

Virtual Conference Agenda

Start (BST)	Finish (BST)	Presenter details
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Monday, 18 October 2021

13:00 13:10 Welcome

Scientific Programme Committee:

[*Joy Bergelson, New York University, USA*](#)

[*Kirsten Bomblies, ETH Zurich, Switzerland*](#)

[*Michele Morgante, University of Udine, Italy*](#)

[*Cristobal Uauy, John Innes Centre, UK*](#)

13:10 13:55 Keynote 1

Introduction to the session

Chair: Joy Bergelson, University of Chicago, USA

13:10 13:40 Some interesting questions about plants that we can now hope to answer using genome sequences

[*Deborah Charlesworth, University of Edinburgh, UK*](#)

13:40 13:55 Q&A

Chair: Joy Bergelson, University of Chicago, USA

Moderator: Kirsten Bomblies, ETH Zurich, Switzerland

13:55 14:15 Break and Spatial Chat Networking - meet the keynote

14:15 15:45 Session 1: Genomics of Polyploidy

Introduction to the session

Chair: Kirsten Bomblies, ETH Zurich, Switzerland

14:15 14:35 Polyploidy in Siberian Arabidopsis lyrata

[*Polina Novikova, MPI Cologne, Germany*](#)

14:35 14:55 Ecological and evolutionary consequences of hybridisation and polyploidy in invasive monkeyflowers

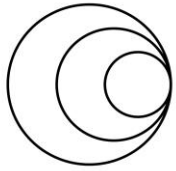
[*Mario Vallejo-Marin, University of Stirling, UK*](#)

14:55 15:05 The day of the dandelion: cloning the PARTHENOGENESIS gene from triploid apomictic Taraxacum officinale

Charles Underwood, Max Planck Institute for Plant Breeding Research, Germany

15:05 15:15 MicroProteins as promising tools for improving M. sativa (alfalfa), a tetraploid high-value forage crop

Maurizio Junior Chiurazi, Copenhagen University, Denmark



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Plant Genomes in a Changing Environment

18-20 October 2021

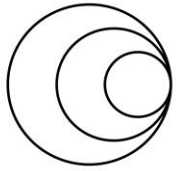
15:15 15:45 Q&A

Chair: Kirsten Bomblies, ETH Zurich, Switzerland

Moderator: Cristobal Uauy, John Innes Centre, UK

Panel: Alison Scott, MPI Cologne, Germany

15:45 16:15 Break and Spatial Chat Networking - meet the speakers



Monday, 18 October 2021 continued

16:15 18:05 Session 2: Abiotic Adaptation

Introduction to the session

Chair: Michele Morgante, University of Udine, Italy

16:15 16:35 Stomata-driven Climate-Change Adaptation Through Space and Time
[Patricia Lang, Stanford University, USA](#)

16:35 16:55 Genomics and phenomics in wheat underpinning food security
[Matthew Reynolds, CIMMYT, Mexico](#)

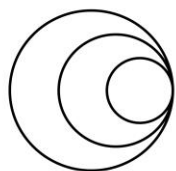
16:55 17:15 Root Cell Type Development to Counteract Abiotic Stress
[Siobhan Brady, University of California, Davis, USA](#)

17:15 17:25 Stress-ready or Stress-reactive? That is the extremophyte question!
Nick Duppen, Ben-Gurion University of the Negev, Israel

17:25 17:35 Significance of Transcriptional Co-Activator, MBF1c in Responses to Heat stress, Drought and their Combination during the Reproductive Stages of *Arabidopsis thaliana*
Nicholas Raditya Putrawisesa, Sophia University, Japan

17:35 18:05 Q&A
Chair: Michele Morgante, University of Udine, Italy
Moderator: Joy Bergelson, New York University, USA

18:05 18:35 Spatial Chat Networking - meet the speakers



Tuesday, 19 October 2021

13:00 14:30 Session 3: Biotic Interactions

Introduction to the session

Chair: Joy Bergelson, New York University, USA

13:00 13:20 Variation patterns of NLR clusters: Understanding NLR haplotype, function and epistasis
[Eunyoung Chae, National University of Singapore, Singapore](#)

13:20 13:40 The impact of plant domestication on plant pathogen genome evolution
[Eva Stukenbrock, University of Keil, Germany](#)

13:40 13:50 Prioritizing soybean resistance genes against fungal diseases by integrating GWAS and gene coexpression networks
Fabricio Almeida-Silva, UENIF, Brazil

13:50 14:00 Transcriptome and targeted metabolite analysis of resistant potato varieties as a way forward to generate resistance to *Ralstonia solanacearum*
Jeny Jose, Centre for Agricultural Research, Hungary

14:00 14:30 Q&A
Chair: Joy Bergelson, New York University, USA
Moderator: Cristobal Uauy, John Innes Centre, UK

14:30 15:00 Break and Spatial Chat Networking - meet the speakers

15:00 16:15 Lightning Talks

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15:30 16:15 Interactive Spatial Chat Networking - meet the presenters

16:15 16:25 Break

16:25 17:55 Session 4: Emerging Technology

Introduction to the session

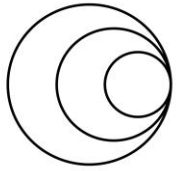
Chair: Michele Morgante, University of Udine, Italy

16:25 16:45 Understanding cell states and their temporal dynamics during tomato meristem differentiation and reprogramming
[Amos Tanay, Weizman Institute, Israel](#)

16:45 17:05 Overcoming bottlenecks in editing plant genomes
[Dan Voytas, University of Minnesota, USA](#)

17:05 17:15 Spatially resolved RNA sequencing of the wheat spike reveals larger variation within a single spike than across developmental timepoints
Anna Backhaus, John Innes Centre, UK

17:15 17:25 Unveiling spatial host-microbe interactions in *Arabidopsis thaliana* leaves by Spatial metaTranscriptomics
Sami Saarenpaa, SciLifeLab, KTH Royal Institute of Technology, Sweden



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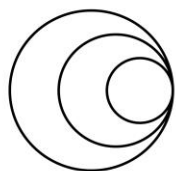
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17:25 17:55 Q&A

Chair: Michele Morgante, University of Udine, Italy

Moderator: Kirsten Bomblies, ETH Zurich, Switzerland

17:55 18:20 Spatial Chat Networking - meet the speakers



Wednesday, 20 October 2021

13:00 14:50 Session 5: Plant Evolutionary Genomics

Introduction to the session

Chair: Joy Bergelson, New York University, USA

13:00 13:20 Parental conflict and the rapid evolution of reproductive isolation in *Mimulus*
[Andrea Sweigart, University of Georgia, USA](#)

13:20 13:40 The molecular and genetic basis of maize highland adaptation
[Ruben Rellan-Alvarez, NC State, USA](#)

13:40 14:00 Revisiting the role of structural variation in plant adaptation and speciation
[Loren Rieseberg, University of British Columbia, Canada](#)

14:00 14:10 The physiological and transcriptional control of growth rate variation
David Des Marais, Massachusetts Institute of Technology, USA

14:10 14:20 Unlocking the genetic potential of the African orphan crop fonio for agriculture in a changing climate
Hanin Ahmed, King Abdullah University of Science and Technology, Saudi Arabia

14:20 14:50 Q&A
Chair: Joy Bergelson, New York University, USA
Moderator: Cristobal Uauy, John Innes Centre, UK

14:50 15:20 Break and Spatial Chat Networking - meet the speakers

15:20 16:05 Keynote 2

Introduction to the session

Chair: Cristobal Uauy, John Innes Centre, UK

15:20 15:50 Tuning genes, Genomes and Traits in Plants and Agriculture
[Zachary Lippman, CSHL, USA](#)

15:50 16:05 Q&A
Chair: Cristobal Uauy, John Innes Centre, UK
Moderator: Michele Morgante, University of Udine, Italy

16:05 16:25 Spatial Chat Networking - meet the keynote

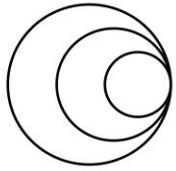
16:25 16:35 Closing remarks

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[*Cristobal Uauy, John Innes Centre, UK*](#)

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