DEPARTMENT OF BIOLOGY

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; cyto genetics.

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.

Language Requirement

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

Faculty

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, University Distinguished Professor
Biology
PHD, State University of New York at Albany, 1991

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

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

Criscone, 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

Erickson, James W, Associate Professor
Biology
PHD, University of Wisconsin, Madison, 1989

Farhy, Isabella, Assistant Professor
Biology
PHD, Tel Aviv University, 2013

Fletcher, Samantha, Senior Lecturer
Biology
PHD, Texas A&M University, 2019

Garcia, Luis R, Professor
Biology
PHD, University of Texas, 1996
<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
<th>Department</th>
<th>University</th>
<th>Year(S)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gomer, Richard H</td>
<td>University Distinguished Professor</td>
<td>Biology</td>
<td>California Institute of Technology</td>
<td>1983</td>
</tr>
<tr>
<td>Griffing, Lawrence R</td>
<td>Associate Professor</td>
<td>Biology</td>
<td>Stanford University</td>
<td>1981</td>
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<tr>
<td>Hardin, Paul E</td>
<td>Distinguished Professor</td>
<td>Biology</td>
<td>Indiana University</td>
<td>1987</td>
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<tr>
<td>Hawkins, Angela K</td>
<td>Senior Lecturer</td>
<td>Biology</td>
<td>Texas A&amp;M University</td>
<td>2018</td>
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<tr>
<td>Janes, Donna</td>
<td>Instructional Associate Professor</td>
<td>Biology</td>
<td>University of Illinois</td>
<td>2004</td>
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<tr>
<td>Leboeuf, Brigitte L</td>
<td>Instructional Associate Professor</td>
<td>Biology</td>
<td>Texas A&amp;M University</td>
<td>2009</td>
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<tr>
<td>Lee, Christopher P</td>
<td>Instructional Associate Professor</td>
<td>Biology</td>
<td>Texas A&amp;M University</td>
<td>2014</td>
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<tr>
<td>Lockless, Steve W</td>
<td>Research Assistant Professor</td>
<td>Biology</td>
<td>University of Texas at Dallas</td>
<td>2002</td>
</tr>
<tr>
<td>Mackenzie, Duncan S</td>
<td>Associate Professor Emeritus</td>
<td>Biology</td>
<td>University of California at Berkeley</td>
<td>1980</td>
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<tr>
<td>McCreedy, Dylan</td>
<td>Assistant Professor</td>
<td>Biology</td>
<td>Washington University, St. Louis</td>
<td>2013</td>
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<tr>
<td>McKnight, Thomas D</td>
<td>Professor</td>
<td>Biology</td>
<td>University of Georgia</td>
<td>1983</td>
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<tr>
<td>Menet, Jerome</td>
<td>Associate Professor</td>
<td>Biology</td>
<td>Louis Pasteur University</td>
<td>2003</td>
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<tr>
<td>Merlin, Christine</td>
<td>Associate Professor</td>
<td>Biology</td>
<td>University Pierre and Marie Curie</td>
<td>2006</td>
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<tr>
<td>Mitchell, Angela</td>
<td>Assistant Professor</td>
<td>Biology</td>
<td>University of North Carolina at Chapel Hill</td>
<td>2013</td>
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<tr>
<td>Moyes, Rita J</td>
<td>Instructional Associate Professor Emerita</td>
<td>Biology</td>
<td>Texas A&amp;M University</td>
<td>1992</td>
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<tr>
<td>Nan, Beiyan</td>
<td>Associate Professor</td>
<td>Biology</td>
<td>Peking University</td>
<td>2007</td>
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<tr>
<td>Norton, Jerry D</td>
<td>Lab Instructor</td>
<td>Biology</td>
<td>University of Texas</td>
<td>1994</td>
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<tr>
<td>Paredes-Sabja, Daniel</td>
<td>Associate Professor</td>
<td>Biology</td>
<td>Oregon State University</td>
<td>2009</td>
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<tr>
<td>Pepper, Alan E</td>
<td>Professor</td>
<td>Biology</td>
<td>University of California at Davis</td>
<td>1990</td>
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<tr>
<td>Pilling, Darrell</td>
<td>Research Assistant Professor</td>
<td>Biology</td>
<td>University of Birmingham</td>
<td>1995</td>
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<tr>
<td>Qin, Hongmin</td>
<td>Associate Professor</td>
<td>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</td>
<td>Biology</td>
<td>Texas A&amp;M University</td>
<td>2002</td>
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<tr>
<td>Riley, Bruce B</td>
<td>Professor</td>
<td>Biology</td>
<td>University of Wisconsin, Madison</td>
<td>1990</td>
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<tr>
<td>Rosenthal, Gil G</td>
<td>Adjunct Professor</td>
<td>Biology</td>
<td>The University of Texas at Austin</td>
<td>2000</td>
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<tr>
<td>Roy Sarkar, Tapasree</td>
<td>Assistant Professor</td>
<td>Biology</td>
<td>Purdue University</td>
<td>2008</td>
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<tr>
<td>Ryan, Kathryn J</td>
<td>Instructional Associate Professor</td>
<td>Biology</td>
<td>Baylor College of Medicine</td>
<td>1998</td>
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<tr>
<td>Sachs, Matthew S</td>
<td>Professor</td>
<td>Biology</td>
<td>Massachusetts Institute of Technology</td>
<td>1986</td>
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<tr>
<td>Scott, Timothy P</td>
<td>Professor</td>
<td>Biology</td>
<td>Texas A&amp;M University</td>
<td>1996</td>
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<tr>
<td>Smith, James L</td>
<td>Professor</td>
<td>Biology</td>
<td>University of Wisconsin, Madison</td>
<td>1989</td>
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<td>Smotherman, Michael S</td>
<td>Professor</td>
<td>Biology</td>
<td>University of Florida</td>
<td>2002</td>
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<td>Sorg, Joseph A</td>
<td>Professor</td>
<td>Biology</td>
<td>University of California at Los Angeles</td>
<td>1998</td>
</tr>
<tr>
<td>Siegele, Deborah A</td>
<td>Associate Professor</td>
<td>Biology</td>
<td>University of Wisconsin, Madison</td>
<td>1989</td>
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</tbody>
</table>
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 Associate 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, Instructional Assistant Professor
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/)
- Master of Science in Microbiology (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/)
- Doctor of Philosophy in Microbiology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/arts-and-sciences/biology/microbiology-phd/)