

# 2023 “From Gene to Trait” Course Program

## **September 18<sup>th</sup> - Monday**

08:30 - 10:00 Welcome: The GCCRC “From Gene to Trait” platform - Paulo Arruda (UMIP/GCCRC Unicamp) and Stanley Oliveira (General Head of Embrapa Agricultura Digital)

10:30 - 12:00 Genomics of the Brazilian Biodiversity: The Cupuaçu (*Theobroma grandiflorum*) and Ayahuasca (*Psychotria viridis* and *Banisteriopsis caapi*) genomes project Towards phased chromosome-scale and high-quality annotated genomes - Alessandro Varani (Unesp Jaboticabal)

13:30 - 15:00 The use of transcriptomics for gene discovery Título a definir - Diego Mauricio Riaño (Cena/USP)

15:30 - 17:00 Gene discovery in wild species for abiotic stress tolerance - Isabel Gerhardt – (UMIP/GCCRC Embrapa Agricultura Digital)

## **September 19<sup>th</sup> - Tuesday**

08:30 - 10:00 Plantas para o futuro: modulação da plasticidade vegetal para maior adaptabilidade ao ambiente – Adriana Hemerly (UFRJ)

10:30 - 12:00 Harnessing Beneficial Microbes for Sustainable Agriculture - Rafael Souza (Symbiomics)

13:30 - 15:00 Plant-soil-microorganism interactions: Enhancing phosphorus acquisition of maize and sorghum in tropical soils – Sylvia Morais de Sousa Tinôco - (Embrapa Milho e Sorgo)

15:30 - 17:00 As novas tecnologias moleculares e seu reflexo nos inoculantes - Solon Araujo (SCA Consultoria)

## **September 20<sup>th</sup> - Wednesday**

08:30 - 10:00 CRISPR-Cas9 technology and transient expression based approaches for plant biotechnology and crop research – Sophia Gerasimova (UMIP/GCCRC)-10:30 - 12:00 Transformação genética de milho: da produção de embrião a geração de eventos - Maísa Siqueira (UMIP/GCCRC)

13:30 - 15:00 Genome editing in soybean via CRISPR/Cas for improvement of drought tolerance and nutritional quality – Liliane Hennig (Embrapa Soja)

15:30 - 17:00 Strategies for plant transformation vectors – Almir Zanca (Stoller Brasil)

## **September 21<sup>th</sup> - Thursday**

08:30 - 10:00 Multiplex gene editing in maize- Laurens Pauwels (VIB-UGent, Belgium) online

10:30 - 12:00 Unraveling genes of unknown function via coexpression analysis for stress tolerance

modification - Ricardo Dante (UMIP/GCCRC, Embrapa Agricultura Digital)  
13:30 - 15:00 From Trait to Market - Ivan Schuster (Longping High-Tech)  
15:30 - 17:00 Phenotyping strategies for trait evaluation - Juliana Yassitepe (UMIP/GCCRC Embrapa Agricultura Digital)

### **September 22<sup>th</sup> - Friday**

08:30 - 10:00 Regulatory aspects of biotech activities – Adriana Cheavegatti Gianotto (CTC) 10:30 - 12:00  
Tecnologia DO BEM™ da Oxitec para controle biológico de pragas – Adriana Capela (Oxitec)  
13:30 - 15:00 Propriedade Intelectual aplicada à biotecnologia vegetal: Considerações gerais de proteção de invenção e cultivares – Priscila Kashiwabara (Kasznar Leonardos)  
15:30 - 17:00 Final considerations and concluding remarks - Ricardo Dante (UMIP/GCCRC Embrapa Agricultura Digital)