

Demonstration workshop for molecular diagnostics

ON-SITE DETECTION OF PATHOGENS FROM SOIL



Date: January 24, 2018

Time: 4:00 PM – 5:30 PM

Place: Board Room in Three Rivers Convention Center



University
of Idaho



Workshop called hosted by:

Joseph DeShields (Washington State University)

Rachel Bomberger (Washington State University)

James Woodhall (University of Idaho)

Matthew Blua (Washington State Potato Commission)

Kiwamu Tanaka (Washington State University)

Agenda

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| 4:00pm – 4:10pm | Introduction: On-site diagnostic methods (by <i>Tanaka</i>) |
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| 4:10pm – 4:30pm | Current status of plant disease clinic services <ol style="list-style-type: none">1. Conventional diagnostic testing for soilborne diseases (by <i>Bomberger</i>: WSU diagnostic lab)2. Molecular diagnostic testing for soilborne diseases (by <i>Woodhall</i>: UI-Parma Plant Clinic) |
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| 4:30pm – 5:20pm | Presentation and demonstration for on-site molecular detection from soil samples (by <i>DeShields</i> and <i>Woodhall</i>) <ol style="list-style-type: none">1. Magnetic bead-based DNA extraction and PCR<ul style="list-style-type: none">• Sample preparation• PCR Preparation• Data analysis2. PEG-based DNA extraction and LAMP<ul style="list-style-type: none">• Sample Preparation• LAMP preparation• Data Analysis |
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| 5:20pm – 5:30pm | Wrap-up discussion and Q&A (by <i>Blua</i>) |
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Contact: Kiwamu Tanaka kiwamu.tanaka@wsu.edu