



2022 “From Gene to Trait” Course Program

September 12th

- 08:30 - 10:00 Welcome: The GCCRC “From Gene to Trait” platform - Paulo Arruda (UMIP/GCCRC Unicamp)
- 10:30 - 12:00 Overview on gene discovery: an industry biotech program to enhance maize agronomic traits Carl Simmons (Corteva Agriscience)
- 13:30 - 15:00 The use of transcriptomics for gene discovery - Diego Mauricio Riano Pachon (CENA, USP)
- 15:30 - 17:00 Gene discovery in wild species for abiotic stress tolerance - Isabel Gerhardt – (UMIP/GCCRC Embrapa)

September 13th

- 08:30 - 10:00 CRISPR-Cas9 genome editing in maize/for sustainable Agriculture - José H. Lopes Filho (UMIP/GCCRC, Embrapa)
- 10:30 - 12:00 Maize transformation using *Agrobacterium tumefaciens* - Laurens Pauwels (VIB-UGent, Belgium)
- 13:30 - 15:00 Designing strategies for vectors and constructs – Almir Zanca (Stoller Brasil)
- 15:30 - 17:00 Model plants as a tool for proof of concept of candidate genes - Paulo Arruda (UMIP/GCCRC Unicamp)

September 14th

- 08:30 - 10:00 Genotyping of transformed/edited TROPICAL maize plants - Fernanda R Fernandes (UMIP/GCCRC Embrapa)
- 10:30 - 12:00 Trait introgression in commercial maize hybrids - Ivan Schuster (Long Ping Sementes)
- 13:30 - 15:00 Experimental design and field trials for biotech traits - Juliana Yassitepe (UMIP/GCCRC Embrapa)
- 15:30 - 17:00 How the Xylella genome sequence boosted the citrus industry in São Paulo – Juliano Ayres (Fundecitrus)

September 15th

- 08:30 - 10:00 Plant microbiome for genes and traits - Rafael Souza (Symbiomics)
- 10:30 - 12:00 The world scenario of Microbiome for sustainable food production – Tanja Kostic (Austrian Institute of Technology)
- 13:30 - 15:00 Synthetic microbial communities for stress tolerance in plants - Jader Armanhi (Symbiomics)
- 15:30 - 17:00 The Brazilian case of biological nitrogen fixation in sustainable crop production - Solon Araujo (SCA Consultoria)

September 16th

- 08:30 - 10:00 Dereglulation of biotechnological traits - Angela Ferrari, Gabriela Gandelini, Marcela Scarso e Hallison Vertuan (Bayer Crop Science)
- 10:30 - 12:00 Progress of genome editing in citrus and the GE regulatory scenario in Europe – Leandro Peña (IBMCP, CSIC, Spain).
- 13:30 - 15:00 Intellectual property of biotechnological traits - Leticia Covesi (i9 Pi)
- 15:30 - 17:00 Final considerations and concluding remarks - Paulo Arruda (UMIP/GCCRC Unicamp)