

# AMERICAN JOURNAL *of* ENOLOGY AND VITICULTURE

VOLUME 66 **2015** NUMBER 4

## CONTENTS

### Research Articles

- Population Structure of *Vitis rupestris*, an Important Resource for Viticulture  
*D. Pap, A.J. Miller, J.P. Londo, and L.G. Kovács* ..... 403 - 410
- Sulfur Dioxide and Glutathione Alter the Outcome of Microoxygenation  
*A. Gambuti, G. Han, A.L. Peterson, and A.L. Waterhouse* ..... 411 - 423
- Effect of Early Fruit-Zone Leaf Removal on Canopy Development and Fruit Quality  
in Riesling and Sauvignon blanc  
*B.L. Komm and M.M. Moyer* ..... 424 - 434
- Unripe Berries and Petioles in *Vitis vinifera* cv. Cabernet Sauvignon Fermentations  
Affect Sensory and Chemical Profiles  
*S.C. Ward, P.R. Petrie, T.E. Johnson, P.K. Boss, and S.E.P. Bastian* ..... 435 - 443
- Effects of Cap and Overall Fermentation Temperature on Phenolic Extraction in  
Cabernet Sauvignon Fermentations  
*L. Lerno, M. Reichwage, R. Ponangi, L. Hearne, D.E. Block, and A. Oberholster* ..... 444 - 453
- Grape Berry Transpiration Is Determined by Vapor Pressure Deficit, Cuticular Conductance,  
and Berry Size  
*Y. Zhang and M. Keller* ..... 454 - 462
- Folin-Ciocalteu, FRAP, and DPPH<sup>•</sup> Assays for Measuring Polyphenol Concentration  
in White Wine  
*J.C. Danilewicz* ..... 463 - 471
- Interactions of Grape Skin, Seed, and Pulp on Tannin and Anthocyanin Extraction  
in Pinot noir Wines  
*A.M. Sparrow, R.G. Dambergs, K.A. Bindon, P.A. Smith, and D.C. Close* ..... 472 - 481
- Modeling Phenology, Water Status, and Yield Components of Three Portuguese Grapevines  
Using the STICS Crop Model  
*H. Fraga, R. Costa, J. Moutinho-Pereira, C.M. Correia, L.T. Dinis, I. Gonçalves,  
J. Silvestre, J. Eiras-Dias, A.C. Malheiro, and J.A. Santos* ..... 482 - 491
- A Practical Method for Staging Grapevine Inflorescence Primordia in Season 1,  
with Improved Description of Stages  
*P.W. Noyce, J.D.I. Harper, C.C. Steel, and R.M. Wood* ..... 492 - 501

*continued next page*

Rapid Assessment of Gray Mold ( <i>Botrytis cinerea</i> ) Infection in Grapes with a Biosensor System <i>L. Cinquanta, D. Albanese, F. De Curtis, F. Malvano, A. Crescitelli,</i> <i>and M. Di Matteo.</i> .....	<b>502 - 508</b>
Recovery of <sup>15</sup> N-labeled Fertilizer by Thompson Seedless Grapevines: Effects of N Fertilizer Type and Irrigation Method <i>L.E. Williams</i> .....	<b>509 - 517</b>
Effect of Bentonite Characteristics on Wine Proteins, Polyphenols, and Metals under Conditions of Different pH <i>R. Dordoni, D. Colangelo, M. Giribaldi, M.G. Giuffrida, D.M. De Faveri,</i> <i>and M. Lambri</i> .....	<b>518 - 530</b>
Cultivar Identity, Intravarietal Variation, and Health Status of Native Grapevine Varieties in Croatia and Montenegro <i>M. Žulj Mihaljević, U.C.M. Anhalt, E. Rühl, M. Tomić Mugoša, V. Maraš,</i> <i>A. Forneck, G. Zdunić, D. Preiner, and I. Pejić</i> .....	<b>531 - 541</b>
<b>Research Notes</b>	
Effect of Foliar Applications of Proline, Phenylalanine, Urea, and Commercial Nitrogen Fertilizers on Stilbene Concentrations in Tempranillo Musts and Wines <i>T. Garde-Cerdán, J. Portu, R. López, and P. Santamaría</i> .....	<b>542 - 547</b>
Flower Debris Removal Delays Grape Bunch Rot Epidemic <i>D. Molitor, L. Hoffmann, and M. Beyer</i> .....	<b>548 - 553</b>