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


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 Gratzing...