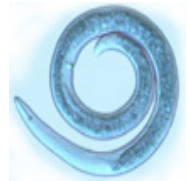


The 63rd Annual Conference on Soilborne Plant Pathogens and The 49th California Nematology Workshop



March 28-30, 2017

University of California, Davis
Storer and Hutchison Halls
<http://soilfungus.wsu.edu>

PROGRAM

Tuesday March 28, 2017

- 8:00 am-3:30 pm **Field trip.** Stops include **Foundation Plant Services** (<http://fps.ucdavis.edu/index.cfm>), **Bayer CropScience- Biologics**, and the **California Department of Food and Agriculture Plant Pest Diagnostic Center** in Sacramento. Lunch included. Separate registration ticket required (Now sold out). Meet behind Hutchison Hall at 8:00 AM.
- 4:00-5:30 pm **UC DANR Nematology Workgroup** – Kosuge Conference Room in 357 Hutchison Hall
- 5:00-6:00 pm **Registration for Conference on Soilborne Plant Pathogens opens** – Student Community Center
- 6:00-8:30 pm **Social and dinner**– Student Community Center

Wednesday March 29, 2017

- 8:00-8:30 am **Registration and Continental Breakfast** – Storer Hall Lobby
- 8:30-10:00 am **Opening Session: Deploying Host Resistance for Soilborne Disease Control** – 1322 Storer Hall
- Welcome:** Dave Rizzo, Chair of the Department of Plant Pathology
- Steve Knapp and Glenn Cole, UC Davis. The Ultimate Quest: Developing Strawberries with Soilborne Disease Resistance.
- Richard Michelmore and Maria-Jose Truco, UC Davis. Genetic Approaches to Control Root Diseases of Lettuce.
- 10:00-10:30 am **Coffee break**

10:30-noon

Session I. New developments in the realm of soilborne pathogens and pests.

Session Chair: Alex Putman, UC Riverside: alexander.putman@ucr.edu (15 minute talks below)

Transgenic resistance for managing soil-borne bacterial wilt disease of tomato in open field conditions. Sanju Kunwar, University of Florida. sanju.kunwar@ufl.edu

Fusarium oxysporum f. sp. *mori*, a new and polyphyletic forma specialis causing Fusarium wilt of blackberry. Ana M. Pastrana Leon, UC Davis. ampastranaleon@ucdavis.edu

Disease management challenges in the establishment of stevia as a new crop in the southeast. Alyssa Koehler, NC State University. amkoehle@ncsu.edu

Validation and refinement of a predictive model for *Sclerotinia sclerotiorum* apothecial development in soybean fields. Jaime Willbur, University of Wisconsin Madison. jfwillbur@gmail.com

New findings of *Rhizoctonia* anastomosis groups, symptoms and epidemiology in horticultural crops. James Woodhall, University of Idaho. jwoodhall@uidaho.edu

Deciphering modes of action: Temporal soil physiochemical, metabolomics and microbiome changes in anaerobic soil disinfestation. Shashika Hewavitharana¹, R. Leisso², D. Rudell², Mark Mazzola², ¹Washington State University and ²USDA-ARS. s.hewavitharana@wsu.edu

Noon-1:30 pm

Lunch – Student Community Center

1:30-3:00 pm

Session II. New developments in the realm of soilborne pathogens and pests.

Session Chair: Andreas Westphal, UC Riverside, Parlier. andreas.westphal@ucr.edu (15 minute talks below)

Nematode host status of *Crotalaria juncea*, a potential orchard cover crop. Mark Castanon and Andreas Westphal, UC Riverside. andreas.westphal@ucr.edu

Root-knot nematodes on Pitahaya. Ying-Yu Chen¹, Haiyan Wu², Angelo Loffredo¹, Ramiro Lobo³, and J. Ole Becker¹. ¹UC Riverside, ²Guangxi University, Nanning, and ³UCCE San Diego County. yingyuc@ucr.edu

Soybean sudden death syndrome: variation in disease intensity, pathogen density and yield at different spatial scales. Muhammad Raza. Iowa State University. mraza@iastate.edu

Using trap crops to manage plant parasitic nematodes on vegetable crops. Becky Westerdahl, UC Davis. bbwesterdahl@ucdavis.edu

Creating cyst nematode suppressive soils using a cropping decision model. James Borneman and J. Ole Becker, UC Riverside. james.borneman@ucr.edu

Mitigation of nematode-caused crop damage with microbial metabolites and natural antagonists. Angelo Loffredo, Jennifer Smith Becker, and J. Ole Becker, UC Riverside. angelof@ucr.edu

3:00-3:30 pm

Coffee break

3:30-5:30 pm

Session III. Chemical, Biological, and cultural control of soilborne diseases.

Session Chair: Kelly Ivors, California Polytechnic State University. kivors@calpoly.edu (15 minute talks below)

Fusarium root rot controlled by *Trichoderma harzianum* on olive trees. Maroua Ben Amira, Blaise Pascal University (France). marouabenamira@gmail.com

Management of root rot diseases of wheat caused by *Fusarium graminearum* and *Rhizoctonia solani* using resistance and biological control agents. Tanveer Hussain and Anthony Adesemoye, University of Nebraska. tanveerajk@gmail.com

Synthetic elicitor activates defense response in Arabidopsis and protects cowpea plants against *Fusarium oxysporum*. Mercedes Schroeder, UC Riverside. mschr001@ucr.edu

Dominus biofumigant for control of soil diseases, nematodes and weeds. George Stallings. Isagro. gstallings@isagro-usa.com

California fresh market carrot production without fumigant nematicides? J. Ole Becker¹, Antoon Ploeg¹, and Joe Nunez². ¹UC Riverside; ²UCCE Kern County. obecker@ucr.edu

New chemistry for nematode management. Saad Hafez, University of Idaho. shafez@uidaho.edu

Nematode management in sweetpotato. Antoon Ploeg, UC Riverside. antoon.ploeg@ucr.edu

A modified protocol for phenotyping Fusarium wilt disease resistance in cowpea. Arsenio Ndeve et al. UC Riverside. andev002@ucr.edu

Purpureocillium lilacinum: important fungal biologic for integrated control of plant parasitic nematodes. Kristi Sanchez et al. Bayer. kristi.sanchez@bayer.com

Thursday March 30, 2017

7:00-8:00 am

Steering Committee Meeting – Kosuge Conference Room in 357 Hutchison Hall

8:00 – 8:30 am

Continental Breakfast – Storer Hall Lobby

8:30-10:15 am

Session IV. Soilborne Oomycete diseases. Session Chair: Greg Browne, USDA-ARS Davis: gtbrowne@ucdavis.edu (15 minute talks below)

Plasmopara halstedii, a soilborne downy mildew. Ryan Humann, Syngenta.

Ryan.Humann@syngenta.com

Oomycete and fungal root communities associated with Prunus replant disease and its control in conventionally fumigated or anaerobically disinfested soil. Natalia Ott, USDA-ARS, Dept. of Plant Pathology, UC Davis. njblackburn@ucdavis.edu

Phytophthora impacts to ecosystem and landscape processes. Richard Cobb, UC Davis. rccobb@ucdavis.edu

Leaf litter as a source of *Phytophthora* inoculum in streams. Kamyar Aram, UC Davis. kamaram@ucdavis.edu

Characterization of oomycetes in irrigation water using high-throughput sequencing of nucleic acid. Neelam Redekar, Oregon State University. neelam.redekar@oregonstate.edu

Using LAMP and qPCR assays to investigate the epidemiology of *Pythium ultimum* in potatoes. Phillip Wharton, University of Idaho. pwharton@uidaho.edu

Influence of *Pythium* spp., unknown as pathogenic to rice, on the emergence of rice seedlings in flooded fields. Takeshi Toda, Akita Prefectural University. ttoda@akita-pu.ac.jp

10:15-10:40 am **Coffee break**

10:40-12:30 pm **Session V. Hot Topic: Showcasing soilborne diseases of grape.** Session Chair: Doug Gubler, UC Davis

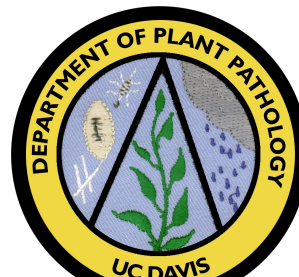
Michael McKenry, UC Riverside Emeritus. Nematode management in grape. mmckenry@aol.com

Andrew Walker, UC Davis. Development of grape rootstocks for resistance to soilborne diseases. awalker@ucdavis.edu

Doug Gubler, UC Riverside emeritus. Effects of new grapevine rootstocks on incidence of soilborne diseases. wdgubler@ucdavis.edu

The Conference on Soilborne Plant Pathogens would like to thank our corporate sponsors for their support. Their contributions went to cover student scholarships, lunches, and food for the social.

UC Davis Department of Entomology and Nematology





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