

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 <i>Genomic assisted selection and classical plant breeding – synergy or competition?</i>
11.45 - 12.00	Coraline Praz , University of Zurich, Switzerland <i>Transcriptomics to understand host adaptation in cereals powdery</i> <i>mildews</i>
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 <i>Towards genomic selection in an outbreeding crop, perennial ryegrass</i>
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 hyvido 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)

Coffee break 15.30 - 16.00

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

 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-BSS 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 	17.45 – 18.30	Flash presentations of 3 min. each; corresponding posters will be displayed in the following poster session
 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-BSS doubled haploid populations in maize Sara Giulia Milner, IPK Gatersleben, Germany BRIDGE: Biodiversity informatics for harnessing barley genetic diversity 		Better breeding decision using high throughput de novo assembly and
 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-BSS doubled haploid populations in maize Sara Giulia Milner, IPK Gatersleben, Germany BRIDGE: Biodiversity informatics for harnessing barley genetic diversity 		Dhaka Ram Bhandari, Justus Liebig University, Germany
 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-BSS doubled haploid populations in maize Sara Giulia Milner, IPK Gatersleben, Germany BRIDGE: Biodiversity informatics for harnessing barley genetic diversity 		Localization of metabolites in plant tissues using high-resolution mass
 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-BSS doubled haploid populations in maize Sara Giulia Milner, IPK Gatersleben, Germany BRIDGE: Biodiversity informatics for harnessing barley genetic diversity 		spectrometry imaging
analysis Maja Mazur , Agricultural Institute Osijek, Croatia Applying segregation distortion approach in QTL analysis of three non-BSS doubled haploid populations in maize Sara Giulia Milner , IPK Gatersleben, Germany BRIDGE: Biodiversity informatics for harnessing barley genetic diversity		
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		Sara Giulia Milner, IPK Gatersleben, Germany
hosted at the genebank of IPK Gatersleben		BRIDGE: Biodiversity informatics for harnessing barley genetic diversity

	Mahbubjon 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
	<i>How next-generation sequencing can improve and speed up breeding of new crop varieties</i>
	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 <i>Cause and effects; bottlenecks in the discovery and deployment of</i> <i>effectors and markers for the control of cereal Dothideomycete diseases</i>
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

Coffee break 10.15 - 10.45

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
 - 1. Tuber and industrial crops Dan Milbourne
 - 2. Cereals Andreas Börner
 - 3. Fodder crops *Dirk Reheul*
 - 4. Maize and Sorghum Alain Charcosset
 - 5. Vegetables Yuling Bai
 - 6. Fruit, Ornamentals, Medicinal, Aromatic José Vouillamoz
 - 7. Legumes: Special session on occasion of the <u>International Year</u> of Pulses *Antonio de Ron*
- 15.30 16.00 Coffee break
- 16.00 16.45 Parallel flash presentations
 - 1. Wheat Fabio Mascher
 - 2. Other cereals Andreas Börner
 - 3. Fodder crops and Maize *Dirk Reheul*
 - 4. Oil and Protein (Legumes) crops Bülent Uzun
 - 5. Fruit, Ornamentals, Medicinal, Industrial *Johan van Huylenbroeck*
 - 6. Vegetables Yuling Bai
- 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 SessionPhenomics 1Chair: François Tardieu

8.30 - 9.10	Matthew Reynolds, CIMMYT, Mexico – Keynote lecture <i>Phenotyping for plant breeding: combining precision with throughput</i>
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 - 10.45Coffee break

Plenary Session Phenomics 2

Chair: Achim Walter

10.45 - 11.25	François Tardieu, INRA Montpellier, France – Keynote lecture <i>Combining phenotyping, genetic analyses and crop modelling for</i> <i>identifying traits and alleles of tolerance</i>
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 <i>Crops and culture: conserving the seed heritage</i>
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
	<i>Bottlenecks in the PGRFA sustainable use system: stakeholders' perspectives</i>
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 <i>Multi-parent populations for dissection of complex traits in rice</i>
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
	Introgressiomics: 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
	r
15.30 - 16.00	Coffee break

Plenary Session Innovation vs. Regulation

Chair: Beat Boller

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

^{16.00 - 16.40}Richard Visser, WUR, The Netherlands - Keynote lecture
Innovation vs. regulation - Maintaining biodiversity and breeding
innovative cultivars

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 pyamiding 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 vugaris 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
	<i>Identifying the best variety at each site with climatic-limitation covariates</i>
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 Manzanares, 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*

Roxana-Elena Calugar, Agr. Res. and Devel. Station Turda, Romania
The study of cytoplasmatic diversification role on some productivity
elements on maize
Alain Charcosset, INRA, France
Genetics of hybrid performance in maize: QTL detection for biomass
production in a reciprocal multiparental design
Roberto Tuberosa, University of Bologna, Italy
Fine mapping and cloning of a major QTL for flowering time on maize
chromosome 3
Abebe Menkir, IITA, Nigeria
Mining novel alleles for maize provitamin A enrichment and product
delivery
Ioannis Tokatlidis, Democritus University of Thrace, Greece
The role of intra-crop competition in efficiency of resource use and
breeding
Ingrid Vilmus, CIRAD, France
Paving the way towards the development of biomass sorghum: a
transdisciplinary approach for the development of new sorghum
varieties
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 SlMLO 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	Ayse 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 unvailed 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 creals 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 Rotarenco, 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 Wroclaw, 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 Papasotiropoulos, Technological Univ. of Western Greece
	Sensory, chemical and molecular analysis of fresh strawberries
	(Fragaria $ imes$ 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 \times
	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