STRUCTURAL BIOLOGY

Courses offered by the Department of Structural Biology are listed under the subject code SBIO on the Stanford Bulletin's ExploreCourses website.

The department offers coursework and opportunities for research in structural biology.

The emphasis of research in the department is on understanding fundamental cellular processes in terms of the structure and function of biological macromolecules and their assemblies. Techniques used include standard methods of biochemistry, cell culture, single-molecule fluorescence spectroscopy, genetic engineering, and three-dimensional structure determination by x-ray diffraction, nuclear magnetic resonance spectroscopy, and electron microscopy, coupled with the development of computational methods.

Doctor of Philosophy in Structural Biology

University requirements for the Ph.D. are described in the "Graduate Degrees (http://exploredegrees.stanford.edu/graduatedegrees)" section of this bulletin.

The graduate program in Structural Biology leads to the Ph.D. degree. The department also participates in the Medical Scientists Training Program (MSTP) in which individuals are candidates for both Ph.D. and M.D. degrees.

The graduate program is intended to prepare students for careers as independent investigators in cell and molecular biology. The principal requirement of a Ph.D. degree is the completion of research constituting an original and significant contribution to the advancement of knowledge.

The requirements and recommendations for applying to the Ph.D. program in the Department of Structural Biology include:

1. Application forms must be received by the department before December 15 for notification after April 15. Application to the National Science Foundation for fellowship support is also encouraged. Remission of fees and a personal stipend are available to graduate students in the department. Prospective applicants should contact the Department of Structural Biology for further information.

Current topics of research in the department lie in the areas of gene expression; theoretical, crystallographic, and genetic analysis of protein structure; and cell-cell interaction. See Stanford's School of Medicine (http://www.med.stanford.edu/school/structuralbio) website for further information.

Graduate Advising Expectations

The Department of Structural Biology is committed to providing academic advising in support of graduate student scholarly and professional development. When most effective, this advising relationship entails collaborative and sustained engagement by both the adviser and the advisee. As a best practice, advising expectations should be periodically discussed and reviewed to ensure mutual understanding. Both the adviser and the advisee are expected to maintain professionalism and integrity.

Faculty advisers guide students in key areas such as selecting courses, designing and conducting research, developing of teaching pedagogy, navigating policies and degree requirements, and exploring academic opportunities and professional pathways.

Graduate students are active contributors to the advising relationship, proactively seeking academic and professional guidance and taking responsibility for informing themselves of policies and degree requirements for their graduate program.

For a statement of University policy on graduate advising, see the "Graduate Advising (http://exploredegrees.stanford.edu/graduatedegrees#advisingandcredentialstext)" section of this bulletin.

Chair: William I. Weis
Associate Chair: Michael Levitt

Professors:
- K. Christopher Garcia
- Theodore Jardetzky
- Roger D. Kornberg
- Michael Levitt
- Peter Parham
Structural Biology

- Joseph D. Puglisi
- Soichi Wakatsuki
- William I. Weis

Associate Professor (Research):
- Yahli Lorch

Assistant Professor (Research):
- Elizabetta Viani Puglisi

Assistant Professor:
- Adam de la Zerda

Courtesy Professor:
- Axel Brunger
- Vijay Pande

Courtesy Associate Professor:
- Zev Bryant