

Where there are two or more authors listed, the corresponding author's name is underlined.

Environment, vine physiology and vineyard management

7. Vine nutrition: a diagnostic smartphone app for vine nutritional disorders

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8. Which grapevine rootstock performs the best for Mornington Peninsula Pinot Noir?

Dr Pangzhen Zhang¹, Yanan Fei¹, Dr Alexis Pang¹, Dr Mark Krstic², Tyson Lewis³, Cheryl Lee³, Dr Kate Howell¹, Prof. Deli Chen¹

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9. Grapes could suffocate in drought

Dr Zeyu Xiao^{1,3}, Siyang Liao^{1,2}, Dr Suzy Rogiers^{1,3,4}, Assoc. Prof. Victor Sadras^{1,2,5}, Prof. Stephen Tyerman^{1,2}

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10. A smartphone-based system to assess grapevine water status

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11. Growing super Sangiovese in the King Valley

Joel Pizzini¹, Warren Proft², Steve Lowe³, Dr Erika Winter⁴

¹Pizzini Wines, Whitfield, Vic.

²Christmont Wines, Whitfield, Vic.

³Stoney Creek Vineyard, Edi Upper, Vic.

⁴GrapeLinks, Wheelers Hill, Vic.

12. Manipulating ripening with the use of antitranspirants

Darren Fahey

NSW Department of Primary Industries, Orange, NSW

13. Rootstock and bunch position effects on Shiraz berry cell death and shrivel

Prof. Stephen Tyerman, Lishi Cai, Dr Zeyu Xiao, Chethana Shekharappa, Susan Tyerman, Wendy Sullivan, Chen Liang, Assoc. Prof. Susan Bastian, Assoc. Prof. Cassandra Collins, Assoc. Prof. David Jeffery, Dr Vinay Pagay, Dr Sunita Ramesh
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14. Are phenology models developed with European and US data useful in Australia?

Dr Dane Thomas¹, Assoc. Prof. Paul Petrie^{1,2,3,4}, Dr Peter Hayman¹

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15. Managing irrigation during dry winters to sustain yield and wine styles

Dr Marcos Bonada¹, Dr Everard Edwards², Dr Mike McCarthy¹, Gaston Sepulveda¹, Assoc. Prof. Paul Petrie¹

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16. Vascular anatomy of grape berries

Dr Zeyu Xiao^{1,2}, Dr Sabrina Chin³, Dr Rosemary White³, Dr Aude Gourieroux², Dr Vinay Pagay^{1,5}, Prof. Stephen Tyerman^{1,5}, Prof. Leigh Schmidtke^{1,2}, Dr Suzy Rogiers^{1,2,4}

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17. When do grapes stop accumulating sugar?

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18. Exploring a simple-strip approach to vineyard experiments for understanding spatial variation in treatment response

Xinxin Song¹, Dr Rob Bramley^{1,2}, Dr Katherine Evans¹

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19. Influence of canopy management on grapevine reproductive performance

Xiaoyi Wang^{1,2}, Dr Roberta De Bei², Stephen Lesefko³, Assoc. Prof. Sigfredo Fuentes⁴, Assoc. Prof. Cassandra Collins²

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20. Can we assess vine starch status non-destructively?

Dr Joanna Jones¹, Dr Alieta Eyles¹, Dr Thomas Rodemann², Dr Bob Damberg³, Prof. Dugald Close¹

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²University of Tasmania, Hobart, Tas.

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21. Developing a mobile app to estimate grape volume and colour for harvest

Dr D.M. Motiur Rahaman¹, **Assoc. Prof. Manoranjan Paul**², Prof. Leigh Schmidtke^{1,3}, Dr Lihong Zheng³, Alex Oczkowski¹

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22. Accelerating grapevine stomatal assay: from sample collection to stomatal pore measurement

Luke Millstead¹, **Dr Hiranya Jayakody**¹, Harsh Patel¹, Vihaan Kaura¹, Assoc. Prof. Paul Petrie^{1,2}, Dr Mark Whitty¹

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23. VitiCanopy 2.0: the portable new tool to assess canopy size and vineyard variability

Dr Roberta De Bei¹, Assoc. Prof. Sigfredo Fuentes², Assoc. Prof. Cassandra Collins¹

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24. PAT: making Precision Viticulture data analysis tools accessible

Christina Ratcliff, David Gobbett, Dr Rob Bramley
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25. Using multispectral imaging to predict grape maturity

Julie Tang¹, Assoc. Prof. Paul Petrie², Dr Mark Whitty¹

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26. Build a vineyard information system for individual vines from GoPro videos

Xu Wang¹, Dr Mark Whitty¹, Dr Stephen Lin²

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²Lens Immersive, North Sydney, NSW

27. Can we assess vine canopy nitrogen status non-destructively?

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Dr Thomas Rodemann², Dr Fiona Kerslake¹,
Dr Bob Damberg³

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28. Monitoring vineyard canopy structure by aerial and ground-based RGB and multispectral imagery analysis

Jingyun Ouyang¹, Assoc. Prof. Cassandra Collins¹,
Dr Roberta De Bei¹, Dr Bertram Ostendorf²

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29. Undervine cover-cropping: a sustainable vineyard management strategy that reduces herbicide use and can improve yield

Dr Thomas Lines, Assoc. Prof. Timothy Cavagnaro,
Dr Vinay Pagay, Chris Penfold
The University of Adelaide, Urrbrae, SA

30. Population sequencing reveals clonal diversity and ancestral inbreeding in the grapevine cultivar Chardonnay

Dr Michael Roach¹, Dr Dan Johnson¹, Prof. Joerg Bohlmann², Prof. Hennie van Vuuren^{2,3}, Prof. Steven Jones⁴,
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31. Does the application of horticultural products to grapes form a protective barrier against smoke taint?

Dr Julie Culbert, WenWen Jiang, Dr Mark Krstic,
Prof. Markus Herderich
The Australian Wine Research Institute, Urrbrae, SA

32. Assessment of sunburn damage in Chardonnay grapes in relation to timing of leaf removal

Dr Joanna Gambetta¹, Dr Bruno Holzapfel^{1,2}, Valentina Romat¹, Prof. Leigh Schmidtke¹

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33. Physical basis of the effect of wind farms on downstream atmospheric conditions

Diane Stewart¹, Dr Marwan Katurji²

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²University of Canterbury, Christchurch, New Zealand

34. 3D reconstructions of grape bunch architecture based on optimisation theory

Bolai Xin, Dr Mark Whitty
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35. Breeding and regional evaluation of mildew-resistant grapevines in Australia

Dr Gerhard Rossouw¹, Dr Bruno Holzapfel²,

Dr Mark Thomas¹, Dr Ian Dry¹

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36. Native insectary plants support populations of predatory arthropods for Australian vineyards

Dr Mary Retallack^{1,3}, Dr Linda Thomson²,

Emeritus Prof. Michael Keller³

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37. The vineyard soil microbiome can distinguish wine-producing regions

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The University of Melbourne, Parkville, Vic.

38. Advancement of grape maturity – comparison between contrasting varieties and regions

Wendy Cameron¹, Assoc. Prof. Sigfredo Fuentes¹,

Dr Kate Howell¹, Dr Snow Barlow¹, Assoc. Prof. Paul Petrie²

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