

Plant Microbiology Seminar



SEFS 522

Seminar Schedule

- Jan 8: (no class)
- Jan 15: “N fixation in non-legumes- Implications for Agriculture and Bioenergy” - Prof. Doty
- Jan 22: Fungal endophytes for pathogen resistance- Dr. Posy Busby (U. Idaho)
- Jan 29: Phytophthora- Prof. Marianne Elliot (WSU)
- Feb 5: Dr. Brook Peterson
- Feb 12: "Orphan LuxR Regulators in Plant-Associated Proteobacteria"- Dr. Amy Schaefer
- Feb 19: Non-legume invasive N-fixing grass & the role of the microbiome in invasive plant trait expression- Dr. Marnie Rout (University of North Texas Health Science Center)
- Feb 26: Mycorrhizal diversity in PNW forests- Prof. Erica Cline (UW-Tacoma)
- Mar 5: “Fungal endophytes for plant stress tolerance”- Dr. Rodriguez
- Mar 12: Endophyte-assisted phytoremediation- Dr. Zareen Khan

Grading (C/NC):

Short paper on a plant-microbe topic

Participation in the seminars

- Attend at least 7 out of the 9 seminars
- Sign-in sheet at each seminar

Short Paper

- On any **plant-microbe interaction** topic
(discuss with me first to verify novelty)
- E-mail to me mid-quarter
- 1-2 pages, single-spaced
- I'll make them available to the class (on Catalyst ShareSpaces)

Suggested Topics for Student Papers

- Your own research if it is on plant microbes
- Nitrogen fixation
 - Rhizobium and legumes
 - Frankia and some woody plants
- Other beneficial symbioses
 - Endophytes of plants (other than poplar and willow)
 - Cyanobacteria-plant symbiosis
- Bioenergy-related
 - Fungi that degrade lignin
 - Novel microbial strains from plants that make biofuel
- Plant Pathogens
- Plant microbes that produce helpful chemicals (ie. Taxol, antibiotics)