V INTERNATIONAL SYMPOSIUM on CITRUS BIOTECHNOLOGY
Corsica - Biguglia - Nov. 2026

SCIENTIFIC PROGRAM

Tuesday 17 November morning

08:00–09:15 Participant packs

08:30–08:50 Opening ceremony

08:50–09:15 ISHS presentation Dr. Manjul Dutt

Session 1 Citrus development fruit traits and breeding

09:15–09:45 Keynote Pr. Avi Sadka

From Sour to Sweet: Unraveling the Mysteries of Citrus Taste and Juice-Sac Formation

09:45–10:00 O01 Tracing the evolution of furanocoumarin biosynthesis; a genomic study of the 2OGD key gene cluster and recent progress towards elucidating downstream gene players
Dr. Livnat Goldenberg

10:00–10:15 O02 Beyond a single reference: a *Citrus sinensis* pangenome refines the genetic architecture of anthocyanin accumulation in blood orange
Mr. Giuseppe Cannizzaro

10:15–10:30 O03 Lycopene accumulation in mandarin hybrid driven by CRISPR-Cas9
Dr Ana Arruabarrena

10:30–11:00 Coffee break

11:00–11:15 O04 Development and Validation of InDel and KASP SNP Markers for Early Selection of Pigmented Mandarin/Pummelo × Australian Fingerlime Hybrids Carrying the RMic2 Allele
Dr Andres Garcia Lor

11:15–11:30 O05 Advances in Citrus Breeding in Corsica, France
Dr. Yann Froelicher

11:30–11:45 O06 Citrus improvement program at Queensland University of Technology
Dr. Georgie Stephan

11:45–12:00 O07 Advances in the breeding of new citrus varieties in Uruguay

Dr Carlos Rivas

12:00–12:15 O08 Amending UPOV codes for Citrus
Mr. David Karp

12:15–12:30 Session discussion on UPOV codes

12:30–14:00 Lunch

Tuesday 17 November afternoon

Session 2 Biotechnology and resistance to citrus diseases

14:00–14:30 Keynote Pr. Leandro Peña
Recent advances in biotechnological resistance against important citrus diseases

14:30–14:45 O09 Metabolic and physiological biomarkers for the early detection of Huanglongbing Disease in *Citrus sinensis*
Dr. Cecilia Brunetti

14:45–15:00 O10 Identification and characterization of potential biocontrol bacteria from citrus phyllosphere against *Xanthomonas citri*
Ms. Mary Selva Cuiñas Díaz

15:00–15:15 O11 Integrated transcriptomic and metabolomic analysis of lemon hybrids in response to *Plenodomus tracheiphilus*
Ms. Carmen Arlotta

15:15–15:30 O12 Integrating pedigree-based analysis and transcriptomics to unravel mal secco tolerance in lemon
Dr Mario Di Guardo

15:30–15:45 O13 Dissecting the genetic basis of tolerance to citrus bot gummosis in lemon by integrated QTL mapping and RNA-seq analysis
Assist. Prof. Chiara Catalano

15:45–16:00 O14 Volatile organic compounds profiling of *Phyllosticta citricarpa* and infected lemon fruits for the identification of potential biomarkers of Citrus Black Spot
Dr. Valentina Lazazzara

16:00–16:30 Coffee break

Genomics foundations for citrus improvement

Introductory block linked to the genetics and biotechnology session on Wednesday morning.

16:30–16:45 O15 Combining trio-binning and Hi-C to resolve parental haplotypes in interspecific Citrus hybrids
Dr. Khadidiatou Diop

16:45–17:00 O16 Citrus consensus genetic map represents a powerful tool for studying new citrus genome assembly and capture genomic regions associated with keys agronomic traits
Dr.. Leny Calvez

17:00–17:15 O17 Molecular polymorphisms in the nuclear and chloroplast genomes of sweet orange (*Citrus sinensis* L.) for cultivar identification of plants and derived food products
Prof. Dr. Gaetano Distefano

17:15–17:30 O18 Developing Super-high Density (SHD) and High Density (HD) training systems for sustainable production of citrus
Dr. Ignasi Iglesias

17:30–17:45 Discussion

17:45–18:45 Poster flash talks — voluntary participation

Each presenter: 2 minutes and a maximum of 1 slide. No questions during the flash talks; discussions continue at the posters during breaks and the poster session on Wednesday.

Wednesday 18 November morning

Session 3 Genetics and biotechnology including genome editing

08:30–09:00 Keynote Assist. Prof. Danelle Seymour
Combating Huanglongbing disease: Genetic strategies to develop resilient citrus cultivars

09:00–10:15: shortening breeding cycles and improving reproductive traits. 10:45–12:00: transformation, genome editing and cell engineering.

09:00–09:15 O19 Transcriptomic and functional analyses identify CsSEP3 as a candidate regulator of the 'Tobias' reduced- vegetative phase change phenotype
Mrs. Tamara Martín García

09:15–09:30 O20 Functional Limits of TFL1 Editing in citrus
Prof. Berta Alquezar

09:30–09:45 O21 CrAGL62 and potential paternally expressed gene CrbZIP contribute to paternal-excess postzygotic barriers in citrus
Dr. Kai-dong Xie

09:45–10:00 O22 Somatic embryogenesis and male sterility researches facilitate citrus seedless breeding
Dr. Xiao-Meng Wu

10:00–10:15 O23 Establishment of Accurate and Cost-Effective Marker-Assisted Selection System for Citrus Male Sterile Seedlings Based on the MS-P1 Region
Dr. Shingo Goto

10:15–10:45 Coffee break

10:45–11:00 O24 Haplotype-resolved genomics supports automated T-DNA integration characterization in sweet orange
Ms. Monica Alves

11:00–11:15 O25 Genome editing in citrus via embryogenic cell suspension cultures and protoplasts
Dr. Manjul Dutt

11:15–11:30 O26 Development of an Agrobacterium-mediated transformation system enabling genome editing in *Fortunella polyandra* (Malayan kumquat)
Dr. Angelo Ciacciulli

11:30–11:45 O27 Toward Efficient and Scalable In-Planta Genome Editing in Citrus
Dr. Gilor Kelly

11:45–12:00 O28 Molecular tools assisted cell engineering for citrus improvement
Prof. Dr. Wen-Wu Guo

12:00–12:30 Session discussion

12:30–14:00 Lunch and group photography

Wednesday 18 November afternoon

Session 4 Field applications and resilience to biotic and abiotic stresses

14:00–14:30 Keynote Aurelio Gómez Cadenas
From Multifactorial Stress Responses to Resilient Citrus: Integrating Plant Physiology, Molecular Insights and Biotechnological Solutions

14:30–14:45 O29 TEA4IT: Field Testing and Scientific Foundations of Italy's NGT Crops of the Future
Dr. Concetta Licciardello

14:45–15:00 O30 Field evaluation of HLB resistance in citrus scions grafted onto CRISPR-edited CarriCea T1 rootstock
Dr. Yianni Lagos

15:00–15:15 O31 Development of Transgenic Citrus Rootstocks for Trans-Grafting: A Strategy to Sustainably Enhance Resilience to Biotic and Abiotic Stresses
Lorena Noelia Sendin

15:15–15:30 O32 Physiological and Biochemical Responses of Various Citrus Rootstock Seedlings to High Temperature Stress
Ms. Fatma Burcu Celikli

15:30–15:45 O33 Transcriptomic and co-expression network analyses elucidate the mechanisms of nitric oxide-induced drought tolerance in Citrus
Dr. Emanuele Scialò

15:45–16:00 O34 Molecular regulation of cold stress response in citrus: from mechanism understanding to gene exploration
Prof. Dr. Ji-Hong Liu

16:00–16:30 **Coffee break**

16:30–17:30 **Poster session**

16:30–17:30 ISHS committee meeting — in parallel

17:30–17:40 Young scientist awards

17:40–18:00 Closing ceremony and ISCB 2030 announcement

20:30 Gala dinner

Thursday 19 November technical visits

08:00 Bus departure from Bastia — Place Saint-Nicolas

Packing station in Folelli.(Agrucorse)

12:00–13:30 Lunch at INRAE research station

13:30–15:00 Visit of the INRAE-Cirad citrus collection

15:30–16:30 Processing visits — one group in Linguizzetta and one group in Moriani

16:45 Return to Bastia — arrival around 18:00