Mission
To prepare our students to provide optimal pharmaceutical care and advance health care outcomes, to promote research and scholarly activity, and to serve as a pharmacy resource for Qatar, the Middle East and the world.

Vision
To be the leading pharmacy school in the Middle East region.

Accredited by the Canadian Council for Accreditation of Pharmacy Programs (CCAPP)
Research Fund Sources:

Qatar University provides the following funding programs:
- Start-up Grants
- Student Grants
- University Grants
- Summer Grants
- Research Facility Grants

Qatar National Research Funds (QNRF) provides the following funding programs:
- National Research Priorities Program (NPRP)
- Undergraduate Research Experience Program (UREP)
- Junior Scientists Research Program (JSREP)
- Graduate Student Research Award (GSRA)
- Postdoctoral Research Award (PDRA)
- Conference and Workshop Sponsorship Programs (CWSP)

Other Funding Programs:
- National Institute of Health (NIH)
- The National Science Foundation (NSF)
**Research Mission:** to create and disseminate knowledge related to drug entities, products, therapy and medication use for the purpose of advancing health outcomes and quality of life.

The researchers in this college are committed to the following fundamental principles that have been promulgated by The Council of Canadian Academies:

- Conduct research in an honest search for knowledge (Honesty; Fairness; Trust; Openness)
- Foster an environment of research integrity, accountability, and public trust. (Trust; Accountability)
- Know your level of competence and your limitations; act accordingly. (Honesty; Trust; Accountability)
- Avoid conflict of interests, or if cannot be avoided, address them in an ethical manner. (Trust; Accountability; Openness)
- Use research funds responsibly. (Honesty; Accountability)
- Review the work of others with integrity. (Fairness; Trust)
- Report on research in a responsible and timely fashion. (Trust; Openness)
- Treat data with scholarly rigour. (Honesty; Accountability)
- Treat everyone involved with research fairly and with respect. (Fairness; Trust)
- Acknowledge all contributors and contributions in research. (Fairness; Accountability; Openness)
- Engage in the responsible training of researchers. (Fairness; Trust)
Important Research Facts:

♦ The College of Pharmacy has received $6 million dollars in research grants to date

♦ 28.7% compound annual growth rate (11-2007) making QU the fastest-growing university in research in the middle east

♦ More than 60 posters, 50 papers and more than 70 oral presentations at the college in one year

♦ 55% of CPH students benefitted from student grants per academic year while all students are engaged at a certain point in research as it is a requirement for graduation

♦ 45 research projects are ongoing at the college level

♦ CPH is collaborating with many research groups in leading institutions across the world
**Post Graduate Degrees**

**Master of Science in Pharmacy MSc (Pharm)**

A 2 year post baccalaureate thesis-based, research-oriented graduate studies degree offering the following specializations:

- Clinical Pharmacy and Pharmacy Practice - NEW
- Pharmacognosy
- Medicinal Chemistry
- Pharmacology
- Pharmacokinetics
- Pharmaceutics

**Doctor of Pharmacy Degree (PharmD)**

The PharmD program is designed to prepare promising BSc (Pharm) graduates for a fulfilling career in advanced clinical pharmacy practice, research and academia. The PharmD program is the only international program to be accredited by the Canadian Council for Accreditation of Pharmacy Programs (CCAPP).
Dr. Ayman El-Kadi, PhD.
Professor and Dean
Molecular Pharmacology and Toxicology

Research Interests Overview

Research Interests Include:

♦ To understand the potential interaction between heavy metals and aryl hydrocarbon receptor ligand which are common in the environment on the regulation of drug metabolizing enzymes

♦ To understand the role of cytochrome P450 (CYP) enzymes in the pathogenesis of cardiac hypertrophy

Methods/Expertise:

♦ In vivo (rats and mice), Cell lines, Isolated hepatocytes and cardiomyocytes, Real-time PCR, Western blot, DNA-Protein interaction, Enzyme activities and kinetics, Metabolites determination, Transfection, siRNA

Soluble epoxide hydrolase inhibitor, TUPS, protects against isoprenaline-induced cardiac hypertrophy

Original Contributions
Methylated pentavalent arsenic metabolites are bifunctional inducers, as they induce cytochrome P450 1A1 and NAD(P)H:quinone oxidoreductase through AhR- and Nrf2-dependent mechanisms

Anwar Anwar-Mohamed a, Osama H. Elshenawy a, Anatoly A. Soshilov b, Michael S. Denison b, X. Chris Le c, Lars-Oliver Klotz a, Ayman O.S. El-Kadi a,d,e
Dr. Feras Q. Alali, PhD.
Associate Dean, Research Affairs and Graduate Studies
Professor, Natural Products Chemistry and Analysis
Pharmaceutical Sciences, Bioactive Natural Products Lab

Research Interests Include:
- Chemistry and biological activity of medicinal plants
- Quantitative analytical studies using HPLC, LC/MS/MS, and GC/MS
- Phytochemical standardization of herbal drugs

Annonaceous Acetogenins: Recent Progress  
Feras Q. Alali, Xioa-Xi Liu, and Jerry L. McLaughlin*  
Department of Medicinal Chemistry and Molecular Pharmacology, School of Pharmacy and Pharmacal Sciences, Purdue University, West Lafayette, Indiana 47907

New Colchicinoids from a Native Jordanian Meadow Saffron, Colchicum brachyphyllum: Isolation of the First Naturally Occurring Dextrorotatory Colchicinoid  
Feras Q. Alali,§ Tamam El-Elimat,§ Chen Li,§ Amjad Qandil,§ Ahmad Alkefahi,§ Khaled Tawaha,§ Jason P. Burgess,§ Yuka Nakanishi,§ David J. Kroll,§ Hernan A. Navarro,§ Joseph O. Falkingham, III,§ Mansukh C. Wani,§ and Nicholas H. Oberlies*§
Research Interests Include:

- Isolation of bioactive substances from terrestrial and marine sources
- Structure elucidation using spectroscopic methods
- Microbial transformation as a tool in drug discovery
- Metabolism studies utilizing microorganisms

Bioactive embranoids from the Red Sea soft coral *Sarcophyton glaucum*

Rania F. Abou El-Ezz, Safwat A. Ahmed, Mohamed M. Radwan, Nahla A. Ayoub, Manal S. Afifi, Samir A. Ross, Pawel T. Szymanski, Hesham Fahmy, Sherief I. Khalifa

Antiepileptic Ceramides from the Red Sea Sponge *Negombata corticata*

Safwat A. Ahmed, Sherief I. Khalifa, and Mark T. Hamann
Ms. Banan Mukhalalati, BSc (Pharm), RPH, MBA
Lecturer, Assistant Dean for Faculty and Student Affairs

- MBA: Total Quality Management and Continuous Quality Improvement
- PhD (on going): Pharmacy Education: Design and Evaluation of Educational Programs
Research Interests Include:
- Pharmacotherapy
- Pharmacy practice
- Ambulatory care
- Public health

Current Research Projects:

NPRP 4th cycle
Assessing the effectiveness of a Pharmacist Delivered Smoking Cessation Program in the State of Qatar.

UREP 10 cycle
Diabetes Mellitus Care in the State of Qatar: a Survey of Pharmacists’ Activities, Attitudes and Knowledge.

UREP 11 cycle
Cardiovascular disease prevention in the state of Qatar: a survey of pharmacists activities, attitudes and knowledge.
Pharmacy Practice and Outcomes Research

Research Interests Include:

- Pharmacy practice
- Outcome-based research
- Pharmacoepidemiology
- Health promotion and tobacco

Current Research Projects:

- Effectiveness of research training programs on improving research capacity among pharmacists
- Utilization and predictors of proton pump inhibitors use in patients with ACS receiving antiplatelet therapy
- Impact of insulin-containing regimens vs. oral anti-diabetic therapy on economic and clinical outcomes of poorly controlled T2DM patients
- Pictorial health warnings on cigarette packages in Qatar
- Waterpipe smoking: prevalence, perception, correlates of quitting
Alla El-Awaisi MPharm, MRPharmS, MSc
Clinical Lecturer, Clinical Pharmacy and Practice
PhD Candidate, School of Pharmacy and Life Sciences, Robert Gordon University, Aberdeen, UK
Clinical Lecturer

Research Interests Include:
- Interprofessional Education & Collaborative Practice

Perceptions of Pharmacy Students, Pharmacists and Pharmacy Faculty in Qatar to Interprofessional Education and Collaborative Practice

Interprofessional Education at Pharmacy Schools in Arabic-Speaking Middle Eastern Countries: An Investigative study

A Pilot Study of the Impact of Integrating Interprofessional Education in a Clinical Setting
Dr. Bridget Paravattil Javed, PharmD
Assistant Professor, Clinical Pharmacy and Practice
Structured Practical Experiences in Pharmacy (SPEP) Coordinator
Clinical Pharmacy Specialist, Heart Hospital

Research Interests Include:
♦ Pharmacy education with a focus on experiential training, patient education, and pharmacy practice and clinical services in an ambulatory setting


Research Preceptor' Self-Assessment of Their Ability to Perform the Learning Objectives of an Experiential Program
Bridget Paravattil, PharmD
College of Pharmacy, Qatar University, Doha, Qatar
Submitted April 25, 2012; accepted June 14, 2012; published November 12, 2012.
Dr. Daoud Al-Badriyeh, PhD.
Assistant Professor, Pharmacoeconomics, Clinical Pharmacy and Practice

Research Interests Include:
- Cost-effectiveness/benefit of medications and pharmacy services
- Clinical comparative studies of drugs
- Decision modeling
- Formulary drug selection
- Trend analyses
- Cardiovascular disease
- Smoking cessation
- Infectious disease
- Emergency medicine


PHP47 The Economic Impact of a Cost-Effectiveness Threshold on the Innovative Drug Expenditure in Qatar

Pharmacoeconomic evaluation of voriconazole versus posaconazole for antifungal prophylaxis in acute myeloid leukaemia
Dr. Mohammad Diab, PhD.
Assistant Professor, Clinical Pharmacy and Practice

Research interests Include:

- Systematic review of care provided to patients with chronic diseases to improve its quality and outcomes
- Developing, validating and applying medication assessment tool (MAT), a novel approach in clinical audit
- CVD risk assessment and implementation of pharmaceutical care plan in clinical settings

Adherence to clinical guidelines in management of diabetes and prevention of cardiovascular disease in Qatar

Mohammad Issam Diab · B. Julieene Johnson · Steve Hudson

Pharmaceutical care needs in patients on long-term corticosteroids: Analysis of risks of diabetes, osteoporosis and cardiovascular events
M. Issam Diab1, M. Alkudsi1, A. Alhatareshah1, I. Towle1

Targeting diabetic patients in Qatar for pharmaceutical care using cardiovascular risk analysis
M. Diab1,*, P. Chandra2, B. J. Johnson3
Research Interests Include:

- Practice-based research in infectious disease
- Antimicrobial stewardship
- Antibiotic utilization
- Health promotion
- Pharmacy education
Dr. Hazem Elewa, RPh, PhD., BCPS
Assistant Professor, Clinical Pharmacy and Practice

Research Interests Include:

♦ Vascular protection
♦ Vascular damage is a hallmark in ischemic stroke and diabetes mellitus which is a major risk factor for stroke
♦ Pharmacogenetics and personalized medicine implementation
♦ Anticoagulation personalized medicine in cardiovascular diseases through the use of pharmacogenetics. Interpatient variability and lack of response to medications can cause serious adverse effects
♦ We study the use of pharmacogenetics as a tool to dose warfarin

Dr. Elewa received several awards including a pre-doctoral fellowship grant from the American Heart Association.

Early Atorvastatin Reduces Hemorrhage after Acute Cerebral Ischemia in Diabetic Rats


Program in Clinical and Experimental Therapeutics, College of Pharmacy, University of Georgia, Augusta, Georgia (H.E., A.K., A.E., M.S.C.F.); Charles Norwood Veterans Administration Medical Center, Augusta, Georgia (H.E., A.K., A.E., M.S.C.F.); College of Pharmacy, University of Florida, Gainesville, Florida (H.E., A.E., A.E., S.C.F.); and Departments of Biostatistics (M.S.C.). Physiology (A.E.), and Pathology (S.C.F.), Medical College of Georgia, Augusta, Georgia

Received October 2, 2008; revised May 26, 2009
Dr. Mohamed Izham M.I., PhD.
Professor of Social and Administrative Pharmacy
Clinical Pharmacy and Practice

Research Interests Include:

♦ Pharmaceutical Policy & Supply Management
♦ Economic Evaluation of Medicines and Services
♦ Pharmacoeconomics
♦ Socio-behavioural Aspects of Pharmacy & Health
♦ Pharmaceutical Management & Marketing

Evaluating Drug Prices, Availability, Affordability, and Price Components: Implications for Access to Drugs in Malaysia
A.H.N. Alhababi, M.I. Mohamed Izham, I. Pazilah, and M.S. Anoam

Effect of delay in diagnosis on the rate of tuberculosis among close contacts of tuberculosis patients
A.H.N. Alhababi, M.I. Mohamed Izham, I. Pazilah, and M.S. Anoam

Dispensing Practices of General Practitioners and Community Pharmacists in Malaysia—A Pilot Study
Alamin Hassan MA Alabid, Mohamed Izham M Ibrahim, Mohamed Azmi A Hassali

Effect of privatization of the drug distribution system on drug prices in Malaysia
Z.D. Babar, M.I.M. Izham

Time to entry of generic medicines in Malaysia: implications for pharmaceutical cost containment
Omotayo Fatokun, Mohamed Izham M. Ibrahim and Mohamed Azmi A. Hassali

School of Pharmacy, Faculty of Medical and Health Sciences, University of Auckland, 85, Park Road, Grafton, Auckland, New Zealand
Universiti Sains Malaysia, Penang 11800, Malaysia

Faculty of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang, 43600, Malaysia and
Faculty of Pharmacy, Qatar University, Doha, Qatar
Dr. Kerry Wilbur, ACPR, PharmD, MScPH
Associate Professor, Clinical Pharmacy and Practice Director, Doctor of Pharmacy Program

- Drug-Related Hospital Visits and Admissions Associated with Laboratory or Physiologic Abnormalities—A Systematic-Review
  Kerry Wilbur*, Huda Hay, Aya El-Bedawi
  College of Pharmacy, Qatar University, Doha, Qatar

- Pharmacovigilance in the Middle East
  A Survey of 13 Arabic-Speaking Countries
  Kerry Wilbur

- Pharmacovigilance in Qatar Hospitals
  Kerry Wilbur
  College of Pharmacy, Qatar University, Doha, Qatar

- Physician perceptions of pharmacist roles in a primary care setting in Qatar
  Kerry Wilbur*, Amina Beniyes and Arwa Hammuda

Incidence, severity and preventability of medication-related visits to the emergency department: a prospective study
Peter J. Zed PharmD, Riyad B. Abu-Laban MD MHSc, Robert M. Balen PharmD, Peter S. Loewen PharmD, Corinne M. Hohl MD, Jeffrey R. Brubacher MD MSc, Kerry Wilbur PharmD, Matthew O. Wiens BSc(Pharm), Leslie J. Samoy BSc(Pharm), Katie Lacaria BSc(Pharm), Roy A. Purssell MD

CMAJ 2008;178(12):1563-9
Dr. Kyle John Wilby, BSP, ACPR, PharmD
Assistant Professor, Clinical Pharmacy and Practice
Clinical Pharmacy Specialist, National Center for Cancer Care & Research (NCCCR)

Research Interests Include:
- Practice-based research in Oncology, Pain Management, and Palliative Care
- International Health, Health Promotion, and Infectious Diseases
- International Education of Health Professionals
- Clinical Pharmacokinetics
- Non-traditional Approaches to Enhance Medication Understanding
- Collaborations in Qatar, Ghana, and Canada
Current Research Projects:

- Characterization of interventions made by pharmacists conducting medication use reviews at primary health care center in Qatar
- Development and evolution of pictograms on medication labels for patients with limited literacy skills in a culturally diverse multiethnic population
- Pharmacists’ knowledge and attitudes about natural health products in Qatar: A mixed-methods study

Medication Management:

- Status and evaluation of pharmacy practice and pharmaceutical care in Middle East
- Chronic disease management by pharmacists
- Pharmacists-run asthma and diabetes clinics.

Population-based and Quality of Life Studies:

- Adherence studies
- Health-related Quality of Life
- KAP Studies
Dr. Shane Pawluk, ACPR, PharmD
Assistant Professor, Clinical Pharmacy and Practice

Research Interests Include:
- Evaluation of pharmacist interventions to improve medication safety
- Pharmacotherapy and drug use in pediatric populations
- Pharmacokinetic analysis in pediatric populations
- Pharmacy education
- Advancing pharmacist scope of practice

Research Highlights:
- Pharmacist medication support post-hospital discharge
- Pharmacokinetic variability of antimalarial agents in the pediatric population
- Pediatric febrile neutropenia treatment protocol evaluation
- Post hospital discharge mortality of children in resource poor countries
- Evaluation of therapeutic options for pain in the emergency department
Dr. Ashraf A. Khalil, PhD.
Associate Professor and Chair, Pharmaceutical Sciences
Medicinal Chemistry Lab

Research Interests Include:

♦ Synthesis of Biologically Active Compounds
♦ Chemical modification of natural products
♦ Structural elucidation using 1D and 2D NMR, IR and Mass Spectrometry
♦ The discovery of new monoamine oxidase inhibitors
♦ Enzyme kinetics
♦ Evaluation of the effect of tobacco smoke on MAO

Isolation and Characterization of a Monoamine Oxidase Inhibitor from Tobacco Leaves
Ashraf A. Khalili, Salome Seyn, and Neal Castagnoli, Jr.
Department of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061-0212, USA
Research Interests Include:

- Current research interests include optimization of therapy in special patient populations with focus on sepsis, obese, cancer, and renal failure patients.

- Works on optimization and individualization of patient therapy through the use of pharmacokinetic modeling and simulation techniques.

- Runs the pharmacokinetics lab utilizing NONMEM® and PHOENIX Win-Nonlin® PK softwares as well as chromatographic and cell culture facilities.
Dr. Fatima Mraiche, PhD.
Assistant Professor, Pharmaceutical Sciences
Cardiovascular Pharmacology Lab

Research Interests Include:
♦ Cardiovascular Cellular and Molecular Pathophysiology
♦ Cancer Biology and Therapeutics

Current Projects:
♦ Calcineurin-NFAT Signaling Pathway Mediates NHE1 Induced Cardiac Hypertrophy
♦ p90 Ribosomal S6 Kinase Contributes to the NHE1 Induced Hypertrophic Response Of H9c2 Cardiomyoblasts
♦ Osteopontin Promotes Cell Survival in H9c2 Cardiomyoblasts Through Akt-and HIF-1 Up-Regulation
♦ The Role of Topoisomerase II in Anthracycline Induced Cardioxicity
♦ Involvement of the Na⁺/H⁺ Isoform 1 (NHE1) in the Growth and Progression of Human Lung Adenocarcinomas
Dr. Husam Younes, PhD.
Associate Professor, Biopharmaceutics
Pharmaceutics and Polymeric Drug Delivery Research Lab (PPDDRL)

Research Interests Include:

♦ Synthesis & characterization of new biodegradable elastomers for controlled & targeted drug delivery of therapeutic proteins
♦ Tissue engineering applications of biodegradable polymers in cartilage repair & cardiovascular diseases
♦ Design, development & in vitro-in/vivo testing of controlled oral dosage forms & transdermal drug delivery systems for cancer and diabetes treatment
♦ Bioequivalence studies & in vitro-in vivo correlations
Dr. Shankar Munusamy, PhD.
Assistant Professor, Pharmaceutical Sciences
Renal Research Lab

Research Interests Include:
- Mechanisms of Diabetes & Obesity-induced Nephropathy
- Novel Therapeutic Approaches to Treat Nephropathy

Oxidative Stress

Diabetes

Endoplasmic Reticulum (ER)

Mitochondria

Obesity

Mitochondrial Dysfunction

Rx

Nephropathy

Rx

ER Stress
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