



**ICGBBG**

XII International Conference on  
GRAPEVINE BREEDING and GENETICS

July 15-20, 2018  
Bordeaux FRANCE

## CONFERENCE PROGRAM

### July 15, Sunday

17:00-20:30	Registration and welcome reception at <b>Cité du Vin (Bordeaux)</b>
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### July 16, Monday

8:00-9:00	Registration and poster installation	
9:00-10:00	<b>Opening ceremony</b>	
10:00-10:40	<b>Opening lecture</b> : Antoine Kremer, INRA Bordeaux, France Adaptation to environment: lessons from tree genetics	
<b>Session 1 : Breeding, consumers and markets</b> Chair : Mark Krstic		
10:40-11:10	<b>Keynote lecture</b> : Hervé Hannin, SupAgro Montpellier, France Breeding, consumers and market issues : main evolutions in the vine and wine industry	O1
11:10-11:25	Yann Raineau Resistant varieties and market receptiveness: An assessment using experimental auctions	O2
11:25-11:40	Luigi Bavaresco Impact of grapevine breeding for disease resistance in world wine industry	O3
11:40-11:55	François Delmotte OSCAR, A national observatory to support the deployment of new grapevine disease-resistant varieties in France	O4
11:55-14:00	Lunch + Poster session	
<b>Session 2 : Genetic resources and breeding</b> Chair : Erika Maul		
14:00-14:40	<b>Keynote lecture</b> : Bruce Reisch (Cornell University, USA) Genetic resources and breeding: current status and shifting paradigms	O5
14:40-14:55	Goran Zdunic Inventory and descriptions of wild grapevine ( <i>Vitis vinifera</i> subsp. <i>silvestris</i> ) from Slovenia, Croatia and Bosnia and Herzegovina	O6
14:55-15:10	Pilar Gago Successfully amplification of ancient DNA from Clemente's herbarium (1803-1804)	O7
15:10-15:25	Erika Maul Preservation via utilization: minor grape varieties on-farm	O8

15:25-15:40	Patricia Leao Genetic resources for table grape breeding in the Brazilian tropical semi-arid region	O9
15:40-15:55	Carmina Gisbert Recovering ancient grapevines varieties in the Spanish provinces of Alicante and Valencia	O10
15:55-16:10	Silvia Vezzulli The FEM grapevine breeding program for downy and powdery mildew resistances: Towards a green viticulture	O11
16:10-16:25	Ross Bicknell Exploring the use of transposon mobilisation to produce a gene-tagged population for grapevine	O12
16:30-19:00	Coffee break + Poster session	
17:00-19:00	<b>IGGP steering committee</b>	p294

### July 17, Tuesday

Session 2 (continued) : Genetic resources and breeding		
Chair : Elisa Marguerit		
8:30-8:45	Darko Preiner Synthesis of grapevine chimeras	O13
8:45-9:00	Carolina Royo Characterization of deletions causing berry color variation in Garnacha and Tempranillo	O14
9:00-9:15	Jingguo Fang A successful molecular design breeding practice for grape coloring trait based on MYB haplotypes	O15
9:15-9:30	Dalbo Marco Rootstocks breeding for resistance to grapevine decline and dieback in southern Brazil	O16
9:30-9:45	Guido Cipriani Pyramidizing resistance genes in grape: a breeding program for the selection of 'elite' cultivars	O17
9:45-10:00	Laurent Audeguin Breeding programs : the new role of IFV and its department Geno-Vigne® as a national technical institute	O18
10:00-10:30	Coffee break	
Session 3 : Classical breeding and NBT		
Chair : Bruno Mezzetti		
10:30-11:10	<b>Keynote lecture</b> : Zhenchang Liang (Institute Botany Beijing, China) The future of grape breeding: theory and technology	O19
11:10-11:25	Christophe Schneider Inra-ResDur : the French grapevine breeding program for durable resistance to downy and powdery mildew	O20
11:25-11:40	Soon-Chun Jeong Identification of haplotypes controlling seedless by genome resequencing of grape	O21
11:40-11:55	Irene Perrone Molecular mechanisms behind the somatic embryogenesis process in grapevine: from key transcripts to epigenetic signature	O22
11:55-12:10	Lisa Giacomelli Generation of mildew-resistant grapevine clones via genome editing	O23
12:10-14:00	Lunch + Poster session	

Session 4 : Genomics and data handling		
Chair : Mario Pezzotti		
<b>Keynote lecture</b> : Dario Cantu (UC Davis, USA)		
14:00-14:40	Uncovering the wealth of grapevine genetic diversity through whole genome sequencing and assembly	O24
Diana Bellin		
14:40-14:55	An integrated meta-QTL and transcriptomic data mining approach to select candidates controlling veraison time in grapevine	O25
Islam El-Sharkawy		
14:55-15:10	The first version of the Whole-Genome Sequencing (WGS) and assembly of the Muscadine grape, <i>Muscadinia rotundifolia</i> cv. Noble	O26
Timothée Flutre		
15:10-15:25	Genome-wide association study of a diverse grapevine panel to uncover the genetic architecture of numerous traits of interest	O27
Marianna Fasoli		
15:25-15:40	Unraveling the key molecular events of grape berry ripening under varying crop loads	O28
Yann Dussert		
15:40-15:55	Adaptation of downy mildew to grapevine partial resistance	O29
Alessandro Vannozzi		
15:55-16:10	The combined role of WRKY and MYB TFs in the regulation of stilbene synthase genes in grapevine ( <i>Vitis vinifera</i> L.)	O30
Mario Pezzotti		
16:10-16:30	The COST Integrate Data integration to maximise the power of omics for grapevine improvement	p295
16:30-19:00 Coffee break + Poster session		
<b>Phenotyping workshop (Reinhard Töpfer)</b>		
17:00-19:00		p296

### July 18, Wednesday

Session 5 : Phenotyping and genotyping		
Chair : Melane Vivier		
<b>Keynote lecture</b> : Reinhard Töpfer (JKI Siebeldingen, Germany)		
08:30-09:10	Sensor based phenotyping for grapevine breeding and genetic analyses	O31
Manna Crespan		
09:10-09:25	Extensive genotyping of a large collection of rootstocks, population structure analysis and core collection extrapolation for new breeding programs	O32
Anna Schneider		
09:25-09:40	Few main parents contributed to traditional variety assortment in north western Italy as revealed by microsatellites and SNPs	O33
Chin-Feng Hwang		
09:40-09:55	QTL mapping of downy mildew and botrytis bunch rot resistance in a <i>Vitis aestivalis</i> -derived 'Norton'-based population	O34
Didier Merdinoglu		
09:55-10:10	Variation of recombination rate along the genome in <i>Vitis vinifera</i> x <i>Vitis rotundifolia</i> interspecific hybrids	O35
10:10-10:40 Coffee break		
Anna Kicherer		
10:40-10:55	Phenoliner: a multi-sensor field phenotyping platform	O36
Paola Barba		
10:55-11:10	Combining high throughput genotyping and phenotyping for the genetic improvement of table grapes in Chile	O37
<b>A tribute to Alain Bouquet</b>		
11:10-12:10		

12:10-13:30	Lunch + Poster session
13:30	Bus transfer to ISVV Bordeaux-Aquitaine (Villenave d'Ornon)
14:00-14:20	<b>GBG 2018 official photo</b>
14:30-19:00	<b>Field trip and visit of wine estates</b>
19:00	Bus back to ENSEIRB-MATMECA (Talence)

### July 19, Thursday

Session 6 : Vine growth and development		
Chair: Anne Fennell		
9:00-9:40	<b>Keynote lecture</b> : José Miguel Martínez-Zapater (ICVV Logrono, Spain) Genetic variation for grapevine reproductive development	O38
9:40-9:55	Anne Fennell Mapping the genetic architecture of grapevine bud dormancy and chilling fulfillment traits	O39
9:55-10:10	Etti Or Ethylene-induced macromolecule catabolism - the switch required for bud meristem growth resumption?	O40
10:10-10:25	Sabine Guillaumie Dissecting the control of shoot growth in grapevine : genetics and genomics identify potential regulators	O41
10:25-10:55	Coffee break	
10:55-11:10	Anna Schwandner Determination of genetic loci in the control network of grapevine flowering	O42
11:10-11:25	Javier Ibanez Characterization of the reproductive performance of a collection of grapevine varieties	O43
11:25-11:40	Eva Zyprian Molecular analysis of bunch architecture in grapevine	O44
11:40-11:55	Sarah Jane Cookson Understanding scion/rootstock interactions at the graft interface of grapevine	O45
11:55-12:10	Grant Cramer A transcriptomic comparison of late-ripening Cabernet Sauvignon berry skins from Bordeaux and Reno	O46
12:10-14:00	Lunch + Poster session	
Session 7 : Berry yield and composition		
Chair : Jeff Bennett		
14:00-14:40	<b>Keynote lecture</b> : Sara Zenoni (University of Verona, Italy) Genetic dissection of grape berry ripening and composition	O47
14:40-14:55	Johan Burger Can transcriptomics shed light on the "old-vine" character of wines?	O48
14:55-15:10	Charles Romieu Diversity of condensed tannins in a large collection of Vitaceae	O49
15:10-15:25	Rosa Arroyo-Garcia Berry skin development in wild grapevine ( <i>Vitis vinifera</i> L ssp <i>sylvestris</i> ): Distinct patterns of gene expression	O50
15:25-15:40	Chiara Pagliarani Clone-specific transcript profiling of 'Nebbiolo' grape berries unveils environmental responses mediated by sugar and secondary metabolite signalling	O51
15:40-16:10	Coffee break	

16:10-16:25	Pablo Carbonell-Bejerano Grape color variation involves genetic and micro-environmental changes that alter berry phenolic and aromatic composition	O52
16:25-16:40	Gan-Yuan Zhong Genomic and transcriptomic analyses of the 'Concord' grape revealed a novel molecular mechanism in the regulation of a 'foxy' flavor gene in <i>Vitis</i> species	O53
16:40-16:55	Thuy-Thanh Truong Genetic analysis of grapevine secondary metabolism using non-targeted metabolomics	O54
17:30	Bus departure to gala dinner	
19:30	<b>Gala dinner at Château Giscours</b>	
23:00	Bus back to Bordeaux downtown	

## July 20, Friday

<b>Session 8 : Breeding and adaptation to abiotic stress</b> Chair : Grant Cramer		
9:00-9:40	<b>Keynote lecture</b> : Nathalie Ollat (INRA Bordeaux, France) Grapevine adaptation to abiotic stresses: an overview	O55
9:40-9:55	Jack Dunlevy Identification of loci and genes responsible for sodium and chloride ion exclusion in grapevine rootstocks for use in marker assisted selection	O56
9:55-10:10	Noé Cochetel In grafted grapevines, physiological, transcriptional and hormonal responses to nutrient availability are strongly influenced by the rootstock genetic background	O57
10:10-10:25	Jason Londo Phenotypic deconstruction of dormant bud winter hardiness in grapevine	O58
10:25-10:55	Coffee break	
10:55-11:10	Lijun Wang Global proteome analyses of phosphorylation and lysine acetylation reveal new insight into alternative splicing, photosynthesis and HSPs in grape response to heat	O59
<b>Session 9 : Breeding and adaptation to biotic stress</b> Chair : Eva Zyprian		
11:10-11:50	<b>Keynote lecture</b> : Lance Cadle-Davidson (USDA-ARS, Geneva, USA) A perspective on breeding and implementing durable powdery mildew resistance	O60
11:50-12:05	Ian Dry Investigations into the mechanisms of activation of the MrRUN1 and MrRPV1 resistance proteins and the signal transduction pathways leading to resistance to grapevine powdery and downy mildew	O61
12:05-12:20	Guillaume Barnabé Organization, diversity, expression and evolutionary dynamics of the NB resistance gene family in grapevine and related species	O62
12:20-14:00	Lunch + Poster session + Poster removal	
14:00-14:15	Summaira Riaz Durable powdery mildew resistance in grapevines: myth or reality?	O63
14:15-14:30	Giulia Malacarne The Rpv3-3 locus and stilbenoid induction mediate downy mildew resistance in a grapevine inter-specific population	O64
14:30-14:45	Jiang Lu The <i>Plasmopara viticola</i> candidate effector PvrXLR131 interacts with a plant Brassinosteroid and ERECTA receptor kinases	O65
14:45-15:00	Annalisa Polverari Differential responsiveness of ATL156 promoters from <i>Vitis riparia</i> and <i>Vitis vinifera</i> towards defense-related stimuli and transcription factors	O66

15:00-15:15	Subtilisin-like proteins and lipid signaling events: the missing links in grapevine resistance to <i>P. viticola</i>	Andreia Figueiredo	O67
15:15-15:30	The molecular dialogue between grapevine inflorescence/berry and <i>Botrytis cinerea</i> during initial, quiescent, and egression infection stages	Claudio Moser	O68
15:30-16:00	Coffee break		
16:00-16:15	Contrasting susceptibilities to Flavescence dorée in wild <i>Vitis</i> species, <i>Vitis vinifera</i> cultivars and progenies suggest segregation of genetic traits involved in disease response	Sandrine Eveillard	O69
16:15-16:30	Control of the grapevine moth <i>Lobesia botrana</i> through the genetic engineering manipulation of the host plant's volatiles	Mickael Malnoy	O70
16:30-16:45	Living on the edge: the narrow genetic base of the rootstocks is a serious threat	Daniel Pap	O71
16:45-18:00	<b>Poster awards, conclusions and GBG 2022</b>		
18:00	End of the conference		