



Oregon State University
**College of Agricultural
Sciences**

Vine to Wine

Oregon Wine Research Institute

December 2017

Welcome to our monthly *Vine to Wine* newsletter! **Oregon Wine Research Institute** faculty and staff work to provide research-based viticulture, enology and wine business information for the advancement of the Oregon wine industry, and this newsletter allows us to extend that information to you along with other news and events. We welcome industry questions, so contact **OWRI team members** with input, feedback or challenges you face in the vineyard, cellar or wine business.



Program Coordinator Update

Mark L. Chien

Color, aroma, flavor, and texture are the key components of all wines that are assessed by scientists and consumers alike, although from very different perspectives. Understanding the chemical nature of wine aroma is an important link in the Vine to Wine research continuum at OWRI, and where Dr. Michael Qian and Dr. Elizabeth Tomasino apply high- tech and super-sensitive analytical equipment to understand wine aroma. In this edition of *Vine to Wine*, Dr. Qian launches a series of articles about the chemistry of the low molecular weight volatile compounds that you associate with particular grape varieties. Dr. Tomasino examines monoterpenes in wines that are responsible for fruity and floral aromas in wine, and in particular, how monoterpene enantiomers may possess different sensory characteristics. Once these compounds are identified, characterized and understood, it may be possible to manipulate them in the vineyard or cellar to improve wine quality.

To honor its industry mandate, OWRI has launched a wine economics, business and marketing research program to accompany long-standing viticulture and enology research and education. In cooperation with the Oregon Wine Board, Erath Family Foundation and industry members, projects in AVA valuation, consumer preferences, and tasting room purchasing behavior have been launched. This program acknowledges the essential contribution of economics, business and marketing to the success of every Oregon winery and vineyard. The theme for OWRI Grape Day program on April 3 will be grape and wine economics and feature researchers from the OSU Applied Economics Department, as well as two invited speakers from California who will address the economic impact of grapevine diseases on the vineyard bottom line. A full program and registration will be available soon.

Enology Focus

Free Monoterpene Isomer Profiles of Varietal White Wines

Dr. Elizabeth Tomasino, Assistant Professor, Department of Food Science & Technology, OSU

Origin of Wine Aroma

Dr. Michael C. Qian, Professor of Flavor Chemistry, Dept. of Food Science & Technology, OSU

Dr. Hui Feng, Research Scientist, E. J. Gallo (Former Graduate Student, Dept. of Food Science & Technology, OSU)

OWRI 2018 Grape Day- Tuesday, April 3

The Oregon Wine Research Institute is pleased to announce our speaker lineup for Grape Day, on Tuesday, April 3. Scientists will discuss economics and business of wine from growing grapes to sales. Dr. Jonathan Kaplan, Professor at Sacramento State University, will identify possible economic hurdles when symptoms of grapevine trunk disease appear and Dr. Neil McRoberts, Associate Professor of Plant Pathology at UC Davis, will present his research on economics of powdery mildew. In addition to our two guest speakers, OWRI members will be presenting. Dr. James Sterns, OSU Associate Professor in Applied Economics, will discuss current research on wine clubs. Jason Beasely, OSU Graduate Student in Applied Economics and Dr. Robin Cross, OSU Assistant Professor and Senior Researcher in Applied Economics, will be discussing AVA valuation.

Registration and more information will be available soon!

2017 Fall Technical Newsletter

Our latest edition of the OWRI Technical Newsletter contains research updates and a comprehensive list of publications summarizing research conducted by faculty of the Oregon Wine Research Institute at Oregon State University. Access a copy of the newsletter [here](#).

Education & Training

Online Vine & Wine Class (MOOC)

This is a free 5-week [Massive Open Online Class](#) that covers the basics from vine physiology, vineyard production, wine production and marketing. It is offered by institutional partners in France (offered in English). Starts January 31, 2018.

Pesticide Applicator OSU Online Course Series

Six online training modules are available at any time for Oregon and Washington pesticide recertification credits, including IPM, managing weeds, safe pesticide handling, pesticide labels, and more. Learn more [here](#).

Online Viticulture and Enology Learning Modules

Washington State University has online, self-directed courses in viticulture and enology topics ranging from vineyard design to insect management, wine production, sensory and more! Learn more [here](#).

Respiratory Protection for Ag Operations

Learn about new OSHA and ODA requirements for wineries on February 8, 8:30 am-12:30 pm at the Chemeketa NW Wine Studies Center in West Salem. This class qualifies for 4 ODA pesticide recertification credits. Learn more [here](#).

Resources

Trunk Disease Prevention and Management- Winter is an important time for preventing trunk disease infection by using proper pruning practices. Below are important resources for understanding and managing trunk diseases:

- [Do you have trunk disease?](#)
- [Eutypa Dieback](#)
- [Botryosphaeria- "Bot Canker"](#)
- [Trunk Disease Research Team website](#)

Pesticide safety education: Never a dull moment, an online seminar presented by Kaci Buhl, National Pesticide Information Center, Oregon State University.

Effective Vineyard Spraying (Book) by Spray Technologist Dr. Andrew Landers, Cornell University is a must-have guide for improving your spray program.

Pacific Northwest Pest Management Handbooks. As you begin developing 2018 spray programs and reflecting on pest issues of 2017, consider the following online PNW guides:

- [Insect Management Handbook](#)
- [Weed Management Handbook](#)
- [Plant Disease Management Handbook](#)
- [Pesticide Safety](#)

OSU Fruit Disease Management Testing Program. Results of pesticide efficacy trials conducted in Oregon for grape powdery mildew and Botrytis bunch rot are available from Dr. Jay Pscheidt, OSU Extension Plant Pathologist.

From the Archive

[Lots o' Bots: Grapevine Trunk Diseases and the Botryosphaeriaceae](#) (article)

[Grapevine Trunk Diseases: What do we know of them in Oregon?](#) (webinar)

[From Nursery to the Vineyard: Study of Trunk Diseases in British Columbia](#) (webinar)

Upcoming Events

Unified Wine & Grape Symposium

January 23-25, 2018 | Sacramento, CA

Built with the joint input of growers, vintners and allied industry members, this event is held annually and is the largest event of its kind. [Event Website](#)

OVS Grower Meetings 2018

Featuring grape production information from across the state and region:

Salem, OR - January 23, 2018

Pasco, WA - January 25, 2018

Medford, OR - Feb 1, 2018

Winegrowers Convention and Trade Show

February 6-8, 2018 | Kennewick, WA

The Washington Winegrowers Convention and Trade Show is the premier wine and grape industry event in Washington State; offering small and large operations opportunities to learn and connect.

[Event Website](#)

Oregon Wine Symposium

February 20-21, 2018 | Portland, OR

The Oregon Wine Board brings its Symposium back to Portland, highlighting advances viticulture, enology, wine business, and two days of experimental wine tasting. Registration includes access to the Northwest's biggest wine industry trade show, featuring more than 170 exhibitors. [Event Website](#)

ASEV National Conference

June 18-21, 2018 | Monterey, CA

The national conference provides a forum for the presentation of research in the fields of enology and viticulture or related sciences. [Event Website](#)

Have a particular topic or question you would like to see addressed in the *Vine to Wine*? Please [contact us](#).

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