

MICROBIOLOGY

FACULTY POINTS OF PRIDE

■ Derek R. Lovley, Distinguished Professor of Microbiology, was named a fellow of the American Association for the Advance of Science.

■ Kristen DeAngelis received a three-year, \$500,000 Department of Energy grant to further her study of the impact of a warmer climate on microbes and their production of greenhouse gases.

■ Stephen Rich collaborated with colleagues from UMass Medical School and Worcester Polytechnic Institute to design a new whole-plant based strategy for treating malaria, with findings reported in the journal *PLOS ONE*.

■ Steve Sandler received a four-year National Institutes of Health grant for his research project "Structure and Function of the Bacterial Primosome."

EDUCATION

■ A fifth-year master's degree option is available to microbiology majors.

■ In Fall 2013 launched the Applied Molecular Biotechnology Program, which placed 100 percent of its first class of eight students in paid internships or laboratory positions at biotech firms.

■ Comprehensive graduate program

prepares students for successful careers in academia, industry, and government.

■ PhD students have been awarded national research fellowships from organizations including the American Society for Microbiology, the Ford Foundation, and NASA.

DEGREES

■ BA/BS

■ Five-year BS/MS

■ MS/One-year MS in applied molecular biotechnology

■ PhD

■ Biotechnology Certificate Program

LEADERSHIP & OUTREACH

■ The Laboratory of Medical Zoology provides tick testing services to individuals, counties, and states from across the country and internationally.

■ Faculty members serve on grant review panels, review publications for leading scientific journals, and are members of professional organizations.

■ The department participates in the Northeast Alliance for Graduate Education and the Professoriate (NEAGAP), an NSF-funded project to promote graduate education to under-represented groups.

BY THE NUMBERS FY15

Tenure-track faculty	16
Lecturers	5
Postdoctoral fellows	6
Undergraduate majors	193
Graduate students	40
Research awards	\$2.26M

RESEARCH AREAS

- Bio-fuels and bio-remediation
- Environmental microbiology
- Genetics
- Genomics and systems biology
- Immunology
- Medical microbiology
- Microbial ecology
- Microbial physiology
- Molecular and cellular biology
- Parasitology
- Pathogenic bacteriology

STUDENT HONORS

■ Samantha Giffen '16, who also participated in a National Science Foundation program in the Limpopo Province of South Africa this past summer, named Goldwater Scholar.

■ Luiza Korobkova '15 awarded Boston Area Chapter of the International Society for Pharmaceutical Engineering's Joel Goldenberg Memorial Scholarship.

■ PhD student Gina Chaput '19G won UMass Graduate School's Edith Robinson Scholarship.

■ Lucy Stewart '17G won Microbiology's Curt Thorne Carry On Award.

■ PhD candidate Lucy Stewart '17G won Outstanding Student Paper Award in Biogeosciences at the American Geophysical Union fall meeting.