

FACULTY DIRECTORY FOR RESEARCH COLLABORATION

Published May 2018

Updated July 2019

PURPOSE



Michael Bartlett, Ph.D. Associate Dean for Science Education, Research and Technology

May 17, 2018

Dear Faculty,

Our retreat last December was a success. We crafted an ambitious vision statement, formed five research teams, and set both short- and long-term goals in an effort to expand our research over the next five years.

A primary goal of the College of Pharmacy during this effort is to promote faculty collaboration in research. The intent of this directory is to serve as a resource for you. It includes research areas and teams of faculty members, as well as self-identified opportunities for collaboration.

My hope is that this information will be useful to you as you search for faculty members with whom your research interests and areas of opportunites align. Thank you for your committment to our college and to excellence in research.

Sincerely,

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RESEARCH VISION

Our thriving culture of scholarship drives us to be a leader of interdisciplinary and innovative research in therapeutic discovery, application, and education to improve health in Georgia and beyond.

CANCERResearch Team

MICHAEL BARTLETT, PH.D.

Research Areas: Methods to determine therapeutic agents, metabolites and degradation products from biological and non-biological matrices; oligonucleotide therapeutics & biomarkers



Opportunities for Collaboration: DMPK studies of therapeutic agents; assessment of biomarkers for diseases

mqbart@uqa.edu

HOUJIAN CAI, PH.D.

Research Areas: Protein acylation in cancer progression, fatty acylation metabolism, drug discovery on inhibition of N-myristoyltransferases, stromal-epithelial crosstalk in prostate stem cells



Opportunities for Collaboration: Drug delivery, medicinal chemistry for drug development, protein quantification by mass spectrometry

caihj@uga.edu

AMBER CLEMMONS, PHARM.D.

Research Areas: Supportive care, hematologic malignancies, adult bone marrow transplantation and Scholarship of Teaching and Learning



Opportunities for Collaboration:
Malignant hematology,
immunocompromised infectious diseases and cellular
transplantation

aclemmons@augusta.edu

EWAN COBRAN, PH.D.

Research Areas: Health services and disparities; comparative effectiveness; cancer screening, prevention and outcomes; community-based participatory research; patterns of care; nativity; and large data analysis



Opportunities for Collaboration: Health informatics, health outcomes research, cancer survivorship, genomics, health disparities, health literacy and communication

ecobran@uga.edu

BRIAN CUMMINGS, PH.D.

Research Areas: Molecular mechanisms in cell death, specifically role of lipids and water disinfection byproducts



Opportunities for Collaboration:

Medicinal chemistry and small
molecule cancer screening assays; nanoparticle
formulation and drug delivery; lipidomic analysis of

post-disease tissues briansc@uqa.edu

EILEEN KENNEDY, PH.D.

Research Areas: Design of allosteric inhibitor compounds targeting kinase activation and signaling

Opportunities for Collaboration: Kinase signaling and disease



ekennedy@uga.edu

CANCERResearch Team

DEXI LIU, PH.D.

Research Areas: Gene/protein as a drug for prevention and treatment of obesity, diabetes, cancer, and other diseases

Opportunities for Collaboration: Gene therapy, obesity research, drug delivery and protein drug discovery

dliu@uqa.edu



MANDI MURPH, PH.D.

Research Areas: Molecular mechanisms to prevent chemoresistance or prolong remission by extending time until chemoresistance develops in mammalian cells



Opportunities for Collaboration: Chemistry

mmurph@uga.edu

ARTHUR ROBERTS, PH.D.

Research Areas: Drug interactions and multidrug resistance transporter

Opportunities for Collaboration:
Labs with innovative experimental/
computational approaches applicable
to MDR transporter; translating *in*vitro studies with labs with animal and clinical
experiments with MDR transporter

audie@uga.edu

SOMANATH SHENOY, PH.D.

Research Areas: Molecular mechanisms regulating vascular permeability, angiogenesis, integrin activation, extracellular matrix remodeling and tumor growth



Opportunities for Collaboration: Assistance with statistical analysis for protocol approvals, research data analysis, and grant applications

sshenoy@augusta.edu

MAY XIONG, PH.D.

Research Areas: Drug delivery and pharmaceutics, specifically the design of macromolecules to improve iron chelation therapy and strategies to combat multi-drug resistance in bacteria

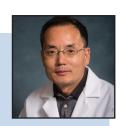


Opportunities for Collaboration: Any area in which drug delivery is a challenge

mayxiong@uga.edu



Research Areas: Epigenetic therapies and chemical biology strategies and probes to interrogate protein acetylation- and methylation regulated disease processes



Opportunities for Collaboration: With those who have specialized expertise in pharmacology, such as MS and proteomics

yzheng@uga.edu

INFECTIOUS DISEASES

Research Team

CHRISTOPHER BLAND, PHARM.D.

Research Areas: Critical care, Infectious Diseases, drug dosing in obesity, antimicrobial stewardship

Opportunities for Collaboration: Synergy and collaboration among faculty who research in critical care or Infectious Diseases areas

cmbland@uqa.edu



DANIEL CHASTAIN, PHARM.D.

Research Areas: HIV/AIDS, opportunistic infections, antimicrobial resistance, and antimicrobial stewardship

Opportunities for Collaboration: Co-investigators with shared research

daniel.chastain@uqa.edu



VIRGINIA FLEMING, PHARM.D.

Research Areas: Clinical pharmacy practice in adult internal medicine and Infectious Diseases

Opportunities for Collaboration: Between ID pharmacists on different campuses with clinical research projects



development and management,

Research Areas: Drug policy

J. RUSSELL MAY, PHARM.D.

allergic rhinitis, Infectious Diseases, and evaluation of new drugs

Opportunities for Collaboration: With masters students working on clinical projects



qin13@uqa.edu

jmay@augusta.edu

CORY MOMANY, PH.D.

Research Areas: Application of atomic structures to biological and pharmaceutical problems using molecular biology, biochemistry, structure-based drug discovery and macromolecular X-ray crystallography



Opportunities for Collaboration: RNA structural studies (non-coding and small RNA) and RNA/ protein complexes, antibiotic resistance (bacterial) mechanisms, bacterial antibiotic discovery, efficient cloning, large-scale protein production, any kind of X-ray crystallography problem and bacterial transcriptional studies

cmomany@uga.edu

SCOTT PEGAN, PH.D.

Research Areas: Regulation of the human innate immune system; discovery of new therapeutics for nerve and pesticide agent poisoning; discovery of new antibiotics for use against TB



Opportunities for Collaboration: Infectious Diseases

spegan@uga.edu

INFECTIOUS DISEASES

Research Team

BRIAN SEAGRAVES, PHARM.D.

Research Areas: Treatment and care of HCV- and HBV-infected patients

Opportunities for Collaboration:Partnering with social work faculty;
Scholarship of Teaching & Learning



SOMANATH SHENOY, PH.D.

Research Areas: Molecular mechanisms regulating vascular permeability, angiogenesis, integrin activation, extracellular matrix remodeling and tumor growth



Opportunities for Collaboration:

Assistance with statistical analysis for protocol approvals, research data analysis, and grant applications

sshenoy@augusta.edu

cqraves@uqa.edu

REBECCA STONE, PHARM.D.

Research Areas: Contraception, medication use during pregnancy and medication adherence

Opportunities for Collaboration:Between clinical practice faculty and PSHOP researchers



EVA-MARIE STRAUCH, PH.D.

Research Area: Protein design and engineering, design of anti-virals and immunogens, immunoinformatics, protein chemis-



immunoinformatics, protein chemistry and re-purposing of viral surface proteins, computational biology

Opportunities for collaborations: Vaccine design, protein-based therapeutics, protein mediated drug delivery

estrauch@uga.edu

rhstone@uga.edu

CATHERINE WHITE, PH.D.

Research Areas: Pharmacokinetics of new investigational therapeutic agents/environmental toxins including both *in vitro* and *in vivo* testing; analysis of data to generate pharmacokinetic parameters; bioanalytical analysis; stability testing, brain disposition of compounds; drug metabolism and educational research

Opportunities for Collaboration: Toxicology, preclinical evaluation of new therapeutic agents or formulations, drug delivery, medicinal chemistry, brain disposition of compounds, and educational research

cwhite44@uga.edu

MAY XIONG, PH.D.

Research Areas: Drug delivery and pharmaceutics, specifically the design of macromolecules to improve iron chelation therapy and strategies to combat multi-drug resistance in bacteria



Opportunities for Collaboration: Any area in which drug delivery is a challenge

mayxiong@uga.edu

NEUROSCIENCE

Research Team

RENAD ABU-SAWWA, PHARM.D.

Research Areas: Pediatrics, Neurology (e.g. epilepsy) and Scholarship of Teaching and Learning

Opportunities for Collaboration:

Pediatric or neurology practicebased research and education in
didactic and experiential curriculum with emphasis
on development of soft skills and interprofessional
collaboration

rabusawwa@augusta.edu



SHELLEY HOOKS, PH.D.

Research Areas: Molecular mechanisms by which cellular signaling regulates cell function and how mechanisms go awry in cancer and central nervous system disorders



Opportunities for Collaboration:Sharing instrumentation; molecular techniques

shooks@uga.edu

JAYANI JAYAWARDHANA, PH.D.

Research Areas: Health economics, health policy, pharmaceutical economics, substance use, prescription drugs and large secondary data analysis



Opportunities for Collaboration:
Health economics, health policy and health services

jayaward@uqa.edu

research

PRIYA NARAYANAN, PH.D.

Research Areas: Mechanisms of neuro-vascular injury in retina, diabetic retinopathy and optic neuritis

Opportunities for Collaboration: Neurovascular diseases of the eye



pnarayanan@auqusta.edu

MERRILL NORTON, PHARM.D.

Research Areas: Pharmacy-related addiction topics: neurobiology of addiction and psychiatric disorders with specialty areas of addiction medications, psychiatric and pain management medications

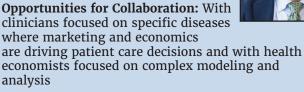


Opportunities for Collaboration: Substance use disorders and their treatments, effective pain management in addicted patients, and use of legalized cannabis for pain

mernort@uqa.edu

MATTHEW PERRI, PH.D.

Research Areas: Pharmaceutical marketing, policy analysis and health economics using data



mp3@uga.edu



NEUROSCIENCE

Research Team

MAY XIONG, PH.D.

Research Areas: Drug delivery and pharmaceutics, specifically the design of macromolecules to improve iron chelation therapy and strategies to combat multi-drug resistance in bacteria



Opportunities for Collaboration: Any area in which drug delivery is a challenge

mayxiong@uga.edu

JASON ZASTRE, PH.D.

Research Areas: Impact of vitamin B1 on cancer progression

Opportunities for Collaboration: Techniques or expertise found in another lab



jzastre@uga.edu

Research Team

RENAD ABU-SAWWA, PHARM.D.

Research Areas: Pediatrics, Neurology (e.g. epilepsy) and Scholarship of Teaching and Learning

Opportunities for Collaboration:

Pediatric or neurology practice—
based research and education in
didactic and experiential curriculum with emphasis
on development of soft skills and interprofessional
collaboration

rabusawwa@augusta.edu



WARREN BEACH, PH.D.

Research Areas: Relationship between PCAT performance and performance in courses requiring math skills and those requiring application of knowledge or critical thinking



Opportunities for Collaboration:

Enhance learning and retention throughout curriculum; applying basic pharmaceutical sciences to clinical practice

wbeach@uga.edu

KAY BROOKS, M.ED., R.PH.

Research Areas: Experiential education, simulation/standardized patients, motivational interviewing, SBIRT

Opportunities for Collaboration:
Interprofessional education,
simulation/standardized patients and Scholarship of
Teaching & Learning

klbrooks@uga.edu

ANDREW DARLEY, PHARM.D.

Research Areas: Experiential education, health system pharmacy practice, pharmacy residency training, and internal medicine

Opportunities for Collaboration: Scholarship of Teaching & Learning and practice-based research



badarley@uqa.edu

DUC DO, PH.D.

Research Areas: Scholarship of Teaching & Learning, particularly in area of PharmD admisions and academic support services

Opportunities for Collaboration: Scholarship of Teaching & Learning



LORI DUKE, PHARM.D.

Research Areas: Experiental learning and student professional development

Opportunities for Collaboration: Within experience learning and among experiential faculty from other institutions



ljduke@uga.edu

duc.do@uqa.edu

Research Team

DEBORAH ELDER, PH.D.

Research Areas: Pharmaceutical products, beyond-use-dating of compounded non-sterile pharmaceuticals, drug formulation for individualized care and technology in pharmacy education



Opportunities for Collaboration: Specialized dosage form preparations for human/veterinary trials, optimization of care with individualized pharmaceutical dosage forms and technology use to improve student learning

dlstrong@uga.edu

MICHAEL FULFORD, PH.D.

Research Areas: Educational policy, assessment of learning, curriculum review/design, accreditation program review, student development theory, admissions and enrollment management, co-curricular activities, instructional design, strategic planning, intercollegiate athletics, aca-

planning, intercollegiate athletics, academic support, embedded assessment

Opportunities for Collaboration: Assessment of interprofessional education, co-curricular activities, accreditation and self-study development, predictors of student performance, pharmacist's patient care process, assessment of affective domains and professionalism

mfulford@uga.edu

ASHLEY HANNINGS, PHARM.D.

Research Areas: Ambulatory care, community pharmacy, diabetes, entrepreneurship, immunizations and Scholarship of Teaching & Learning



Opportunities for Collaboration:
Scholarship of Teaching & Learning,
practice-based research and ambulatory care

ahanning@uga.edu

KEITH HERIST, PHARM.D.

Research Areas: Scholarship of Teaching & Learning

Opportunities for Collaboration: Scholarship of Teaching & Learning



kherist@uga.edu

JOHNNA HODGES, M.ED., M.S.

Research Areas: Active engagement of students with online programs, development of digital multimedia learning, online accessibility issues, distance learning administration

multidisciplinary collaboration



Opportunities for Collaboration:Multimedia learning for emergency preparedness, veterinary medicine, and public health;

jhodges@uga.edu

LINDA LOGAN, PHARM.D.

Research Areas: Leadership, experiential and interprofessional education, hospital-based practice and efficacy of interprofessional teams in "whole person care"



Opportunities for Collaboration:
Currently collaborating with UNC, UGA Counseling and Human Development Department and Experiential Education faculty

ldlogan@uga.edu

Research Team

DIANNE MAY, PHARM.D.

Research Areas: Drug information services, policy development and formulary management, literature evaluation, gastroesophageal reflux disease, adverse drug reactions



Opportunities for Collaboration:

Pharmaceutical health services, outcomes and policy

dimay@augusta.edu



ANNE MISHER, PHARM.D.

Research Areas: Ambulatory care services, chronic care management, transitions of care and diabetes

Opportunities for Collaboration: Within disease states and mentorship from senior faculty to junior faculty



amisher@uga.edu

SHARMON OSAE, PHARM.D.

Research Areas: Improvement in quality measures, optimization of medication management among geriatric, and assessment of clinical pharmacy trainee perceptions



BETH PHILLIPS, PHARM.D.

Research Areas: Ambulatory care pharmacy practice and residency

Opportunities for Collaboration: Scholarship of Teaching & Learning, including residency training and the pharmacists' patient care process; ambulatory care pharmacy practice

bbp@uga.edu

Opportunities for Collaboration:

Population health projects (i.e., text interventions or multi-site studies)

sharmon.osae@uga.edu

GURVINDER SINGH REKHI, PH.D.

Research Areas: Formulation development, pharmaceutical dosage forms, clinical supplies, CMC, regulatory submissions, transfer technology, patents



Research Areas: Evaluation and

feedback provided to pharmacy students on experiential rotations; inpatient geriatrics

MELODY SHEFFIELD, PHARM.D.

Opportunities for Collaboration: Evaluation of P4 students and geriatrics



rx@uqa.edu

Opportunities for Collaboration:

Research and development projects requiring: drug delivery, nanotechnology, controlled release, abusedeterrent opioid formulations, GMP/GLP Training, Pharmaceutical/Biotechnology Manufacturing and **Analytical Laboratory Student Training**

qsrekhi@uqa.edu

Research Team

TRINA VON WALDNER, PHARM.D.

Research Areas: Public health initiatives, caring for vulnerable populations and continuing professional development

Opportunities for Collaboration:
Student development, online course evaluation, public health topics like opioid epidemic and access to care, clinical and translational research

tvonwald@uqa.edu



Research Areas: Experiential education, health system pharmacy practice, geriatrics, internal medicine and residency preparation

Opportunities for Collaboration: Scholarship of Teaching & Learning and practice-based research

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mthomaso2@uga.edu

LINDSEY WELCH, PHARM.D.

Research Areas: Pharmacy experiential education including student/preceptor development, intervention and assessment

Opportunities for Collaboration: Patient outcomes and student professionalism

lhwelch@uga.edu



CATHERINE WHITE, PH.D.

Research Areas: Pharmacokinetics of new investigational therapeutic agents/environmental toxins including both *in vitro* and *in vivo* testing; analysis of data to generate pharmacokinetic parameters; bioanalytical analysis; stability testing, brain disposition of compounds; drug metabolism and educational research

Opportunities for Collaboration: Toxicology, preclinical evaluation of new therapeutic agents or formulations, drug delivery, medicinal chemistry, brain disposition of compounds, and educational research

cwhite44@uga.edu

Research Team

TRISHA BRANAN, PHARM.D.

Research Areas: Sepsis complications, issues in Infectious Diseases, critical care education, innovative teaching methods and interprofessional education



Opportunities for Collaboration:

Vascular and hemodynamic changes in sepsis; Scholarship of Teaching & Learning

tbranan@uqa.edu



Research Areas: HIV/AIDS, opportunistic infections, antimicrobial resistance, and antimicrobial stewardship



Opportunities for Collaboration:

Co-investigators with shared research

daniel.chastain@uqa.edu

SUSAN FAGAN, PHARM.D.

Research Areas: Stroke pharmacotherapy, animal models of ischemic stroke, hemorrhagic transformation, vascular protection after stroke, angiogenesis after stroke and stroke outcomes



Opportunities for Collaboration: Stroke research

sfaqan@uqa.edu

DUSKA FRANIC, PHARM.D., PH.D.

Research Areas: Patient-reported outcomes, quality of life, preference and utility measurement and pharmacoeconomics in various chronic conditions



Opportunities for Collaboration: Health outcomes research in clinical trials

dfranic@uga.edu

PHIL GREENSPAN, PH.D.

Research Areas: Health benefits of nutraceuticals and functional foods and effect of select natural extracts on inflammation, protein glycation and LDL oxidation



Opportunities for Collaboration:

Labs interested in studying the mechanisms of atherosclerosis and diabetic complications

greenspn@uga.edu

ANTHONY HAWKINS, PHARM.D.

Research Areas: Choice of IV fluids, fluid resuscitation and hemodynamic monitoring



Opportunities for Collaboration: Critical care practice-based research, critical care education in the didactic and experiential curriculum

hawkins@uga.edu

Research Team

ANNE MISHER, PHARM.D.

Research Areas: Ambulatory care services, chronic care management, transitions of care and diabetes

Opportunities for Collaboration: Within disease states and mentorship from senior faculty to junior faculty



PRIYA NARAYANAN, PH.D.

Research Areas: Mechanisms of neurovascular injury in retina, diabetic retinopathy and optic neuritis

Opportunities for Collaboration: Neurovascular diseases of the eye



amisher@uga.edu

pnarayanan@augusta.edu

ANDREA NEWSOME, PHARM.D.

Research Areas: Critical care pharmacy practice and translational sciences

Opportunities for Collaboration: With critical care and CET faculty



BRADLEY PHILLIPS, PHARM.D.

Research Areas: Underlying mechanisms for cardiovascular disease in patients with sleep apnea

Opportunities for Collaboration: Clinical studies in sleep and sleep disorders in people with and without systemic diseases



andnewsome@augusta.edu

bgp@uga.edu

LILIAN SATTLER, PH.D.

Research Areas: Management of advanced heart failure, particularly through nutritional interventions in the context of existing pharmacotherapy; socioeconomic health disparities in cardiovascular health (CVH)



Opportunities for Collaboration: With faculty interested in CVH and clinical/translational research

lilian@uga.edu

LAKSHMAN SEGAR, PH.D.

Research Area: Molecular mechanisms of neointima formation after arterial injury in diabetic and nondiabetic states



Opportunities for Collaboration:
Diabetic vascular complications:
dysregulated vascular smooth muscle cell phenotype;
endothelial dysfunction; glucose transporters; insulin
resistance; glycemic control

lsegar@augusta.edu

Research Team

SOMANATH SHENOY, PH.D.

Research Areas: Molecular mechanisms regulating vascular permeability, angiogenesis, integrin activation, extracellular matrix remodeling and tumor growth



Opportunities for Collaboration:

Assistance with statistical analysis for protocol approvals, research data analysis, and grant applications

sshenoy@augusta.edu

SUSAN SMITH, PHARM.D.

Research Areas: Infectious Diseases and sepsis in critically ill patients

Opportunities for Collaboration: With other critical care clinical faculty with interests in Vascular Diseases



susan.smith@uga.edu

ROBIN SOUTHWOOD, PHARM.D.

Research Areas: Diabetes therapy in hospitalized patients

Opportunities for Collaboration:Diabetes and diabetes-related complications



RANDALL TACKETT, PH.D.

Research Areas: Ethnic and gender differences in cardiovascular disease and pharmacotherapy; mechanisms of action of abused drugs and preventative education; mechanisms of adverse drug effects: recognition and minimization



Opportunities for Collaboration: Substance abuse; FDA regulations and drug approval

rtackett@uga.edu

rsouthwd@uga.edu

MAY XIONG, PH.D.

Research Areas: Drug delivery and pharmaceutics, specifically the design of macromolecules to improve iron chelation therapy and strategies to combat multi-drug resistance in bacteria



Opportunities for Collaboration: Any area in which drug delivery is a challenge

mayxiong@uga.edu

YAO YAO, PH.D.

Research Areas: Blood Brain Barrier (BBB), stroke, laminin biology, muscular dystrophy; therapies for neurological disorders and muscular dystrophy



Opportunities for Collaboration:

Basement membrane biology, blood-brain barrier, stroke, neurodegenerative disorders, muscular dystrophy

yyao@uga.edu

Research Team

HENRY YOUNG, PH.D.

Research Areas: Patient medication use to improve quality of life and health outcomes with a special interest in health services and outcomes in underserved and minority patient populations



Opportunities for Collaboration: Different contexts (e.g., medical conditions, diverse populations); areas of asthma, pain and cardiovascular disease

hnyoung@uga.edu