

PROGRAM DESCRIPTION

The Clinical & Experimental Therapeutics (CET) graduate programs provide interdisciplinary training in therapeutics-related research that directly connects the basic science laboratory with the clinical practice setting.

PROGRAM OBJECTIVE

CET's objective is to encourage and facilitate research in the pharmaceutical sciences. Students enrolled in the program will have the opportunity to rotate through several laboratories. These rotations allow for exploration in different research areas, which ultimately helps a student choose an area of study to focus on. Upon graduation, students find careers with universities, in the pharmaceutical industry, and local/state/ national health agencies.

Programs Offered:

- **Masters – 1 and 2 year degrees**
1 year MS is available for a few eligible candidates to make prepare them for Pharmacy or Medical school, residencies, etc.
- **Doctoral – average 3 to 5 years**

Location: Augusta, GA

AREAS OF STUDY

- Atherosclerosis
- Cancer & Vascular Biology
- Lung Injury and Fibrosis
- Diabetes & Vascular Function
- Diabetic Ketoacidosis
- Retinopathy
- Stroke

RESEARCH OPPORTUNITIES

The faculty members in the CET program have made significant accomplishments in their respective areas of interest. Ongoing project supported from grants from various federal funding agencies, private foundations, and the pharmaceutical industry.

The expertise of CET faculty includes:

- Pathogenesis and treatment of stroke
- Pathogenesis and treatment of neurodegenerative disorders
- Pathogenesis and vascular biology of hypertension and diabetes-associated vascular complications
- Vascular biology of obesity and metabolic syndrome on microvascular dysfunction
- Disease mechanism and treatment of diabetic retinopathy
- Molecular mechanisms regulating endothelial-barrier, vascular permeability and angiogenesis
- Extracellular matrix remodeling and pulmonary fibrosis
- Identification of potential therapeutic targets for prostate, bladder, and colorectal cancers
- Diabetes, Atherosclerosis and Dysregulation of smooth muscle contractility
- Smooth Muscle Biology and Glucose transporters



The programs provide support to assist students in achieving these competencies:

- Apply ethical principles and comply with legal and regulatory requirements in the conduct of professional activities
- Communicate effectively with the health care, research, and lay communities
- Demonstrate professional values and behaviors
- Design and conduct patient-oriented research and interpret the results
- Develop research questions to address health care problems
- Implement a strategy for life-long personal and professional development



CET FACULTY

Adviye Ergul, M.D.

Adjunct Professor

Research Lab:

Diabetes and Vascular Function Lab
Augusta, GA

Susan Fagan, Pharm.D., BCPS, FCCP

Albert W. Jowdy Professor

Research Lab:

Stroke Lab
Augusta, GA

Bradley G. Phillips, Pharm.D., BCPS, FCCP

Millikan-Reeve Professor

Research Lab:

Clinical & Translational Research Unit
Athens, GA

Lakshman Segar, Ph.D.

Associate Professor

Research Interests:

Atherosclerosis Lab
Augusta, GA

Somanath Shenoy, Ph.D., FAHA

Associate Professor, CET Director

Research Lab:

Cancer and Vascular Biology Lab
Augusta, GA

Randall Tackett, Ph.D.

Professor, CAP Graduate Coordinator

Research Interests:

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

CONTACTS

**For additional information, please
contact:**

UGA - College of Pharmacy - CAP

CET Graduate Programs

250 W. Green Street, RM: 270-I

Athens, GA 30602

Email:

Annelie Klein, Graduate Programs

Student Affairs Professional II

annelie@uga.edu

Somanath Shenoy, Ph.D., FAHA

Associate Professor,

CET Director

[ssheno@augusta.edu](mailto:sshenoy@augusta.edu)

Randall Tackett, Ph.D.

Professor, CAP Graduate Coordinator

rtackett@uga.edu

Website:

[http://cap.rx.uga.edu/index.php/academics/
/clinical_experimental_therapeutics/](http://cap.rx.uga.edu/index.php/academics/clinical_experimental_therapeutics/)



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College of Pharmacy

Clinical & Administrative Pharmacy

Clinical and Experimental Therapeutics

Masters and Doctoral Graduate Programs



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and research, from theory to practice.**

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