

Graduate Module

Title: Molecular Techniques in Soil Microbiology

Instructor: Dr. Svetlana Yurgel
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Timing: Winter (Feb-March) 2016

Description:

Focus is on laboratory techniques for molecular methods in soil microbiology, specifically next-generation sequencing for assessing arbuscular mycorrhizal fungi community assemblages. The course will review newest methods, including practical understanding of the techniques, as well as the strengths and weaknesses of various methods. Lab work will cover methods for root and soil sample preparation, DNA extraction and isolation, and preparation of PCR-primers.

Format: Literature review and lab component; 3 hours per week.

Method of Evaluation:

- 1) Literature Review 50%
- 2) Lab Work 50%