

Contents

Review Article

- Review: soil physical and chemical properties as indicators of soil quality in Australian viticulture _____ 129
D.P. Oliver, R.G.V. Bramley, D. Riches, I. Porter and J. Edwards

Original Articles

- Exploring minerality of Burgundy Chardonnay wines: a sensory approach with wine experts and trained panellists _____ 140
J. Ballester, M. Mihnea, D. Peyron and D. Valentin
- Grape seed proteins: a new fining agent for astringency reduction in red wine _____ 153
S. Vincenzi, C. Dinnella, A. Recchia, E. Monteleone, D. Gazzola, G. Pasini and A. Curioni
- Influence of yeast strain, extended lees contact and nitrogen supplementation on glutathione concentration in wine _____ 161
E.C. Kritzinger, F.F. Bauer and W.J. du Toit
- Skin pectin metabolism during the postharvest dehydration of berries from three distinct grapevine cultivars _____ 171
G. Zocatelli, S. Zenoni, S. Savoi, S. Dal Santo, P. Tononi, V. Zandonà, A. Dal Cin, V. Guantieri, M. Pezzotti and G.B. Torielli
- Antimicrobial activity of ozone. Effectiveness against the main wine spoilage microorganisms and evaluation of impact on simple phenols in wine _____ 180
R. Guzzon, T. Nardin, O. Micheletti, G. Nicolini and R. Larcher

Short Research Paper

- Isolation of intact glycosidic aroma precursors from grape juice by hydrophilic interaction liquid chromatography _____ 189
M. D'Ambrosio, P. Harghel and V. Guantieri

Original Articles

- Polymorphisms in *VvPel* associate with variation in berry texture and bunch size in the grapevine _____ 193
A.M. Vargas, C. Fajardo, J. Borrego, M.T. de Andrés and J. Ibáñez

Genetic variability of berry size in the grapevine (<i>Vitis vinifera</i> L.) _____	208
<i>C. Houel, M.-L. Martin-Magniette, S.D. Nicolas, T. Lacombe, L. Le Cunff, D. Franck, L. Torregrosa, G. Conéjéro, S. Lalet, P. This and A-F. Adam-Blondon</i>	
Transcriptional regulation of the three grapevine chalcone synthase genes and their role in flavonoid synthesis in Shiraz _____	221
<i>N.N. Harris, J.M. Luczo, S.P. Robinson and A.R. Walker</i>	
Effect of leaf removal and grapevine smoke exposure on colour, chemical composition and sensory properties of Chardonnay wines _____	230
<i>R. Ristic, K.A. Pinchbeck, A.L. Fudge, Y. Hayasaka and K.L. Wilkinson</i>	
Anthocyanin profile and gene expression in berry skin of two red <i>Vitis vinifera</i> grape cultivars that are sunlight dependent versus sunlight independent _____	238
<i>Y. Zheng, J.H. Li, H.P. Xin, N. Wang, L. Guan, B.H. Wu and S.H. Li</i>	
Evaluation of single and dual crop coefficients over a drip-irrigated Merlot vineyard (<i>Vitis vinifera</i> L.) using combined measurements of sap flow sensors and an eddy covariance system _____	249
<i>C.A. Poblete-Echeverría and S.O. Ortega-Farias</i>	
Interseasonal effects of regulated deficit irrigation on growth, yield, water use, berry composition and wine attributes of Cabernet Sauvignon grapevines _____	261
<i>E.J. Edwards and P.R. Clingeleffer</i>	
The long-term effect of Stolbur phytoplasma on grapevines in the Golan Heights _____	277
<i>T. Zahavi, R. Sharon, G. Sapir, M. Mawassi, M. Dafny-Yelin and V. Naor</i>	
Leaf blade and petiole analysis for nutrient diagnosis in <i>Vitis vinifera</i> L. cv. Garnacha tinta _____	285
<i>A. Benito, I. Romero, N. Domínguez, E. García-Escudero and I. Martín</i>	
Naturalised grapevines collected from arid regions in Northern Chile exhibit a high level of genetic diversity _____	299
<i>A. Milla-Tapia, S. Gómez, X. Moncada, P. León, A. Ibacache, M. Rosas, B. Carrasco, P. Hinrichsen and A. Zurita-Silva</i>	