

**Washington State Grape and Wine Research Grant Program  
FY 24 Projects (July 1, 2023 – June 30, 2024)**

<b>Principal WSU Investigator</b>	<b>Project Title</b>	<b>New/Cont (Duration)</b>	<b>Award</b>
Collins, Tom	Assessment of Risk to Grape and Wine Quality from Smoke Exposure	C (2 of 3 yrs)	\$61,098
Edwards, Charles	Enological Application of non-Saccharomyces Yeasts	C (3 of 3 yrs) Carryover funds	\$0
Harbertson, Jim	Creation and Mitigation of Frozen Leaf Effect Red and White Wines	N (1 of 3 yrs)	\$45,221
Harbertson, Jim	Predictive Modeling Development using Surface Enhanced Raman Spectroscopy Coupled with Machine Learning to Facilitate Enological Analysis	C (2 of 2 yrs)	\$24,917
Harbertson, Jim	Research Winemaking	C (2 of 5 yrs)	\$124,757
Harbertson, Jim	Advancing Condensed Tannin Understanding	C (2 of 4 yrs)	\$80,599
Jacoby, Pete	Advancing Sensor-based Irrigation Scheduling	C (2 of 2 yrs)	\$7,640
Keller, Markus	Carbon Isotope Signature in Wine Grapes as a Stress Indicator	N (1 of 2 yrs)	\$34,364
Keller, Markus	Grapevine Cold Hardiness Evaluation as a Service for Grape Growers	N (1 of 3 yrs)	\$16,188
Keller, Markus	Optimizing Sampling Protocols for Efficient Vineyard Nutrient Management	C (4 of 4 yrs)	\$218,387
Keller, Markus	Support for Vineyard Maintenance for Wine Grape Research	C (3 of 5 yrs)	\$5,000
Liu, Rui	Integrated Weed Management Options for Washington State Vineyards	N (1 of 2 yrs)	\$28,521
Moyer, Michelle	Cultural and Chemical Approaches for Sustainable Vineyard Pest Management	N (1 of 3 yrs)	\$96,506
Piao, Hailan	Reassessment of Free SO <sub>2</sub> and Molecular SO <sub>2</sub> on the Viability of Yeast and Bacteria in Wine	N (1 of 1 yrs)	\$64,327
Rayapati, Naidu	Innovative Strategies for Management of Grapevine Leafroll Disease	C (4 of 3 yrs) No Cost Ext.	\$0
Rippner, Devin	Establishing a Vineyard to Study Effects of Traditional and Novel Viticultural Practices on Soil Health Metrics	C (2 of 3 yrs)	\$30,000
Walsh, Doug	Grape Mealybug Management by Focused Mating Disruption	N (1 of 3 yrs)	\$35,613
		<b>Subtotal</b>	<b>\$873,138</b>
<b>Washington State Wine Commission Research Grant Program</b>			
Waterhouse, Andrew (UCD)	Advancing Condensed Tannin Analysis	C (2 of 3 yrs)	\$97,728
James, David (WSU)/GS Long	Using Drones and Attractant to Improve Biological Control of Mealybugs and Spider Mites in WA Wine Grapes	C (2 of 2 yrs)	\$21,162
		<b>Subtotal</b>	<b>\$118,890</b>
		<b>Research total</b>	<b>\$992,028</b>