
THE LODI WINEGRAPE COMMISSION brings you a

MEALYBUG & VIRUS OUTREACH MEETING

ABSOLUTELY NOT just “another mealybug and virus talk.”

Robert Cabral Ag Center, 2101 E. Earhart Ave., Stockton, CA 95206

April 4th, 2018

HIGHLIGHTS OF TODAY. Grapevine viruses are expensive, complicated, & confusing, but HELP is on the way. Learn REAL-WORLD management tips based on months of discussions in LODI Mealybug Biocontrol & Grapevine Virus Research Focus Groups. At this meeting, you can also: take home a FREE mealybug trap, take home a NURSERY ORDERING 101: VIRUSES draft booklet to review, and sign up for future virus outreach programs. It's imperative that everyone in our industry – growers, PCAs, nurseries, laboratories, wineries, lawmakers, & more – START THE CONVERSATION about the virus situation so that we can continue to produce profitable, quality winegrapes in California.

AGENDA

- 9:00 – 9:30am** **CONTINUING EDUCATION CREDITS (DPR & CCA) SIGN-IN.**
3.0 hours of DPR CE (other) and 2.5 hours of CCA CE (IPM) available
- 9:30 – 9:40am** **WELCOME & INTRODUCTIONS.**
Stephanie Bolton, PhD, Lodi Winegrape Commission
- 9:40 – 9:55am** **CAWG VIRUS BEST MANAGEMENT project update.**
Karen Suslow, project lead
- 9:55 – 10:10am** **MEALYBUG & VIRUS TRUE CONFESSIONS.**
...aka the local ECONOMICS of the challenge
- 10:10 – 10:40am** **VINE MEALYBUGS.**
management, biocontrol, trapping, as leafroll virus vectors
- 10:40 – 10:50am** **ANTS.**
why you need to pay attention to them, baiting experiments
- 10:50 – 11:15am** **LEAFROLL VIRUS.**
the basics, management, rogueing, replanting
- 11:15 – 11:30am** **RED BLOTCH VIRUS.**
the basics, management, rogueing, replanting
- 11:30 – 11:45am** **NURSERY ORDERING 101: viruses.**
how to order CDFA-certified, virus-tested planting material
- 11:45am – 12:00pm** **VIRUS TESTING.**
why test, how to test for grapevine viruses efficiently
- 12:00 – 12:30pm** **BREAK OUT SESSIONS with the pros:**
- Mealybug biocontrol insects
 - Pheromone mating disruption for vine mealybugs
 - Virus testing laboratories
 - Nursery ordering
 - CDFA Clean Grapevine Program/FPS
- 12:30 – 1:15pm** **CATERED LUNCH & DESSERT**
- 1:00 – 1:30pm** **MEALYBUG TRAP & NURSERY ORDERING BOOKLET distribution**

OUR CALIFORNIA GRAPEVINE VIRUS STRATEGY.



Decrease vector populations.



Lower virus inoculum.

Why? The future of our industry depends on what we do today.



We can't beat these viruses alone.



Growers

Education, vector management, and lowering the amount of virus inoculum on each farm.



Nurseries

Providing growers with reliably clean rootstock and scion material.



FPS

Providing nurseries with reliably clean propagation material.



CDFA

Administering an effective Grapevine Certification & Registration Program.



Academia

Scientific research to validate & improve management strategies and new technologies for virus detection & management.



Virus Testing Labs

Providing reliably accurate, efficient, and economical virus testing for plant material.



Wineries

Education and teamwork with growers to beat the virus challenge.



Extension

Virus education outreach and connection to resources needed.



IPM Companies

Vector control that keeps the natural enemies of vine mealybug doing their job.



PCAs/Viticulturists

Education, vector management, virus detection and management.



County Ag Commissioners

Education, vector management, regional organization and leadership.



Regional Associations

Education, vector management, regional organization and leadership.

LODI WINEGRAPE COMMISSION, *est.* 1991

MEALYBUG & VIRUS OUTREACH MEETING • April 4th, 2018 • lodigrowers.com

Please note: Thanks to everyone who contributed to today's meeting! The information presented today is intended as educational only. Each person will ultimately manage for mealybugs & viruses on an individual basis according to what makes economic sense for them personally.

FURTHER RESOURCES

VIRUS TESTING LABORATORIES

Agri-Analysis LLC

950 W Chiles Rd, Davis CA 95618 (sample delivery)

PO Box 285, Davis CA 95616 (mailing address)

Dr. Alan Wei* | info@agri-analysis.com

800.506.9852 | agri-analysis.com

AL & L Crop Solutions

7769 N Meridian Rd, Vacaville CA 95688

Dr. Anna-Liisa Fabritius* | info@allcropsolutions.com

530.387.3270 | allcropsolutions.com

California Seed and Plant

3556 Sankey Rd, Pleasant Grove, CA 95668

Dr. Parm Randhawa* | parm.randhawa@csplabs.com

Sukhi Pannu* | sukhi.pannu@csplabs.com

916.655.1581 | csplabs.com

eurofins US | EBDI Laboratories

7240 Holsclaw Rd, Gilroy CA 95020

Dr. Raquel Salati* | raquelsalati@eurofinsUS.com

408.846.9964 | eurofins.com/biodiagnostics

Foundation Plant Services – Virus Diagnostics*

455 Hopkins Road, Davis CA 95616

530.752.3590 | fps.ucdavis.edu/custommain.cfm

Sunburst Plant Disease Clinic Inc.

677 E Olive Ave, Turlock CA 95380

Dr. Bhanu Donda* | bdonda@sunburstpdcinc.com

Dr. Sam Livingston | slivingston@sunburstpdcinc.com

209.667.4442 | sunburstpdcinc.com

Wonderful Nurseries – Virus Testing Laboratory

449 N Zerker Rd, Shafter, CA 93263

Brad Kroeker* | 661.406.9919

brad.kroeker@wonderful.com | wonderful.com

CDFA Grapevine Registration & Certification Program

1220 N Street, Room 344, Sacramento CA 95814

916.654.0435 | nurseryservices@cdfa.ca.gov

cdfa.ca.gov/plant/pe/nsc/nursery/grapevine.html

VINE MEALYBUG MATING DISRUPTION

Pacific Biocontrol (product in development)

911 Industrial way, Suite A, Lodi CA 95240

Jeannine Lowrimore*

jlowrimore@pacificbiocontrol.com

209.603.9244 | pacificbiocontrol.com

Suterra (also our VMB trap donators! thank you!)

2401 E Orangeburg Ave, #675, Modesto CA 95355

20950 NE Talus Pl, Bend OR 97701

Loraine Lee* | loraine.lee@suterra.com

Sara Goldman* | sara.goldman@suterra.com

209.595.5254 | suterra.com

BENEFICIAL INSECTS

Associates Insectary

PO Box 969, Santa Paula CA 93061

Brett Chandler* | info@associatesinsectary.com

805.933.1301 | associatesinsectary.com

FAR, Inc.

550 Foothills Pkwy, Corona CA 92882

Joe Barcinas | farinc@att.net

951.371.0120 | far-inc.com

USDA Tree Assistance Program (TAP)

USDA San Joaquin Co. Farm Service Agency
(Red Blotch Virus)

7585 S Longe St, Ste. 10, Stockton CA 95206

Jeff Torres* | jeff.torres@ca.usda.gov

209.337.2124 x2 | fsa.usda.gov

Some of the NURSERIES selling CDFA-certified material

(contact CDFA for most current, complete list)

Casa Cristal Nursery

1998 Road 152, Delano, CA 93215

John Moso* | jmoso@casacristal.com

Justin Jackson* | jjackson@casacristal.com

661.792.6468 | casacristal.com

Duarte Nursery, Inc.

1555 Baldwin Rd, Hughson, CA 95326

Tia Russell* | tia@duartenursery.com

209.531.0351 | duartenursery.com

Guillaume Grapevine Nursery

21208 State Route 113, Knights Landing, CA 95645

Cecil Jack* | cecil@guillaumenurseries.com

530.379.5007 | guillaumenurseries.com

NovaVine Grapevine Nursery

6735 Sonoma Hwy, Santa Rosa, CA 95409

Gene Glaeser* | gglaeser@pacbell.net

916.747.2131 | novavine.com

Sunridge Nurseries

441 Vineland Rd, Bakersfield, CA 93307

Julian C. Clymer* | julian@sridge.net

707.974-2642 | sunridgenurseries.com

Wonderful Nurseries LLC

27920 McCombs Ave, Wasco, CA 93280

Nicholas Podsakoff* | 209.456.0697

nicholas.podsakoff@wonderful.com

wonderful.com

University of California

Dr. Maher Al Rwahnih*

Grapevine Virus Testing Expert

Foundation Plant Services Diagnostics & Research Lab

530.574.5463 | malrwahnih@ucdavis.edu

Dr. Kent Daane*

Vine Mealybug Expert

Kearney Agricultural Research & Education Center

559.646.6522 | kdaane@ucanr.edu

Dr. Lucia Varela*

Mealybug & Ant Expert

North Coast IPM Advisor, UCCE

707.565.2621 | lgvarela@ucanr.edu

EDUCATIONAL RESOURCES

Book: *Leafroll 3 Virus and how to manage it*. Edited by Ruby Andrew, Vaughn Bell, Nick Hoskins, Gerhard Pietersen, and Caine Thompson. New Zealand. 2015. (copy available to borrow from the Lodi Winegrape Commission)

Book: *Grapevine Viruses: Molecular Biology, Diagnostics, and Management*. Edited by Baozhong Meng, Giovanni P. Martelli, Deborah A. Golino, and Marc Fuchs. 2017. (copy available to borrow from the Lodi Winegrape Commission)

Institute for Grape and Wine Sciences
South Africa | Leafroll Virus Management
Prof. Gerhard Pietersen*
igws.co.za/content/fact-sheets/leafroll

Leafroll 3 Virus App from New Zealand
Find it on your app store

Lodi Winegrape Commission
2545 W Turner Rd, Lodi CA 95242

Dr. Stephanie Bolton* | stephanie@lodiwine.com
209.367.4727 | lodigrowers.com

UC Cooperative Extension - San Joaquin County
2101 E Earhart Ave, Suite 200, Stockton CA 95206
Paul Verdegaal* | psverdegaal@ucanr.edu
209.953.6119 | cesanjoaquin.ucanr.edu

You can always learn more about viruses and their vectors (like mealybugs!) at our **CD11 LODI PCA NETWORK BREAKFAST MEETINGS**, held on the first Tuesday morning of every month except February from 7:30-9am at Burgundy Hall, Lodi Grape Festival Grounds, 413 E Lockeford St. Everyone is welcome at these meetings!
RSVP to lwwc@lodiwine.com or 209.367.4727.

* **These companies or individuals were somehow involved in today's Mealybug & Virus Outreach Meeting - thank you!!**

Also a **VERY SPECIAL thanks** to the LWC Research, Education, & Communications Committee and their Mealybug Biocontrol & Grapevine Virus Research Focus Groups, Dr. Marc Fuchs and Prof. Gerhard Pietersen for expert advice, Emily Dunlap and Daniel Meyers (Vino Farms) for volunteering to help with sign-in, and Christina Soto (Lodi Winegrape Commission)!