Department of Anatomical Sciences and Neurobiology

- Fully supported PhD program with a focus in Neuroscience
- Multiple recipients of National Research Service Awards (PhD-student training fellowships)
- MS degree offered in Anatomical Sciences & Instruction
- 20 full time and 10 affiliate faculty members
- World-class investigators in basic & translational science
- Award-winning educators
- Multiple University Distinguished Scholars
- Nationally ranked 20th in NIH funding
- Federally- and privately-funded research labs
- Home of the NIH-funded Kentucky Biomedical Research Infrastructure Network (KBRIN)
- Membership and collaborative ties with Kentucky Spinal Cord Injury Research Center (KSCIRC)

Sensory Systems

Martha Bickford: Functional organization of central visual circuits
Bart Borghuis: Synaptic and circuit mechanisms of the retina
William Guido: Circuit development of the visual thalamus
Robin Krimm: Development and circuitry of the peripheral taste system
Robert Lundy: Mechanisms of central taste processing
Chad Samuelsen: Cortical integration of taste and smell and the neural basis of flavor perception

Neural Injury and Repair

Charles Hubscher: Pelvic organ function and chronic pain following spinal cord injury
Ashok Kumar: Development of novel therapies for skeletal muscle disorders
Jeff Petruska: Plasticity of peripheral nerves and spinal cord

Anatomical Sciences and Instruction

Jennifer Brueckner-Collins: Innovative approaches in teaching the anatomical sciences
Brian Davis: Craniodental morphology, paleobiology, and evolutionary history of mammals
Nicole Herring: Structural relations between bones, ligaments and surrounding neurovasculature
Guillermo Rougier: Anatomy and evolution of mammals
Michael Tseng: Nanotoxicology and biological responses to xenobiotics

Development and Plasticity

Aaron McGee: Genes and mechanisms governing plasticity in sensory circuits
Patrick Moore: Development and maturation of the reproductive axis
Mensheng Qiu: Differentiation and regeneration of motor neurons and oligodendrocytes
Program Activities

- Welcome new student picnic
- New-student orientation week
- Seminars in Neuroscience
- Neurолуч Journal Club
- Thanksgiving pot-luck lunch
- Mid-winter party
- Student-faculty lunches
- Student-sponsored seminars and presentations

University-Wide Events

- Research! Louisville, an annual showcase of health-related research
- Neuroscience Day sponsored by Louisville Chapter of SfN
- Professional Development Academies, sponsored by the School of Interdisciplinary and Graduate Studies (Teaching, Entrepreneurship, Grant Writing, Publishing, and Community Engagement Academies)
- Interdisciplinary workshops and special events (panels, invited speakers, and social networking events).

Application Information

For information about our Graduate Programs, contact:
Admissions Director at
asnbapps@louisville.edu

Or visit:
http://louisville.edu/medicine/departments/anatomy/applications

If you are unable to access the internet, application forms and more information can be obtained by contacting the department at 502.852.5165.