

# DEPARTMENT OF BIOLOGY

## Leadership

Laurie Shornick, Ph.D.

*Department Chair*

Gerardo Camilo, Ph.D.

*Associate Chair*

Lindzy Dodson, Ph.D.

*Undergraduate Program Coordinator*

Rob Wood, Ph.D.

*Graduate Program Coordinator*

Julie Thole, Ph.D.

*Undergraduate Research Coordinator*

## Overview

The Department of Biology at Saint Louis University explores dynamic science with the aim of gaining a better understanding of the processes of living organisms.

Biology is the scientific study of living organisms and its study is central to understanding the world around us. Biologists continue to make critical advances in our understanding of human and global health and welfare. The Department of Biology prepares students in the principles, concepts and methods of modern biology, and develops analytical skills necessary for advanced study in a broad range of scientific and non-science disciplines.

The Department of Biology operates the Reis Biological Field Station for research and teaching, providing unique opportunities for students to explore ecology, environmental science and conservation biology. Students can find additional opportunities for research and hands-on learning through internships at locations throughout St. Louis, including the Saint Louis Zoo, the Missouri Botanical Garden and the Danforth Plant Science Center.

## Programs

### Undergraduate

- Bioinformatics and Computational Biology, B.A. to M.S. Accelerated Program (<https://catalog.slu.edu/colleges-schools/science-engineering/computer-science/bioinformatics-computational-biology-abm/>)
- Biology, B.A. (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-ba/>)
- Biology, B.A. to Public Health, M.P.H. Accelerated Program (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-ba-mph-accelerated/>)
- Biology, B.S. (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-bs/>)
- Biology, B.S. to M.A. in Chemical Biology Accelerated Program (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-chemical-biology-abm/>)
- Biology, B.S. to Pharmacy, Pharm.D. Accelerated Program (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-accelerated-pharmd/>)
- Biology, B.S. to Public Health, M.P.H. Accelerated Program (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-bs-mph-accelerated/>)

- Biology, Minor (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-minor/>)
- Neuroscience, B.S. (<https://catalog.slu.edu/colleges-schools/arts-sciences/interdisciplinary/neuroscience-bs/>)

## Graduate

- Bioinformatics and Computational Biology, M.S. (<https://catalog.slu.edu/colleges-schools/science-engineering/computer-science/bioinformatics-computational-biology-ms/>)
- Biology, M.A. (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-ma/>)
- Biology, M.S. (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-ms/>)
- Biology, Ph.D. (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-phd/>)

## Faculty

### Additional Faculty Information (<https://www.slu.edu/arts-and-sciences/biology/faculty/>)

### Full-time Faculty

Elizabeth Angeli, M.S.  
 Alaina T. Baker-Nigh, Ph.D.  
 Stephen Blake, Ph.D.  
 Elena Bray Speth, Ph.D.  
 Gerardo R. Camilo, Ph.D.  
 Lindzy F. Dodson, Ph.D.  
 Brian P. Downes, Ph.D.  
 Benjamin England, Ed.D.  
 Jonathan S. Fisher, Ph.D.  
 Kasey D. Fowler-Finn, Ph.D.  
 Eva B. Gonzales, Ph.D.  
 Blythe E. Janowiak, Ph.D.  
 Jack Kennell, Ph.D.  
 Jason Knouft, Ph.D.  
 Zhenguo Lin, Ph.D.  
 Richard Mayden, Ph.D.  
 Ashley Milam, Ph.D.  
 Allison J. Miller, Ph.D.  
 Sofia Origant, Ph.D.  
 Judith M. Ogilvie, Ph.D.  
 Laurie Russell, Ph.D.  
 Laurie L. Shornick, Ph.D.  
 Susan A. Spencer, Ph.D.  
 Julie M. Thole, Ph.D.  
 Thomas J. Valone, Ph.D.  
 Yuqi Wang, Ph.D.  
 Daniel E. Warren, Ph.D.  
 Robert M. Wood, Ph.D.  
 Wenyan Xiao, Ph.D.  
 Dapeng Zhang, Ph.D.  
 Fenglian Xu, Ph.D.

## Laboratory Staff

Anita Dedic, B.S.  
 Timothy E. Dooley, M.A., D.O.

Emma Hundermark, M.S.

## **Affiliated Faculty**

### **Missouri Botanical Garden**

Thomas B. Croat, Ph.D.

Peter Goldbatt, Ph.D.

Peter Raven, Ph.D.

Mick Richardson, Ph.D.

### **St. Louis Zoological Park**

Joan E. Bauman, Ph.D.

### **Sigma-Aldrich Corp.**

Kevin Kayser, Ph.D.

### **Department of Biochemistry and Molecular Biology**

Dorota Skowrya, Ph.D.

### **Department of Obstetrics, Gynecology and Women's Health**

Gerald S. Zavorsky, Ph.D.

### **United States Department of Agriculture, ARS**

Yong-quiang Charles An, Ph.D.