Crush 2024 25 - 26 September



Adelaide Convention Centre, South Australia

Program

*Program is subject to change

The Crush organisers would like to thank the following sponsors







Australian
Wine Industry
Technical Conference
& Trade Exhibition











Wine Australia











Wednesday, 25 September 2024 | Riverbank Rooms 2, 3 & 4

Chaired by Dr Christine Böttcher, CSIRO and Dr Dimitra Capone, University of Adelaide

	10:45 AM 10:55 AM	Q&A Morning Tea (25 minutes)
11	10:38 AM	Closing the loop on grape marc using insect bioconversion Chris Malcolm, Mobius Farms
10	10:31 AM	Cover crops to carbon stocks Dr Joseph Marks, University of Adelaide
9	10:24 AM	Understanding the sensory gap between no and low alcohol (NOLO) wine and traditional wine Huanhuan Li, University of Queensland
8	10:17 AM	Pruning cut position affects the susceptibility of grapevine pruning wounds to Eutypa lata and natural dieback Daniel March, University of Adelaide
7	10:10 AM	Evaluating the potential for smoke from prescribed burns to taint grapes and wine Song Yan, University of Adelaide
6	10:03 AM	Bridging the learning gap between researcher-led field trials and producers own trials. Professor Katherine Evans, University of Tasmania
5	09:56 AM	Factors affecting the formation of 'struck flint' aroma in wine Dr Toni Cordente, AWRI
4	09:49 AM	From rapid white wine shelf-life test to red wine mouthfeel prediction using the power of machine learning Yingxin Miao, University of Adelaide
3	09:42 AM	The potential use of natural compounds to manage diseases in grapevines Dr Tarita Furlan, SARDI
2	09:35 AM	Remotely sensed crop coefficients of wine grapes for precision irrigation Dr Vinay Pagay, University of Adelaide & Athena IR-Tech
1	09:10 AM	Keynote speaker + Q & A Prof. Kym Anderson, University of Adelaide
	09:00 AM	Welcome to Crush 2024 Christine Böttcher, CSIRO (WIC Reasearch Group Chair)

Wednesday, 25 September 2024 | Riverbank Rooms 2, 3 & 4

Chaired by Dr Vinod Phogat, SARDI and Dr Paul Boss, CSIRO

11:20 AM	Keynote speaker + Q & A Jean Macintyre, Pernod Ricard Winemakers
11:45 AM	Exploring the basis of drought resilience in grapevines of varying age Grace Prayogo, University of Adelaide
11:52 AM	¹³⁷ Cs analysis by gamma spectrometry as a tool for dating old wines Vasiliki Thanasi, University of Lisbon
11:59 PM	Estimating long-term water demand of grapevine in the Barossa region under current and future climate projections Dr. Vinod Phogat, SARDI
12:06 PM	Optimising the use of membrane filtration and adsorbent resin to remediate smoke tainted wine Yiming Huo, University of Adelaide
12:13 PM	Grapevines naturally infected with trunk disease pathogens as a potential source of inoculum in the vineyard Colin Starkey, Charles Sturt University
12:20 PM	Investigation of the impact of biochar application on soil carbon and nitrogen pools as well as plant water and nitrogen use efficiency in Southeast Queensland vineyard trials Kate Kingston, Griffith University
12:27 PM	Consumer acceptance of novel foods and beverages: A systematic literature review and future research agenda for the wine sector Syuzanna Mosikyan, University of Adelaide
12:34 PM	Ecosystem monitoring of scale insect and mealybug vineyard pests Dr Chris Ward, AWRI
12:41 PM	'Shaken or stirred?' Virus cocktails linked to Shiraz disease impact physiological performance and defence responses in grapevine Dr Vinay Pagay, University of Adelaide
12.48 PM	Q&A
01.00 PM	Lunch (1 hour)
	11:45 AM 11:52 AM 11:59 PM 12:06 PM 12:13 PM 12:27 PM 12:34 PM 12:41 PM 12:48 PM

Wednesday, 25 September 2024 | Riverbank Rooms 2, 3 & 4

Chaired by Dr Mango Parker, AWRI and Dr Tarita Furlan, SARDI

21	02:00 PM	Keynote speaker + Q & A Stefano Poni, Universita Cattolica del Sacro Cuore
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		Sensory and Consumer Insights of Australian Red Wines made from Non-
22	02:25 PM	Traditional, Emerging Red Grape Varieties
		Jacob Long, University of Adelaide
		Under vine living mulches improve soil physical properties on a Sodosol and
23	02:32 PM	Dermosol in Tasmania
		Philippa French, University of Tasmania
		Tracking the evolution of red wine maturation and ageing: Novel approach
24	02:39 PM	based on spectrofluorometric fingerprints
		Shuyue Fan, University of Adelaide
		Glutathione and cysteine bound disulfides as sources of 'struck flint' aroma
25	02:46 PM	compounds phenylmethanethiol and 2-furylmethanethiol in Chardonnay
25	02.46 PW	wine
		Dr Deanna Langone, AWRI
		Understanding salt uptake and accumulation in grapevines
26	02:53 PM	Dr Yue Wu, University of Adelaide
		The impact of water stress on Petri disease development in young
27	03:00 PM	grapevines
		Dr Jared Hrycan, Charles Sturt University
		Understanding the influence of shading on grapevine performance under a
28	03:07 PM	Vitivoltaic system
		Haodong (Torian) Jiang, University of Adelaide
		Source to table: Isotope analysis in irrigated agriculture and implications for
29	03:14 PM	grape origin traceability
		Dr Ellyse Bunney, CSIRO
		Controlling Brettanomyces: new approaches in wine spoilage management
30	03:21 PM	
		Yanina Giordano, University of Adelaide
	03:28 PM	Q&A
	03.201101	YW1
	03:38 PM	Afternoon Tea (25 minutes)

Wednesday, 25 September 2024 | Riverbank Rooms 2, 3 & 4

Chaired by Dr Cristian Varela, University of Adelaide and Dr Agnieszka Mierczynska-Vasilev, AWRI

31	04:05 PM	Keynote speaker + Q & A Rob Bramley, CSIRO
32	04:30 PM	Physiological events that underlie berry cell death and shrinkage Lishi Cai, University of Adelaide
33	04:37 PM	Can spinning cone column distillation and activated carbon remediate smoke taint in wine? Ysadora Mirabelli-Montan, University of Adelaide
34	04:44 PM	Boosting vineyard biodiversity: Using sound and AI for improved bird monitoring Callan Alexander, Queensland University of Technology
35	04:51 PM	How can we best use statistical methods to quantify the impact of climate change on the wine industry? A case study for Australia Dr German Puga, University of Adelaide
36	04:58 PM	Developing strategies to monitor powdery mildew resistance to fungicides in Australian vineyards Dr Ismail Ismail, SARDI
37	05:05 PM	Innovative SPE technique for analysis of polysulfides in wine and beer Yu Hou, University of Adelaide
38	05:12 PM	Grapevine root distribution and implications for water and nitrogen uptake in cover cropped vineyards Calvin Lam, Charles Sturt University
39	05:19 PM	Comparing the drought resilience traits of traditional and emerging grapevine cultivars in Australia Caoyang Wang, University of Adelaide
	05:26 PM	Q&A
	05.36 PM	Official closing of Crush Day 1 Dr Cristian Varella, University of Adelaide (Crush Planning Committee Chair)
	05:45 PM	Pre-dinner Drinks Foyer A/B Sponsored by Jacob's Creek
	06:15 PM – 09:00 PM	Crush 2023 Dinner and Awards Foyer A/B Sponsored by Jacob's Creek

Program Day 2

Thursday, 26 September 2024 | Riverbank Rooms 2, 3 & 4

11:00 AM	Morning Tea
11:30 AM	Welcome to Crush Day 2 Dr Eveline Bartowsky, ASVO, Director, Lallemand
11:35 AM	Australian research priorities Dr Paul Smith, Wine Australia, General Manager, Research and Innovation
11:55 AM	Australian wine research in a global scientific context Dr Mark Krstic, AWRI, Managing Director
12:15 PM	Wine research perspectives - opportunities Dr Chris Ford, University of Adelaide, Deputy Dean of Graduate Studies
12:35 PM	The future of the journal publishing experience and how we get there Tamara D'Mello, Wiley, Associate Publisher, Research
12:55 PM	Q&A
01:05 PM	Lunch
01:35 PM	Increasing your research impact Ashlinn Theroux, Wiley, Journals Marketing Manager
02:05 PM	Communication – the forgotten critical skill of a research professional? Libby Tedstone, Wine Australia, National Extension & Adoption Manager
02:25 PM	The rise of AI Dr. Hong Zhou, Wiley, Director of Intelligent Service Group and AI R&D
02:45 PM	Q&A
03:00 PM	Official Closing of Crush 2024
03:10 PM -	Afternoon tea
	11:30 AM 11:35 AM 11:55 AM 12:15 PM 12:35 PM 12:55 PM 01:05 PM 01:35 PM 02:05 PM 02:25 PM 02:45 PM 03:00 PM

Crush 2024 is supported and coordinated by contribution from the following:

WIC Research Group, Crush 2024 Program Committee, ASVO

WIC Research Group

Christine Böttcher (Chair)
Kerry Wilkinson
Paul Petrie
Markus Herderich

Crush 2024 Planning Committee

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Dimitra Capone (Co-Chair)
Christine Böttcher
Paul Boss
Vinod Phogat
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Mango Parker
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