

Presentations

Dr. Monica L. Cooper

ANR Advisor (Viticulture)

UC Cooperative Extension, Napa County

8:30-9:30 am

- Introduction to Grapevine red blotch disease
 - Using LAMP for GRBV detection
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Nathan Tanner

Associate Director of Research

New England Biolabs

9:30-10:30 am

- "Colorimetric LAMP for Simple Molecular Diagnostics"
- Isothermal amplification, LAMP and colorimetric detection, applying LAMP for real-world samples and applications
- Enzymes, how the reaction works, how to design and use LAMP assays, molecular diagnostics and colorimetric LAMP

10:30-10:45 am BREAK

10:45 – 12:15 pm: Station Rotations

C. Demonstration (30 min)

- a. How to collect representative grapevine samples (petiole, cane, trunk cambium) for viral diagnostic assays (LAMP, PCR)
 - b. Step-by-step instruction for running the LAMP assay (video)
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- a. Group 1 = LAMP instructional video, with questions, commentary, and examples (Hannah)
 - b. Group 2 = In-field: collecting representative grapevine samples for diagnostic assays (Monica)
 - c. Group 3 = NEB material needs and sourcing of all materials required (probably any PPE too)

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