## Virtual Conference Agenda

### Monday, 18 October 2021

<table>
<thead>
<tr>
<th>Start (BST)</th>
<th>Finish (BST)</th>
<th>Presenter details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:00</td>
<td>13:10</td>
<td>Welcome</td>
</tr>
<tr>
<td>13:10</td>
<td>13:40</td>
<td>Keynote 1</td>
</tr>
<tr>
<td>13:40</td>
<td>13:55</td>
<td>Q&amp;A</td>
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<tr>
<td>13:55</td>
<td>14:15</td>
<td>Break and Spatial Chat Networking - meet the keynote</td>
</tr>
<tr>
<td>14:15</td>
<td>15:45</td>
<td>Session 1: Genomics of Polyploidy</td>
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<tr>
<td>14:15</td>
<td>14:35</td>
<td>Polyploidy in Siberian Arabidopsis lyrata</td>
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<tr>
<td>14:35</td>
<td>14:55</td>
<td>Ecological and evolutionary consequences of hybridisation and polyploidy in invasive monkeyflowers</td>
</tr>
<tr>
<td>14:55</td>
<td>15:05</td>
<td>The day of the dandelion: cloning the PARTHENOGENESIS gene from triploid apomictic Taraxacum officinale</td>
</tr>
<tr>
<td>15:05</td>
<td>15:15</td>
<td>MicroProteins as promising tools for improving M. sativa (alfalfa), a tetraploid high-value forage crop</td>
</tr>
</tbody>
</table>

**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
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

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 2: Abiotic Adaptation</th>
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</thead>
<tbody>
<tr>
<td>16:15</td>
<td>Introduction to the session</td>
</tr>
<tr>
<td></td>
<td>Chair: Michele Morgante, University of Udine, Italy</td>
</tr>
<tr>
<td>16:15</td>
<td>Stomata-driven Climate-Change Adaptation Through Space and Time</td>
</tr>
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<td></td>
<td>Patricia Lang, Stanford University, USA</td>
</tr>
<tr>
<td>16:35</td>
<td>Genomics and phenomics in wheat underpinning food security</td>
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<td></td>
<td>Matthew Reynolds, CIMMYT, Mexico</td>
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<tr>
<td>16:55</td>
<td>Root Cell Type Development to Counteract Abiotic Stress</td>
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<td>Siobhan Brady, University of California, Davis, USA</td>
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<tr>
<td>17:15</td>
<td>Stress-ready or Stress-reactive? That is the extremophyte question!</td>
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<td></td>
<td>Nick Duppen, Ben-Gurion University of the Negev, Israel</td>
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<tr>
<td>17:25</td>
<td>Significance of Transcriptional Co-Activator, MBF1c in Responses to Heat stress, Drought</td>
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<td>and their Combination during the Reproductive Stages of Arabidopsis thaliana</td>
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<td>Nicholas Raditya Putrawisesa, Sophia University, Japan</td>
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<tr>
<td>17:35</td>
<td>Q&amp;A</td>
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<td></td>
<td>Chair: Michele Morgante, University of Udine, Italy</td>
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<td></td>
<td>Moderator: Joy Bergelson, New York University, USA</td>
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<tr>
<td>18:05</td>
<td>Spatial Chat Networking - meet the speakers</td>
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<thead>
<tr>
<th>Time</th>
<th>Session 3: Biotic Interactions</th>
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<tbody>
<tr>
<td>13:00</td>
<td>Introduction to the session</td>
</tr>
<tr>
<td></td>
<td>Chair: Joy Bergelson, New York University, USA</td>
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<tr>
<td>13:00</td>
<td>Variation patterns of NLR clusters: Understanding NLR haplotype, function and epistasis</td>
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<tr>
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<td>Eunyoung Chae, National University of Singapore, Singapore</td>
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<tr>
<td>13:20</td>
<td>The impact of plant domestication on plant pathogen genome evolution</td>
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<td>Eva Stukenbrock, University of Keil, Germany</td>
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<tr>
<td>13:40</td>
<td>Prioritizing soybean resistance genes against fungal diseases by integrating GWAS and gene coexpression networks</td>
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<td></td>
<td>Fabricio Almeida-Silva, UENIF, Brazil</td>
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<tr>
<td>13:50</td>
<td>Transcriptome and targeted metabolite analysis of resistant potato varieties as a way forward to generate resistance to Ralstonia solanacearum</td>
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<td></td>
<td>Jeny Jose, Centre for Agricultural Research, Hungary</td>
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<tr>
<td>14:00</td>
<td>Q&amp;A</td>
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<tr>
<td></td>
<td>Chair: Joy Bergelson, New York University, USA</td>
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<td>Moderator: Cristobal Uauy, John Innes Centre, UK</td>
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<td>14:30</td>
<td>Break and Spatial Chat Networking - meet the speakers</td>
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<tr>
<th>Time</th>
<th>Session 4: Emerging Technology</th>
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<tbody>
<tr>
<td>15:00</td>
<td>Lightning Talks</td>
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<tr>
<td>15:30</td>
<td>Interactive Spatial Chat Networking - meet the presenters</td>
</tr>
<tr>
<td>16:15</td>
<td>Break</td>
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<tr>
<td></td>
<td>Chair: Michele Morgante, University of Udine, Italy</td>
</tr>
<tr>
<td>16:25</td>
<td>Understanding cell states and their temporal dynamics during tomato meristem differentiation and reprogramming</td>
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<tr>
<td></td>
<td>Amos Tanay, Weizzman Institute, Israel</td>
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<tr>
<td>16:45</td>
<td>Overcoming bottlenecks in editing plant genomes</td>
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<td></td>
<td>Dan Voytas, University of Minnesota, USA</td>
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<tr>
<td>17:05</td>
<td>Spatially resolved RNA sequencing of the wheat spike reveals larger variation within a single spike than across developmental timepoints</td>
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<td></td>
<td>Anna Backhaus, John Innes Centre, UK</td>
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<tr>
<td>17:15</td>
<td>Unveiling spatial host-microbe interactions in Arabidopsis thaliana leaves by Spatial metaTranscriptomics</td>
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<tr>
<td></td>
<td>Sami Saarenpaa, SciLifeLab, KTH Royal Institute of Technology, Sweden</td>
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</tbody>
</table>
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
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker/Institution</th>
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<tr>
<td>13:00</td>
<td><strong>Session 5: Plant Evolutionary Genomics</strong></td>
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<td>Introduction to the session</td>
<td>Joy Bergelson, New York University, USA</td>
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<td>13:00</td>
<td>Parental conflict and the rapid evolution of reproductive isolation in Mimulus</td>
<td>Andrea Sweigart, University of Georgia, USA</td>
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<tr>
<td>13:40</td>
<td>The molecular and genetic basis of maize highland adaptation</td>
<td>Ruben Rellan-Alvarez, NC State, USA</td>
</tr>
<tr>
<td>14:00</td>
<td>Revisiting the role of structural variation in plant adaptation and specification</td>
<td>Loren Rieseberg, University of British Columbia, Canada</td>
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<tr>
<td>14:00</td>
<td>The physiological and transcriptional control of growth rate variation</td>
<td>David Des Marais, Massachusetts Institute of Technology, USA</td>
</tr>
<tr>
<td>14:20</td>
<td>Unlocking the genetic potential of the African orphan crop fonio for agriculture in a changing climate</td>
<td>Hanin Ahmed, King Abdullah University of Science and Technology, Saudi Arabia</td>
</tr>
<tr>
<td>14:20</td>
<td>Q&amp;A</td>
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<td><strong>Keynote 2</strong></td>
<td></td>
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<td>Introduction to the session</td>
<td>Cristobal Uauy, John Innes Centre, UK</td>
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<td>15:20</td>
<td>Tuning genes, Genomes and Traits in Plants and Agriculture</td>
<td>Zachary Lippman, CSHL, USA</td>
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<td>Q&amp;A</td>
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<td><strong>Closing remarks</strong></td>
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