

**EUCARPIA**

29 Aug – 1 Sep 2016  
Zurich/Switzerland



20<sup>th</sup> General Congress / **Plant Breeding: the Art of Bringing Science to Life**

## **Program**

### **Sunday 28. August, 2016**

14.00 to 20.00      Registration desk open

17.45 – 18.45      Board meeting

## Monday 29. August, 2016

8.00 – 12.00 Registration (continued)

### Opening session

Chair: Achim Walter

9.00 – 9.30 Welcome addresses  
**Lino Guzzella**, President of ETH Zurich, Switzerland  
**Bernard Lehmann**, Director of Federal Office of Agriculture, Switzerland  
**Beat Boller**, EUCARPIA President

9.30 – 10.15 **John Bradshaw**, James Hutton Institute, UK – **Introductory lecture**  
*Plant breeding: Past, present and future*

10.15 – 10.45 *Coffee break*

### Plenary Session Genomics and Bioinformatics 1

Chair: Beat Keller

Session sponsored by .....

10.45 – 11.25 **Nils Stein**, IPK Gatersleben, Germany – **Keynote lecture**  
*Big genomes, big data, big progress? What is the impact of access to reference genome sequences in barley, wheat and rye?*

11.25 – 11.45 **Yonatan Elkind**, The Hebrew University of Jerusalem, Israel  
*Genomic assisted selection and classical plant breeding – synergy or competition?*

11.45 – 12.00 **Coraline Praz**, University of Zurich, Switzerland  
*Transcriptomics to understand host adaptation in cereals powdery mildews*

12.00 – 12.15 **Verena Knorst**, Agroscope, Switzerland  
*Wisdom of crowds: pooled sequencing identifies genomic regions associated with disease resistance in ryegrass*

12.15 – 12.30 **Martin Mascher**, IPK Gatersleben, Germany  
*BARLEX – the barley draft genome explorer*

12.30 – 13.45 *Lunch*

### Plenary Session Genomics and Bioinformatics 2

Chair: Bruno Studer

13.45 – 14.25 **Torben Asp**, Aarhus University, Denmark – **Keynote lecture**  
*Towards genomic selection in an outbreeding crop, perennial ryegrass*

14.25 – 14.45 **Daniela Bustos-Korts**, Wageningen UR, The Netherlands  
*Integrating high-throughput phenotyping technologies in a multi-trait genomic prediction model*

- 14.45 – 15.00 **Vincent Garin**, Wageningen UR, The Netherlands  
*QTL detection in multi-parent population using different types of QTL effects and cross specific residual terms models*
- 15.00 – 15.15 **Carine Rizzolatti**, Syngenta, France  
*Molecular characterization of the cytoplasmic male sterility system underlying the breeding and production of hybrid hybrids in barley*
- 15.15 – 15.30 **Rianne Van Binsbergen**, Wageningen UR, The Netherlands  
*Utilizing low-coverage sequence data in tomato recombinant inbred lines (*S. lycopersicum* x *S. pimpinellifolium*)*
- 15.30 – 16.00 *Coffee break*

## **Plenary Session Stress tolerance 1 (abiotic stress)**

Chair: Michele Stanca

- 16.00 – 16.40 **Delphine Fleury**, Australian Centre for Plant Functional Genomics, Australia – **Keynote lecture**  
*Making genotype x environment interaction accessible to breeding for drought resistance*
- 16.40 – 17.00 **Edith Lammerts van Bueren**, Louis Bolk Institute, The Netherlands  
*Obstacles and challenges when breeding for nitrogen use efficiency in vegetable crops*
- 17.00 – 17.15 **Ulrike Lohwasser**, IPK Gatersleben, Germany  
*Genome wide association mapping approach searching for frost tolerance in wheat (*Triticum aestivum* L.)*
- 17.15 – 17.30 **Ivo Rieu**, Radboud University, The Netherlands  
*Tomato likes it hot, but pollen not - understanding heat-tolerance of male fertility in tomato*
- 17.30 – 17.45 **Matthias Wissuwa**, JIRCAS, Japan  
*Pup1 and beyond: Developing rice adapted to infertile soils in Africa*

## **Flash presentations (cross-cutting topics)**

Chair: Andreas Hund

- 17.45 – 18.30 Flash presentations of 3 min. each; corresponding posters will be displayed in the following poster session
- Kobi Baruch**, NR Gene, Israel  
*Better breeding decision using high throughput de novo assembly and advanced genomic big data analytics*
- Dhaka Ram Bhandari**, Justus Liebig University, Germany  
*Localization of metabolites in plant tissues using high-resolution mass spectrometry imaging*
- Yong-Bi Fu**, Plant Gene Resources, Canada  
*A new lab guide on genotyping-by-sequencing for plant genetic diversity analysis*
- Maja Mazur**, Agricultural Institute Osijek, Croatia  
*Applying segregation distortion approach in QTL analysis of three non-BSSS doubled haploid populations in maize*
- Sara Giulia Milner**, IPK Gatersleben, Germany  
*BRIDGE: Biodiversity informatics for harnessing barley genetic diversity hosted at the genebank of IPK Gatersleben*

**Mahubjon Rahmatov**, Swedish Univ. of Agricultural Sciences, Sweden  
*Development and characterization of a new wheat-rye Robertsonian translocation with Sr59 resistance to stem rust*

**Florian Schröper**, Fraunhofer IME, Germany

*How next-generation sequencing can improve and speed up breeding of new crop varieties*

**Fahimeh Shahinnia**, IPK, Germany

*Improvement of plant growth and stress tolerance using cyanobacterial flavodiiron proteins (FDPs)*

**Chaozhi Zheng**, Wageningen UR, The Netherlands

*RABBIT: reconstructing ancestry blocks bit by bit in experimental populations*

18.30 – 19.15

Poster session – cross-cutting topics

19.15

*Welcome reception*

## Tuesday 30. August, 2016

### Plenary Session Stress tolerance 2 (biotic stress) – COST session

Chair: Richard Visser

- 8.30 – 9.10 **Richard Oliver**, Curtin University, Australia – **Keynote lecture**  
*Cause and effects; bottlenecks in the discovery and deployment of effectors and markers for the control of cereal Dothideomycete diseases*
- 9.10 – 9.30 **Bülent Uzun**, Akdeniz University, Turkey  
*Breeding pipeline for resistance to phyllody phytoplasmas in sesame*
- 9.30 – 9.45 **Claude Emmanuel Koutouan**, University of Angers, France  
*Can the variation of secondary metabolite contents be part of carrot resistance to *Alternaria dauci*?*
- 9.45 – 10.00 **Javier Sanchez**, University of Zurich, Switzerland  
*Association mapping of durable resistance to wheat powdery mildew*
- 10.00 – 10.15 **Kaile Sun**, Wageningen UR, The Netherlands  
*Down-regulation of *Arabidopsis* DND1 orthologs in potato and tomato leads to broad-spectrum resistance to late blight and powdery mildew*
- 10.15 – 10.45 *Coffee break*

### Plenary Session Secondary metabolites

Chair: Jaime Prohens

- 10.45 – 11.25 **Johann Novak**, University of Veterinary Medicine, Austria  
**Keynote lecture**  
*Optimizing plant secondary metabolite production*
- 11.25 – 11.45 **Olivier Viret**, Agroscope, Switzerland  
*Stilbenes biomarkers to breed resistant grape varieties against fungal diseases*
- 11.45 – 12.00 **Ferenc Bekes**, FBFD PTY LTD, Australia  
*Breeding less allergenic spelt wheat with low FODMAP content*
- 12.00 – 12.15 **Roland Kölliker**, Agroscope, Switzerland  
*Improving performance and tannin content of the forage legume sainfoin (*Onobrychis viciifolia*)*
- 12.15 – 12.30 **Carol Wagstaff**, University of Reading, UK  
*Using the *L. sativa* x *L. serriola* lettuce mapping population to direct breeding for flavour and nutrition*
- 12.30 – 13.45 *Lunch*

## Crop specific parallel sessions

Speakers and titles for each session available further down after the plenary program.

13.45 – 15.30	Parallel oral presentations
	<ol style="list-style-type: none"><li>1. Tuber and industrial crops – <i>Dan Milbourne</i></li><li>2. Cereals – <i>Andreas Börner</i></li><li>3. Fodder crops – <i>Dirk Reheul</i></li><li>4. Maize and Sorghum – <i>Alain Charcosset</i></li><li>5. Vegetables – <i>Yuling Bai</i></li><li>6. Fruit, Ornamentals, Medicinal, Aromatic – <i>José Vouillamoz</i></li><li>7. Legumes: Special session on occasion of the <a href="#">International Year of Pulses</a> – <i>Antonio de Ron</i></li></ol>
15.30 – 16.00	<i>Coffee break</i>
16.00 – 16.45	Parallel flash presentations
	<ol style="list-style-type: none"><li>1. Wheat – <i>Fabio Mascher</i></li><li>2. Other cereals – <i>Andreas Börner</i></li><li>3. Fodder crops and Maize – <i>Dirk Reheul</i></li><li>4. Oil and Protein (Legumes) crops <i>Bülent Uzun</i></li><li>5. Fruit, Ornamentals, Medicinal, Industrial – <i>Johan van Huylbroeck</i></li><li>6. Vegetables – <i>Yuling Bai</i></li></ol>
16.45 – 17.45	Poster session: Crop specific topics
17.45 – 18.45	EUCARPIA General assembly (for members only)
From 18.45	Free evening in Zurich

## Wednesday 31. August, 2016

### Plenary Session Phenomics 1

Chair: François Tardieu

- 8.30 – 9.10            **Matthew Reynolds**, CIMMYT, Mexico – **Keynote lecture**  
*Phenotyping for plant breeding: combining precision with throughput*
- 9.10 – 9.30            **Achim Walter**, ETH Zurich, Switzerland  
*Field Phenotyping Platform (FIP) - an automated multi sensor system for plant phenotyping in the field – first results*
- 9.30 – 9.45            **Catherine Giauffret**, INRA AgroImpact, France  
*Association mapping for transition to autotrophic growth under chilling conditions in maize*
- 9.45 – 10.00          **Chantal Le Marié**, ETH Zurich, Switzerland  
*Imaging of maize root traits in multiple field environments reveals high heritability but limited genotype-specific response to low nitrogen*
- 10.00 – 10.15        **Marvellous Zhou**, South African Sugarcane Res. Inst., South Africa  
*Ideotype based breeding for sugarcane yield: a case study of using logistic regression models to identify optimum trait combinations in different breeding populations*
- 10.15 – 10.45        Coffee break

### Plenary Session Phenomics 2

Chair: Achim Walter

- 10.45 – 11.25        **François Tardieu**, INRA Montpellier, France – **Keynote lecture**  
*Combining phenotyping, genetic analyses and crop modelling for identifying traits and alleles of tolerance*
- 11.25 – 11.45        **Jana Kholova**, Int. Crops Res. Inst. for the Semi-Arid Tropics, India  
*Enhancement of SAT agricultural production; development of trait-based environment specific breeding pipeline at ICRISAT*
- 11.45 – 12.00        **Kristina Jonaviciene**, Lithuanian Res. Centre for Agric. and Forestry  
*Modelling the growth of perennial ryegrass under water limiting conditions*
- 12.00 – 12.15        **Roberto Tuberosa**, University of Bologna, Italy  
*Whole genome QTL search for root system architecture in tetraploid wheat*
- 12.15 – 12.30        **Dina St. Clair**, University of California, Davis, USA  
*Genetics and genomics of water stress tolerance in wild tomato*
- 12-30 – 19.00        Lunch box and departure for excursions – ending at conference dinner site
- From 19.00            Conference dinner at Jucker Farm, Jona, Lake Zurich

## Thursday, 1. September, 2016

### Plenary Session Genetic resources 1 (conservation)

Chair: Beat Boller

- 8.30 – 9.10 **Ola Westengen**, University of Life Sciences, Norway  
**Keynote lecture**  
*Crops and culture: conserving the seed heritage*
- 9.10 – 9.30 **Andreas Börner**, Inst. of Plant Genetics and Crop Plant Res., Germany  
*Conservation and exploitation of plant genetic resources – the view of a Genebank manager*
- 9.30 – 9.45 **Shelagh Kell**, International Treaty on PGRFA, UK  
*Bottlenecks in the PGRFA sustainable use system: stakeholders' perspectives*
- 9.45 – 10.00 **Eva-Maria Sehr**, Austrian Institute of Technology, Austria  
*Genetic diversity of Austrian flax accessions – a case study for ex situ germplasm characterisation*
- 10.15 – 10.45 *Coffee break*

### Plenary Session Genetic resources 2 (pre-breeding)

Chair: Shelagh Kell

- 10.45 – 11.25 **Hei Leung**, IRRI, Philippines – **Keynote lecture**  
*Multi-parent populations for dissection of complex traits in rice*
- 11.25 – 11.45 **Beat Keller**, University of Zurich, Switzerland  
*Molecular diversity of fungal disease resistance genes in cereals and their applications in breeding*
- 11.45 – 12.00 **Rashed Alarfaj**, University of Reading, UK  
*QTL identification and phenotyping of strawberry fruit of an octoploid population for quality traits*
- 12.00 – 12.15 **Antoine Botrel**, Syngenta, France  
*Supervised genetic group classification for plant breeding*
- 12.15 – 12.30 **Jaime Prohens**, Universitat Politècnica de València, Spain  
*Introgressomics: a new paradigm for crop improvement and adaptation to climate change*
- 12.30 – 13.45 *Lunch*



## Plenary Session Plant-Microbe interactions

Chair: Roland Kölliker

- 13.45 – 14.25 **German Spangenberg**, DEPI Victoria, Australia – **Keynote lecture**  
*Systems biology and molecular breeding of grass-endophyte symbiota*
- 14.25 – 14.45 **Friederike Trognitz**, Austrian Institute of Technology, Austria  
*Genotype-specific seed microbiota of different wheat accessions and their functional characteristics*
- 14.45 – 15.00 **Iva Cholakova**, Hasselt University, Belgium  
*Plant-growth promoting and drought tolerance traits of bacteria isolated from highly drought resistant Pistacia terebinthus: a comparison between spring and autumn isolated communities*
- 15.00 – 15.15 **Pierre Hohmann**, Res. Inst. of Organic Agriculture, Switzerland  
*Breeding for symbioses – Mycorrhizae as a case study*
- 15.15 – 15.30 **Maryam Zarean**, Isfahan University of Technology, Iran  
*Epichloe endophyte increases seed set in tall fescue through self-pollination*
- 15.30 – 16.00 *Coffee break*

## Plenary Session Innovation vs. Regulation

Chair: Beat Boller

- 16.00 – 16.40 **Richard Visser**, WUR, The Netherlands – **Keynote lecture**  
*Innovation vs. regulation – Maintaining biodiversity and breeding innovative cultivars*
- 16.40 – 17.30 “opinion statements” and extended public discussion, moderated by Tim Sykes
- Stakeholders on stage:**
- Academic research: *Richard Visser, Wageningen University Research, The Netherlands*
  - Representative of public research into plant breeding: *Eva Reinhard, Federal office of Agriculture, Switzerland*
  - Multinational breeding company: *Peter Van der Toorn, Syngenta, The Netherlands*
  - SME breeding company: *Stephanie Franck, Saatzucht Oberlimpurg / Chair of Bund Deutscher Pflanzenzüchter BDP, Germany*
  - Seed trade: *Michael Keller, Secretary General, International Seed Federation, Switzerland*
  - NGO dealing with environmental concerns: *Edith Lammets van Bueren, Louis Bolk Institute, The Netherlands*
  - Farmers / politics: *Stephan Scheuner, swiss granum, Switzerland*
- 17.30 – 18.00 **Closing**

# Crop specific parallel sessions details

## Oral presentations

### 1. Tuber and industrial crops – Chair Dan Milbourne

- 13.45 – 14.00 **Awang Maharijaya**, Bogor Agricultural University, Indonesia  
*Screening of 14 potato genotypes for their adaptation to tropical medium altitude conditions*
- 14.00 – 14.15 **Dan Milbourne**, Teagasc, Ireland  
*Stability of resistance conferred by pyramiding two QRLs for *G. pallida* Pa2/3*
- 14.15 – 14.30 **Friederike Trognitz**, AIT, Austria  
*Diversity of starch related genes among potato cultivars*
- 14.30 – 14.45 **Louise Andersson**, Syngenta Seeds, Sweden  
*Transcriptional dynamics during the sugar beet, *Beta vulgaris* ssp. *vulgaris* - *Rhizoctonia solani* interaction*
- 14.45 – 15.00 **Susanne Barth**, Teagasc, Ireland  
*Genetic diversity in a large *Miscanthus* germplasm collection*
- 15.00 – 15.15 **Lothar Frese**, JKI, Germany  
*Genetic diversity of *Patellifolia patellaris* from Southeast Spain, a crop wild relative of cultivated beets*

### 2. Cereals – Chair Andreas Börner

- 13.45 – 14.00 **Peter Dracatos**, University of Sydney, Australia  
*The quest for durable resistance to rust diseases in barley*
- 14.00 – 14.15 **Juan Herrera**, Agroscope, Switzerland  
*Identifying the best variety at each site with climatic-limitation covariates*
- 14.15 – 14.30 **Borislav Kobiljski**, Biogranum, Serbia  
*WheatOfChange - challenging the wheat yield stagnation*
- 14.30 – 14.45 **Marion Röder**, IPK, Germany  
*Association genetics and validation strategies in European wheat varieties*
- 14.45 – 15.00 **Thirumeni Saminadane**, Pandit Jawaharlal Nehru College, India  
*Efficiency of molecular marker tags in improving salt tolerance in rice using Forward Breeding MAS approach*
- 15.00 – 15.15 **Zerihun Tadele**, University of Bern, Switzerland  
*Breeding towards improving an African indigenous crop: the case of Tef*

### 3. Fodder crops – Chair Dirk Reheul

- 13.45 – 14.00 **Joanna Chojnicka-Majka**, Institute of Plant Genetics, Poland  
*Advanced genotyping in three successive generations of the allotetraploid *Festuca pratensis* × *Lolium perenne* hybrid*
- 14.00 – 14.15 **Chloé Manzaneres**, ETH Zurich, Switzerland  
*Development of TILLING in outcrossing forage crops*

- 14.15 – 14.30 **Sarah Palmer**, Aberystwyth University, UK  
*A breeder's perspective of exploiting the potential that genomics have to offer*
- 14.30 – 14.45 **Michael Ruckle**, ETH Zurich, Switzerland  
*Development of high energy red clover*
- 14.45 – 15.00 **Franz Xaver Schubiger**, Agroscope, Switzerland  
*Genetic analysis of resistance to crown rust in a genotype of perennial ryegrass*
- 15.00 – 15.15 **Daniel Thorogood**, Aberystwyth University, UK  
*Identifying loci involved in the pollen rejection response at the stigma surface in perennial ryegrass – update and progress*
- 15.15 – 15.30 Discussion of Fodder Crops and Amenity Grasses Section affairs

#### **4. Maize and Sorghum – Chair Alain Charcosset**

- 13.45 – 14.00 **Roxana-Elena Calugar**, Agr. Res. and Devel. Station Turda, Romania  
*The study of cytoplasmatic diversification role on some productivity elements on maize*
- 14.00 – 14.15 **Alain Charcosset**, INRA, France  
*Genetics of hybrid performance in maize: QTL detection for biomass production in a reciprocal multiparental design*
- 14.15 – 14.30 **Roberto Tuberosa**, University of Bologna, Italy  
*Fine mapping and cloning of a major QTL for flowering time on maize chromosome 3*
- 14.30 – 14.45 **Abebe Menkir**, IITA, Nigeria  
*Mining novel alleles for maize provitamin A enrichment and product delivery*
- 14.45 – 15.00 **Ioannis Tokatlidis**, Democritus University of Thrace, Greece  
*The role of intra-crop competition in efficiency of resource use and breeding*
- 15.00 – 15.15 **Ingrid Vilms**, CIRAD, France  
*Paving the way towards the development of biomass sorghum: a transdisciplinary approach for the development of new sorghum varieties*
- 15.15 – 15.30 **Linda Zamariola**, University of Bologna, Italy  
*Fine mapping and characterization of JAT, a major locus regulating the transition from juvenile to adult phase in maize*

#### **5. Vegetables – Chair Yuling Bai**

- 13.45 – 14.00 **Yuling Bai**, Wageningen UR, The Netherlands  
*Genome-wide study of the tomato SLMO gene family and its functional characterization in response to the powdery mildew fungus *Oidium neolycopersici**
- 14.00 – 14.15 **Lorenzo Barchi**, University of Torino, Italy  
*A high quality eggplant genome sequence: a new tool for the analysis of Solanaceae family evolution and for the molecular deciphering of complex traits*
- 14.15 – 14.30 **Andrew Beacham**, Harper Adams University, UK  
*Developing methods to assess and quantify abiotic stress responses in brassica oleracea and tipburn tolerance in lettuce (*Lactuca sativa*)*

- 14.30 – 14.45 **Jim Monaghan**, Harper Adams University, UK  
*A genetic approach to improving postharvest quality in lettuce*
- 14.45 – 15.00 **Ayşe Ozer**, Selcuk University, Turkey  
*Determination of genes involved in drought mechanism in melon genetic resources*
- 15.00 – 15.15 **Harry Paris**, Agricultural Research Organization, Israel  
*Perspectives on cucurbit crop history*
- 15.15 – 15.30 **Rafael Perl-Treves**, Bar-Ilan University, Israel  
*The Fom-1-Prv pair of melon resistance genes: lessons from expression and interaction studies*

## 6. Fruit, Ornamentals and Medicinal/Aromatic plants – Chair José Vouillamoz

- 13.45 – 14.00 **Simone Schuetz**, Agroscope, Switzerland  
*Accelerated introgression of wild apple fire blight resistance originating from *Malus x robusta* 5 by the method “Fast Track”*
- 14.00 – 14.15 **Silvia Vezzulli**, Fondazione Edmund Mach, Italy  
*Innovative strategies towards marker-assisted pre-breeding for downy and powdery mildew resistance in grapevine*
- 14.15 – 14.30 **Ellen De Keyser**, Inst. for Agricultural and Fisheries Res., Belgium  
*Genomics in azalea: defence against broad mite (*Polyphagotarsonemus latus*) infection as a case study*
- 14.30 – 14.45 **Sonia Demasi**, University of Torino, Italy  
*Azalea adaptation to adverse pH conditions: evaluation of potential resources for breeding*
- 14.45 – 15.00 **Geert van Geest**, Wageningen UR, The Netherlands  
*Digital phenotyping for postharvest performance and development of a high-throughput genotyping platform for hexaploid chrysanthemum*
- 15.00 – 15.15 **Cecilia Bester**, Agricultural Research Council, South Africa  
*Honeybush breeding: revealing the mysteries of this South African indigenous crop*
- 15.15 – 15.30 **Matteo Caser**, University of Torino, Italy  
*Irrigation practices differently affect the emission of biogenic volatile organic compounds in *Helichrysum petiolare* and *Salvia sinaloensis**

## 7. Legumes – Chair Antonio de Ron

- 13.45 – 14.00 **Antonio de Ron**, MBG-CSIC, Spain  
*In situ conservation of bean germplasm from Northwestern Argentina*
- 14.00 – 14.15 **Claire Domoney**, John Innes Centre, UK  
*Unlocking and enhancing nature’s diversity to benefit breeding strategies for diverse end uses in pea*
- 14.15 – 14.30 **Irene Jacob**, Bavarian State Research Center for Agriculture, Germany  
*Evaluation of new breeding lines of white lupin with improved resistance to anthracnose*
- 14.30 – 14.45 **Diego Rubiales**, CSIC, Spain  
*Resistance to powdery mildew in pea germplasm*
- 14.45 – 15.00 **Svein Solberg**, The World Vegetable Center, Taiwan  
*Salt tolerance screening of the AVRDC mungbean (*Vigna radiata*) collection*

- 15.00 – 15.15 **Rouxlene Van der Merwe**, University of the Free State, South Africa  
*Grain yield potential and stability of large-seeded vegetable-type soybean genotypes*
- 15.15 – 15.30 **Johann Vollmann**, BOKU University Vienna, Austria  
*Polyamines in legumes: Components with a possibly strong health potential and their respective breeding options*

## Poster flash presentations

### 1. Wheat

- 16.00 – 16.05 **Julien Bonneau**, University of Melbourne, Australia  
*Nicotianamine synthase genes as a valuable genetic resource for improving bread wheat growth and nutrition*
- 16.05 – 16.10 **Alexey Doroshkov**, Fed. Res. Inst. of Cytology and Genetics, Russia  
*The manifestation and phytohormone response of leaf pubescence genes in bread wheat*
- 16.10 – 16.15 **Dario Fossati**, Agroscope, Switzerland  
*Lr22a gene is effective and does not alter other disease resistances, yield or bread making quality*
- 16.15 – 16.20 **Keith Gardner**, NIAB, UK  
*A large-scale association mapping analysis of wheat resistance to multiple fungal pathogens across three years in multiple locations in NW Europe*
- 16.20 – 16.25 **Suncica Guberac**, University of J.J. Strossmayer, Croatia  
*Winter wheat and climate change adaptability – finding functional markers in elite wheat germplasm*
- 16.25 – 16.30 **Santosh Kumar**, Agriculture and Agri-Food Canada, Canada  
*A snapshot on wheat breeding for the Canadian Prairies*
- 16.30 – 16.35 **Tomasz Góral**, Plant Breeding and Acclimatization Institute, Poland  
*Resistance to Fusarium head blight of winter wheat lines derived from crosses between winter type cultivars and resistant spring wheat ‘Sumai 3’*
- 16.35 – 16.40 **Sriram Padmanaban**, University of Southern Queensland, Australia  
*Variations in the D-genome chromosomes of hexaploid/tetraploid wheat crosses analysed utilising cytology and molecular markers*
- 16.40 – 16.45 **Myroslava Rubtsova**, IPK, Germany  
*Influence of individual bread wheat chromosomes on double haploids (DHs) production*

### 2. Other cereals

- 16.00 – 16.05 **Lorenz Bülow**, Julius Kühn-Institut, Germany  
*Dynamic management of winter barley genetic resources*
- 16.05 – 16.10 **Maja Boczkowska**, National Research Institute, Poland  
*Landraces and obsolete cultivars of common oat – valuable and unused genetic resources*
- 16.10 – 16.15 **Gilles Charmet**, INRA, France  
*WHEALBI: WHEAt and barley Legacy for Breeding Improvement : An EU project to link genomics and agronomy*
- 16.15 – 16.20 **Anna Florence**, SRUC, UK  
*Variation in leaf traits in spring barley (*Hordeum vulgare* L.)*
- 16.20 – 16.25 **Yuji Kishima**, Hokkaido University, Japan  
*Different cold sensitivities in rice unveiled by anther morphologies and genome-wide expressions*
- 16.25 – 16.30 **Timo Knürr**, Natural Resources Institute, Finland  
*Genomic prediction in a Finnish breeding programme of six-row barley*

- 16.30 – 16.35 **Maria Jose Martinez Martin**, Aberystwyth University, UK  
*Analysis of the genetic and environmental factors influencing grain quality in oats*
- 16.35 – 16.40 **Ievina Sturite**, NIBIO, Norway  
*Genotypic and environmental impact on spring cereals yield and quality*
- 16.40 – 16.45 **William Thomas**, James Hutton Institute, UK  
*Genetics of malting barley 'processability'*

### 3. Fodder crops and Maize

- 16.00 – 16.05 **Martina Birrer**, Agroscope, Switzerland  
*Separation of endophytic and epiphytic phyllosphere bacterial communities of *Lolium* spp.*
- 16.05 – 16.10 **Gintaras Brazauskas**, Res. Cen. for Agric. and Forestry, Lithuania  
*Freezing tolerance of diploid versus tetraploid in perennial ryegrass*
- 16.10 – 16.15 **Istvan Nagy**, Aarhus University, Denmark  
*Sequencing and comparative analysis of mitochondrial genomes of fertile and male-sterile lines in perennial ryegrass (*Lolium perenne* L.)*
- 16.15 – 16.20 **Dawid Perlikowski**, Polish Academy of Sciences, Poland  
*Root system performance under water deficit conditions in *Lolium multiflorum*/*Festuca arundinacea* introgression forms*
- 16.20 – 16.25 **Dejan Sokolović**, Institute for forage crops, Serbia  
*Improvement of drought tolerance of forage perennial ryegrass by breeding of root characteristics and deep root production*
- 16.25 – 16.30 **Elzbieta Czembor**, Plant Breeding and Acclimatization Inst., Poland  
*Breeding maize for resistance to fusarium ear rot: impact of plant morphology for disease development and deoxynivalenol formation*
- 16.30 – 16.35 **Frank Liebisch**, ETH Zurich, Switzerland  
*Automated field phenotyping of early vigour and senescence progress in soybean and maize*
- 16.35 – 16.40 **Valeriu Rotarencu**, Procera Genetics, Romania  
*Advantages of using haploid technologies in maize breeding*

### 4. Oil and protein (legumes) crops

- 16.00 – 16.05 **Lucia Hlavačková**, University of Agriculture in Nitra, Slovakia  
*MicroRNA analysis of flax (*Linum usitatissimum* L.) genotypes in regard to alpha-linolenic acid content*
- 16.05 – 16.10 **Anna Kostyn**, University of Wrocław, Poland  
*Antisense oligodeoxynucleotide treatment as a new method of gene expression manipulation in flax (*Linum usitatissimum*)*
- 16.10 – 16.15 **Ana Marjanović-Jeromela**, Inst. of Field and Vegetable Crops, Serbia  
*Dissection of year related climatic variables and their effect on winter oilseed rape (*Brassica napus* L.) development and yield*
- 16.15 – 16.20 **Katarzyna Mikolajczyk**, Plant Breeding and Acclimat. Inst. Poland  
*Marker assisted breeding of new winter oilseed rape lines (*Brassica napus* L.) with changed seed oil fatty acid composition*

- 16.20 – 16.25 **Marta Preisner**, University of Wroclaw, Poland  
*Identification of cinnamyl alcohol dehydrogenase isoforms in flax and preliminary assessment of their specificity in response to the biotic and abiotic stresses*
- 16.25 – 16.30 **Allison Miller**, Saint Louis University, USA  
*Global inventory and evaluation of wild perennial cereal, pulse and oilseed species for pre-breeding and domestication*
- 16.00 – 16.05 **Engin Yol**, Akdeniz University, Turkey  
*Flowering time diversity for U.S. groundnut mini-core collection produced under Mediterranean climate type*

## 5. Fruit, Ornamentals, Medicinal, Industrial

- 16.00 – 16.05 **Andrea Patocchi**, Agroscope, Switzerland  
*Pyramiding of four QTLs for fire blight resistance in apple*
- 16.05 – 16.10 **Vassilis Papatropoulos**, Technological Univ. of Western Greece  
*Sensory, chemical and molecular analysis of fresh strawberries (*Fragaria* × *ananassa* Duch.) over different cultivars in Western Greece, reveals factors affecting eating quality*
- 16.10 – 16.15 **Carina Hieger**, AIT, Austria  
*Comparative transcriptomics of *Rosa corymbifera* ‘Laxa’ roots with regard to replant disease*
- 16.15 – 16.20 **Galya Petrova**, Bulgarian Academy of Sciences, Bulgaria  
*Genotoxic effects of heavy metals on intergeneric *Helianthus* × *Echinacea* hybrid lines*
- 16.20 – 16.25 **Tommaso Martinelli**, CREA-CIN, Italy  
*Towards *Silybum marianum*’s domestication: establishment and screening of a mutagenized population*
- 16.25 – 16.30 **Lars Gernot Otto**, IPK, Germany  
*Towards the development of a sterile chamomile variety (*Matricaria recutita* L.) using breeding, molecular and genomic tools*
- 16.30 – 16.35 **Daljit S.Virk**, PBS International, UK  
*Comparing the efficacy of polyester tents and isolation chambers for hybridisation in *Miscanthus**
- 16.35 – 16.40 **Christina Kägi**, Federal Office for Agriculture, Switzerland  
*Preserving the Swiss pear diversity*

## 6. Vegetables

- 16.00 – 16.05 **Charlotte Allender**, University of Warwick, UK  
*Who is sowing our seeds? The role of the UK vegetable genebank in supporting plant breeding and research*
- 16.05 – 16.10 **Sergio Lanteri**, University of Torino  
*Whole genome resequencing in *Cynara cardunculus*: detection of intra-specific variability and the identification/annotation of novel polymorphisms*
- 16.10 – 16.15 **Athanasios Mavromatis**, Aristotele University, Greece  
*Investigation for suitability of three new interspecific rootstocks for eggplant grafting aiming to breeding purposes*



- 16.15 – 16.20 **Mas Muniroh Mohd Nadzir**, Wageningen UR, The Netherlands  
*Development of a new screening method for resistance towards  
Clavibacter michiganensis subsp. michiganensis (Cmm) in tomato*
- 16.20 – 16.25 **Florent Perrin**, Research Institute of Horticulture and Seeds, France  
*Changes in carotenoid metabolism in response to biotic and abiotic  
stresses in various carrot genotypes*
- 16.25 – 16.30 **Justin Roberts**, Harper Adams University, UK  
*Identification of quantitative trait loci (QTL) linked to increased lateral  
root emergence and growth in an intra-specific Lactuca sativa cross for  
the improvement of lettuce transplants*
- 16.30 – 16.35 **Cristina Silvar**, Universidade da Coruña, Spain  
*Deciphering old diversity in the origins of pepper (Capsicum spp)*
- 16.35 – 16.40 **Ridwani Sobir**, Bogor Agricultural University, Indonesia  
*Genetic Inheritance resistance to Yellow Virus in melon (Cucumis melo  
L.)*
- 16.40 – 16.45 **Alexander Beharav**, University of Haifa, Israel  
*Lactuca aculeata and L. georgica are wild lettuce species, harboring  
unique genetic resources for crop improvement*