

Latest publications from the UC Davis Department of Viticulture & Enology as of 1/23/2020:

[Beyond drought tolerance: are hydraulic recovery traits important to the responses of ecosystem gas exchange to increasing drought?](#)

M Bartlett, M Detto, SW Pacala - AGU Fall Meeting 2019, 2019

[A Review of Wine Fermentation Process Modeling](#)

KV Miller, DE Block - Journal of Food Engineering, 2019

[3D Time Variant Reactor Engineering Model for Red Wine Fermentations](#)

K Miller, DE Block - 2019 AIChE Annual Meeting, 2019

[Cell Wall-Anthocyanin Interactions during Red Wine Fermentation-Like Conditions](#)

Cristina Medina-Plaza, Jordan W. Beaver, Konrad V. Miller, Larry Lerno, Nick Dokoozlian, Ravi Ponangi, Tom Blair, David E. Block, Anita Oberholster - American Journal of Enology and Viticulture, 2019

[The genetic basis of grape and wine aroma](#)

J Lin, M Massonnet, D Cantu - Horticulture research, 2019

[The population genetics of structural variants in grapevine domestication](#)

Yongfeng Zhou, Andrea Minio, Mélanie Massonnet, Edwin Solares, Yuanda Lv, Tengiz Beridze, Dario Cantu, Brandon S Gaut - Nature plants, 2019

[Grape Transcriptomics and Viticulture](#)

MMélanie Massonnet, Marianna Fasoli, Amanda M Vondras, Sara Zenoni, Silvia Dal Santo, Alessandro Vannozzi, Simone D Castellarin, Mario Pezzotti, Dario Cantu - The Grape Genome, 2019

[Strategies for Sequencing and Assembling Grapevine Genomes](#)

Rosa Figueroa-Balderas, Andrea Minio, Abraham Morales-Cruz, Amanda M Vondras, Dario Cantu - The Grape Genome, 2019

[The genomic diversification of grapevine clones](#)

Amanda M Vondras, Andrea Minio, Barbara Blanco-Ulate, Rosa Figueroa-Balderas, Michael A Penn, Yongfeng Zhou, Danelle Seymour, Zirou Ye, Dingren Liang, Lucero K Espinoza, Michael M Anderson, M Andrew Walker, Brandon Gaut, Dario Cantu - BMC genomics, 2019

[The genetic basis of sex determination in grapevines \(*Vitis* spp.\)](#)

Melanie Massonnet, Noe Cochetel, Andrea Minio, Aline Muyle, Jerry Lin, Jadran F Garcia, Amanda M Vondras, Yongfeng Zhou, Massimo Delledonne, Summaira Riaz, Brandon S Gaut, Dario Cantu - bioRxiv, 2019

[Volatile organic compound \(VOC\) emissions of CHO and T cells correlate to their expansion in bioreactors](#)

Mitchell M McCartney, Mei S Yamaguchi, Paul A Bowles, Yarden S Gratch, Rohin K Iyer, Angela L Linderholm, Susan E Ebeler, Nicholas J Kenyon, Michael Schivo, Richart W Harper, Paul Goodwin, Cristina E Davis - Journal of breath research, 2019

[Exposure to Aroma Reference Standards Alters Participants' Descriptions of Commercial Red and White Wines](#)

Pauline Lestringant, Jennifer Sela-Bowen, Annegret Cantu, Martina Sokolowsky, Hildegard Heymann - Catalyst: Discovery into Practice, 2019

[The impact of grapevine red blotch disease on *Vitis vinifera* L. Chardonnay grape and wine composition and sensory attributes over three seasons](#)

Raul Cauduro Girardello, Vanessa Rich, Rhonda J Smith, Charles Brenneman, Hildegard Heymann, Anita Oberholster - Journal of the Science of Food and Agriculture, 2019

[A matter of place: Sensory and chemical characterisation of fine Australian Chardonnay and Shiraz wines of provenance](#)

Marcell Kustos, Joanna M Gambetta, David W Jeffery, Hildegard Heymann, Steven Goodman, Susan EP Bastian - Food Research International, 2019

[Comparison of a stand-alone surface renewal method to weighing lysimetry and eddy covariance for determining vineyard evapotranspiration and vine water stress](#)

Christopher K Parry, Thomas M Shapland, Larry E Williams, Arturo Calderon-Orellana, Richard L Snyder, Andrew J McElrone - Irrigation Science, 2019

[In vivo pressure gradient heterogeneity increases flow contribution of small diameter vessels in grapevine](#)

M Bouda, CW Windt, AJ McElrone, CR Brodersen - Nature communications, 2019

[Leaf level spectral features related to grapevine water status: informing viticulture remote sensing sensor development.](#)

Maria Mar Alsina, Nicolas E Bambach-Ortiz, Hector Nieto, Ana Andreu, William P Kustas, Andrew J McElrone, Casey Ryan, Nick Dokoozlian - AGU Fall Meeting 2019, 2019

[Lessons on Water Use Efficiency from Water Vapor and CO₂ Flux observations over Vineyards Across the Californian Mediterranean Climate Gradient](#)

Nicolas E Bambach-Ortiz, Maria Mar Alsina, William P Kustas, Joseph G Alfieri, Lawrence Hipps, Lynn McKee, John H Prueger, Nick Dokoozlian, Andrew J McElrone - AGU Fall Meeting 2019, 2019

[Comparing Traditional Water Balance Estimates of Evapotranspiration with Eddy-Covariance and Satellite-Based Modeling in a Drip Irrigated Vineyard](#)

Karrin Alstad, Tiffany G Wilson, Lynn McKee, Maria Mar Alsina, Nicolas E Bambach-Ortiz, Tianxin Wang, Joseph G Alfieri, John H Prueger, Lawrence Hipps, Kyle Knipper, Andrew J McElrone, Martha Anderson, William P Kustas - AGU Fall Meeting 2019, 2019

[Evaluation of vegetation and thermal infrared-based ET maps for real-time water use and stress monitoring in a California vineyard](#)

Kyle Knipper, William P Kustas, MC Anderson, Maria Mar Alsina, CR Hain, Joseph G Alfieri, John Prueger, Feng Gao, Andrew McElrone, Nicolas Bambach-Ortiz, GMcKee Lynn, Luis Sanchez - 100th American Meteorological Society Annual Meeting, 2020

[Using high-spatiotemporal thermal satellite ET retrievals to monitor vineyard water use and water stress across multiple California vineyards](#)

Kyle Knipper, William P Kustas, MC Anderson, Maria Mar Alsina, CR Hain, Joseph G Alfieri, John H Prueger, Feng Gao, Andrew McElrone, Nicolas Bambach-Ortiz, GMcKee Lynn, Luis Sanchez - 100th American Meteorological Society Annual Meeting, 2020

[Changes in Smoke-Taint Volatile-Phenol Glycosides in Wildfire Smoke-Exposed Cabernet Sauvignon Grapes throughout Winemaking](#)

Andrew Caffrey, Larry Lerno, Arran Rumbaugh, Raul Girardello, Jerry Zweigenbaum, Anita Oberholster, Susan E Ebeler - American Journal of Enology and Viticulture, 2019

[Grape flavonoid evolution and composition under altered light and temperature conditions in Cabernet sauvignon \(*Vitis vinifera* L.\)](#)

Erna H Blancquaert, Anita Oberholster, Jorge M Ricardo-da-Silva, Alain J Deloire - Frontiers in Plant Science, 2019

[Adsorption and biotransformation of anthocyanin glucosides and quercetin glycosides by *Oenococcus oeni* and *Lactobacillus plantarum* in model wine solution](#)

A Devi, KA Anu-appaiah, AL Waterhouse - Journal of the Science of Food and Agriculture, 2019

[Acetaldehyde reactions during wine bottle storage](#)

G Han, MR Webb, AL Waterhouse - Food chemistry, 2019