

Graduate Program in

Cell Biology & Anatomy

The Department of Cellular Biology and Anatomy offers the opportunity to explore the fascinating world of cell biology and to pursue research projects ranging from processes affecting the whole organism to events at a molecular level.

Our program provides training in developmental biology, cell biology and neuroscience. Students learn state-of-the-art research techniques and modern approaches to fundamental biomedical questions while developing a sound knowledge of relevant classical disciplines of anatomy such as histology, embryology, neuroscience and gross anatomy. Our talented, dedicated researchers focus on multiple exciting areas of research.

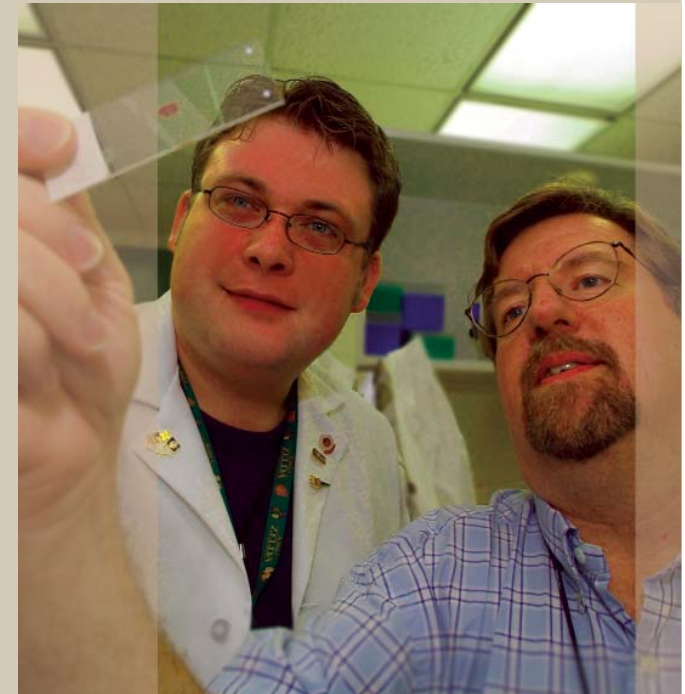
If you are interested in biomedical research, how cells and tissues function throughout the lifespan, MCG's graduate program in cellular biology and anatomy is for you.

Get Started Now!

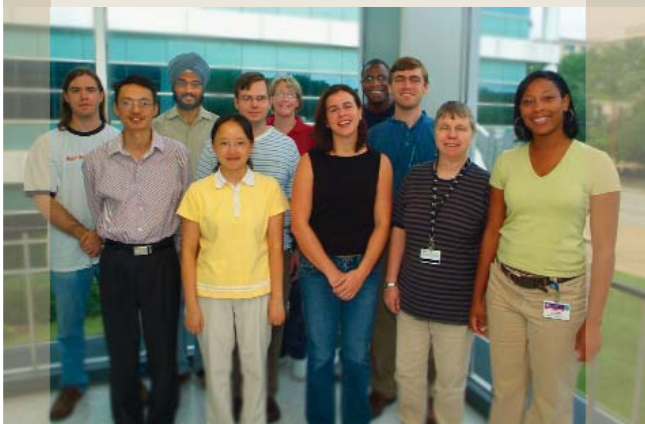
Graduates of our program will have the skills and experience to pursue exciting careers in academia or the pharmaceutical and biotechnology industries.

Whichever career you choose, it can all start here in our Cellular Biology and Anatomy graduate program.

The Cellular Biology and Anatomy Department is a unique and dynamic department and we invite you to browse our website or contact us directly to find out more about what our department offers for students who enjoy a challenging and exciting academic environment.



Join us as we explore the
fascinating world of cell biology



contact

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Cellular Biology and Anatomy
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Patricia L. Cameron, Ph.D.

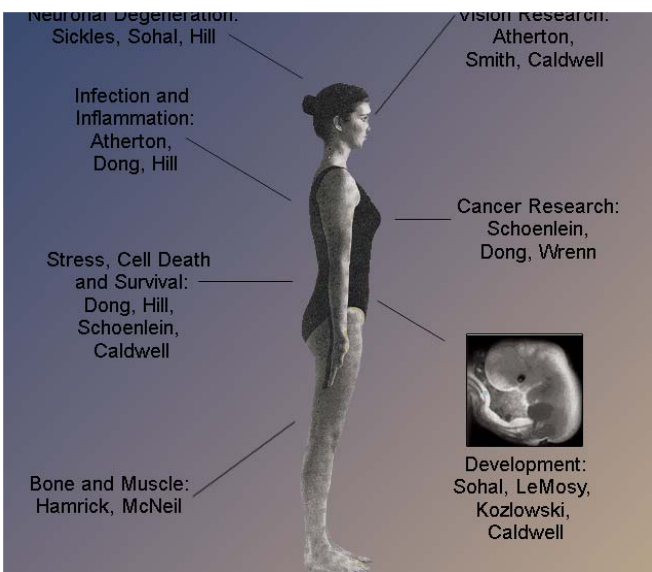
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www.mcg.edu/GradStudies

It all starts here...



Medical College of Georgia
School of Graduate Studies



Faculty & Research Interests



Sally S. Atherton, Ph.D.
 Professor and Chair
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 Pathogenesis of herpesvirus infections of the eye and brain, axonal transport and routes of virus spread, herpesvirus latency.



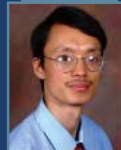
Ellen K. LeMosy, M.D., Ph.D.
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 Regulation of embryonic patterning signals by extracellular matrix. Developmental biology study using *Drosophila* model.



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 Cellular and molecular mechanisms of pathological angiogenesis. Molecular regulation of blood-retina barrier function.



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 Cellular, subcellular and molecular basis of the cell's response to temporary disruption in plasma membrane integrity.



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 Cell injury, death and adaptation under pathological and toxic stress during ischemic disease and tumor formation.



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 Signaling pathways that control tumor cell growth, proliferation, differentiation and death. Breast cancer and hormonal therapy.



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 Treatment and prevention of osteoporosis by studying the mechanisms that regulate bone gain and bone loss throughout life.



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 Neurotoxicology and the cytoskeleton: effects of toxicants on intracellular neuronal transport and motor proteins.



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 Pathogenic and reparative processes associated with stroke and Alzheimer's disease, with a focus on the use of stem cells in tissue repair to minimize injury and generate new neurons and blood vessels.



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 Cell and molecular biological studies of retinal function under normal and diseased conditions. Transporters, neuronal death and retinopathy.



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 Molecular mechanisms of sensory hair cell regeneration. Developmental origin of sensory hair cells in the inner ear. Zebra fish model.



G.S. Sohal, Ph.D.
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 Developmental biology. Identification and characterization of neural tube stem cells : VENT cells

An Outstanding Graduate Program

Cell biology and anatomy students:

- Conduct research as a biomedical scientist
- Contribute new knowledge to a specific area of research
- Are qualified to receive a competitive stipend or teaching assistant fellowship
- Write and publish scientific papers
- Have the opportunity to teach as a medical school classroom instructor
- Attend exciting seminars and meet world-renowned speakers and scientists
- Present findings at national and international meetings
- Work with high-quality, dedicated faculty members
- Study in an excellent academic environment