

PLANT PATHOLOGY 250 SEMINAR SERIES



Speaker: Dr. Posy Busby, Assistant Professor, Department of Botany and Plant Pathology, Oregon State University

Seminar Title: “Differentiating host genetic from environmental drivers of plant microbiome composition and function”

Date: Thursday October 22nd, 2020

Time: 12:00-12:50 pm

Seminar Presented Via Zoom:

<https://ucr.zoom.us/j/91605321917?pwd=UFBkRUVMbXVBQWN6c2lwSXdQc2I4UT09>

Meeting ID: 916 0532 1917 Passcode: PLPA250

Seminar Description: My seminar will address the processes controlling plant microbiome composition and function. I will discuss ongoing research in my lab, primarily in black cottonwood, showing that: 1) commonly occurring leaf endophytes modify plant disease severity, and in some cases their effects can be predicted by endophyte phylogeny, 2) plant genotypic variation impacts microbiome composition, but these effects are modest compared to broad biogeographic patterns and fine-scale patterns, and 3) plant genotypic variation modulates the impact of endophyte immigration history on both microbiome composition and function. These results contribute to our growing understanding of the plant microbiome, and inform efforts to manage the microbiome for enhanced disease resistance in agriculture.

Faculty Host: Dr. Sydney Glassman; sydney.glassman@ucr.edu