DEPARTMENT OF BIOLOGY

http://www.bio.tamu.edu (http://www.bio.tamu.edu/)

Head: A. Keene

Resources for Graduate Study

The Department of Biology offers graduate programs designed to prepare students for careers in academic institutions, government agencies and industry. The Biological Sciences Complex is centrally located on the campus of Texas A&M University. Graduate research is emphasized in over 50 laboratories that contain modern and sophisticated instrumentation for cellular, molecular, organismal and ecological studies. These laboratories provide opportunities for a broad spectrum of research specializations. The Microscopy Imaging Center, animal care facilities and a state-of-the-art DNA sequencing laboratory are among the many facilities housed in the Biological Sciences Complex.

The Department of Biology faculty has research interests that interface with faculty in agriculture and life sciences, geosciences, medicine and veterinary medicine. Biology faculty participate in interdisciplinary programs in biological clocks, filamentous fungi, genetics, genomics, neuroscience and plant sciences. Cooperation is encouraged to broaden the research experience of graduate students.

Areas of Specialization in Graduate Research

PhD and MS degrees are offered in Biology, and PhD and MS degrees are offered in Microbiology. General areas of research interests within these degrees include:

Cellular and Developmental Biology

Plant protoplast and tissue culture, transformation and regeneration; molecular biology and genetics of development and differentiation; nuclear organization; developmental neurobiology; cell surface interactions; physiology of photosynthesis.

Evolutionary Biology

Modern and classical approaches to plant and animal systematics and evolution; genomic and biochemical evolution; cytogenetics.

Molecular Biology

DNA and RNA isolation, cloning and sequencing; gene isolation, characterization, transfer and expression; bacterial and phage genetics; molecular processes of differentiation and embryogenesis; molecular microbiology and virology; genomics and informatics.

Organismal Biology

Comparative endocrinology and physiology; neurobiology; invertebrate ecology and ethology; marine biology; biological clocks.

Entrance Requirements

Coursework taken at the baccalaureate level normally must include mathematics through calculus, statistics, chemistry including organic chemistry, biochemistry, physics, genetics and adequate preparation in a biological science. Any remedial work will be in addition to the semester hours required for the degree. Graduate admissions decisions are based on students' academic record, research experience, letters of recommendation, GRE scores (verbal, quantitative and analytical) and suitability of students' research interests for programs in the department. For information about admissions, contact the Graduate Advisor, Department of Biology or visit us on the website at http://www.bio.tamu.edu (http://www.bio.tamu.edu/).

Language Requirement

The Department of Biology has no foreign language requirement for any graduate degree program.

Faculty

Adams, Amanda, Senior Lecturer
Biology
PHD, University of Western Ontario, 2013

Alexander, Michael B, Lab Instructor
Biology
PHD, Texas A&M University, 2014

Aramayo, Rodolfo A, Associate Professor
Biology
PHD, University of Georgia, 1992

Arzan Zarin, Aref, Assistant Professor
Biology
PHD, The University of Dublin, 2013

Bell-Pedersen, Deborah, Professor
Biology
PHD, State University of New York at Albany, 1991

Beremand, Phillip D, Lab Instructor
Biology
PHD, Indiana University at Bloomington, 1979

Bernardo, Joseph, Research Associate Professor
Biology
PHD, Duke University, 1991

Blackmon, Heath L, Assistant Professor
Biology
PHD, University of Texas at Arlington, 2015

Cohn, William B, Instructional Assistant Professor
Biology
PHD, Texas A&M University, 2000

Criscione, Charles D, Professor
Biology
PHD, Oregon State University, 2005

Delmore, Kira, Assistant Professor
Biology
PHD, University of British Columbia, 2015

Dulin, Jennifer N, Assistant Professor
Biology
PHD, University of Texas Health Science Center, 2012

Epps, Sharon V, Lab Instructor
Biology
MS, Texas A&M University, 2013
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>University/Institution</th>
<th>Year</th>
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<tbody>
<tr>
<td>Erickson, James W</td>
<td>Associate Professor Biology</td>
<td>University of Wisconsin, Madison</td>
<td>1989</td>
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<tr>
<td>Farhy, Isabella</td>
<td>Assistant Professor Biology</td>
<td>Tel Aviv University</td>
<td>2013</td>
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<tr>
<td>Fletcher, Samantha</td>
<td>Senior Lecturer Biology</td>
<td>Texas A&amp;M University</td>
<td>2019</td>
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<tr>
<td>Garcia, Luis R</td>
<td>Professor Biology</td>
<td>University of Texas</td>
<td>1996</td>
</tr>
<tr>
<td>Gomer, Richard H</td>
<td>University Distinguished Professor Biology</td>
<td>California Institute of Technology</td>
<td>1983</td>
</tr>
<tr>
<td>Griffing, Lawrence R</td>
<td>Associate Professor Biology</td>
<td>Stanford University</td>
<td>1981</td>
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<td>Hardin, Paul E</td>
<td>Distinguished Professor Biology</td>
<td>Indiana University</td>
<td>1987</td>
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<td>Hawkins, Angela K</td>
<td>Senior Lecturer Biology</td>
<td>Texas A&amp;M University</td>
<td>2018</td>
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<td>Janes, Donna</td>
<td>Senior Lecturer Biology</td>
<td>University of Illinois</td>
<td>2004</td>
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<td>Leboeuf, Brigitte L</td>
<td>Senior Lecturer Biology</td>
<td>Texas A&amp;M University</td>
<td>2009</td>
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<tr>
<td>Lockless, Steve W</td>
<td>Associate Professor Biology</td>
<td>University of Texas at Dallas</td>
<td>2002</td>
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<tr>
<td>Mackenzie, Duncan S</td>
<td>Associate Professor Biology</td>
<td>University of California at Berkeley</td>
<td>1980</td>
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<td>McCreedy, Dylan</td>
<td>Assistant Professor Biology</td>
<td>Washington University, St. Louis</td>
<td>2013</td>
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<td>McKnight, Thomas D</td>
<td>Professor Biology</td>
<td>University of Georgia</td>
<td>1983</td>
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<td>Menet, Jerome</td>
<td>Assistant Professor Biology</td>
<td>Louis Pasteur University</td>
<td>2003</td>
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<td>Merlin, Christine</td>
<td>Associate Professor Biology</td>
<td>University Pierre and Marie Curie</td>
<td>2006</td>
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<td>Mitchell, Angela</td>
<td>Assistant Professor Biology</td>
<td>University of North Carolina at Chapel Hill</td>
<td>2013</td>
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<td>Moyes, Rita J</td>
<td>Instructional Associate Professor Biology</td>
<td>Texas A&amp;M University</td>
<td>1992</td>
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<td>Nan, Beiyan</td>
<td>Associate Professor Biology</td>
<td>Peking University</td>
<td>2007</td>
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<td>Norton, Jerry D</td>
<td>Lab Instructor Biology</td>
<td>University of Texas</td>
<td>1994</td>
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<td>Paredes-Sabja, Daniel</td>
<td>Assistant Professor Biology</td>
<td>Oregon State University</td>
<td>2009</td>
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<td>Pepper, Alan E</td>
<td>Professor Biology</td>
<td>University of California at Davis</td>
<td>1990</td>
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<td>Pilling, Darrell</td>
<td>Research Assistant Professor Biology</td>
<td>University of Birmingham</td>
<td>1995</td>
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<td>Qin, Hongmin</td>
<td>Associate Professor Biology</td>
<td>Institute of Microbiology, Chinese Academy of Sciences</td>
<td>1999</td>
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<td>Rao, Asha</td>
<td>Instructional Associate Professor Biology</td>
<td>Texas A&amp;M University</td>
<td>2002</td>
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<td>Riley, Bruce B</td>
<td>Professor Biology</td>
<td>University of Wisconsin</td>
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<td>Rosenthal, Gil G</td>
<td>Professor Biology</td>
<td>The University of Texas at Austin</td>
<td>2000</td>
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<td>Roy Sarkar, Tapasree</td>
<td>Research Assistant Professor Biology</td>
<td>Purdue University</td>
<td>2008</td>
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<td>Ryan, Kathryn J</td>
<td>Instructional Associate Professor Biology</td>
<td>Baylor College of Medicine</td>
<td>1998</td>
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<tr>
<td>Sachs, Matthew S</td>
<td>Professor Biology</td>
<td>Massachusetts Institute of Technology</td>
<td>1986</td>
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<td>Scott, Timothy P</td>
<td>Professor Biology</td>
<td>Texas A&amp;M University</td>
<td>1996</td>
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<tr>
<td>Siegele, Deborah A</td>
<td>Associate Professor Biology</td>
<td>University of Wisconsin</td>
<td>1989</td>
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</tbody>
</table>
Smith, James L, Professor
Biology
PHD, University of Florida, 2002

Smootherman, Michael S, Professor
Biology
PHD, University of California at Los Angeles, 1998

Sorg, Joseph A, Professor
Biology
PHD, University of Chicago, 2006

St. Clair, Allison, Senior Lecturer
Biology
PHD, Texas A&M University, 2017

Tag, Andrew G, Instructional Associate Professor
Biology
PHD, Texas A&M University, 2003

Taylor, Lathrop, Instructional Assistant Professor
Biology
PHD, Texas A&M University, 1985

Versaw, Wayne K, Professor
Biology
PHD, University of Wisconsin, Madison, 1995

Wicksten, Mary K, Professor
Biology
PHD, University of Southern California, 1977

Wright, Rachel N, Lab Instructor
Biology
PHD, Texas A&M University, 2011

Zoran, Mark J, Professor
Biology
PHD, Iowa State University, 1987

**Masters**

- Master of Science in Biology ([http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/ms/](http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/ms/))
- Master of Science in Microbiology ([http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/microbiology-ms/](http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/microbiology-ms/))

**Doctoral**

- Doctor of Philosophy in Biology ([http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/phd/](http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/phd/))
- Doctor of Philosophy in Microbiology ([http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/microbiology-phd/](http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/microbiology-phd/))