

## Contents

<b>Obituary</b>	
Nathan James Scarlett	171
<b>Original Articles</b>	
Novel non-specific liquid fingerprint technology for wine analysis: a feasibility study <i>J.J. Siivonen, P.I. Väisänen, S.A. Tiittanen, M.M. Lehmusto, P. Lehtonen, E. Patrikainen, T. Teimonen, N. Törnkvist, P. Mundill, P. Hänninen and H. Härmä</i>	172
Sensory interaction between 3-mercaptopentan-1-ol and 2-isobutyl-3-methoxypyrazine in dearomatised Sauvignon Blanc wine <i>E. van Wyngaard, J. Brand, D. Jacobson and W.J. du Toit</i>	178
Effect of carboxymethyl cellulose on tartrate salt, protein and colour stability of red wine <i>H. Claus, S. Tenzer, M. Sobe, M. Schlander, H. König and J. Fröhlich</i>	186
Time course of diacetyl formation during vinification with <i>Saccharomyces cerevisiae</i> and <i>Oenococcus oeni</i> co-cultivation <i>R. Mink, S. Sommer, R. Kölling, H.-G. Schmarr and M. Scharfenberger-Schmeer</i>	194
Wine quality improvement through the combined utilisation of yeast hulls and <i>Candida zemplinina</i> / <i>Saccharomyces cerevisiae</i> mixed starter cultures <i>G. Zara, I. Mannazzu, A. Del Caro, M. Budroni, M.B. Pinna, M. Murru, G.A. Farris and S. Zara</i>	199
Influence of the solvent system on the composition of phenolic substances and antioxidant capacity of extracts of grape ( <i>Vitis vinifera</i> L.) marc <i>S. Agustín-Salazar, L.A. Medina-Juárez, H. Soto-Valdez, F. Manzanares-López and N. Gámez-Meza</i>	208
Within-vineyard variation in the 'pepper' compound rotundone is spatially structured and related to variation in the land underlying the vineyard <i>N.J. Scarlett, R.G.V. Bramley and T.E. Siebert</i>	214
Effect of leaf removal and ultraviolet radiation on the composition and sensory perception of <i>Vitis vinifera</i> L. cv. Sauvignon Blanc wine <i>K. Šuklje, G. Antalick, Z. Coetzee, L.M. Schmidtke, H. Baša Česnik, J. Brandt, W.J. du Toit, K. Lisjak and A. Deloire</i>	223
Within-vineyard variability in vine vegetative growth, yield, and fruit and wine composition of Cabernet Sauvignon in Hawke's Bay, New Zealand <i>P.D. King, R.E. Smart and D.J. McClellan</i>	234
Versatile and efficient RNA extraction protocol for grapevine berry tissue, suited for next generation RNA sequencing <i>M. Rienth, L. Torregrosa, M. Ardisson, R. De Marchi and C. Romieu</i>	247
Validation by isolation and expression analyses of the mitogen-activated protein kinase gene family in the grapevine ( <i>Vitis vinifera</i> L.) <i>G. Wang, A. Lovato, Y.-H. Liang, M. Wang, F. Chen, G.B. Tornielli, A. Polverari, M. Pezzotti and Z.-M. Cheng</i>	255
Influence of retained node number on Sauvignon Blanc grapevine vegetative growth and yield <i>M.M. Greven, J.S. Bennett and S.M. Neal</i>	263
Variability of mesophyll conductance in grapevine cultivars under water stress conditions in relation to leaf anatomy and water use efficiency <i>M. Tomás, H. Medrano, E. Brugnoli, J.M. Escalona, S. Martorell, A. Pou, M. Ribas-Carbó and J. Flexas</i>	272
Involvement of berry hormonal content in the response to pre- and post-veraison water deficit in different grapevine ( <i>Vitis vinifera</i> L.) cultivars <i>M. Niculcea, J. López, M. Sánchez-Díaz and M. Carmen Antolín</i>	281
Application of Cabrio (a.i. pyraclostrobin) at flowering and veraison reduces the severity of bitter rot ( <i>Greeneria uvicola</i> ) and ripe rot ( <i>Colletotrichum acutatum</i> ) of grapes <i>S.K. Samuelian, L.A. Greer, S. Savocchia and C.C. Steel</i>	292
Measurement of the concentration of nutrients in grapevine petioles by attenuated total reflectance Fourier transform infrared spectroscopy and chemometrics <i>J.P. Smith, L.M. Schmidtke, M.C. Müller and B.P. Holzapfel</i>	299
Biochemical and physiological responses of two grapevine rootstock genotypes to drought and salt treatments <i>F. Meggio, B. Prinsi, A.S. Negri, G. Simone Di Lorenzo, G. Lucchini, A. Pitacco, O. Failla, A. Scienza, M. Cocucci and L. Espen</i>	310
Comparative ampelographic and genetic analysis of grapevine cultivars from Algeria and Morocco <i>L.H. Zinelabidine, Z. Laiadi, R. Benmehaia, P. Gago, S. Boso, J.L. Santiago, A. Haddioui, J. Ibáñez, J.M. Martínez-Zapater and M.C. Martínez</i>	324