Crush 2023 Wednesday, 14 June Adelaide Convention Centre, South Australia



Program

*Program is subject to change

The Crush organisers would like to thank the following sponsors













Wine **Australia**















Wednesday 14 June, 2023 **Session 1**

Chaired by Dr Dimitra Capone, UA & Dr Agnieszka Mieczynska-Vasilev, AWRI

	10:37 AM	Morning Tea	
11	10:27 AM	Session 1 Q&A	
10	10:19 AM	Vineyard resting Dr Paul Petrie, SARDI	
9	10:11 AM	Scan to learn more: A case study on enhancing wine authenticity, brand storytelling and sustainability through connected packaging Ms Irma Dupuis, UON	
8	10:03 AM	Innovative tea-flavored wine: Processing technology and mechanisms Zijian Liang, UniMelb	
7	09:55 AM	Monitoring avian diversity in vineyards using deep learning and automated acoustic recorders Mr Callan Alexander, QUT	
6	09:47 AM	Up in smoke: The effect of barrel maturation on brandies made from smoke tainted fruit Mr Hugh Holds, UA	
5	09:39 AM	LAMP assays for rapid detection of Eutypa and Botryosphaeria dieback pathogens Dr Regina Baaijens, CSU	
4	09:31 AM	The use of statistical methods to quantify the impact of climate change on grape and wine research Mr German Puga, UA	
3	09:23 AM	Improving wine yeast without the label: CRISPR-Cas9 production of non-GMO yeast with desirable winemaking characteristics Mr Joseph Rossi, AWRI	
2	09:15 AM	Under-vine cover cropping - findings and fallacies Dr Thomas Lines, UA	
1	09:10 AM	WIC Partner Dr Mark Krstic, AWRI Australian Wine Research Institute	
0	09:00 AM	<i>Welcome</i> Dr Dimitra Capone, UA	

Wednesday 14 June, 2023 Session 2

Chaired by Dr Agnieszka Mieczynska-Vasilev, AWRI & Dr Vinay Pagay, UA

12	11:10 AM	WIC Partner Prof. Kerry Wilkinson, University of Adelaide THE UNIVERSITY Of ADELAIDE	
13	11:15 AM	Fungicide resistance in Australian vineyards Dr Ismail Ismail, SARDI	
14	11:23 AM	Polysulfides and the appearance of 'reduced' wine aromas Ms Yu Hou, UA	
15	11:31 AM	Interactions of different grapevine trunk disease (GTD) pathogens within vines Ms Dyanah Amorio, CSU	
16	11:39 AM	Broadening your winemaking yeast portfolio - looking for new fermentation superstars Miss Natalia Caliani, UA	
17	11:47 AM	The Impact of high temperature on root knot nematode resistance in grapevine rootstocks Dr Harley Smith, CSIRO	
18	11:55 PM	Novel wine microbes and their influence on wine sensory attributes Dr Jin Zhang, UA	
19	12:03 PM	The genetic variability of grapevine Pinot gris virus (GPGV) in Australia Miss Kamalpreet Kaur, AgVIC	
20	12:11 PM	Interaction of rootstock and soil microbiome on grapevine stress response and grape metabolites in Vitis vinifera L cv. Pinot noir Mr Yipeng Chen, UniMelb	
21	12.19 PM	Remediation of smoke tainted wine using molecularly imprinted polymers Mr Yiming Huo, UA	
22	12.27 PM	A combined ultrafiltration/heat/protease treatment for protein stabilisation of white wine Dr Eva Sui, AWRI	
23	12:35 PM	Session 2 Q&A	
	12:45 PM	Lunch	

Wednesday 14 June, 2023

Session 3

Chaired by Dr Rob Bramley, CSIRO & Dr Ismail Ismail, SARDI

24	01:45 PM	WIC Partner Dr Rob Bramley, CSIRO		
25	01:50 PM	Keynote speaker + Q&A Peter Hayes AM, Wine Sector Strategist and Overseer of Innovation		
26	02:30 PM	Evaluating the risk of infection by grapevine trunk disease pathogens in spring Dr Mark Sosnowski, SARDI		
27	02:38 PM	Activated carbon fabric: A promising strategy for mitigation of smoke taint in the vineyard Miss Tingting Shi, UA		
28	02:46 PM	Changes in Cu fractions and riboflavin concentration in white wines: Impacts of oxygen and bottle colour during short-term light exposure Miss Isara Vongluanngam, CSU		
29	02:54 PM	Cumulative effects of shoot thinning on reproductive performance of Semillon Dr Eva (Xiaoyi) Wang, UA		
30	03:02 PM	Limiting magnesium availability as a potential method to control Brettanomyces spoilage in wine Miss Yanina Giordano, UA		
31	03:10 PM	Malolactic fermentation performance, diacetyl formation and sensory		
32	03:18 PM	Session 3 Q&A		
	03:26 PM	Afternoon Tea		

Wednesday 14 June, 2023 Session 4

Chaired by Dr Cristian Varela, AWRI & Christine Böttcher, CSIRO

33	04:00 PM	WIC Partner Dr Paul Petrie, Principal Scientist, Viticulture, SARDI Proper paul Scientist, Viticulture, SARDI		
34	04:05 PM	All in the mouth; saliva composition, microbiome and perception of wine flavour A/Prof Kate Howell, UniMelb		
35	04:13 PM	Ultrafiltration technology for efficient winemaking Miss Stephanie Angela, UA		
36	04:21 PM	LoRaWAN soil sensors for vineyard monitoring Mr Wen-Hsiang(Denny) Hsieh, AWRI		
37	04:29 PM	Can secateurs be contaminated by GTD pathogens from infected cane? Mr Colin Starkey, CSU		
38	04:37 PM	The 1000 grapevine genomes project: Cataloguing Australia's grapevine germplasm Dr Christopher Ward, AWRI		
39	04:45 PM	Do bacteriophage influence malolactic fermentation? Miss Zhecun Xu, UA		
40	04:53 PM	A winegrape phenology model for Australia Dr Dane Thomas, SARDI		
41	05:01 PM	Defining the genomic heritage of salt tolerant rootstocks Mr Andres Zhou-Tsang, UA		
42	05:09 PM	How do under vine living mulches affect nutrition, yield, and fruit quality in cool climate vineyards? Ms Pippa French, TIA		
43	05:17 PM	Biochar in Australian vineyards Dr Vinay Pagay, UA		
44	05:25 PM	Session 4 Q&A		
45	05.35 PM	<i>Official closing</i> Dr Dimitra Capone, UA		
	05:45 PM	End of session		

05:45 PM

Pre-dinner Drinks

Hall K

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06:15 PM -09:15 PM

Crush 2023 Dinner

Hall K



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Crush 2023 is supported and coordinated by contribution from the following:

WIC members and Crush 2023 Program Committee

WIC Leadership	WIC Research Group	<u>Crush 2023</u>
<u>Group</u>		Program Committee
Peter Dawson (Chair)	Paul Petrie	Dimitra Capone (Chair)
Mark Krstic	Markus Herderich	Ismail Ismail
Martin Cole	Christine Bottcher	Marcos Bonada
Paul Boss	Kerry Wilkinson	Vinay Pagay
Tim Sutton		Christine Böttcher
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