

Latest publications from the UC Davis Department of Viticulture & Enology as of 10/1/2016:

Hendrickson, D. A.; Lerno, L. A., Hjelmeland, A. K., **Ebeler, S. E.**, Heymann, H., Hopfer, H., Block, K. L., Brenneman, C. A., Oberholster, A. 2016. Impact of mechanical harvesting and optical berry sorting on grape and wine composition. *Am. J. Enol. Vitic.* Published on line, May 27, 2016. Doi: 10.5344/ajev.2016.14132.

Tanabe, C. K., H. Hopfer, G. Gilleland, A. Liba, **S. E. Ebeler**, J. Nelson. 2016. Total arsenic analysis in Californian wines with hydride generation-microwave plasma-atomic emission spectroscopy (HG-MP-AES). *J. An. At. Spectrom.* 31: 1223-1227. DOI: 10.1039/C6JA00051G. (Cover article)

KN Burns, NA Bokulich, D Cantu, RF Greenhut, DA Kluepfel, AT O'Geen, Sarah L Strauss, Kerri L Steenwerth. 2016. [Vineyard soil bacterial diversity and composition revealed by 16S rRNA genes: Differentiation by vineyard management](#), *Soil Biology and Biochemistry* 103, 337-348.

Mélanie Massonnet, Abraham Morales-Cruz, Rosa Figueroa-Balderas, Daniel P Lawrence, Kendra Baumgartner, Dario Cantu. 2016. [Condition-dependent co-regulation of genomic clusters of virulence factors in the grapevine trunk pathogen \*Neofusicoccum parvum\*](#). *Molecular Plant Pathology*.

Dániel Pap, Summaira Riaz, Ian B Dry, Angelica Jermakow, Alan C Tenschler, Dario Cantu, Róbert Oláh, M Andrew Walker. 2016. [Identification of two novel powdery mildew resistance loci, \*Ren6\* and \*Ren7\*, from the wild Chinese grape species \*Vitis piasezkii\*](#). *BMC Plant Biology* 16 (1), 170.

Chen-Shan Chin, Paul Peluso, Fritz J Sedlazeck, Maria Nattestad, Gregory T Concepcion, Alicia Clum, Christopher Dunn, Ronan O'Malley, Rosa Figueroa-Balderas, Abraham Morales-Cruz, Grant R Cramer, Massimo Delledonne, Chongyuan Luo, Joseph R Ecker, Dario Cantu, David R Rank, Michael C Schatz. 2016. [Phased Diploid Genome Assembly with Single Molecule Real-Time Sequencing](#). bioRxiv, 056887.

Dario Cantu, M Caroline Roper, Ann LT Powell, John M Labavitch. 2016. [Problematic Crops: 1. Grape: To Long Life and Good Health: Untangling the Complexity of Grape Diseases to Develop Pathogen-Resistant Varieties](#). *Plant Pathogen Resistance Biotechnology*, 193.

Barbara Blanco-Ulate, John M Labavitch, Estefania Vincenti, Ann LT Powell, Dario Cantu. 2016. [Hitting the Wall: Plant Cell Walls During \*Botrytis cinerea\* Infections](#). *Botrytis—the Fungus, the Pathogen and its Management in Agricultural Systems*. 361-386.

Nicholas A Bokulich, Thomas S Collins, Chad Masarweh, Greg Allen, Hildegard Heymann, Susan E Ebeler, David A Mills. 2016. [Associations among Wine Grape Microbiome, Metabolome, and Fermentation Behavior Suggest Microbial Contribution to Regional Wine Characteristics](#). *mBio* 7 (3), e00631-16.

CM Lucy Joseph, Elizabeth Albino, Linda F Bisson. 2016. [Creation and Use of a \*Brettanomyces\* Aroma Wheel](#). *Catalyst: Discovery into Practice, catalyst*. 2016.16003.

Linda F Bisson, Gordon Walker, Vidhya Ramakrishnan, Yan Luo, Qingwen Fan, Emily Wiemer, Peter Luong, Minami Ogawa, Lucy Joseph. 2016. [The Two Faces of Lactobacillus kunkeei: Wine Spoilage Agent and Bee Probiotic](#). Catalyst: Discovery into Practice. 2016.16002.

LF Bisson. 2016. [Yeast Hybrids in Winemaking](#). Catalyst: Discovery into Practice, catalyst. 2016.16001

JD Palumbo, TL O'Keeffe, MW Fidelibus. 2016. [Characterization of Aspergillus section Nigri species populations in vineyard soil using droplet digital PCR](#). Letters in Applied Microbiology.

LE Williams, MW Fidelibus. 2016. [Measured and estimated water use and crop coefficients of grapevines trained to overhead trellis systems in California's San Joaquin Valley](#). Irrigation Science 34 (6), 431-441.

Andrew L Waterhouse, Scott Frost, Maurizio Ugliano, Annegret R Cantu, Bruce L Currie, Mauri Anderson, Alexander W Chassy, Stéphane Vidal, Jean-Baptiste Diéval, Olav Aagaard, Hildegard Heymann. 2016. [Sulfur Dioxide–Oxygen Consumption Ratio Reveals Differences in Bottled Wine Oxidation](#) American Journal of Enology and Viticulture, ajev. 2016.16006.

Yu Runze, M. Cook, A. Watrelot, G. Gambetta, JA Kennedy and SK Kurtural. 2016. Effects of leaf removal and applied water on flavonoid accumulation in grapevine (*Vitis vinifera* L. cv. Merlot) berry in a hot climate. J. Ag. Food Chem. DOI: 10.1021/acs.jafc.6b03748.

PL Wylie, A Hjelmeland, RC Runnebaum, SE Ebeler. 2016. [Analysis Of Pinot Noir Wines By HS-SPME GC/Q-TOF: Correlating Geographical Origin With Volatile Aroma Profiles](#). Planta Medica 82 (05), OA49.

Viana, A.P., M.D.V. de Resende, S. Riaz and M.A. Walker. 2016. Genome selection in fruit breeding: application to table grapes. Scientia Agricola 73:142-149.

Cui, Z., W-L. Bi, X-Y. Hao, Y. Xu, P-M. Li, M.A. Walker and Q-C. Wang. 2016. Responses of *in vitro*-grown plantlets (*Vitis vinifera*) to *grapevine leafroll-associated virus-3* and PEG-induced drought stress. Frontiers in Physiology 7 Article 203 doi: 10.3389/fphys.2016.00203

Forneck, A., K. Powell and M.A. Walker. 2016. Scientific opinion: Improving the definition of grape phylloxera biotypes and standardizing biotype screening protocols. American Journal of Enology and Viticulture 64:371-376.

Xie, X., C.B. Agüero, Y. Wang and M.A. Walker. 2016. Genetic transformation of grape varieties and rootstocks via organogenesis. Plant, Cell, Tissue and Organ Culture (In Press)

AL Peterson, AL Waterhouse. 2016. [1H NMR: A Novel Approach To Determining the Thermodynamic Properties of Acetaldehyde Condensation Reactions with Glycerol,\(+\)-Catechin, and Glutathione in Model Wine](#). Journal of Agricultural and Food Chemistry 64 (36), 6869-6878.

Elizabeth Barrett-Connor, Giovanni de Gaetano, Luc Djoussé, R Curtis Ellison, Ramon Estruch, Harvey Finkel, Tedd Goldfinger, Ulrich Keil, Dominique Lanzmann-Petithory, Fulvio Mattivi, Erik Skovenborg, Creina Stockley, Arne Svilaas, Pierre-Louis Teissedre, Dag S Thelle, Fulvio Ursini, Andrew L Waterhouse. [Comments on Moderate Alcohol Consumption and Mortality](#). 2016. Journal of Studies on Alcohol and Drugs 77 (5), 834-836.

