



INTERNATIONAL SYMPOSIUM ON CITRUS BIOTECHNOLOGY

SCIENTIFIC SESSIONS - PRELIMINARY SCHEDULE

15th April

16.00 - 21.00 Inscription and Accreditation in Palladium or Sheraton Hotel.

16th April

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| 8.00 - 8.40 | Transfer to the venue INIA Las Brujas. |
| 8.00 - 18.00 | Inscription and Accreditation. |
| 9.15 - 10.00 | Opening ceremony of the symposium. |
| 10.00 - 10.45 SI-KL-1 | Session I: Breeding, Genomics and Genetics. Keynote lecture: New evolutionary framework for the genus <i>Citrus</i> . PhD. Manuel Talón. Coordinator of the Genomic Center, Valencian Institute of Agrarian Research (IVIA). Spain. |
| 10.45 - 11.00 | Coffee break. |
| 11.00 - 12.40 | Session I: Breeding, Genomics and Genetics. Oral presentations. |
| 11.00 - 11.20 SI-O-1 | A model for domestication and diversification processes of modern citrus varieties. PhD. Tokuroou Shimizu. Japan. |
| 11.20 - 11.40 SI-O-2 | High resolution chromosome configurations of some Korean landrace <i>Citrus</i> by CMA banding and rDNA loci. Prof. Kwan Jeong Song. Korea. |
| 11.40 - 12.00 SI-O-3 | Loss of self-incompatibility in <i>Citrus</i> . Rafael Montalt. Spain. |
| 12.00 - 12.20 SI-O-4 | Application of a MITE <i>Citrus</i> apomixis marker in the Australian rootstock breeding program. Malcolm Wesley Smith. Australia. |
| 12.20 - 12.40 SI-O-5 | Mechanisms of unreduced pollen and ovule gametes in a diploid hybrid between clementine and sweet orange and in two cultivars of lemon, 'Eureka Frost' and 'Fino'. PhD. Pablo Aleza. Spain. |
| 13.00 - 14.30 | Lunch |
| 14.30 - 15.15 SI-KL-2 | Session I: Breeding, Genomics and Genetics. Keynote lecture: Genomic, <i>in vitro</i> tools to assist improving programs. PhD. Fred G. Gmitter, Jr. University of Florida. USA. |
| 15.15 - 15.55 | Session I: Breeding, Genomics and Genetics. Oral presentations. |
| 15.15 - 15.35 SI-O-6 | A pipeline for phylogenomic inference in large diploid and polydiploid populations from Genotyping by Sequencing (GBS) data. PhD. Franck Curk. France. |
| 15.35 - 15.55 SI-O-7 | NMR metabolomics as a prediction tool for consumers' acceptance of mandarins. Prof. Horacio Heinzen. Uruguay. |
| 16.00 - 16.20 | Coffee break. |



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16th April

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| 16.20 - 17.00 | Session I: Breeding, Genomics and Genetics. Poster Presentations. | |
| | SI-P-1 | Identification of zygotic and nucellar seedlings in <i>Citrus limon</i> : searching of molecular markers. PhD. Olaya Pérez-Tornero <i>et al.</i> Spain. |
| | SI-P-2 | The incidence of ploidy according to embryo types in <i>Citrus seed</i> ". PhD. Jin Yeong Kim <i>et al.</i> Korea. |
| | SI-P-3 | Molecular characterization by microsatellites of cultivars from the Cuban <i>Citrus</i> Protected Germplasm Bank. Yohaily Rodriguez Alvarez <i>et al.</i> Cuba. |
| | SI-P-4 | Identification of Moroccan sweet orange variants with SSR and ISSR markers. PhD. Samia Lotfy <i>et al.</i> Morocco. |
| | SI-P-5 | Friable callus induction and plant regeneration by organogenesis in two strains of trifoliolate orange (<i>Poncirus trifoliata</i>). Phd. Hamid Benyahia <i>et al.</i> Morocco. |
| | SI-P-6 | Development and molecular characterization of new citrus rootstocks using somatic hybridization assisted by nuclear and cytoplasmic microsatellite markers. PhD. O. Chetto <i>et al.</i> Morocco. |
| | SI-P-7 | Production of seedless triploid citrus from crosses between diploid female and tetraploid male parents. Minju Kim <i>et al.</i> Korea. |
| | SI-P-8 | Genetic diversity using molecular markers in citrus fresh fruit market cultivars. PhD. Luana Maro <i>et al.</i> Brazil. |
| | SI-P-9 | SCS458 Osvino: early tangerine cultivar, high productive potential, cold tolerance and seedless for Santa Catarina State, Brazil. PhD. Luana Maro <i>et al.</i> Brazil. |
| | SI-P-10 | Somatic embryogenesis through <i>in vitro</i> anther culture of <i>Citrus sinensis</i> L. Osbeck cultivar 'Moro'. Prof. Maria Antonietta Germanà <i>et al.</i> Italy. |
| | SI-P-11 | Development of triploidy program for citrus Moroccan culture. PhD. Hamid Benyahia <i>et al.</i> Morocco. |
| SI-P-12 | Construction of genetic maps of clementine and Star Ruby grapefruit based on SNP detected from Genotyping by Sequencing (GBS) data. PhD. Francois Luro <i>et al.</i> France. | |
| 17.00 - 18.30 | Welcome cocktail. | |

17th April

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| 8.30 - 9.10 | Transfer to the venue INIA Las Brujas. | |
| 9.15 - 10.00 SII-KL-1 | Session II: Physiology and Fruit Quality. | |
| | Keynote lecture: Transcriptional regulation of abiotic stress-responsive genes in <i>Citrus</i> and its related genera: from mechanism elucidation to gene exploitation. Prof. Ji-Hong Liu. Laboratory of Horticultural Plant Biology (MOE). College of Horticulture and Forestry Sciences. Huazhong Agricultural University. China. | |





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17th April

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| 10.00 - 10.20 | Coffee break. | |
| 10.20 - 12.20 | Session II: Physiology and Fruit Quality. | |
| | Oral presentations. | |
| | 10.20 - 10.40 SII-O-1 | Summer expression patterns of flowering genes in buds of <i>Citrus sinensis</i> (L.) Osbeck shoots at progressively advanced stages of maturity. Prof. Carol J. Lovatt. USA. |
| | 10.40 - 11.00 SII-O-2 | Auxin polar transport is associated with the control of alternate bearing in citrus. PhD. Avi Sadka. Israel. |
| | 11.00 - 11.20 SII-O-3 | Vesicular trafficking in abscission zone cells during ethylene-promoted fruit abscission in citrus. PhD. Francisco-Ramón Tadeo. Spain. |
| | 11.20 - 11.40 SII-O-4 | Mobilizing Ca to enhance fruit quality - Preharvest application of hairpin $\alpha\beta$ (ProActR) in citrus orchards in Spain. Angel Marín. Spain. |
| | 11.40 - 12.00 SII-O-5 | Natural allelic variations in 1,6-rhamnosyltransferase gene is responsible for content variations of hesperidin in fruits of various citrus germplasm. PhD. Juan Xu. China. |
| 12.00 - 12.20 SII-O-6 | Effect of low temperature-storage on the proteome of Moro blood orange flesh. PhD. Lourdes Carmona López. Brazil. | |
| 13.00 - 14.00 | Lunch. | |
| 14.00 - 16.00 | Session III: Pests and Diseases. | |
| | Oral presentations. | |
| | 14.00 - 14.20 SIII-O-1 | Application of the genetic engineering in breeding for citrus disease resistance. PhD. Lifang Sun. China. |
| | 14.20 - 14.40 SIII-O-2 | Developing of HLB resistance in citrus rootstocks through antimicrobial peptide expression. PhD. Carina Andrea Reyes Martinez. Argentina. |
| | 14.40 - 15.00 SIII-O-3 | Effect of <i>Candidatus Liberibacter asiaticus</i> on Central Carbon metabolism in different citrus cultivars. PhD. Camila Ribeiro. USA. |
| | 15.00 - 15.20 SIII-O-4 | Evaluation of the tolerance of diploid and triploid limes infected by HLB. PhD. Raphael Morillon. Guadalupe. |
| | 15.20 - 15.40 SIII-O-5 | Transcriptome profiling of canker resistant Bs2-transgenic citrus plant revealed the up-regulation of disease response genes. PhD. Lorena Sendin. Argentina. |
| 15.40 - 16.00 SIII-O-6 | Challenge of transgenic sweet orange expressing <i>d4e1</i> or <i>csd1</i> genes to <i>Xanthomonas citri</i> subsp. <i>citri</i> . Prof. Francisco de A. A. Mourão Filho. Brazil. | |
| 16.00 - 16.20 | Coffee break. | |
| 16.20 - 17.00 | Session III: Pests and Diseases. | |
| | Oral presentations. | |
| | 16.20 - 16.40 SIII-O-7 | Candidate genes for resistance to <i>Alternaria</i> brown spot in citrus and SNP markers for assisted selection. PhD. Pablo Aleza. Spain. |
| 16.40 - 17.00 SIII-O-8 | Progress on <i>Citrus tristeza virus</i> research in Uruguay: unravelling the enemy from the inside. María José Benitez. Uruguay. | |



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| 17.00 - 18.00 | Session II and III: Poster Presentations. | |
| | Session II: Physiology and Fruit Quality. | |
| | SII-P-1 | <i>In vitro</i> assessment of growth changes produced by salt in citrus rootstocks mutants tolerant to salinity. PhD. Fernando Córdoba <i>et al.</i> Spain. |
| | SII-P-2 | Characterization of the carotenoid accumulation in different hybrids from the Uruguayan <i>Citrus</i> Breeding Program. Ana Arruabarrena <i>et al.</i> Uruguay. |
| | SII-P-3 | Activity of the arbuscular mycorrhizal fungus, <i>Glomus iranicum</i> var <i>tenuihypharum</i> var <i>nova</i> , on <i>Citrus</i> development in south-eastern, Spain. PhD. Félix Fernández Martín. Spain. |
| | SII-P-4 | Effect of fruit size and polyethylene bag wrapping on the storage ability of citrus Harumi. PhD. Fumitaka Takishita <i>et al.</i> Japan. |
| | SII-P-5 | Variability levels of selected amino acids among mandarins produced in Uruguay. Sofia Rezende <i>et al.</i> Uruguay. |
| | SII-P-6 | Management of albedo breakdown in sweet oranges. PhD. Zahoor Hussain. Pakistan. |
| | SII-P-7 | Pre-harvest application of plant growth elicitors on the fruit quality of Kinnow (<i>Citrus reticulata</i> Blanco). Faheem Khadija <i>et al.</i> Pakistan. |
| | SII-P-8 | Fruit quality of different cultivars of sweet orange in relation tree age. PhD. Zahoor Hussain <i>et al.</i> Pakistan. |
| | SII-P-9 | Polyphenols and limonoids characterization in mandarin cultivars and its hybrids. Cecilia Rodriguez Ceraolo <i>et al.</i> Uruguay. |
| | SII-P-10 | Chemical composition and sensory analysis of Moroccan orange juice. PhD. Hamid Benyahia <i>et al.</i> Morocco. |
| | SII-P-11 | Formation of 'Flying Dragon' and 'Swingle' rootstocks: substrates and tegument in the emergence of seedlings". PhD. Luana Maro <i>et al.</i> Brazil. |
| | SII-P-12 | Development of molecular markers for the genotyping of Ruby alleles related to red-flesh trait in <i>Citrus</i> and their functional analysis. PhD. Ho Bang Kim <i>et al.</i> Korea. |
| | Session III: Pests and Diseases. | |
| | SIII-P-1 | Performance and reaction to Huanglongbing of Tahiti acid lime grafted on citrandarins. Bruna Aparecida Bettini <i>et al.</i> Brazil. |
| | SIII-P-2 | Global gene expression of <i>Poncirus trifoliata</i> under infection of <i>Candidatus Liberibacter asiaticus</i> . Maiara Curtolo <i>et al.</i> Brazil. |
| | SIII-P-3 | Prevalence of <i>Citrus tristeza virus</i> (CTV) genotype T30 in citrus areas in Cuba. Yilian Alvarez Llanes <i>et al.</i> Cuba. |
| | SIII-P-4 | Survey on the presence of <i>Xylella fastidiosa</i> and its potential insect vectors in Moroccan citrus orchards. PhD. Mohamed Afechtal <i>et al.</i> Morocco. |
| | SIII-P-5 | The citrus certification scheme in Morocco. PhD. Mohamed Afechtal <i>et al.</i> Morocco. |



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| 17.00 - 18.00 | Session II and III: Poster Presentations. Session III: Pests and Diseases. | |
| | SIII-P-6 | The use of next generation sequencing to investigate the susceptibility of <i>Murraya</i> genus to citrus canker. PhD. Concetta Licciardello <i>et al.</i> Italy. |
| | SIII-P-7 | Semiochemicals applications for citrus pest management in Uruguay: two cases of study. María Eugenia Amorós <i>et al.</i> Uruguay. |
| | SIII-P-8 | Current pest status and the integrated pest management strategy in the citrus groves in Morocco. PhD. Moulay Chrif Smaili <i>et al.</i> Morocco. |
| | SIII-P-9 | Host susceptibility of <i>Citrus</i> to <i>Ceratitis capitata</i> (Diptera: Tephritidae): does physico-chemical characteristics of the fruit influence the IPM strategy in the clementine groves in Morocco? PhD. Moulay Chrif Smaili <i>et al.</i> Morocco. |
| | SIII-P-10 | Effect of salinity on the development of <i>Phytophthora</i> diseases in citrus rootstocks. PhD. Hamid Benyahia <i>et al.</i> Morocco. |
| | SIII-P-11 | The effect of HLB on the <i>Citrus</i> industry economy: a case of Navel orange in three countries of South Jiangxi. Prof. Chunjie Qi. China. |
| | SIII-P-12 | Preliminary results of <i>Citrus tristeza virus</i> (CTV) population in lemon cultivars grafted on <i>Citrus macrophylla</i> and sour orange rootstocks. Beatriz Stein. Argentina. |

18th April

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| 8.30 - 9.10 | Transfer to the venue INIA Las Brujas. | |
| 9.15 - 10.00 SIV-KL-1 | Session IV: Development of Emerging Technologies and their Applications. Keynote lecture: <i>Citrus</i> improvement via CRISPR technology. Prof. Nian Wang. Associate Professor at the Department of Microbiology and Cell Science at the Citrus Research and Education Center, University of Florida (UF). USA. | |
| | 10.00 - 10.20 Coffee break. | |
| 10.20 - 12.00 | Session IV: Development of Emerging Technologies and their Applications. Oral presentations. | |
| | 10.20 - 10.40 SII-O-1 | CRISPR/Cas9-based editing of the DMR6 genes for resistance to Huanglongbing in citrus. Prof. Zhanao Deng. USA. |
| | 10.40 - 11.00 SII-O-2 | Transformation of <i>Citrus</i> plants with Cyclic Nucleotide-Gated Channel (CNGC) gene to develop broad-spectrum disease resistance. Prof. Madhurababu Kunta. USA. |
| 11.00 - 11.20 SII-O-3 | Development of marker free transgenic plants using recombinase mediated cassette exchange. Prof. Eliezer Louzada. USA. | |



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| 10.20 - 12.00 | Session IV: Development of Emerging Technologies and their Applications. Oral presentations. | |
| | 11.20 - 11.40 SII-O-4 | Development of site-specific recombinase technology for targeted citrus genome integration with marker removal. PhD. James Thomson. USA. |
| | 11.40 - 12.00 SII-O-5 | Detection of natural and induced mutations from next generation sequencing data in sweet orange bud sports. PhD. Concetta Licciardello. Italy. |
| 12.00 - 13.00 | Sponsors' Session. | |
| 13.00 - 14.00 | Closing ceremony. | |
| 14.00 - 15.00 | Lunch. | |
| 15.00 - 15.30 | Visit to INIA Las Brujas Experimental Station. | |
| 15.30 - 18.00 | Montevideo Tour. | |

SYMPOSIUM FEES

| CATEGORY | BEFORE 31 st JANUARY | AFTER 31 st JANUARY | ON SITE INSCRIPTION |
|-----------------|---------------------------------|--------------------------------|---------------------|
| ISHS MEMBER | 440 | 540 | 640 |
| NON ISHS MEMBER | 540 | 640 | 740 |
| Student (*) | 270 | 370 | 470 |

* Limited up to 10 students. Price in American dollars.

The Symposium fee payment can be made through the link:

www.goo.gl/dRiFY6

Registration fee includes Symposium materials, a copy of the Symposium proceeding, coffee breaks, lunches and transfers from and to INIA Las Brujas.

Declared as public interest event by the ministries



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