Anatomy and Neurobiology

Christine M. Gall, Department Chair
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Overview

Research programs in the Department of Anatomy and Neurobiology in the School of Medicine focus on the neurosciences. Faculty interests range across all areas of basic and clinical research including cellular and molecular neurobiology, mechanisms of development, ion channel physiology, experimental neuroanatomy, structure and function of sensory and motor systems, response to injury and regeneration. The Department maintains facilities for electron microscopy, laser confocal microscopy, and computer-based imaging and informatics. Students performing graduate work in the Department are encouraged to become proficient in multiple areas of study using interdisciplinary techniques.

The Department offers graduate training under the auspices of the School of Medicine in conjunction with the Interdepartmental Neuroscience Program (INP) and the Medical Science Training Program (MSTP). Students are eligible to enter the Department program after meeting the specific requirements of the INP gateway curriculum or by direct application to the Department. The Department program leads to the M.S. or Ph.D. degree in Biomedical Sciences, awarded after successful completion of all requirements.

In concert with other departments, a combined neuroscience core curriculum has been developed which includes offerings in systems neurobiology, neurophysiology, and cellular, molecular, and developmental neurobiology that may be taken as complete or partial fulfillment of the requirements of the INP. Students admitted into the INP who subsequently select a research advisor in the Department begin following the departmental requirements for the Ph.D. at the beginning of their second year; whereas MSTP students, in addition to following departmental requirements for the Ph.D., will be considered as a first-year student and are required to take at least one INP course. Students may take additional elective courses at their own option, but they are required to attend departmental seminars and participate in the Journal Club and an annual “Grad Day” symposium. The research topic for a student’s dissertation is chosen by the student in consultation with the research advisor. Students are expected to advance to candidacy by the end of the third year by presenting progress on their own research and providing a proposal for their research dissertation. The normative time for completion of the Ph.D. is five years, and the maximum time permitted is seven years.

Faculty

Tallie Z. Baram, M.D. University of Miami, Danette Dee Dee Shepard Chair in Neurological Studies and Professor of Pediatrics; Anatomy and Neurobiology; Neurology; Physiology and Biophysics

Robert H. Blanks, Ph.D. University of California, Los Angeles, Professor Emeritus of Anatomy and Neurobiology

Anne L. Calof, Ph.D. University of California, San Francisco, Professor of Anatomy and Neurobiology; Developmental and Cell Biology (neurogenesis and neuronal differentiation)

Steven C. Cramer, M.D. University of Southern California, Professor of Neurology; Anatomy and Neurobiology; Physical Medicine and Rehabilitation

Brian J. Cummings, Ph.D. University of California, Irvine, Professor of Physical Medicine and Rehabilitation; Anatomy and Neurobiology

James H. Fallon, Ph.D. University of Illinois Medical Center, Professor Emeritus of Anatomy and Neurobiology

Mark J. Fisher, M.D. University of Cincinnati, Professor of Neurology; Anatomy and Neurobiology; Political Science

Christine M. Gall, Ph.D. University of California, Irvine, Department Chair and Professor of Anatomy and Neurobiology; Neurobiology and Behavior

Roland A. Giolli, Ph.D. University of California, Berkeley, Professor Emeritus of Anatomy and Neurobiology

Alan L. Goldin, M.D. Ph.D. University of Michigan, Professor of Microbiology and Molecular Genetics; Anatomy and Neurobiology; Physiology and Biophysics

Ranjan Gupta, M.D. Albany Medical College, Professor of Orthopaedic Surgery; Anatomy and Neurobiology; Biomedical Engineering (hand and upper extremity surgery)

Robert F. Hunt, Ph.D. University of Kentucky, Assistant Professor of Anatomy and Neurobiology

Kei Igarashi, Ph.D. University of Tokyo, Assistant Professor of Anatomy and Neurobiology
Kwang M. Jung, Ph.D. Chung-Ang University, **Assistant Adjunct Professor of Anatomy and Neurobiology**

Leonard M. Kitzes, Ph.D. University of California, Irvine, **Professor Emeritus of Anatomy and Neurobiology**

Frances L. Leslie, Ph.D. University of Aberdeen, **Professor of Pharmacology; Anatomy and Neurobiology**

Gary S. Lynch, Ph.D. Princeton University, **Professor of Psychiatry and Human Behavior; Anatomy and Neurobiology**

David C. Lyon, Ph.D. Vanderbilt University, **Department Vice Chair and Associate Professor of Anatomy and Neurobiology; Cognitive Sciences (long range cortical circuits)**

Diane K. O'Dowd, Ph.D. University of California, San Diego, **Professor of Developmental and Cell Biology; Anatomy and Neurobiology (regulation of activity in developing and adult nervous systems)**

Daniele Piomelli, Ph.D. Columbia University, **Louise Tumer Arnold Chair in the Neurosciences and Professor of Anatomy and Neurobiology; Biological Chemistry; Pharmacology**

David J. Reinkensmeyer, Ph.D. University of California, Berkeley, **Professor of Anatomy and Neurobiology; Biomedical Engineering; Mechanical and Aerospace Engineering; Physical Medicine and Rehabilitation (robotics, mechatronics, biomedical engineering, rehabilitation, biomechanics, neural control of movement)**

Charles E. Ribak, Ph.D. Boston University, **Professor Emeritus of Anatomy and Neurobiology**

Richard T. Robertson, Ph.D. University of California, Irvine, **Professor Emeritus of Anatomy and Neurobiology**

Steven S. Schreiber, M.D. Albany Medical College, **Professor in Residence of Neurology; Anatomy and Neurobiology; Psychiatry and Human Behavior**

Martin A. Smith, Ph.D. University of Newcastle, **Professor Emeritus of Anatomy and Neurobiology**

Ana Solodkin, Ph.D. National Polytechnic Inst of Mexico, **Associate Professor of Anatomy and Neurobiology; Neurology**

Ivan Soltesz, Ph.D. Eötvös Loránd University, **Adjunct Professor of Anatomy and Neurobiology**

Oswald Steward, Ph.D. University of California, Irvine, **Reeve-Irvine Chair in Spinal Cord Injury Research and Professor of Anatomy and Neurobiology; Neurobiology and Behavior**

John E. Swett, Ph.D. University of California, Los Angeles, **Professor Emeritus of Anatomy and Neurobiology**

Jamie Wikenheiser, Ph.D. Case Western Reserve University, **Associate Adjunct Professor of Anatomy and Neurobiology**

Xiangmin Xu, Ph.D. Vanderbilt University, **Associate Professor of Anatomy and Neurobiology; Biomedical Engineering; Electrical Engineering and Computer Science (local cortical circuits)**

Fan-Gang Zeng, Ph.D. Syracuse University, **Professor of Otolaryngology; Anatomy and Neurobiology; Biomedical Engineering; Cognitive Sciences (cochlear implants and auditory neuroscience)**