

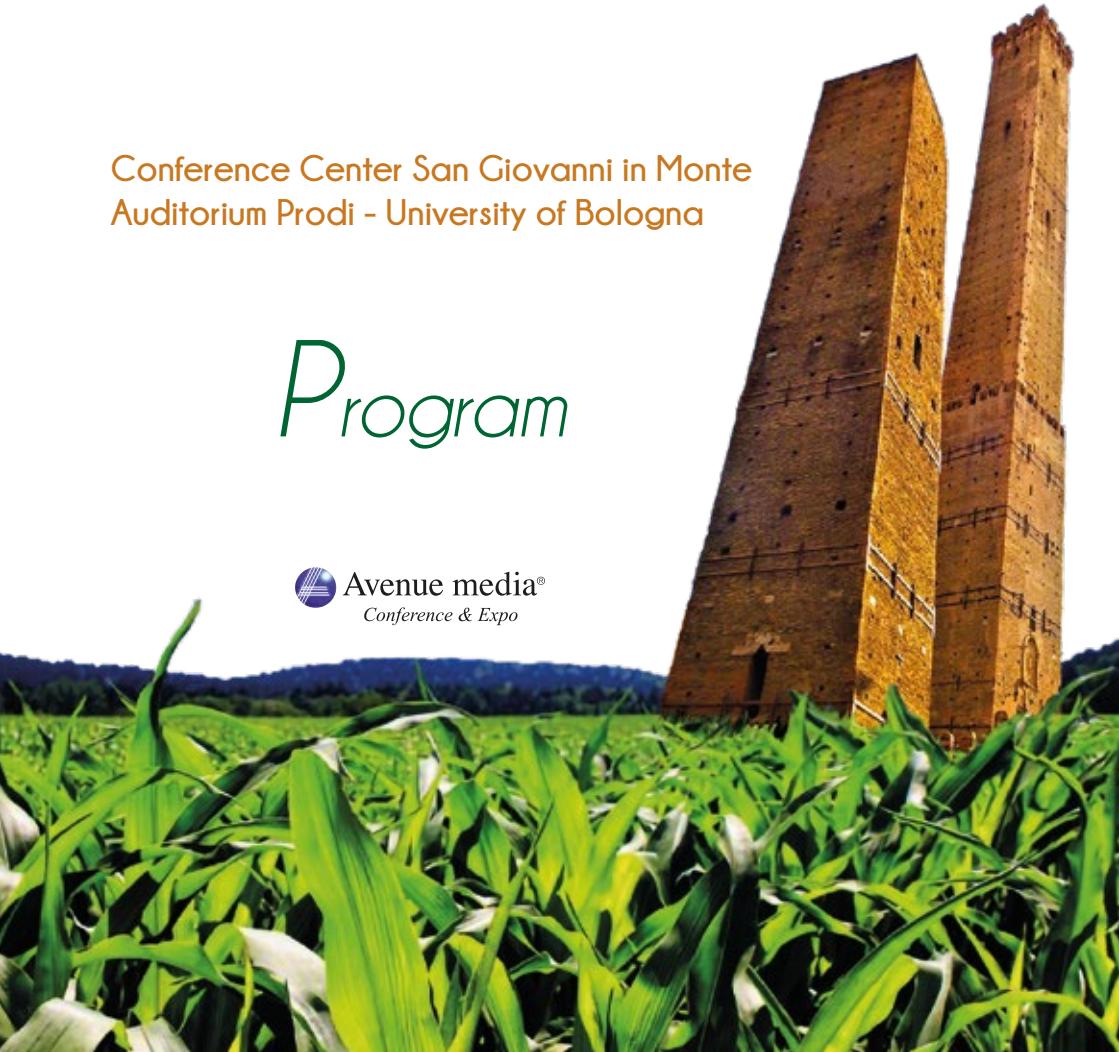
5th European Maize Meeting

14-16 JUNE 2023 – Bologna – Italy

Conference Center San Giovanni in Monte
Auditorium Prodi - University of Bologna

Program

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Conference & Expo



5th European Maize Meeting

ORGANIZING COMMITTEE

Cristian Forestan - University of Bologna

Gabriella Consonni - University of Milan

Elisabetta Frascaroli - University of Bologna

Serena Varotto - University of Padua

Silvio Salvi - University of Bologna

Hilde Nelissen - VIB, University of Ghent,
Belgium

Roberto Tuberosa - University of Bologna

Belgium

INVITED SPEAKERS

Jeff Bennetzen
University of Georgia, Athens, GA, USA

Oana Dima
VIB Center for Plant Systems Biology, Ghent, Belgium

Julia Engelhorn
Heinrich-Heine-Universität Düsseldorf /Max Planck Institute for Plant
Breeding Research

Andrea Gallavotti
Waksman Institute of Microbiology – Department of Plant Biology
Rutgers, The State University of New Jersey

Hannah Schneider
Department of Plant Sciences – Wageningen University

Clémentine Vitte
CNRS, GQE-Le Moulon, Paris Saclay

Xiaohong Yang
China Agricultural University, Beijing, China

Peng Yu
Emmy Noether Group Root Functional Biology, INRES, University of Bonn, Germany

ORGANIZING SECRETARIAT



Conference & Expo
Viale Aldini 222/4 - 40136 Bologna - Italy
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congressi@avenue-media.eu - www.avenuemedia.eu

5th European Maize Meeting

June 14, Wednesday

13:00 *Registration open, welcome coffee, poster hanging*

14:00 - 14:15 Welcome address

Session 1 – Molecular biology of maize development and physiology

(chair: Gabriella Consonni)

14:15 – 14:50 **Andrea Gallavotti, The Waksman Institute of Microbiology, Rutgers.**
Genetic control of maize meristem function

14:50 – 15:05 Martina Balboni, University of Hambur.
Live cell imaging of meiosis in maize.

15:05 – 15:20 Andrea R.M. Calhau, University of Lyon.
Double fertilization defects in maize haploid inducer lines

15:20 – 15:35 Giulia Castorina, University of Milan.
Analysis of genetic components to improve cuticle-dependent leaf permeability in maize

15:35 – 15:50 Stefan Scholten, Georg-August-University Göttingen.
Characterization of exosome-like vesicles from maize pollen and their potential role in sRNA trafficking

15:50 – 16:05 Qi Li, University of Tübingen.
Trans-acting small RNAs as a positional signal in specifying the embryonic shoot stem-cell niche in maize.

16:05 – 16:30 Break and poster view

5th European Maize Meeting

June 14, Wednesday

Session 2 - Transposons and epigenetics

(Chair: Serena Varotto)

- 16:30 – 17:10 Clémentine Vitte, CNRS, GQE-Le Moulon, Paris Saclay.
Transposable elements contribution to maize tissue differentiation
- 17:10 – 17:40 Jeff Bennetzen, University of Georgia, Athens, GA, USA. The outlandishly dynamic
LTR-retrotransposons and Helitrons in maize and other flowering plants
- 17:40 – 18:05 Johan Zicola, Georg-August-University Göttingen.
Small RNAs as potential regulators of heterosis in maize
- 18:05 – 18:20 Yan Naing Win, University of Bonn.
The European mutant resource BonnMu and its application in gene function analyses in maize

Dinner on your own

5th European Maize Meeting

June 15, Thursday

Session 3 – Genomic approaches to unravel the interaction with the environment

(Chairs: Elisabetta Frascaroli, Cristian Forestan)

- 9:00 – 9:40 **Hannah Schneider, Wageningen University.**
Genetic control and functional utility of root architectural and anatomical traits for soil resource capture
- 9:40 – 9:55 Marcel Baer, University of Bonn.
Ethylene response factor (erf) genes connect lateral root development and mycorrhizal symbiosis in maize
- 9:55 – 10:10 Fabio Guffanti, Technical University of Munich.
Unravelling the genetic architecture of lateral root length in maize
- 10:10 – 10:25 Alberto Tassinari, University of Bologna.
Insights into the regulatory mechanisms of a major flowering time QTL in maize
- 10:25 – 10:40 Sebastian Urzinger, Technical University of Munich.
NDH mediated cyclic electron flow is required for cold tolerance in the Austrian maize landrace 'Kemater Landmais Celb'
- 10:40 – 11:00 Break and poster view
- 11:00 – 11:40 **Peng Yu, Root Functional Biology, INRES, University of Bonn.**
Maize domestication contributes to root architecture and rhizosphere microbiome assemblage
-

5th European Maize Meeting

June 15, Thursday

- 11:40 – 11:55 Leonardo Caproni, Scuola Superiore Sant’Anna di Pisa.
Mapping photosynthetic efficiency ‘from pot to plot’ using a maize multiparent population
- 11:55 – 12:10 Mariolina Gulli, University of Parma.
Toward a sustainable maize cropping: X-omics support the understanding of the effects of some biotechnological practices
- 12:10 – 12:25 Karina van der Linde, University of Regensburg.
From a proteomic dataset to characterization of novel plant peptides
- 12:25 – 14:00 Lunch break
- 14:00 – 14:40** **Julia Engelhorn, HHU Düsseldorf, Max Planck Institute for Plant Breeding Research.**
High-throughput cistromeanalysis links diversity in transcription factor binding to trait variation

Poster Session

- 14:45 – 16:15 Poster view even numbers
- 16:15 – 17:30 Poster view odd numbers
- 20:00 Social dinner at Cantina Bentivoglio

5th European Maize Meeting

June 16, Friday

Session 4 – Molecular genetics and genomics for breeding

(Chairs: Hilde Nielssen, Roberto Tuberosa)

- 9:00 – 9:35 **Xiaohong Yang, China Agricultural University, Beijing.**
Convergent selection of a WD40 protein that enhances grain yield in maize and rice
- 9:35 – 9:50 Leke Victor Aiyesa, University of Gottingen.
Unlocking the genetic architecture of local adaptation of European maize landraces using individual plants populations
- 9:50 – 10:05 Anna Maria Mastrangelo, Research Centre for Cereal and Industrial Crops (CREA), Foggia.
Genetic diversity within a collection of Italian maize inbred lines: a resource for maize genomics and breeding
- 10:05 – 10:20 Federico Colombo. University of Milan.
Non-renewable phosphorus in agriculture: the potential of low-phytate maize mutant and two approaches to restore seed germination.
- 10:20 – 10:35 Vlatko Galić. Centre of Excellence for Biodiversity and Molecular Plant Breeding. Zagreb.
Selective enrichment for alleles conferring adaptation to Green Revolution practices in gene bank maize accessions of Southeastern Europe.
- 10:35 – 11:00 Coffee break and poster dismantle
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5th European Maize Meeting

June 16, Friday

- 11:00 – 11:20 **Oana Dima, VIB, Ghent.**
European sustainable agriculture through Genome Editing - the role of scientists in policy making
- 11:20 – 11:35 Lei Wang, University of Bern.
Immature leaves are the dominant volatile sensing organs of maize.
- 11:35 – 11:50 Marcin W. Crzybowski. University of Warsaw and University of Nebraska-Lincoln.
A common resequencing-based genetic marker dataset for global maize diversity.
- 11:50 – 12:05 Yannick Fierlej. University of Lyon, Mass Seeds.
Evaluation of genome and base editing tools in maize protoplasts.
- 12:05 – 12:20 Arthur Beauchet. VIB, Ghent University.
BREEDIT: a multiplex genome editing strategy to improve complex quantitative traits in maize
- 12:20 – 12:30 *Closing remarks*

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Poster

P1 - PRIMA-DROMAMED: identifying new sources of adaptation to heat and drought within Mediterranean maize germplasm

Carlotta Balconi ^{a1}, Alessio Torri ^{a1}, Rita Redaelli ^{a1}, Antonio Troccoli ^{a2}, Anna Maria Mastrangelo ^{a2}, Mohamed Dhia Eddine Hammami ^{b)}, Chahine Karmous ^{b)}, Ali Sahri ^{c)}, Abdel Khalid Essamadi ^{d)}, Rosa Ana Malvar ^{e)}, Lorena Álvarez-Iglesias ^{e)}, Oula Maafi ^{f)}, Arezki Mekliche ^{f)}, Chemlal Azzedine ^{f)}, Sekip Erdal ^{g)}, Gianfranco Mazzinelli ^{a1}, Elisabetta Frascaroli ^{h)}, Alain Charcosset ⁱ⁾, Claude Welcker ⁱ⁾, Pedro Revilla ^{e)}

a¹) Centro di ricerca Cerealicoltura e Colture Industriali (CREA) - ^{a1}) Sede di Bergamo ; ^{a2}) Sede di Foggia, Italy; ^{b)} Institut National Agronomique de Tunis, Tunisia; ^{c)} Institut National de la Recherche Agronomique, Morocco; ^{d)} Hassan I University, Morocco; ^{e)} Misión Biológica de Galicia (CSIC), Pontevedra, Spain; ^{f)} École Nationale Supérieure Agronomique, Algeria; ^{g)} Bati Akdeniz Agricultural Research Institute (BATEM), Turkey; ^{h)} Department of Agricultural and Food Sciences (DISTAL) Università di Bologna Bologna, Italy; ⁱ⁾ Institut National de Recherche pour l'Agriculture, l'Alimentation et l'Environnement (INRAE), France

P2 - Regulation of Single-Parent Expression complementation in an IBM-RIL backcross population

Jutta A. Baldauf ^a, Marion Pitz ^a, Frank Hochholdinger ^a

^a Institute for Crop Science and Resource Conservation, Crop Functional Genomics, University of Bonn, 53113 Bonn, Germany

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Poster

P3 - The ABA-Hydroxylase gene family influences water use efficiency by modulating stomatal properties in maize

Larissa Barl ¹, Sonja Blankenagel ¹, Monika Frey ¹, Viktoriya Avramova ¹,
Chris-Carolin Schön ¹

¹Chair of Plant Breeding, TUM School of Life Sciences, Technical University of Munich, Liesel-Beckmann-Straße 2, 85354 Freising, Germany

P4 - Mutants in ZmFdl1 and ZmGl2 genes affect cuticle deposition and Fusarium verticillioides growth on maize silks

Giulia Castorina ^(a), Madison Bigelow ^(b), Travis Hattery ^(b), Massimo Zilio ^(a),
Stefano Sangiorgio ^(b), Elisabetta Caporali ^(c), Marna D. Yandea-Nelson ^(b),
Gabiella Consonni ^(a)

^{a)} Dipartimento di Scienze Agrarie e Ambientali (DiSAA), Università degli Studi di Milano, Milan, Italy

^{b)} Department of Genetics, Development, and Cell Biology, Iowa State University, Ames, IA

^{c)} Dipartimento di Bioscienze, Università degli Studi di Milano, Milan, Italy

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P5 - Functional analysis of RALF gene family members in maize and their evolution

Xia Chen^a, Liangzi Zhoua, Lele Wang^a, Oliver Rupp^b, Thomas Dresselhaus^a

^{a)} Cell Biology and Plant Biochemistry, University of Regensburg, Regensburg, Germany

^{b)} Department of Bioinformatics and Systems Biology, University Giessen, Giessen, Germany

P6 - Boron deficiency leads to lateral root defects in maize

Liuyang Chu^a, Cay Schäfer^a, Alexa Brox^a, Frank Hochholdinger^a, Michaela Matthes^a

^{a)} INRES - Crop Functional Genomics, University of Bonn, Friedrich-Ebert-Allee 144, 53113 Bonn (Germany)

P7 - Canopy architecture and nitrogen vertical distribution enhance yield performance in maize cultivars from old to new

Panpan Fan^{a,b}, Niels P.R. Ante^b, Jochem B Evers^b, Yaoyao Li^a Shaokun Li^a, Bo Ming^a, Ruizhi Xie^a*

^{a)} Institute of Crop Sciences, Chinese Academy of Agricultural Sciences/key laboratory of crop physiology and Ecology, Beijing, 100081, China and

^{b)} Center for Crop Systems Analysis, Wageningen University and Research/ Wageningen, 6708PB, The Netherlands

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Poster

P8 - Characterization of Nrf4-like, a homologue of Non-reduction in female4 (Nrf4), an apomixis candidate gene in maize

Gaillard Marion ¹; Chumak Nina ¹, Pasquer Frederique ¹, Unger-Wallace Erica ², Vollbrecht Erik ², Grossniklaus Ueli ¹

¹ Department of Plant and Microbial Biology & Zurich-Basel Plant Science Center, University of Zurich, 8008 Zurich, Switzerland

² Department of Genetics, Development, and Cell Biology, Iowa State University, Ames, Iowa 50011, USA

P9 - Reduction in fertility after moderate heat stress application during silking of maize ears

Wen Gong, Thomas Dresselhaus

Cell Biology and Plant Biochemistry, University of Regensburg, Germany

P10 - Assessment of genetic diversity among maize (Zea mays L.) Italian landraces with the use of SNP markers

Hans Hartings ^(a), Chiara Lanzanova ^(a), Carlotta Balconi ^(a), Alessio Torri ^(a), Gabriella Consonni ^(b), Rita Redaelli ^(a)

^a)CREA - Research Centre for Cereal and Industrial Crops, via Stezzano 24, 24126 Bergamo.

^b)Università degli studi di Milano - DiSAA, via Giovanni Celoria 2, 20133 Milano.

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P11 - Towards Understanding and Utilizing Environment-Sensitive PhasiRNA-Dependent Male Sterility (EPMS) in Maize

Li-Hsuan Ho^a, Stefanie Dukowic-Schulze^b, Thomas Dresselhaus^a

^{a)} Department of Cell Biology and Plant Biochemistry, University of Regensburg, Universitätsstraße 31, 93053 Regensburg (Germany). ^{b)} Department of Microvascular Biology and Pathobiology, University of Heidelberg, Theodor-Kutzer-Ufer 1-3, 68167 Mannheim, Haus 24, Ebene 4 (Germany).

P12 - Dissecting Early Maize Embryogenesis through Single-Cell Transcriptomics

Guojing Jiang^a, Thomas Widiez^b and Thomas Dresselhaus^a

^{a)} Cell Biology and Plant Biochemistry, University of Regensburg, Regensburg, Germany.

^{b)} Laboratoire Reproduction et Développement des Plantes, INRAE, University of Lyon, Lyon, France

P13 - The impact of chilling and its recovery on cell division and expansion depends on the stage of maize leaf development.

Cindy M.S. Lainé ¹, Hamada AbdElgawad ^{1,2}, Gerrit T.S. Beemster ¹

¹ *Laboratory for Integrated Molecular Plant Physiology Research (IMPRES), Department of Biology, Antwerp University, Groenenborgerlaan 171, 2020 Antwerp, Belgium*

² *Botany and Microbiology Department, Faculty of Science, Beni-Suef University, Beni-Suef 62511, Egypt*

P14 - Mountain areas as biodiversity hotspot: discovery and characterization of maize landraces in Valle d'Aosta region

Alessandra Lezzi ^a, Lorenzo Stagnati ^{a,b}, Giovanna Soffritti ^a, Alessandra Lanubile ^{a,b}, Francesca Madorno ^c, Denise Chabloz ^c, Marilisa Letey ^c, Adriano Marocco ^{a,b}, Mauro Bassignana ^c, Matteo Busconi ^{a,b}

^a *Dipartimento di Scienze delle Produzioni Vegetali Sostenibili, Università Cattolica del Sacro Cuore, Via Emilia Parmense 84, 29122 Piacenza.* ^b *Centro di Ricerca BioDNA, Università Cattolica del Sacro Cuore, Via Emilia Parmense 84, 29122 Piacenza.* ^c *Institut Agricole Régional - Reg. La Rochère 1/A - 11100 AOSTA (AO) - ITALY*

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P15 - Mapping QTL of drought related traits in a dent MAGIC population

Yan-Cheng Lin ^a, Claude Urbany ^a, Antonina Shlykova ^{a,b}, Torsten Pook ^{c,d}, Armin Hölker ^b, Pascal Schopp ^b, Milena Ouzunova ^b, Thomas Presterl ^b, Sebastian Urzinger ^a, Manfred Mayer ^a, Chris-Carolin Schön ^a

^{a)} Plant Breeding, TUM School of Life Sciences, Technical University of Munich, 85354 Freising, Germany. ^{b)} KWS SAAT SE & Co. KGaA, 37574 Einbeck, Germany. ^{c)} University of Goettingen, Center for Integrated Breeding Research, Animal Breeding and Genetics Group, 37075 Goettingen, Germany. ^{d)} Animal Breeding and Genomics, Wageningen University & Research, Wageningen, The Netherlands

P16 - Can functional-structural plants models contribute to improving maize nitrogen uptake?

Jie Lu ^{a,b}, Tjeerd Jan Stomph ^a, Lixing Yuan ^a, Jochem Evers ^a

^{a)} Centre for Crop Systems Analysis, Wageningen University & Research, Netherlands. ^{b)} National Academy of Agriculture Green Development, College of Resources and Environmental Science, China Agricultural University, China

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P17 - Genetic variability for root system architecture (RSA) in Italian maize inbred lines

Gianfranco Mazzinelli^a, Francesco Solimei^b, Matteo De Biasi^b, Hans Hartings^a, Chiara Lanzaova^a, Carlotta Balconi^a, Alessio Torri^a, Alberto Tassinari^b, Silvio Salvi^b, Elisabetta Frascaroli^b

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^b) Department of Agricultural and Food Sciences, University of Bologna, viale Giuseppe Fanin 44, 40127, Bologna (Italy)

P18 - Regulation of the apical meristem in the maize shoot

Cecilia Lara-Mondragón¹, Steffen Knauer¹, Marja C.P. Timmermans¹

¹ Center for Plant Molecular Biology, University of Tübingen, 72076 Tübingen, Germany.

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P19 - Exploring new traits to evaluate maize organic varieties

Isabella Mazzoleni^a, Mauro Dal Prà^c, Elena Novarina^a, Tommaso Bardelli^a, Mattia Zuffada^b, Filippo Alagna^b, Enrico Visentin^c, Romana Bravi^c, Pier Giacomo Bianchi^a, Anna Giulini^a.

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b) CREA Research Centre for Plant Protection and Certification, Via Emilia km 307, Tavazzano con Villavesco LO, Italy, 26838

c) CREA Research Centre for Plant Protection and Certification, Via Guglielmo Marconi 2, Lonigo (VI), Italy, 36045

P20 - Characterizing heterosis in a set of recombinant intercrosses (RIXs) developed from a multiparental maize population.

Shree Prasad Neupane^a, Lorenzo Stagnati^{b,c}, Leonardo Caproni^a, Matteo Busconi^{b,c}, Paola Battilani^b, Alessandra Lanubile^{b,c}, Adriano Marocco^{b,c}, Matteo Dell'Acqua^a, Mario Enrico Pè^a*

a) Centro di Ricerca di Scienze delle Piante, Scuola Superiore Sant'Anna, Piazza Martiri della Libertà, 33, 56127 Pisa (Italy). b) Dipartimento di Scienze delle Produzioni Vegetali Sostenibili, Università Cattolica del Sacro Cuore, Via Emilia Parmense 84, 29122 Piacenza (Italy). c) Centro di Ricerca BioDNA, Università Cattolica del Sacro Cuore, Via Emilia Parmense 84, 29122 Piacenza (Italy).

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P21 - Characterization of the DCL2-homologous gene in *Zea mays* L.

Linus Nuppenau, Stefan Scholten

*Division of Crop Plant Genetics, Department of Crop Sciences,
Georg-August-Universität Göttingen, 37075 Göttingen (Germany)*

P22 - Towards the identification of ubiquitinated targets important for meiotic chromosome dynamics in maize

Seihiro Ono, Misato Ono, Max van der Heide, Martina Balboni, Arp Schnittger

*Department of Developmental Biology, Institute of Plant Science and Microbiology,
University of Hamburg, Ohnhorststr. 18, 22609 Hamburg, Germany*

P23 - Maize resistance to *Fusarium verticillioides* by CRISPR/CAS9 gene editing approach of a WRKY gene and overexpression of a lipoxygenase gene.

Letizia Ottaviani ^a, Peter Rogowsky ^b, Adriano Marocco ^a, Alessandra Lanubile ^a

^a Department of Sustainable Crop Production (DI.PRO.V.E.S.), Catholic University of the Sacred Heart, Via Emilia Parmense 84, 29122 Piacenza (Italy); ^b Reproduction et Développement des Plantes, Ecole Normale Supérieure de Lyon (ENSL), Allée d'Italie 46, 69364 Lyon Cedex 07 (France).

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P24 - Exploring maize biodiversity and microbiome in local varieties as strategic tools to face abiotic and biotic stresses

Alessandro Passera^a, Ciulia Castorina^a, Rita Redaelli^b, Patrizia Zaccheo^a, Laura Crippa^a, Gabriella Consonni^a, Roberto Pilu^a, Paola Casati^a, Carlotta Balconi^b

^a) Dipartimento di Scienze Agrarie e Ambientali (DiSAA), Università degli Studi di Milano, Italy ^b) CREA-Centro di ricerca Cerealicoltura e Colture Industriali- Sede di Bergamo, Italy

P25 - “The more, the better?”: Investigating differential, non-additive and allelic expression in association with the phenotypic manifestation of heterosis

Marion Pitz^(a), Jutta Baldauf^(a), Frank Hochholdinger^(a)

^a) INRES Crop Functional Genomics, University of Bonn, Bonn, Germany.

P26 - Genetic transformation of tropical maize inbreds using leaf explants

Leticia Rios Vieira^{a,b}, Laurens Pauwels^{b,c}, Juliana Yassitepe^{a,d}, Paulo Arruda^a

^a) The Genomics for Climate Change Research Center (GCCRC-UNICAMP), Av. Cândido Rondon, 400 - Cidade Universitária, Campinas - SP, 13083-875 (Brazil).

^b) VIB Center for Plant Systems Biology, 9052 Ghent, Belgium. ^c) Ghent University, Department of Plant Biotechnology and Bioinformatics, 9052 Ghent, Belgium. ^d) Embrapa Agricultura Digital, Av. Andre Tosello, 209 - Cidade Universitária, Campinas - SP, 13083-886 (Brazil).

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P27 - Boosting drought tolerance in key cereals in the era of climate change

Vincenzo Rossi ^a, Andrea Brandolini ^b, Solomon Chanyalew ^g, Arnaud Dauriat ^d, Primetta Faccioli ^e, Jill Farrant ^f, Tsanko Gechev ^g, Sofie Goormachtig ^h, Thomas Hartwig ⁱ, Marc Heijde ^h, Mara Lai ^j, Irene Liverani ^k, Sujeeth Neerakkal ^l, Hilde Nelissen ^h, Macarena Sanz ^m, Daniela Scheuermann ⁿ, Zerihun Tadele ^o, Robert VanBuren ^p, Steven Vandenabeele ^q

^{a)} Council for Agricultural Research and Economics, Research Centre for Cereal and Industrial Crops, Bergamo, (Italy); ^{b)} Council for Agricultural Research and Economics, Research Centre for Animal Production and Aquaculture, Lodi, (Italy); ^{c)} Ethiopian Institute of Agricultural Research, Debre Zeit, (Ethiopia); ^{d)} Quantis International, Lausanne, Switzerland; ^{e)} Council for Agricultural Research and Economics, Research Centre for Genomics and Bioinformatics, Fiorenzuola, PC, (Italy); ^{f)} Department of Molecular and Cell Biology, University of Cape Town, Cape Town, (South Africa); ^{g)} Center of Plant Systems Biology and Biotechnology, Plovdiv, (Bulgaria); ^{h)} Center for Plant Systems Biology, VIB, Ghent, (Belgium); ⁱ⁾ Heinrich-Heine University, 40225, Dusseldorf, (Germany); ^{j)} Council for Agricultural Research and Economics, Research Centre for Agricultural Policies and Bioeconomy, Rome, (Italy); ^{k)} EU CORE, Turin, (Italy); ^{l)} BioAtlantis, Tralee, Co. Kerry, (Ireland); ^{m)} ID Consortium, Sevilla, (Spain); ⁿ⁾ KWS SAAT SE & Co KGaA, Einbeck, (Germany); ^{o)} Institute of Plant Sciences, University of Bern, Bern, (Switzerland); ^{p)} Department of Horticulture, Michigan State University, East Lansing, MI, (USA); ^{q)} Aphea.Bio, Ghent, (Belgium).

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P28 - Interdisciplinary approach to nitrogen use efficiency in maize combining genomics, multi/hyperspectral indices and machine learning

Miroslav Salaić ¹, Antun Jambrović ^{1,2}, Domagoj Šimić ^{1,2}, Zvonimir Zdunić ^{1,2}, Sonja Petrović ³, Vlatko Galić ^{1,2}

¹ Poljoprivredni institut Osijek Osijek, Južno predgrađe 17, Osijek, Croatia

² Centre of Excellence for Biodiversity and Molecular Plant Breeding (CroP-BioDiv), Svetošimunska cesta 25, HR10000 Zagreb, Croatia

³ Faculty of Agrobiotechnical Sciences Osijek, Josip Juraj Strossmayer University of Osijek, Vladimira Preloga 1, Osijek, Croatia

P29 - Characterization of the Meiotic Cyclin SOLO DANCERS(SDS) in Maize

Óscar Sanz Mora ¹, Martina Balboni ¹, Reinhold Brettschneider ¹, Arp Schnittger ¹

¹ Institute of Plant Science and Microbiology (IPM), University of Hamburg, Ohnhorststraße 18, 22609, Hamburg, (Germany)

P30 - Live cell imaging reveals dynamics of the class I crossover protein HEI10 during maize meiosis

¹Max van der Heide, ¹Seijiro Ono, ¹Martina Balboni and ¹Arp Schnittger

Department of Developmental Biology, University of Hamburg, Institute for plant sciences and microbiology, Hamburg, Germany, max.heide@uni-hamburg.de

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Poster

P31 - The Proteomes that Feed the World

Lukas Würstl ^{a,b}; Sarah Brajkovic ^a; Andrea Piller ^a; Sebastian Urzinger ^{a,b}; Sophia Hein ^a; Paula Andrade Galan ^a; Giorgi Tsiklauri ^a; Guido Giordano ^a; Veronica Ramirez ^a; Ezgi Aydin ^a; Genc Haljiti ^a; Mario Picciani ^a; Qussai Abbas ^a; Cemil Can Saylan ^a; Armin Soleymaniya ^a; Jiuyue Pan ^a; Corinna Dawid ^a; Stephanie Heinzlmeir ^a; Claus Schwechheimer ^a; Josch Pauling ^a; Christina Ludwig ^a; Dmitrij Frishman ^a; Mathias Wilhelm ^a; Caroline Gutjahr ^a; Ralph Hückelhoven ^a; Viktoriya Avramova ^{a,b}; Chris-Carolin Schön ^{a,b}; Brigitte Poppenberger ^a; Bernhard Küster ^a

^a) Elite Network of Bavaria, TUM School of Life Sciences, Technical University of Munich, Alte Akademie 8, 85354 Freising (Germany). ^b) Chair of Plant Breeding, TUM School of Life Sciences, Technical University of Munich, Liesel-Beckmann-Str. 2, 85354 Freising (Germany).

P32 - Understanding the Molecular Mechanism of Parthenogenesis in Cereals

Xixi Zheng ^(a), Maria Flores Tomero ^(a), Uwe Schwartz ^(b), Thomas Dresselhaus ^(a)

^a) Cell Biology and Plant Biochemistry, University of Regensburg, 93053 Regensburg, Germany

^b) Computational Core Unit, University of Regensburg, 93053 Regensburg, Germany

GENERAL INFORMATION

CONFERENCE VENUE

Aula Prodi – Conference Center San Giovanni in Monte
University of Bologna
Piazza San Giovanni in Monte - Bologna

SOCIAL DINNER VENUE

Cantina Bentivoglio
Via Mascarella 4/b - Bologna
(15 minutes walking by the Conference Venue)

TOURISTIC TOUR & INFORMATION

Bologna Welcome
Piazza Maggiore 1/E - Bologna
(10 minutes walking by the Conference Venue)
<https://www.bolognawelcome.com/en>

USEFUL NUMBERS

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