DEPARTMENT OF BIOLOGY

http://www.bio.tamu.edu

Head: T. McKnight

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 those of faculty in the Colleges of 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.

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

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

Epps, Sharon V, Lab Instructor
Biology
MS, Texas A&M University, 2013
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

Gomer, Richard H, University Distinguished Professor  
Biology  
PHD, California Institute of Technology, 1983

Griffing, Lawrence R, Associate Professor  
Biology  
PHD, Stanford University, 1981

Hardin, Paul E, Distinguished Professor  
Biology  
PHD, Indiana University, 1987

Hawkins, Angela K, Senior Lecturer  
Biology  
PHD, Texas A&M University, 2018

Janes, Donna, Senior Lecturer  
Biology  
PHD, University of Illinois, 2004

Leboeuf, Brigitte L, Senior Lecturer  
Biology  
PHD, Texas A&M University, 2009

Lockless, Steve W, Associate Professor  
Biology  
PHD, University of Texas at Dallas, 2002

Mackenzie, Duncan S, Associate Professor  
Biology  
PHD, University of California at Berkeley, 1980

McCreedy, Dylan, Assistant Professor  
Biology  
PHD, Washington University, St. Louis, 2013

McKnight, Thomas D, Professor  
Biology  
PHD, University of Georgia, 1983

Menet, Jerome, Assistant Professor  
Biology  
PHD, Louis Pasteur University, 2003

Merlin, Christine, Associate Professor  
Biology  
PHD, University Pierre and Marie Curie, 2006

Mitchell, Angela, Assistant Professor  
Biology  
PHD, University of North Carolina at Chapel Hill, 2013

Moyes, Rita J, Instructional Associate Professor  
Biology  
PHD, Texas A&M University, 1992

Nan, Beiyan, Associate Professor  
Biology  
PHD, Peking University, 2007

Norton, Jerry D, Lab Instructor  
Biology  
PHD, University of Texas, 1994

Paredes-Sabja, Daniel, Assistant Professor  
Biology  
PHD, Oregon State University, 2009

Pepper, Alan E, Professor  
Biology  
PHD, University of California at Davis, 1990

Pilling, Darrell, Research Assistant Professor  
Biology  
PHD, University of Birmingham, 1995

Qin, Hongmin, Associate Professor  
Biology  
PHD, Institute of Microbiology, Chinese Academy of Sciences, 1999

Rao, Asha, Instructional Associate Professor  
Biology  
PHD, Texas A&M University, 2002

Riley, Bruce B, Professor  
Biology  
PHD, University of Wisconsin, Madison, 1990

Rosenthal, Gil G, Professor  
Biology  
PHD, The University of Texas at Austin, 2000

Roy Sarkar, Tapasree, Research Assistant Professor  
Biology  
PHD, Purdue University, 2008

Ryan, Kathryn J, Instructional Associate Professor  
Biology  
PHD, Baylor College of Medicine, 1998

Sachs, Matthew S, Professor  
Biology  
PHD, Massachusetts Institute of Technology, 1986

Scott, Timothy P, Professor  
Biology  
PHD, Texas A&M University, 1996

Siegele, Deborah A, Associate Professor  
Biology  
PHD, University of Wisconsin, Madison, 1989
Smith, James L, Professor  
Biology  
PHD, University of Florida, 2002  

Smotherman, 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/science/biology/ms/)  
- Master of Science in Microbiology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/science/biology/microbiology-ms/)  

**Doctoral**  
- Doctor of Philosophy in Biology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/science/biology/phd/)  
- Doctor of Philosophy in Microbiology (http://catalog.tamu.edu/graduate/colleges-schools-interdisciplinary/science/biology/microbiology-phd/)