Earn a Ph.D. in Biomedical Sciences

A Ph.D. degree in Biomedical Sciences at the Florida State University College of Medicine will prepare graduates for careers in research and teaching in both academic and private-sector research environments.

Students in Biomedical Sciences will focus their Ph.D. research in one or more of several overlapping emphasis areas including development, neuroscience, genetics, bioinformatics, genomics, biophysics, cell biology, cancer and mechanisms of human disease. The training program emphasizes the application of diverse methodologies including genomics, proteomics and informatics to developmental, cell, and molecular biological questions in normal and disease processes.

Didactic instruction includes a hands-on laboratory course, advanced cell and molecular biology, and courses that emphasize human disease processes.

Students select a home lab upon admission into the program and are expected to become immersed in research. Our students make discoveries at the cutting edge of science in a comprehensive program that prepares them for the next step in their career. Students are expected to have at least one first author publication to graduate.

The College of Medicine research building features a modern design with open, interconnected labs to foster collaboration among faculty and students. The facilities include state-of-the-art equipment available to all research colleagues.

Faculty & Research

Michelle Arbeitman, Ph.D. sex differences in development and behavior
Pradeep G. Bhide, Ph.D. developmental neuroscience, childhood onset movement disorders and cognitive disabilities
Michael Blaber, Ph.D. protein engineering and enzymology with application to angiogenesis & inflammation
Judy Delp, Ph.D. aging, exercise and vascular biology
Akash Gunjan, Ph.D. histones and genome stability
Jamila Horabin, Ph.D. non-coding RNAs, RNA silencing and chromatin modifiers in regulating Drosophila sex determination
Myra Hurt, Ph.D. molecular regulation of the cell division cycle
Mohamed Kabbaj, Ph.D. epigenetics of social behaviors and neurobiology of sex differences in anxiety and depression
Daniel Kaplan, Ph.D. DNA replication and cancer
Yoichi Kato, Ph.D. the role of Notch signaling in ciliogenesis and early neural development
Sanjay Kumar, Ph.D. synaptic physiology underlying cortical function and epilepsy
Eric Laywell, Ph.D. thymidine analogs as cancer therapeutics; neurogenesis and stem cell biology; cellular neurobiology
Choogon Lee, Ph.D. molecular basis for circadian rhythms
Cathy Levenson, Ph.D. role of adult stem cells in traumatic brain injury; reducing damage and improving outcomes
David Meckes, Ph.D. molecular pathogenesis of Epstein-Barr virus-associated cancers
Tim Megraw, Ph.D. biology of centrosomes, centrioles and cilia impact in disease
Richard S. Nowakowski, Ph.D. neurogenetics in the developing adult nervous system; genetics of individual variation in the brain
James Olcese, Ph.D. neuroendocrine chronobiology and reproductive neuroscience
Mike Overton, Ph.D. energy homeostasis and hypertension
Johanna Paik, Ph.D. coordination of histone and DNA synthesis for chromatin assembly
Jose Pinto, Ph.D. the regulation of cardiac and skeletal muscle contraction in normal and pathological conditions
Yi Ren, Ph.D. macrophage function in cancer and CNS diseases
Gregg D. Stanwood, PhD. developmental origins of brain disorders, animal models of neuropsychiatric disorders
Branko Stefanovic, Ph.D. molecular mechanisms of liver fibrosis
Robert J. Tomko Jr., Ph.D. regulation of proteasome assembly and function in health and disease
Yanchang Wang, Ph.D. chromosome segregation regulation and the response to the expression of misfolded protein
Yuan Wang, Ph.D. development and plasticity of neural circuits; neurodegeneration
Yi Zhou, Ph.D. molecular, biochemical and electrophysiological analysis of neuronal ion channel function
Jinmin Zhu, Ph.D. G protein-coupled receptors and disease
Tallahassee is a beautiful, youthful city with canopy roads, spacious parks, and eclectic restaurants and coffee shops. We have quick access to wonderful bike trails, beautiful lakes and rivers and gorgeous Gulf of Mexico beaches. Tallahassee experiences the moist, temperate climate of the deep South, with warm summers and mild winters.

The oldest site of higher education in the state of Florida, the campus of Florida State University provides state of the art amenities for students to live and learn. As a Carnegie I Research Institution, Florida State University provides a rich research intensive environment with outstanding facilities and faculty in the sciences. FSU has recently been designated as one of two pre-eminent research universities in the state of Florida.

FSU provides a collaborative research environment providing opportunities for interdisciplinary research with investigators in structural biology, neuroscience, chemistry, biochemistry, engineering, and computer science.

**WHAT OUR GRADUATE PROGRAM HAS TO OFFER**

- **First year stipend of $25,000**
- **$2,000 signing bonus for exceptional students**
- **Supplement to cover all student fees**
  - Tuition waived
  - $500 annual travel allowance to attend scientific conferences
- **Health Insurance Subsidy of $1,500**
- **Professional Development Series; “What can I do with my Ph.D.”**
- **Membership in the Biomedical Science Graduate Student Association (BIOMED SGSA)**
- **Grand Rounds Lecture Series**
- **Annual Life Sciences Symposium**
- **Graduate School Resources: Graduate Writing Workshop, Preparing Future Faculty Workshop, etc.**
- **Free access to BioCareers Resources**

For more Program Information Please Visit: www.med.fsu.edu - Path: Admissions; Ph.D.