

## I. New 2022 NCSFR Funded Projects

<u>Years</u>	<u>PI/ Affiliation</u>	<u>Proposal Title</u>	<u>Project Type</u>
2	Wendy Hoashi-Erhardt (WSU)	Assessing the current state and stewarding the future of Pacific Northwest strawberry production, economics, and breeding	Berries d
3	Rebecca Bunn (West WA)	Establishment and cultivar-specific associations of mycorrhizal fungi in newly-turned raspberry fields	Berries
3	Dimitre Mollov (ARS)	Identifying genetic resistance to blueberry shock virus and the role of the newly identified luteovirus in recurrence of shock symptoms	Berries
3	Stephen Cook (Uofl)	Identifying Huckleberry Pollinators and the Impact of Soi Amendment Treatments	l Berries
3	Franck Carbonero (WSU)	Investigating the role of microbiome and metabolome in the prebiotic and urinary tract infection preventative effect of cranberry juice	Berries
3	David Bryla (ARS)	Irrigation Strategies for Handling Heat and Improving Production, Plant Health, and Cold Hardiness in Trailing Blackberry	Berries
1	Dani Lightle (OSU)	Understanding the extent of symphylan damage in strawberry production	Berries
3	Woodhall (Uofl)	Characterization and epidemiology of Grapevine Trunk Diseases (GTD) in Idaho	Grapes
3	Matthew Clark (UMN)	Evaluation of novel cold hardy grape rootstocks for use in the Pacific Northwest	n Grapes
3	Michael Qian	Optimal irrigation initiation time based on grape and	Grapes



	(OSU)	wine composition and quality	
3	Markus Keller (WSU)	Testing drought and heat mitigation strategies for vineyards	Grapes
1	Katherine East (ARS)	The effect of soil parameters on plant-parasitic nematodes of wine grapes in Washington and Oregon	Grapes
2	Patty Skinkis (OSU)	The Yield-Quality Paradigm: Using Long-Term, Multi-Vineyard Data to Understand Yield Management into the Future	Grapes

## II. Continuing NCSFR Funded Projects

<u>Years</u>	<u>PI/ Affiliation</u>	<u>Proposal Title</u>	<u>Project Type</u>
Year 3 of 3	Erica Chernoh, Javier Fernandez- Salvador (OSU)	Alternative Plastic Culture Production of Fresh-market Strawberry in Substrate, High Tunnels, and Low Tunnels	Berries
Year 2 of 2	Virginia Stockwell (ARS)	Assessing the role of Gnomoniopsis idaeicola and other fungal cane blight pathogens in Blackberry Collapse	Berries
Year 3 of 3	Amanda Davis (OSU)	Can humic acids improve production in mature organic northern highbush blueberry	Berries ?
Year 2 of 2	Michael Hardigan (ARS)	Evaluating the potential of genetic markers for predicting blueberry fruit quality and ripening season in Pacific Northwest germplasm.	or Berries g
Year 2 of 3	David Bryla (ARS)	Evapotranspiration and Crop Coefficients fror Lysimeter Measurements of Blueberry	n Berries



Year 2 of 3	Marcelo Moretti (OSU)	Expanding Weed Control Options for Cranberry Growers	Berries
Year 2 of 3	Wendy Hoashi-Erhardt (WSU)	Genomic Prediction for Quantitative Resistance to Root Lesion Nematode in Raspberry	Berries
Year 2 of 3	Vaughn Walton (OSU)	Improvement of a novel plant-based deterrent against Drosophila suzukii	Berries
Year 3 of 3	Lisa DeVetter (WSU)	Optimizing Nutrient Management for Organically Grown Blueberries East of the Cascade Range	Berries
Year 3 of 3	Inga Zasada (ARS)	Risk assessment of nematode-transmitted viruses of small fruit crops in the Pacific Northwest	Berries
Year 3 of 3	Walt Mahaffee (ARS)	Botrytis Bunch Rot: Where, when and what to use	Grapes
Year 2 of 2	Achala KC (OSU)	Fungal microbiome associated with grapevine trunk diseases in Oregon vineyards	Grapes
Year 2 of 3	James Osborne (OSU)	Impact of Pediococcus on wine chemical and sensory properties	Grapes
Year 2 of 2	Chakradhar Mattupalli (WSU)	Monitoring Botrytis fungicide resistance on blueberries in Washington and Oregon	Grapes
Year 2 of 3	Pete Jacoby (WSU)	Optimizing Water Use for Winegrapes with Sensor-controlled Subsurface Irrigation	Grapes
Year 2 of 2	Alexander Levin (OSU)	Taking proof of concept to wide-scale field use: the OSU high-performance dendrometer	Grapes
Year 2 of 3	Naidu Rayapati (WSU)	Tracking genetic variants of Grapevine leafroll-associated virus 3 for Disease	Grapes



Prevention and Control in Pacific Northwest vineyards

Year 3 of 3	Bhaskar Bondada (WSU)	Understanding the onset of systemic infection of Red Blotch virus and phenotypic studies of grapevines expressing a Red Blotch virus infectious clone	Grapes
Year 2 of 3	Charlie Edwards (WSU)	Use of non-Saccharomyces yeasts to ferment high sugar Chardonnay grape musts from the Pacific Northwest.	Grapes

## III. Improvement Initiative Projects

<u>Years</u>	<u>PI/ Affiliation</u>	<u>Proposal Title</u>	<u>Project Type</u>
Always funded	Zak Wiegand (OSU)	Quality Evaluation of Berry Selections and Varieties	PII
Always funded	Wendy Hoashi-Erhardt (WSU)	Small Fruit Breeding in the Pacific Northwest	PII
Always funded	Amanda Davis (OSU)	Testing and Evaluation of Berry Crops for Commercial Production in the Pacific Northwest	PII

## IV. 2021 Fully Funded Projects



<u>Years</u>	PI/ Affiliation	<u>Proposal Title</u>	<u>Project Type</u>
Year 3 of 3	Virginia Stockwell and Cassie Bouska (ARS)	Prevalence of cranberry fruit rots in commercia production beds in Oregon and Washington	Berries
Year 2 of 3	Wendy Hoashi-Erhardt (WSU)	Trials of Advanced Raspberry selections to evaluate suitability for IQF processing and to promote adoption	Berries
Year 3 of 3	Alexander Karasev (UI)	Virome associated with common grape virus diseases in the development of new detection tools	Grapes