

2024 NATGA Microscopy Workshop Agenda

Sunday, October 27, 2024

| | Time | Topics |
|----------------|---|--|
| 9:00 | Introduction & Learning Objectives | How to use a stereoscope and compound light microscope How to differentiate Tuber spp. from ECM and NC How to use FTA cards for sampling |
| 9:15 to 10:00 | Stereoscope demonstration | Anatomy of the microscopes Microscope functions General equipment care Activity: Participants view demo objects with microscopes |
| 10:00 to 10:30 | Root sample preparation | How to prep root samples – reference the video guide |
| 10:30 to 12:00 | Morphologies of Tuber, ECM, & NC | Identify differences among Tuber spp., ECM, and NC based on color, shape, and emanating structures Activity: Stereoscope stations for each species of Tuber, ectomycorrhizal fungi (ECM), and non-colonized roots (NC) |
| 12:00 to 1:00 | Lunch (provided) and informal Q & A | |
| 1:00 to 1:30 | FTA Card Demo | How to use FTA cards for root testing |
| 1:30 to 3:00 | Identification features of Tuber species | How to mount root rips on a slide Identify differences among <i>Tuber</i> species Activity: Participants view prepared slides of <i>Tuber</i> species Participants make their own slides |
| 3:00 to 3:30 | Survey & Final Discussion | Participant feedback survey |
| 3:30 to 4:30 | Freebie hour (optional) | Participants are welcome to use the facilities for 1 hour to clean their own roots, use microscopes, etc. |