics
- pulmonary disorders
- cardiology and management
The division of Pharmaceutical Sciences moved in 2011 into the new Katz Group Centre for Pharmacy and Health Research where they occupy the second and parts of the third floor. The division has 16 faculty members who are actively involved in research.

Two common research themes were identified by the researchers:

1. toxicology
2. drug delivery

The toxicology group investigates cardiovascular and cellular signalling pathways which may have clinically relevant toxic effects.

The drug delivery group is especially interested in colloidal drug carriers to improve drug efficiency in cancer treatment.

Other areas of interest are arthritis and osteoporosis. The research is supported by core facilities like the analytical NMR and LC-MS facility, imaging facilities with confocal microscopes and a micro-CT scanner, cell culture facilities, animal facilities and the drug development and innovation centre which has a Health Canada license and can manufacture clinical trial materials.

Graduate Studies and Research has always been a strength of the Faculty. Our Faculty was the first Canadian school to grant a pharmacy PhD. In recognition of its flourishing Pharmaceutical Sciences Graduate Studies program the Faculty's title changed to the Faculty of Pharmacy and Pharmaceutical Sciences in 1968.
2011 Awards of Recognition

Michelle Foisy
- Alberta Pharmacy Centennial Award of Distinction
- Pharmacy Practice Commitment to Care & Services (National): Disease Management Initiative Award

Lisa Guirguis
- Teaching Unit Award

Christine Hughes
- Bristol-Myers Squibb Excellence in Teaching Award
- Alberta Pharmacy Centennial Award of Distinction
- Canadian Society of Hospital Pharmacists Recognition Program: Enhancing Pharmacy Practice Award

Jamali Fakhreddin
- Alberta Pharmacy Centennial Award of Distinction
- Faculty Award of Merit

Kevin Hall
- Canadian Society of Hospital Pharmacists Management and Leadership Best Practices Award
- Canadian Society of Hospital Pharmacists Board of Fellows fellowship

Raimar Loebenberg
- Hugh Kelly Fellowship for Senior Scientists, Rhodes University, South Africa

Sharon Mitchell
- Alberta Pharmacy Centennial Award of Distinction

Franco Pasutto
- Alberta Pharmacy Centennial Award of Distinction

Cheryl Sadowski
- Teaching Unit Award
- Alberta Pharmacy Centennial Award of Distinction

Terri Schindel
- Alberta Pharmacy Centennial Award of Distinction
- Faculty Award of Merit

Scot Simpson
- Alberta Pharmacy Centennial Award of Distinction

Ann Thompson
- Canadian Society of Hospital Pharmacists Recognition Program: Enhancing Pharmacy Practice Award

Nese Yuksel
- Alberta Pharmacy Centennial Award of Distinction
- Rutherford Award for Excellence in Undergraduate Teaching
- Canadian Pharmacists Association (CPhA) Patient Care Achievement Award for Specialty Practice
- APEX Award of Excellence Award (ACP and RxA)
- Canadian Society of Hospital Pharmacists Recognition Program: Enhancing Pharmacy Practice Award
### Annual Report of Finances for Fiscal Year 2011-12

#### Income Sources

<table>
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<tr>
<th>Period</th>
<th>Endowment Income</th>
<th>Base Operating Budget</th>
<th>Sponsored Research</th>
<th>Misc Revenues</th>
<th>Gifts</th>
<th>Government Matching</th>
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### Diagram

- **Endowment Income**: $150,076
- **Base Operating Budget**: $6,483,967
- **Sponsored Research**: $2,713,885
- **Misc Revenues**: $644,119
- **Gifts**: $1,112,848
- **Government Matching**: $0