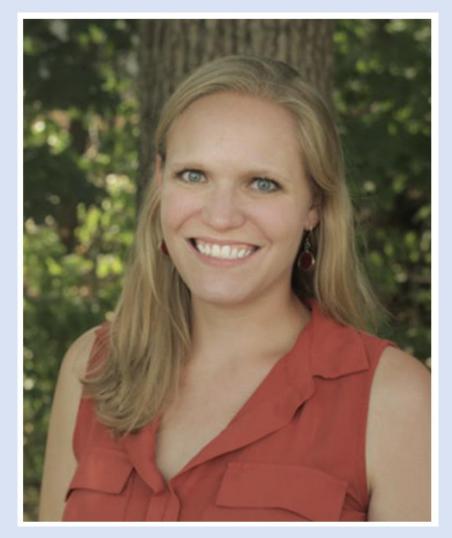
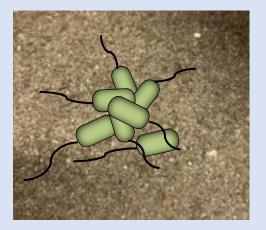
Dr. Emily Nowicki Associate Professor PhD in Microbiology and Molecular Genetics



Courses Taught:

BIOL 1065: Introduction to Molecules and Cells
BIOL 1065L: Introduction to Molecules and Cells
Laboratory
BIOL 2040: Microbiology for Science Majors
BIOL 2140: Microbiology for Science Majors Laboratory
BIOL 3050: Immunology
BIOL 4000: Research Communication (& Honors Thesis)
BIOL 4010: Independent Research (& Honors)



Question 1: Which genes are required for *P. putida* fitness in soil?

Question 3: Which genes are important for the environmental bacterium *P. putida*'s tolerance to antibiotics and antimicrobials?

Which genes and community members are important for bacterial survival in soil?

Dr. Nowicki's

Research Program:

Our overarching

research question:



Question 2:

How does the antibiotic susceptibility of *P. putida* in soil extract medium compare to its susceptibility when grown in standard laboratory medium?





Question 4:

How does the bacterial community composition change during mouse decomposition in soil? (with Dr. Sawyer)

Image credit: Lisa Williams

Research from Dr. Nowicki's lab has been presented at:



American Society for Microbiology Conference for Undergraduate Educators





Northeastern Microbiologists: Physiology, Ecology & Taxonomy New England Science Symposium, hosted by Harvard Medical School's Office for DICP

Research from Dr. Nowicki's lab has been published in *Fine Focus*, 2022:



Antibacterial Effects of Bitter Melon Extract in Combination With Commonly Prescribed Antibiotics

Olivia Mae Ambrose, Tiffany Thanh Mai Nguyen, and Emily M. Nowicki

Department of Natural Sciences and Mathematics, Curry College,

Milton, MA 02186