

PATHOLOGY

Courses offered by the Department of Pathology are listed under the subject code PATH on the Stanford Bulletin's ExploreCourses web site.

Programs of Study in Pathology

The Department of Pathology offers advanced courses in aspects of pathology. The department does not offer advanced degrees in pathology, but qualified graduate students who are admitted to department-based or interdepartmental graduate programs may elect to pursue their thesis requirements in the department's research laboratories. The discipline of pathology has served as a bridge between the preclinical and clinical sciences and is focused on the application of advances in the basic biological sciences, both to the diagnosis of human disease and the elucidation of the mechanisms of normal molecular, cellular, and organ structure and function that manifest themselves in clinical disease. Accordingly, the department's research interests extend from fundamental molecular biology to clinical-pathological correlations, with an emphasis on experimental oncology.

Investigation in the department includes basic studies in areas using molecular biological, biochemical, and genetic cell biological techniques: DNA replication in yeast and cultured eukaryotic cells, cell cycle control in animal cells and yeast, identification and pathogenetic role of chromosomal aberrations in human malignancies and mechanisms of activation of oncogenes in human and animal cells, lymphocyte and neutrophil-interactions with endothelial cells, cell type specification and signal transduction pathways leading to specific gene expression or modulation of cytoskeletal behavior; cytoskeletal architecture, cell-matrix interaction, developmental biology of hematopoietic stem cells and thymus, regulation of the immune system, mechanisms of immune and other responses in the central nervous system, and neuro-degenerative diseases. Various studies focus on the development of novel diagnostic and immunotherapeutic treatment modalities and techniques for solid tumors, lymphomas, HIV, and genetic diseases. Research training in all of these areas is available for qualified medical and graduate students by individual arrangement with the appropriate faculty member.

A summary of the research interests of the department faculty is available at Sanford's School of Medicine (<http://pathology.stanford.edu>) web site.

Emeriti: (Professor) Ellen Jo Baron, Susan Galel, Sharon Geaghan, Michael Hendrickson, Richard L. Kempson, Jon Kosek, Roger Warnke

Chair: Stephen J. Galli

Professors: Daniel Arber, Jeffrey D. Axelrod, Gerald J. Berry, Matt Bogyo, Eugene C. Butcher, Athena Cherry, Michael L. Cleary, Gerald R. Crabtree, Edgar G. Engleman, Dean Felsher, Marcelo Fernandez-Vina, Andrew Fire, Steven Foung, Stephen J. Galli, Lawrence Tim Goodnough, John Higgins, Neeraja Kambham, Christina Kong, Teri Longacre, Joseph S. Lipsick, Bingwei Lu, Sara Michie, Yasodha Natkunam, Donald P. Regula, Robert V. Rouse, Kang Shen, Iris Schrijver, Hua Shan, Richard K. Sibley, Raymond Sobel, Dolly Tyan, Matt van de Rijn, Hannes Vogel, Irving L. Weissman, Eduardo Zambano, James Zehnder

Associate Professors: Kim Allison, Jeffrey D. Axelrod, Matt Bogyo, Niaz Banaie, Andrew Connolly, Tina Cowan, Jonathan R. Pollack, Arend Sidow, Marius Wernig, Robert West

Assistant Professors: Sean Bendall, Scott Boyd, Ann Folkins, Isabella Graef, Dita Gratzinger, F. Kim Hazard, Kristin Jensen, Chia-Sui Kao, Jinah Kim, Jason Merker, Stephen Montgomery, Robert Ohgami, Benjamin Pinsky, Ed Plowey, Erich Schwartz, Gerlinde Wernig, Monte Winslow, Ellen Yeh

Courtesy Professors: Donna Bouley, John Day, Bertil Glader

Courtesy Associate Professor: Euan Ashley, Robert Shafer

Courtesy Assistant Professor: Michaela Liedtke, Michelle Monje-Deisseroth

Clinician Educators: Jennifer Andrews, Raffick Bowen, Susan Atwater, David Bingham, Brittany Holmes, Christian Kunder, Steven Long, Melanie Manning, Roberto Novoa, David Oh, Tho Pham, Kerri Rieger, Matthew Rumery, Darren Salmi, Neil Shah, Run Shi, Carlos Suarez, Brent Tan, Eric Yang

Instructors: Mike Angelo, Joseph Hernandez, Marisa Juntilla, Franklin Mullins, Justin Odegaard, Riccardo Sibiliano, Albert Tsai, Kitchener Wilson

Adjunct Clinical Faculty: Swaroop Aradhya, Robert Archibald, Jerome S. Burke, Glenn Cockerham, Seth Haber, Maie K. Herrick, Paul W. Herrmann, Michelle Jorden, Charles Lombard, Robert Luo, Gregory Moes, Joseph O'Hara, William Rueh, Matrina Schmidt, Thomas W. Rogers

Clinical Educators (Affiliated): Melissa Clark, Dean Fong, Barbara Egbert