Microbiology and Molecular Genetics

Building B, Room 240, Medical Sciences I; 949-824-5261
http://www.microbiology.uci.edu/
Rozanne M. Sandri-Goldin, Department Chair
Marian L. Waterman, Department Vice Chair
Klemens J. Hertel, Departmental Graduate Advisor

The Department of Microbiology and Molecular Genetics provides advanced training to individuals interested in the regulation of gene expression and the structural and functional properties of proteins encoded by these genes. The research in the Department covers a wide range of topics with special emphasis on bacterial gene expression and pathogenesis; viral gene expression and host interactions; vector-borne malaria and dengue fever transmission; nuclear-cytoplasmic transport and intracellular signaling; eukaryotic gene expression; mRNA splicing, and processing; cancer genetics and tumor suppressors; ion channel expression and function; genomics and bioinformatics.

The Department offers graduate study under the auspices of the School of Medicine and in conjunction with the program in Cellular and Molecular Biosciences (CMB) and the program in Mathematical and Computational Biology (MCB), which are described in the Francisco J. Ayala School of Biological Sciences (http://catalogue.uci.edu/previouseditions/2014-15/schoolofbiologicalsciences/#graduatetext) section. Students are eligible to enter the Department program after meeting the specific requirements of the CMB 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. Students admitted into the CMB program who select a research advisor in the Department begin following the departmental requirements for the Ph.D. at the beginning of their second year.

Participation in the Department’s seminar series and completion of at least one advanced topics course per year for three years are expected of all students. All students are required to convene a pre-advancement committee meeting at the end of their second year. In their third year, students take the advancement-to-candidacy examination for the Ph.D. degree by presenting and defending an original proposal for specific dissertation research. The normative time for completion of the Ph.D. is five years, and the maximum time permitted is seven years.

Faculty

Alan G. Barbour, M.D. Tufts University, Professor of Microbiology and Molecular Genetics; Ecology and Evolutionary Biology; Medicine
Emiliana Borrelli, Ph.D. University of Strasbourg, Professor of Microbiology and Molecular Genetics; Pharmacology
Michael J. Buchmeier, Ph.D. McMaster University, Professor of Medicine; Microbiology and Molecular Genetics; Molecular Biology and Biochemistry
K. George Chandy, Ph.D. University of Birmingham, Professor of Physiology and Biophysics; Microbiology and Molecular Genetics
Dennis D. Cunningham, Ph.D. University of Chicago, Professor Emeritus of Microbiology and Molecular Genetics
Michael Demetriou, M.D. University of Toronto, Professor of Neurology; Microbiology and Molecular Genetics
Alan L. Goldin, M.D. University of Michigan, Professor of Microbiology and Molecular Genetics; Anatomy and Neurobiology; Physiology and Biophysics
Sidney H. Golub, Ph.D. Temple University, Professor Emeritus of Microbiology and Molecular Genetics
Sudhir Gupta, Ph.D. University of Lucknow, Professor of Medicine; Microbiology and Molecular Genetics
George A. Gutman, Ph.D. Stanford University, Professor Emeritus of Microbiology and Molecular Genetics
G. Wesley Hatfield, Ph.D. Purdue University, Professor Emeritus of Microbiology and Molecular Genetics; Chemical Engineering and Materials Science
Klemens J. Hertel, Ph.D. University of Colorado Boulder, Professor of Microbiology and Molecular Genetics
Anthony A. James, Ph.D. University of California, Irvine, UCI Distinguished Professor of Microbiology and Molecular Genetics; Molecular Biology and Biochemistry
Michael McClelland, Ph.D. University of Georgia, Professor of Microbiology and Molecular Genetics
Manuela Raffatellu, M.D. Università degli Studi di Sassar, Assistant Professor of Microbiology and Molecular Genetics
Gayathri V. Rao, Ph.D., Specialist of Microbiology and Molecular Genetics
W. Edward Robinson, Ph.D. Vanderbilt University, Professor in Residence of Pathology and Laboratory Medicine; Microbiology and Molecular Genetics
Suzanne B. Sandmeyer, Ph.D. University of Washington, Grace Beekhuis Bell Chair in Biological Chemistry and Professor of Biological Chemistry; Chemical Engineering and Materials Science; Microbiology and Molecular Genetics (retroelements, metabolic molding, genomics)
MIC BIO 200R. Research in Developmental & Cell Biology for First-year Students. 2-12 Units.
Independent research within the laboratories of graduate training faculty in the Department of Developmental and Cell Biology for first-year Ph.D. students.

Grading Option: Satisfactory/unsatisfactory only.

Repeatability: May be taken for credit 3 times.

Restriction: S/U only and Consent of instructor to enroll