
Molecular Biology

Faculty

Greg L. Harris, Ph.D., Professor of Biology
(Molecular Biology Institute Director)

Sanford I. Bernstein, Ph.D., Professor of Biology

Richard L. Bizzoco, Ph.D., Professor of Biology

Terrence G. Frey, Ph.D., Professor of Biology

Christopher C. Glembotski, Ph.D., Professor of Biology

Roberta A. Gottlieb, M.D., Professor of Biology

Stanley Maloy, Ph.D., Professor of Biology and
Dean of the College of Sciences

Kathleen L. McGuire, Ph.D., Professor of Biology

Robert P. Metzger, Ph.D., Professor of Chemistry and Biochemistry

Jacques Perrault, Ph.D., Professor of Biology

Roger A. Sabbadini, Ph.D., Professor of Biology

Anca Mara Segall, Ph.D., Professor of Biology

William E. Stumph, Ph.D., Professor of Chemistry and Biochemistry
(Graduate Adviser)

Mark A. Sussman, Ph.D., Professor of Biology

Constantine Tsoukas, Ph.D., Professor of Biology (Graduate Adviser)

Shelli R. McAlpine, Ph.D., Associate Professor of Chemistry and
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P.J.E. (Jenny) Quintana, Ph.D., Associate Professor of Public Health

César Arenas-Mena, Ph.D., Assistant Professor of Biology

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Tom Huxford, Ph.D., Assistant Professor of Chemistry and
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John J. Love, Ph.D., Assistant Professor of Chemistry and
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Adjunct Faculty

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Stanley G. Bower, Ph.D., Kelco Biopolymers

Stanley T. Croke, M.D., Ph.D., Isis Pharmaceuticals

Martin Gore, Ph.D., Arena Pharmaceuticals, Inc.

Nancy E. Harding, Ph.D., Kelco Biopolymers

Greg Kelner, Ph.D., Arena Pharmaceuticals

Brett P. Monia, Ph.D., Isis Pharmaceuticals

Gregor Zlokarnik, Ph.D., Aurora Biosciences

General Information

The Molecular Biology Institute (MBI) administers the Master of Arts and Master of Science degrees in biology with a concentration in molecular biology. The MBI is currently composed of members from the Departments of Biology, Chemistry and Biochemistry, and the

Graduate School of Public Health, and is designed to serve these departments in the coordination, support, and enhancement of research and training in the molecular biological sciences. See Biology in this section of the bulletin for information on how to apply.

Graduate teaching associateships in biology and chemistry are available to qualified students. Application blanks and additional information may be obtained from the graduate coordinator of biology and are also available at <http://www.bio.sdsu.edu>.

Admission to Graduate Study

Candidates for admission may come from a variety of disciplines in the biological and physical sciences. Ultimately, the research programs of individuals wishing to pursue master's degree work in molecular biology will be carried out under the supervision of MBI members.

In addition to the general requirements for admission to the university with classified graduate standing as described in Part Two of this bulletin, a student must satisfy the following admission requirements before being recommended for admission.

1. Possess a bachelor's degree with a major in a biological or physical science equivalent to that offered at San Diego State University.
2. Have a grade point average of 2.85 or better in work taken for the baccalaureate degree.
3. Meet biology departmental expectations on the GRE General Test.
4. Supply two letters of reference that describe the applicant's potential for graduate work.

Students who do not meet all of the above requirements for admission may be admitted with conditionally classified graduate standing upon the recommendation of the MBI faculty. Students so admitted will be advised as to the nature of their deficiency and the time allowed to achieve full classified graduate standing.

Advancement to Candidacy

All students must satisfy the general requirements for advancement to candidacy, including the foreign language requirement for the master of arts degree, as stated in Part Two of this bulletin. Satisfactory progress on the thesis research will be prerequisite to obtaining departmental approval for advancement.

Specific Requirements for the Master of Arts or Master of Science Degree

(Major Code: 04161)

In addition to meeting the requirements for classified graduate standing and the basic requirements for the master's degree as described in Part Two of this bulletin, the student must complete a graduate program of 30 units of 500-level and above courses selected, with the approval of the MBI graduate adviser. A list of suggested courses is presented on the following page. All students entering the Master of Science program in molecular biology will be required to take an advanced course in molecular biology. At least 15 units of the courses selected must be in 600- and 700-numbered courses including 799A, Thesis. The student must complete at least three units of Molecular Biology 601 and six units of Molecular Biology 610. With the approval of the graduate adviser of molecular biology, a student may substitute for Molecular Biology 610 another 600 or 700 numbered course. A final oral examination on the thesis will be administered by the thesis committee.