Experimental Pathology

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Overview

The Department of Pathology and Laboratory Medicine offers a Ph.D. in Biomedical Sciences with a concentration in Experimental Pathology. The graduate program emphasizes experimental approaches to better understand the molecular and cellular mechanisms of disease, particularly human disease. Students work in laboratories studying topics ranging from infectious processes such as malaria and the acquired immune deficiency syndrome to innate immunity. The principal areas of research investigated by faculty in the Experimental Pathology concentration range from developmental neurobiology, to microbial genomics, to cellular stress response, to cancer.

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), which is described in the Francisco J. Ayala School of Biological Sciences 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 program who select a research advisor in the Department begin following the departmental requirements for the Ph.D. at the start of their second year.

Experimental Pathology makes extensive use of both animal models of human disease and studies on human tissues from human subjects. Therefore, the curriculum is heavily weighted on experimental models, including animal models, of human disease. The didactic teaching components of the track are supplemented by a Pathology research conference, in which faculty, postdoctoral fellows, and graduate students present seminars or “research in progress” (RIP) talks. This seminar series allows trainees the opportunity to gain invaluable experience in presenting their research to other scientists and provides a mentoring process through which students gain insights from diverse scientific viewpoints.

Students should advance to candidacy by the end of their third year. The normative time for completion of the Ph.D. is five years, and the maximum time permitted is seven years.

Faculty

Jefferson Chan, Ph.D. University of California, San Francisco, Professor of Pathology and Laboratory Medicine; Environmental Health Sciences

Steven D. Chessler, M.D. University of Washington, Associate Professor of Medicine; Pathology and Laboratory Medicine

Maria G. Dacosta-Iyer, M.D. University of Bombay, Health Sciences Clinical Professor of Pathology and Laboratory Medicine

Suvarna A. Deshmukh-Rane, M.D. University of Pune, Health Sciences Assistant Clinical Professor of Pathology and Laboratory Medicine

Robert A. Edwards, M.D., Ph.D. Baylor College of Medicine, Associate Professor of Pathology and Laboratory Medicine

Wamda Goreal, M.D. University of Baghdad, Health Sciences Assistant Clinical Professor of Pathology and Laboratory Medicine

Ronald C. Kim, M.D. Jefferson Medical College, Health Sciences Clinical Professor of Pathology and Laboratory Medicine

Nils W. Lambrecht, M.D., Ph.D. Ruhr University Bochum, Health Sciences Associate Clinical Professor of Pathology and Laboratory Medicine

Thomas K. Lee, M.D., Ph.D. George Washington University, Health Sciences Assistant Clinical Professor of Pathology and Laboratory Medicine

Di Lu, M.D. Shanghai Medical University, Health Sciences Clinical Professor of Pathology and Laboratory Medicine

Yuxin Lu, M.D. Suzhou Medical College, Health Sciences Assistant Clinical Professor of Pathology and Laboratory Medicine

Irina Maramica, M.D., Ph.D. University of Illinois at Urbana–Champaign, Health Sciences Associate Clinical Professor of Pathology and Laboratory Medicine

Dan Mercola, M.D., Ph.D. University of California, Los Angeles, Professor of Pathology and Laboratory Medicine

Donald S. Minckler, M.D. University of Oregon School of Medicine, Professor Emeritus of Ophthalmology; Pathology and Laboratory Medicine

Edwin S. Monuki, M.D., Ph.D. University of California, San Diego, Department Chair and Associate Professor of Pathology and Laboratory Medicine; Developmental and Cell Biology (cerebral cortex, choroid plexus development, translation)

Richard S. Newman, M.D. University of California, Irvine, Health Sciences Clinical Professor of Pathology and Laboratory Medicine
Yi Ouyang, M.D. Jilin University, Health Sciences Associate Clinical Professor of Pathology and Laboratory Medicine

Ellena Peterson, Ph.D. Georgetown University, Professor of Pathology and Laboratory Medicine

Sherif Rezk, M.D. Alexandria University Faculty of Medicine, Associate Professor of Pathology and Laboratory Medicine

Minh-Ha Tran, D.O. Western University of Health Sciences, Health Sciences Associate Clinical Professor of Pathology and Laboratory Medicine

Beverly Wang, M.D. Jiangxi Medical College, Professor of Pathology and Laboratory Medicine

Mark Li-cheng Wu, M.D. University of Wisconsin-Madison, Associate Professor of Pathology and Laboratory Medicine

Xiaohui Zhao, M.D., Ph.D. University of Illinois at Urbana–Champaign, Health Sciences Associate Clinical Professor of Pathology and Laboratory Medicine

Luis M. de La Maza, M.D., Ph.D. University of Minnesota, Professor of Pathology and Laboratory Medicine