



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. 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 tasting room.

## Outreach and Communication

An important faculty role at the Oregon Wine Research Institute is teaching and mentoring both undergraduate and graduate students. The [undergraduate scholars program](#), created in 2016, allows them to do both while providing students with valuable work experience. OWRI offers five annual undergraduate scholar awards to faculty for \$5,000 each, used primarily to offset student wages. A faculty-selected committee employs a competitive process to select students from the applicant pool. The students begin work on July 1, 2021, and submit work experience reports in June 2022. The five undergraduate scholars selected and their research topics for the fiscal year 2022 can be found below.

Thank you for attending our Grape Day webinar series this spring that focused on research projects in faculty labs at OSU and partners at the USDA-ARS. We hope you found them valuable. Recordings are available to view at our website [beav.es/3B3](http://beav.es/3B3). Thank you again for your participation and continued support of OWRI!

Denise L. Dewey  
Program Coordinator

## Research Focus



### **Is crop estimation more challenging in a poor fruit set year?**

Dr. Patty Skinkis shares information on Pinot noir crop estimation models and how it worked in comparing with the poor set of the 2020 growing season.



### **Vineyard water management with a limited water supply**

Dr. Alec Levin's article provides an overview of vineyard water management strategies to mitigate drought (and its impacts) in vineyards.

## Timely Topic for Vineyards

**Stunted spring growth** - A lack of canopy growth, including shoots that were shorter than normal, was observed at bloom throughout areas of western Oregon. This may be caused by several factors, including water stress, lack of carbohydrate reserves, and more. Check out the OSU Extension Guide, [Recognize the Symptoms and Causes of Stunted Growth in Vineyards](#)

## OWRI Undergraduate Scholars Program

The **Undergraduate Scholars Program** is an annual competitive program to fund undergraduate research internships in areas related to viticulture, enology, and wine economics. The goal is to provide undergraduate students with the opportunity to learn and actively participate in research related to the wine industry. Scholars will have the opportunity to gain a broader learning experience outside the classroom by working directly within the lab and/or research program of an OWRI faculty member.

As our faculty encompass many disciplines, students also come with many different majors, as well as non-OSU institutions, including Southern Oregon University. The selected five OWRI undergraduate scholars and their research topics for the fiscal year 2022 are:

- Eliza Allen (OSU microbiology major) - *Fits like a glove: Rapid sampling techniques to determine fungicide resistance in Grape Powdery Mildew* (Mahaffee lab).
- Bryson Goto (OSU electrical and computer engineering major) - *Testing of low-cost dendrometer for remote monitoring of grapevine water stress* (Levin lab).
- Cassandra Kohler (SOU environmental science & policy major) - *Improving Grapevine Red Blotch Disease diagnosis and detection methods* (KC lab).
- Madesyn Samples (OSU molecular biology and biochemistry major) - *Developing a gene editing toolkit for genetic engineering in grapevine* (Deluc lab).
- McKenna Wilson (OSU food science and technology - enology & viticulture major) - *Utilizing non-Saccharomyces yeast as bio-protectants during cold soaking* (Osborne lab).

## Newsroom: Wildfires and Wine in Oregon



The Oregon Wine Research Institute had quickly mobilized its labs to test for smoke compounds in grapes impacted by the wildfires that had blanketed Oregon in smoke. PROGRESS story: <https://progress.oregonstate.edu/2021/06/17/wildfire-and-wine>

## Extension Resources

- **Recognize the Symptoms and Causes of Stunted Growth in Vineyards**- online with app!
- **2021 Pest Management Guide for Wine Grapes in Oregon**- updated online version with app!
- **Identifying Grapevine Nutrient Issues** a quick-reference guide from OSU Extension
- **Wine Grape Tissue Nutrient Analysis Guidelines for Oregon**, OSU Extension/USDA-ARS
- **Six Steps to Calibrate and Optimize Airblast Sprayers for Orchards and Vineyards** WSU Extension
- **Common Interchangeable Nozzles for Perennial Crop Canopy Sprayers** WSU Extension
- **Airblast 101** - free e-book to help you improve your sprayer operation

## Events

**WAVE Seminar: Working with High pH Wines** | July 14, online

## Stay Connected

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If you have a particular topic or question you would like to see addressed in the *Vine to Wine*, please [contact us](#).

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