



Virtual MPIPZ/ LUMS-Pakistan Plant Science Symposium

06. – 07. October 2021

Join via zoom: <https://zoom.us/j/95843625907?pwd=ZjE1RkpuOGFkS203U21BdWxOZHc0dz09>

Meeting ID: [958 4362 5907](https://zoom.us/j/95843625907), Passcode: 759215

All times are European time (+3 hours in Pakistan)

06 October 2021

09:00 h – 09:30 h

Opening Statements

09:00 h *Muhammad Tariq*

Plant Science at LUMS Pakistan

09:15 h *Raphael Mercier*

Plant Science at MPIPZ

09:30 h – 10:30 h

Chromosome Biology and Epigenetics

Chair: Muhammad Tariq

09:30 h *Raphael Mercier*

The regulation of meiotic recombination

09:50 h *Zaigham Shazad*

Epimutations: novel drivers of phenotypic evolution

10:10 h *Franziska Turck*

How information hidden in chromatin structure helps to understand flowering time regulation

10:30 – 10:50 hrs Break

10:50 hrs to 12:10 hrs

Plant Breeding and Crop Improvement

Chair: Angela Hancock

10:50 h *Sultan Habib*

Plant Science Research at CAS, University of Agriculture, Faisalabad

11:10 h *Charlie Underwood*

Into the wild: decoding and harnessing natural variation in plant breeding

11:30 h *Faiz Ahmad*

Efficient *in vitro* regeneration improves recovery of spectinomycin resistant transplastomic shoots in potato

11:50 h *Iván Acosta*

Auxin signaling during barley pollen maturation

End of first meeting day

07 October 2021

09:00 h – 10:20 h

Evolution and Abiotic Stress response

Chair: Charlie Underwood

09:00 h *Khurram Bashir/ Muhammad Tariq*

Development of technologies for abiotic stress tolerance in plants/ Agronomic interventions for sustainable Agriculture

09:20 h *Angela Hancock*

An island model for adaptation: Cape Verde *Arabidopsis*

09:40 h *Zulfiqar Ali*

Climate SMART Agriculture at MNSUAM

10:00 h *Angela Hay*

Exploding seed pods crave copper

10:20 – 10:40 h Break

10:40 – 12:30 hrs

Plant-Microbe Interactions, Nutrition and Biotic Stress

Chair: Khurram Bashir

10:40 h *Moddassir Ahmed*

Flag leaf metabolome of transgenic wheat (*Triticum aestivum* L.) in response to different N fertilizer regimes

11:00 h *Tonni Grube Andersen*

Passage cells and the outer xylem pole: an overlooked highway for root communication?

11:20 h *Aysha Kiran*

Genetic variation in grain zinc and iron content with reference to root system architecture of wheat (*Triticum aestivum* L.)

11:40 h *Abdul Qayyum Rao*

Transgenic/Genome Editing approaches for important Crop

12:00 h *Paul Schulze-Lefert*

Iron Nutrition Mediated by the Plant Microbiota

12:20 h *Paul Schulze-Lefert*

Closing remarks

End of conference

