Crush 2024 25 - 26 September



Primary Industries and Regions SA

DEVELOPMENT

Adelaide Convention Centre, South Australia



*Program is subject to change

The Crush organisers would like to thank the following sponsors



Program Day 1 Session 1

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

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

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

Program Day 1 Session 2 Wednesday, 25 September 2024 | Riverbank Rooms 2, 3 & 4

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

12	11:20 AM	Keynote speaker + Q & A Jean Macintyre, Pernod Ricard Winemakers
13	11:45 AM	<i>Exploring the basis of drought resilience in grapevines of varying age</i> Grace Prayogo, University of Adelaide
14	11:52 AM	¹³⁷ Cs analysis by gamma spectrometry as a tool for dating old wines Vasiliki Thanasi, University of Lisbon
15	11:59 PM	<i>Estimating long-term water demand of grapevine in the Barossa region under current and future climate projections</i> Dr. Vinod Phogat, SARDI
16	12:06 PM	Optimising the use of membrane filtration and adsorbent resin to remediate smoke tainted wine Yiming Huo, University of Adelaide
17	12:13 PM	Grapevines naturally infected with trunk disease pathogens as a potential source of inoculum in the vineyard Colin Starkey, Charles Sturt University
18	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
19	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
20	12:34 PM	<i>Ecosystem monitoring of scale insect and mealybug vineyard pests</i> Dr Chris Ward, AWRI
21	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)

Program Day 1 Session 3

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

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

	03:38 PM	Afternoon Tea (25 minutes)
	03:28 PM	Q&A
31	03:21 PM	<i>Controlling</i> Brettanomyces: <i>new approaches in wine spoilage management</i> Yanina Giordano, University of Adelaide
30	03:14 PM	<i>Source to table: Isotope analysis in irrigated agriculture and implications for grape origin traceability</i> Dr Ellyse Bunney, CSIRO
29	03:07 PM	Understanding the influence of shading on grapevine performance under a Vitivoltaic system Haodong (Torian) Jiang, University of Adelaide
28	03:00 PM	<i>The impact of water stress on Petri disease development in young grapevines</i> Dr Jared Hrycan, Charles Sturt University
27	02:53 PM	<i>Understanding salt uptake and accumulation in grapevines</i> Dr Yue Wu, University of Adelaide
26	02:46 PM	Glutathione and cysteine bound disulfides as sources of 'struck flint' aroma compounds phenylmethanethiol and 2-furylmethanethiol in Chardonnay wine Dr Deanna Langone, AWRI
25	02:39 PM	Tracking the evolution of red wine maturation and ageing: Novel approach based on spectrofluorometric fingerprints Shuyue Fan, University of Adelaide
24	02:32 PM	Under vine living mulches improve soil physical properties on a Sodosol and Dermosol in Tasmania Philippa French, University of Tasmania
23	02:25 PM	Sensory and consumer insights of Australian red wines made from non- traditional, emerging red grape varieties Jacob Long, University of Adelaide
22	02:00 PM	Keynote speaker + Q & A Stefano Poni, Universita Cattolica del Sacro Cuore

Program Day 1 Session 4

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

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

32	04:05 PM	<i>Keynote speaker + Q & A</i> Rob Bramley, robbramley.ag
33	04:30 PM	Physiological events that underlie berry cell death and shrinkage Lishi Cai, University of Adelaide
34	04:37 PM	Can spinning cone column distillation and activated carbon remediate smoke taint in wine? Ysadora Mirabelli-Montan, University of Adelaide
35	04:44 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	04:51 PM	Developing strategies to monitor powdery mildew resistance to fungicides in Australian vineyards Dr Ismail Ismail, SARDI
37	04:58 PM	<i>Innovative SPE technique for analysis of polysulfides in wine and beer</i> Yu Hou, University of Adelaide
38	05:05 PM	Grapevine root distribution and implications for water and nitrogen uptake in cover cropped vineyards Calvin Lam, Charles Sturt University
39	05:12 PM	Comparing the drought resilience traits of traditional and emerging grapevine cultivars in Australia Caoyang Wang, University of Adelaide
	05:19 PM	Q&A
	05.29 PM	<i>Official closing of Crush Day 1</i> 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
1	11:30 AM	<i>Welcome to Crush Day 2</i> Dr Eveline Bartowsky, ASVO, Director, Lallemand
2	11:35 AM	<i>Australian research priorities</i> Dr Paul Smith, Wine Australia, General Manager, Research and Innovation
3	11:55 AM	<i>Australian wine research in a global scientific context</i> Dr Mark Krstic, AWRI, Managing Director
4	12:15 PM	<i>Wine research perspectives - opportunities</i> Dr Chris Ford, University of Adelaide, Deputy Dean of Graduate Studies
5	12:35 PM	<i>The future of the journal publishing experience and how we get there</i> Tamara D'Mello, Wiley, Associate Publisher, Research
	12:55 PM	Q&A
	01:05 PM	Lunch
6	01:35 PM	<i>Increasing your research impact</i> Ashlinn Theroux, Wiley, Journals Marketing Manager
7	02:05 PM	Communication – the forgotten critical skill of a research professional? Andrew Clarke, Wine Australia, Agtech Program Manager
8	02:25 PM	<i>The rise of AI</i> 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 - 04:00 PM	Afternoon tea

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

Cristian Varela (Chair) Dimitra Capone (Co-Chair) Christine Böttcher Paul Boss Vinod Phogat Tarita Furlan Mango Parker Agnieszka Mierczynska-Vasilev Cerys Colquhoun (WIC EO)

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