





Host: Maurizio UGLIANO, Università di Verona Co-Hosts: Fulvio MATTIVI, Fondazione Edmund Mach; Luca ROLLE, Università di Torino



CONFERENCE PROGRAM

Preliminary version May 26th, 2021 updates on www.macrowine2021.com



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WEDNESDAY JUNE 23rd





ΤΟΡΙϹ	Grapevine diversity and viticultural practices for sustainable grape growing
1	Chairpersons: Cornelis "Kees" Van Leeuwen, Sara Zenoni, Hans Shultz
9:00	Keynote Speaker
	Steve TYERMAN - Faculty of Sciences, The University of Adelaide (Australia)
	Late ripening cell death and shrivel in Shiraz
9:30	Joanna GAMBETTA - Charles Sturt University - Faculty of Science; University of Adelaide, School of
/	Agriculture, Food and Wine; South Australian Research and Development Institute (Australia)
(5:30 pm AEST)	Defoliation timing impacts berry secondary metabolites and sunburn damage
9:45	Ross SANDERS - Australian Research Council Training Centre for Innovative Wine Production, The
15.45	University of Adelaide, and Commonwealth Scientific and Industrial Research Organisation (CSIRO)
(5:15 pm ACST)	Agriculture and Food (Australia)
,	Within-vineyard spatial variation impacts methoxypyrazine accumulation in the rachis of
10:00	cabernet sauvignon Jochen VESTNER - Institute for Viticulture and Oenology, DLR Rheinpfalz, Neustadt an der Weinstraße
10.00	(Germany)
	Sensory and chemical phenotyping of wines from a F1 grapevine population
10:15	Gabriel DOURNES - SPO, Univ Montpellier, INRAE, Institut Agro, Montpellier (France)
	First characterization of thiol precursors in Colombard and Gros Manseng: comparison of two
	cultivation practices
10:30	Davide Lucien PATONO - Dept. Agricultural, Forest and Food Sciences, University of Turin (Italy)
	Carbon isotope labeling to detect source-sink relationships in grapevines upon drought stress and re-watering
10:45	Pause
16:30	Web connection
TOPIC	Microbial ecology from vineyard to consumption
2 16:45	Chairpersons: Maret du Toit, Sandra Torriani, Kalliopi Rantsiou Keynote Speaker
10.45	Francisco CARRAU - Faculty of Chemistry, University of the Republic, Montevideo (Uruguay)
(11:45 am	Increasing autochthonous wine flavor diversity: the concept of friendly yeasts
Montevideo)	
17:15	Rafael ÁLVAREZ-RAFAEL - UMR 1083 Sciences Pour l'Oenologie, INRAE, Montpellier SupAgro,
	Montpellier (France)
17:30	Screening of aroma metabolites within a set of 90 Saccharomyces strains Fanny BORDET - University of Bourgogne Franche-Comté, AgroSup Dijon, PAM UMR, Institut
17.50	Universitaire de la Vigne et du Vin, Jules Guyot ; Lallemand SAS, Blagnac (France)
	Saccharomyces cerevisiae intraspecies differentiation by metabolomic signature and sensory
	patterns in wine
17:45	Tiziana NARDI - CREA – Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Centro
	di Ricerca Viticoltura ed Enologia, Conegliano (Italy)
10.00	Changes in grape-associated microbiome as a consequence of post-harvest withering
18:00	Carla SNYMAN - South African Grape and Wine Research Institute, Department of Viticulture and Oenology, Matieland (South Africa)
	Optimised extraction and preliminary characterisation of mannoproteins from non-
	Saccharomyces wine yeasts
18:15	Angela CORAL MEDINA - SPO, UMR, INRA, SupAgro, Université de Montpellier (France) ; School of
	Microbiology, University College Cork (Ireland)
	Influence of nitrogen source on expression of genes involved in aroma production in
18:30	Saccharomyces uvarum End of day 1 activities
1 18:30	

THURSDAY JUNE 24th

8:30 CEST Introductory talks



ΤΟΡΙϹ	Wine longevity and shelf-life
4	Chairpersons: Bruno Fedrizzi, Veronique Cheynier, Panagiotis Arapitsas
8:50	Keynote speaker Maria NIKOLANTONAKI - Institute of Vine and Wine Jules Guyot, University of Burgundy (France)
9:30	Xinyi ZHANG - National Wine and Grape Industry Centre, Charles Sturt University, Wagga Wagga (Australia)
(5:30 pm AEST)	Inhibition of reductive characters in wine by Cu-organic acids: Predicting the duration of protection
9:45	Diego SÁNCHEZ-GIMENO - Laboratory of Aroma Analsis and Oenology (LAAE), de Química
5115	Analítica, Facultad de Ciencias, Universidad de Zaragoza (Spain)
	Evaluation of three alternative strategies for the long-term remediation of reductive off-
	odours in wines
10:00	Justine LABOYRIE - Unité de recherche Oenologie, INRAE, ISVV, University of Bordeaux, Villenave
	d'Ornon (France)
	Revealing the origins of old Bordeaux wines using terpene quantification
10:15	Wessel DU TOIT - South African Grape and Wine Research Institute, Department of Viticulture and
	Oenology, Stellenbosch University (South Africa)
	Know thy enemy: oxygen or storage temperature?
10:30	Alexandre PONS - Université Bordeaux, ISVV, Unité de Recherche Œnologie, Villenave d'Ornon ;
	Seguin Moreau Cooperage, Cognac (France)
	From precursor identification to the study of the distribution of 3-methyl-2,4-nonanedione
	in red wines and spirits
10:45	Pause
16:30	Web connection
ΤΟΡΙϹ	Novel tools and strategies for precision and sustainable varietal and regional enology
3	Chairpersons: Jorge Ricardo da Silva, Pierre-Louis Teissedre, Urska Vrhovsek
16:45	Keynote Speaker
	Prof. Fernando ZAMORA - Universitat Rovira i Virgili, Tarragona (Spain)
	How can we reduce the use of Sulphur dioxide in winemaking without compromising its
	quality?
17:15	Giovanni LUZZINI - University of Verona (Italy)
	From vineyard to bottle. Rationalizing grape compositional drivers of the expression of
	Valpolicella aroma 'terroir'
17:30	Encarna GÓMEZ-PLAZA - University of Murcia (Spain)
	The effect of ultrasounds in Syrah wine quality is not dependent on the ripening or sanitary
	status of the grapes
17:45	Alberto DE ISEPPI - Department of Agronomy, Food, Natural Resources, Animals and Environment
	(DAFNAE), University of Padova (Italy)
	The valorization of wine lees as a source of mannoproteins for food and wine applications
18:00	Kiera NAREECE LAMBRECHT - Stellenbosch University, SAGWRI, Department of Viticulture and
	Oenology (South Africa)
() · -	In line monitoring of red wine fermentations using IR spectroscopy
18:15	Anita OBERHOLSTER - Department of Viticulture and Enology, University of California, Davis (United
(9:15 am PDT)	States of America)
	Evaluation of the impact of different amelioration techniques on the chemical composition
40.00	and sensory characteristics of smoke impacted wines
18:30	End of day 2 activities

FRIDAY JUNE 25th

Introductory talks 8:30 CEST



TOPIC 5	Chemical diversity of 'special' wine styles: fortified wines, passito style, botrytized and ice wines, orange wines, sparkling wines Chairpersons: Matteo Marangon, Dietmar Krautwurst, Leigh Schmidtke
8:50	Keynote speaker Philippe DARRIET - ISVV Institute of Vine and Wine Science, University of Bordeaux, Villenave d'Ornon (France)
9:30	Rafael APOLINAR-VALIENTE - UMR-1208/IATE, Montpellier SupAgro (France) New acacia gums fractions: how their features affect the foamability of sparkling base wines?
ΤΟΡΙϹ	Physiology of chemosensory perception, sensory science, consumers perception
6	Chairpersons: Matteo Marangon, Dietmar Krautwurst, Leigh Schmidtke
9:45	Keynote speaker Alejandro GIORGETTI – Laboratory of Applied Bioinformatics, University of Verona (Italy)
10:15	Marie LE SCANFF - Unité de recherche Œnologie, INRA, ISVV, Université de Bordeaux, Villenave d'Ornon (France) Understanding sweetness of dry wines: first evidence of astilbin isomers in red wines and quantitation in a one-century range of vintages
10:30	Elisabetta PITTARI - Dept. Agricultural Science, University of Naples Federico II (Italy) Effect of oenological tannins on wine aroma before and after oxidation: a real-time study by coupling sensory (TDS) and chemical (PTR-ToF-MS) analyses
10:45	Maria-Pilar SAENZ-NAVAJAS –Instituto de Ciencias de la Vid y del Vino (UR-CSIC-GR), Department of enology, Logroño, La Rioja (Spain) A new approach for sensory characterization of grape. Relationship with chemical composition
11:00	Marc WEBER - DLR Rheinpfalz, Neustadt (Germany)
	European consumer preference for wines made from fungus resistant grape varieties
11:15	End of day 3 activities

MONDAY JUNE 28th

8:30 CEST Introductory talks



	ns: Melane Vivier, Thierry Doco, Claudio Lovisolo
	ry flash talks
8:40	Cornelis VAN LEEUWEN - EGFV, Univ. Bordeaux, Bordeaux Sciences Agro, INRAE, ISVV, 33882 Villenave
	d'Ornon, France
	Temperature variability inside a wine production area and its effect on vine phenology and grape ripening. An example from the Saint-Emilion-Pomerol
8:47	Giorgio GAMBINO - Institute for Sustainable Plant Protection, National Research Council (IPSP-CNR) Torino
0.47	(Italy)
	Genetic traceability of 'Nebbiolo' musts and wines by single nucleotide polymorphism (SNP) genotyping assays
8:54	Pavel SOLOVYEV - Fondazione Edmund Mach (FEM), San Michele all'Adige (Italy)
	NMR profiling of grape musts from some Italian regions
9:01	Ruchira RANAWEERA - Department of Wine Science, The University of Adelaide (Australia)
	Fluorescence spectroscopy with XGBoost discriminant analysis for intraregional wine authentication
9:08	Marianthi BASALEKOU - University of West Attica (Greece)
	Neural networks and FT-IR spectroscopy for the discrimination of single varietal and blended wines. A
	preliminary study
9:15	Thomas BAERENZUNG dit BARON - PPGV, INP-PURPAN, University of Toulouse (France)
	Insights from Selected Ion Flow Tube Mass Spectrometry (SIFT-MS) and chemometrics applied to the quick
0.22	discrimination of grapevine varieties
9:22	Diana BELLIN - Department of Biotechnology, University of Verona (Italy)
	Understanding the genetic determinism of phenological and quality traits in 'Corvina' grape variety for selection of improved genotypes
9:30	
9.30	Comments from Panelists - Discussion
10:30	Pause
16:30	Web connection
16:30 ROUND TA	Web connection BLE #2 - Shelf-life, winemaking and packaging: quality vs. appearance
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TUESDAY JUNE 29th

8:30 CEST Introductory talks



ROUND TABL	E #3 - Advances in vinification processes, novel compounds and novel reactions	
Chairpersons: Liz Waters, Angelita Gambuti, Andrew Clark		
Introductory flash talks		
8:40	Bahareh SARMADI - School of Chemical Sciences, University of Auckland (New Zealand)	
(6:40 pm NZST)	Measuring elemental sulfur in grape juice in relation to varietal thiol formation in Sauvignon blanc wines	
8:47	Xingchen WANG - Department of Wine Science and Waite Research Institute, The University of Adelaide (Australia)	
(3:17 pm ACST)	Alternative fate of varietal thiols in wine: identification, formation, and enantiomeric distribution of novel 1,3-oxathianes	
8:54	Susanne DEKKER - Edmund Mach Foundation (Italy) Chemical and biochemical formation of polysulfides in synthetic and real wines using UHPLC-HRMS	
9:01	Marie Sarah EVERS - University of Bourgogne Franche-Comté, AgroSup Dijon, VAlMiS-Institut Universitaire de la Vigne et du Vin, Dijon; Sofralab, Magenta (France) The role and quantification of vitamins in wine: what do we know?	
9:08	Léa DELCROS - MHCS, Comité Champagne, Epernay (France) First identification of a glycosylated fraction involved in mushroom-off-flavor in grapes: influence of <i>B. cinerea</i> , powdery mildew and <i>C. subabruptus</i>	
9:15	Edward BREARLEY-SMITH - Department of Agronomy, Food, Natural Resources, Animals and Environment, University of Padova (Italy) Macromolecular characterization of disease resistant red wine varieties (PIWI)	
9:22	Matteo BORDIGA - Department of Pharmaceutical Sciences, Università degli Studi del Piemonte Orientale "A. Avogadro", Novara (Italy) Oligosaccharides from Vitis vinifera grape seeds: a focus on gentianose as a novel bioactive compound	
9:30	Comments from Panelists - Discussion	
10:30	Pause	
16:30	Web connection	
	E #4 - Yeast, bacterial and plant resources for sustainable winemaking processes Herve Alexandre, Laurent Torregrosa, Gianbattista Tornielli	
	Introductory flash talks	
16:40	flash talks	
10.40		
10.40	Flash talks Rocio ESCRIBANO VIANA - ICVV, Instituto de Ciencias de la Vid y el Vino, University of La Rioja (Spain) Bioprotective effect of non-Saccharomyces yeasts in wines made without SO2	
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WEDNESDAY JUNE 30th

8:30 CEST Introductory talks



ROUND TABL	E #5 - Wine sensory descriptors in a globalized market	
Chairpersons: Uli Fisher, Vincenzo Gerbi, Giusi Parpinello		
Introductory flash talks		
8:40	Andrea VERSARI - Università degli Studi di Bologna (Italy)	
	Prediction of astringency in red wine using tribology approach to study in-mouth perception	
8:47	Alejandro SUÁREZ - Instituto de Ciencias de la Vid y del Vino (CSIC-UR-GR), La Rioja (Spain)	
	Effect of culture and familiarity on wine perception: a study with Spanish and British wine experts	
8:54	Dimitra L. CAPONE - Australian Research Council Training Centre for Innovative Wine Production, The	
	University of Adelaide (Australia)	
	Chemical and sensory diversity of regional Cabernet sauvignon wines	
9:01	Wen MA - School of Food & Wine, Ningxia University (P. R. China)	
(15:01 Beijing)	Chinese localization of wine aroma descriptors	
9:08	Edouard PELONNIER-MAGIMEL - Unité de Recherche Œnologie, EA 4577, USC 1366 INRAE Villenave	
	d'Ornon (France)	
	Sensory profile: a tool to characterize originality of wines produced without sulfites	
9:15	Matija LESKOVIĆ - South African Grape and Wine Research Institute, Department Viticulture and Oenology,	
	University of Stellenbosch, Matieland (South Africa)	
	Long-term sensorial and compositional effects of copper fining on the wine containing 'reductive' and	
	'tropical' volatile sulfur compounds	
9:22	Keren BINDON – The Australian Wine Research Institute, Glen Osmond (Australia)	
(4:52 pm ACST)	Whole bunch fermentation: adding complexity, or just making 'green' wine?	
9:30	Comments from Panelists - Discussion	
10:30	End of the congress	