

**AMERICAN JOURNAL
of
ENOLOGY AND VITICULTURE**

VOLUME 59 **2008** NUMBER 2

CONTENTS

Beyond the Genome, Opportunities for a Modern Viticulture: A Research Overview <i>M. Troggio, S. Vezzulli, M. Pindo, G. Malacarne, P. Fontana, F.M. Moreira, L. Costantini, M.S. Grando, R. Viola, and R. Velasco</i>	117 - 127
Mechanism of Interaction of Polyphenols, Oxygen, and Sulfur Dioxide in Model Wine and Wine <i>J.C. Danilewicz, J.T. Seccombe, and J. Whelan</i>	128 - 136
Defining Vegetal Aromas in Cabernet Sauvignon Using Sensory and Chemical Evaluations <i>L.D. Preston, D.E. Block, H. Heymann, G. Soleas, A.C. Noble, and S.E. Ebeler</i>	137 - 145
Ethanol Difference Thresholds in Wine and the Influence of Mode of Evaluation and Wine Style <i>P. Yu and G.J. Pickering</i>	146 - 152
Chemical and Sensory Evaluation of Astringency in Washington State Red Wines <i>J.L. Landon, K. Weller, J.F. Harbertson, and C.F. Ross</i>	153 - 158
Transcriptional Up-Regulation of Grapevine <i>MLO</i> Genes in Response to Powdery Mildew Infection <i>P. Winterhagen, S.F. Howard, W. Qiu, and L.G. Kovács</i>	159 - 168
Characterization of Grapevine Accessions from Ukraine Using Microsatellite Markers <i>M. Heuertz, S. Goryslavets, J.F. Hausman, and V. Risovanna</i>	169 - 178
Impact of Pruning Methods on Yield Components and Juice and Wine Composition of Cynthiana Grapes <i>G.L. Main and J.R. Morris</i>	179 - 187
Research Notes	
Viticultural Evaluation of French and California Pinot noir Clones Grown for Production of Sparkling Wine <i>M.M. Anderson, R.J. Smith, M.A. Williams, and J.A. Wolpert</i>	188 - 193
Meteorological Impact on Oxygen Isotope Ratios of German Wines <i>A. Hermann and S. Voerkelius</i>	194 - 199
Genetics and Ampelography Trace the Origin of Muscat fleur d'oranger <i>A. Schneider, D. Torello Marinoni, and M. Crespan</i>	200 - 204
Molecular Correlation of Zinfandel (Primitivo) with Austrian, Croatian, and Hungarian Cultivars and Kratošija, an Additional Synonym <i>A. Calò, A. Costacurta, V. Maraš, S. Meneghetti, and M. Crespan</i>	205 - 209
Variability of Tannin Concentration in Red Wines <i>J.F. Harbertson, R.E. Hodgins, L.N. Thurston, L.J. Schaffer, M.S. Reid, J.L. Landon, C.F. Ross, and D.O. Adams</i>	210 - 214
Technical Brief	
In situ Measurements of Dissolved Oxygen during Low-Level Oxygenation in Red Wines <i>V.F. Laurie, R. Law, W.S. Joslin, and A.L. Waterhouse</i>	215 - 219