



Scientific Program

Monday March 19th 2018

7h30	Registration & welcome break (poster hanging)
9h30	Welcome talks by EUCARPIA cereal chairman and organizers
10h10	Introductory talk: Raphaël DUMAIN (Bayer - Germany)
Session I. Characterization and use of genetic resources (10h50-14h55)	
10h50	Keynote speaker: Andreas GRANER (IPK - Germany)
11h30	Davide GUERRA (CREA - Italy): Studying the genetic basis of barley adaptation to contrasting environments in the WHEALBI collection
11h55	Ernesto IGARTUA (EEAD-CSIC - Spain): Association with high-resolution climate data reveals selection footprints in the genomes of barley landraces across the Iberian Peninsula
Lunch break 12h30 - 14h00	
14h00	Marco MACCAFERRI (U Bologna - Italy): SNP-based characterization of a wide collection of tetraploid wheat reveals extensive domestication sweeps and haplotypes associated to traits of breeding interest
14h25	Helmy M YOUSSEF (IPK - Germany): Natural Diversity of Inflorescence Architecture Traces Cryptic Domestication Genes in Barley (<i>Hordeum vulgare L.</i>)
14h40	Constance LAVERGNE (U Nottingham - UK): Introduction of <i>Aegilops sharonensis</i> cytoplasm into common wheat and production of addition / wheat – <i>Ae. sharonensis</i> lines translocation lines
Session II. Genomics and epigenomics in the post sequence era (14h55-17h50)	
14h55	Keynote speaker: Scott Allen JACKSON (U Georgia - USA)
15h35	Luigi CATTIVELLI (CREA - Italy): Durum wheat genome reveals the signature of 10,000 years of selection
Coffee break & poster session 16h00 - 16h30	
16h30	Caroline JUERY (INRA GDEC - France): Linking genomic and epigenomic features in hexaploid wheat genome.
16h55	Cécile MONAT (IPK - Germany): Hi-C and chromosome-scale assembly to detect large chromosomal rearrangements in wheat genomes

17h20	Maria BUERSTMAYR (BOKU - Austria): High-resolution mapping of the pericentromeric region on wheat chromosome arm 5AS harboring the Fusarium head blight resistance QTL Qfhs.ifa-5A
17h35	Romain DE OLIVEIRA (INRA GDEC - France): Deciphering Structural Variations in the Wheat Genome Using Resequencing Data
18h30	<i>Cocktail at the Clermont-Ferrand city hall (until ~20h00)</i>

Tuesday March 20th 2018

Session III. Yield potential and resource efficiency (8h30-11h30)	
8h30	Keynote speaker: John FOULKES (U Nottingham - UK)
9h10	Bruno CONTRERAS-MOREIRA (ADES-CSIC - Spain): Agronomic advantage of presence of PpdH2 in winter barleys proven through a natural selection approach using GBS in pools of field-grown populations
9h35	Gaëtan TOUZY (Arvalis - France): Improving Water Use Efficiency in Bread Wheat by Multi-trait multi-Environment Genome-Wide Association Studies.
10h00	Eric OBER (NIAB - UK): Implementing large-scale field phenotyping in genomic selection to accelerate wheat breeding
<i>Coffee break & poster session 10h30 - 11h00</i>	
11h00	Kerstin NEUMANN (IPK - Germany): Non-invasive phenotyping reveals stress-adaptive and constitutive biomass QTL in cereals
11h15	Ulrike LOHWASSER (IPK - Germany): Searching for Frost Tolerance in Wheat (<i>Triticum aestivum</i> L.) – A genome wide association study
Session IV. Improving tolerance to biotic and abiotic stress (11h30-16h00)	
11h30	Keynote speaker: Heribert HIRT (KAUST - Saudia Arabia)
12h10	Ewen MULLINS (Teagasc - Ireland): Intensive field phenotyping to support breeding initiatives against septoria tritici blotch (STB) disease of wheat
<i>Lunch break 12h30 - 14h00</i>	
14h00	Yvan MOËNNE-LOCCOZ (U Lyon - France): Interactions of plant-beneficial rhizosphere bacteria according to cereal genotype
14h25	Laetitia WILLOCQUET (INRA - France): Developing phenotyping methods for quantitative host plant resistance using simulation modelling and ROC curves
14h50	Hermann BUERSTMAYR (BOKU - Austria): Genomics assisted improvement of Fusarium head blight resistance in bread wheat, durum wheat and triticale
15h15	Javier SANCHEZ-MARTIN (U Zürich - Switzerland): GWAS Reveals New Race-Specific Resistance Genes to Powdery Mildew in Wheat
15h30	Ali NIAZ (U Leicester - UK): Novel rye-wheat translocations in <i>Thinopyrum</i> intermedium wheat introgression lines enhancing Wheat streak mosaic virus resistance
15h45	Pierre-Antoine PRECIGOUT (U Paris-Saclay- France): Questioning the sustainability of quantitative physiological resistance: epidemiological and evolutionary responses of foliar fungal pathogens to changes in wheat plant traits

Coffee break & poster session 16h00 - 16h30	
16h30	Excursion and Gala Dinner (until ~23:00)

Wednesday March 21st 2018

Session V. High quality and safe cereals for food, feed and industry (8h30-10h30)	
8h30	Keynote speaker: Tatsuya IKEDA (NARO - Japan)
9h10	Sebastian MICHEL (U Vienna - Austria): Multiple to conquer: Simultaneous selection for grain yield and baking quality in genomics-assisted wheat breeding
9h35	Suong CU (Flinders U - Australia): Genome-wide association studies of zinc, iron, copper, manganese and phosphorus in wheat (<i>Triticum aestivum L.</i>) grain and rachis at two developmental stages
10h00	Simon GRIFFITHS (JIC - UK): Biochemical and genetic analysis of arabinoxylan fibre in wheat grain.
Coffee break & poster session 10h30 - 11h00	
Session VI. Future challenges and innovations (11h00-15h30)	
11h00	Keynote speaker: Peter ROGOWSKY (INRA Lyon - France)
11h40	Fred VAN EEUWIJK (Wageningen U - The Netherlands): Statistical methodology for modelling genotype by environment interactions in QTL mapping and genomic prediction, with applications to barley and wheat
12h05	Andreas HUND (ETH Zürich - Switzerland): Zooming into GxE by means of modern field phenotyping techniques
Lunch break 12h30 - 14h00	
14h00	Friedrich LONGIN (U Hohenheim - Germany): Optimum breeding schemes for line breeding in wheat
14h25	Daniela BUSTOS-KORTS (Wageningen U - The Netherlands): A synthesis of crop growth and statistical genetic modelling to evaluate phenotyping strategies in wheat
14h40	Renaud RINCENT (INRA GDEC - France): Genomic prediction of genotype by environment interactions by coupling genetic and physiological modelling
14h55	Philipp BOEVEN (Limagrain - France): Rare and wanted! How to breed for favorable male floral traits required for hybrid wheat?
15h10	Funmi LADEJOBI (NIAB - UK): Differentially penalized regression improves genomic prediction of wheat flowering time
15h30	Concluding remarks and prizes for the three best posters
Coffee break 16h00 - 16h30	

Program of the 2nd International Wheat Innovation Workshop (IWIW2) to be held on Tuesday March 22nd 2018, is available on the event website:

<https://symposium.inra.fr/eucarpia-cereal2018/IWIW2-Program>