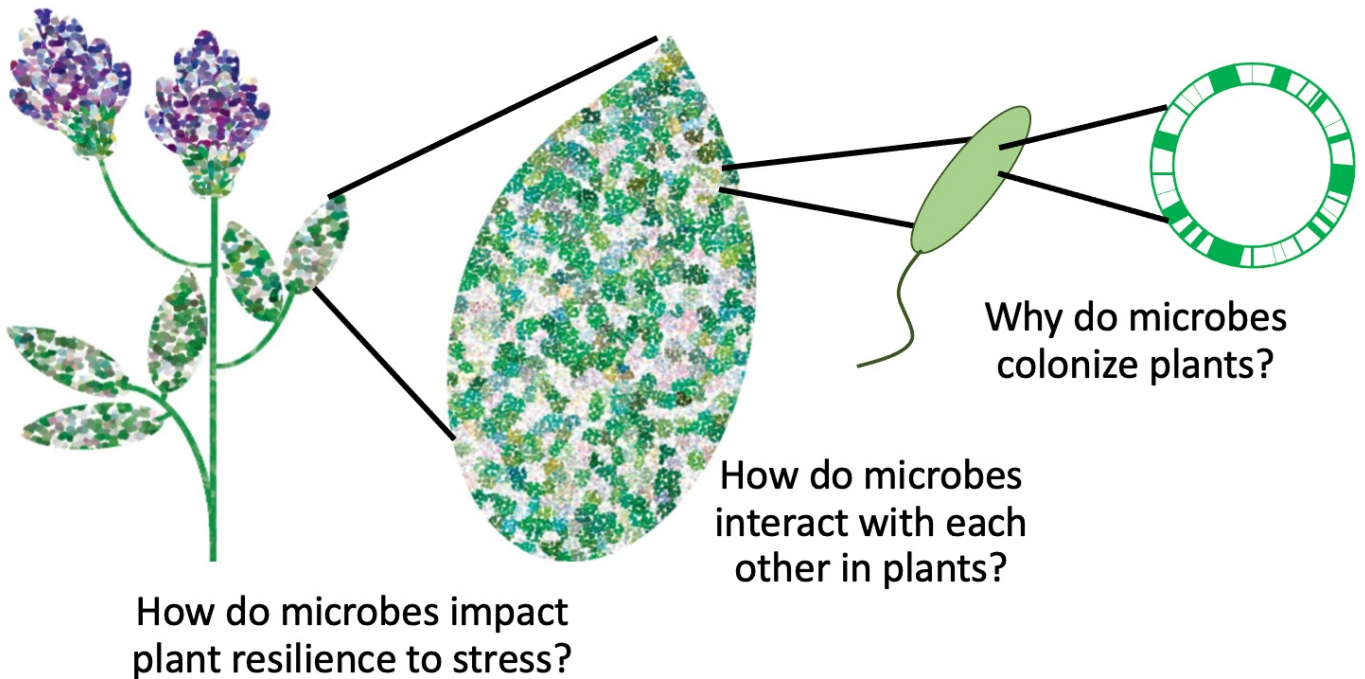


# Plant-Microbe Interactions

## CSS 460, 3 Credit Hours

MWF 11:30am – 12:30pm

Principles and current problems of plant recognition and response to microorganisms from individual pathogens and mutualists to whole communities. Evaluation of current research and methods used to examine the role of microbial communities in plant health.



### Course Objectives:

- Describe the general actions required by an immune system to recognize and respond to different types of microorganisms.
- Compare and contrast mechanisms used by pathogens and mutualists to maintain growth in plants.
- Explore how microbes interact with each other and their environment in plant-associated microbiomes.

### Learning Outcomes:

- Understand how current experimental methods used in the field of plant-microbe interactions.
- Apply current knowledge of plants and microbes to formulate testable hypotheses.
- Evaluate data and create conclusions using data-based evidence.

For questions, please contact Dr. Sarah Lebeis, [lebeissa@msu.edu](mailto:lebeissa@msu.edu)