### SCIENTIFIC SESSIONS - PRELIMINARY SCHEDULE

**15th April**

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

**16th April**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8.00 - 8.40</td>
<td>Transfer to the venue INIA Las Brujas.</td>
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<tr>
<td>8.00 - 8.00</td>
<td>Inscription and Accreditation.</td>
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<tr>
<td>9.15 - 10.00</td>
<td>Opening ceremony of the symposium.</td>
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<tr>
<td>10.00 - 10.45</td>
<td><strong>Session I: Breeding, Genomics and Genetics.</strong></td>
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<tr>
<td>10.45 - 11.00</td>
<td><strong>Coffee break.</strong></td>
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<tr>
<td>11.00 - 12.40</td>
<td><strong>Session I: Breeding, Genomics and Genetics. Oral presentations.</strong></td>
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<tr>
<td>12.00 - 12.20</td>
<td>SI-O-4 Application of a MITE Citrus apomixis marker in the Australian rootstock breeding program. Malcolm Wesley Smith. Australia.</td>
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<tr>
<td>13.00 - 14.30</td>
<td>Lunch</td>
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<tr>
<td>14.30 - 15.15</td>
<td><strong>Session I: Breeding, Genomics and Genetics.</strong></td>
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<tr>
<td>15.15 - 15.55</td>
<td><strong>Session I: Breeding, Genomics and Genetics. Oral presentations.</strong></td>
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<tr>
<td>15.35 - 15.55</td>
<td>SI-O-7 NMR metabolomics as a prediction tool for consumers’ acceptance of mandarins. Prof. Horacio Heinzen. Uruguay.</td>
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<tr>
<td>16.00 - 16.20</td>
<td><strong>Coffee break.</strong></td>
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### 16th April

#### 16.20 - 17.00

**Session I: Breeding, Genomics and Genetics.**

**Poster Presentations.**

| S1-P-1 | Identification of zygotic and nucellar seedlings in *Citrus limon*: searching of molecular markers. PhD. Olaya Pérez-Tornero *et al.* Spain. |
| S1-P-2 | The incidence of ploidy according to embryo types in *Citrus* seed*. PhD. Jin Yeong Kim *et al.* Korea. |
| S1-P-3 | Molecular characterization by microsatellites of cultivars from the Cuban *Citrus* Protected Germplasm Bank. Yohaily Rodriguez Alvarez *et al.* Cuba. |
| S1-P-4 | Identification of Moroccan sweet orange variants with SSR and ISSR markers. PhD. Samia Lotfy *et al.* Morocco. |
| S1-P-5 | Friable callus induction and plant regeneration by organogenesis in two strains of trifoliate orange (*Poncirus trifoliata*). Phd. Hamid Benyahia *et al.* Morocco. |
| S1-P-6 | Development and molecular characterization of new citrus rootstocks using somatic hybridization assisted by nuclear and cytoplasmic microsatellite markers. PhD. O. Chetto *et al.* Morocco. |
| S1-P-7 | Production of seedless triploid citrus from crosses between diploid female and tetraploid male parents. Minju Kim *et al.* Korea. |
| S1-P-8 | Genetic diversity using molecular markers in citrus fresh fruit market cultivars. PhD. Luana Maro *et al.* Brazil. |
| S1-P-9 | SCS458 Osvino: early tangerine cultivar, high productive potential, cold tolerance and seedless for Santa Catarina State, Brazil. PhD. Luana Maro *et al.* Brazil. |
| S1-P-10 | Somatic embryogenesis through *in vitro* anther culture of *Citrus sinensis* L. Osbeck cultivar 'Moro'. Prof. Maria Antonietta Germanà *et al.* Italy. |
| S1-P-11 | Development of triploidy program for citrus Moroccan culture. PhD. Hamid Benyahia *et al.* Morocco. |
| S1-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 *et al.* France. |

#### 17.00 - 18.30

Welcome cocktail.

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### 17th April

#### 8.30 - 9.10

Transfer to the venue INIA Las Brujas.

#### 9.15 - 10.00

**Session II: Physiology and Fruit Quality.**

**Keynote lecture:** Transcriptional regulation of abiotic stress-responsive genes in *Citrus* and its related genera: from mechanism elucidation to gene exploitation.

### Session II: Physiology and Fruit Quality

#### Oral presentations

**10.20 - 10.40 SII-O-1**
Summer expression patterns of flowering genes in buds of *Citrus sinensis* (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**

**11.20 - 11.40 SII-O-4**
Mobilizing Ca to enhance fruit quality - Preharvest application of hairpin qβ (ProActR) in citrus orchards in Spain. Angel Marín. Spain.

**11.40 - 12.00 SII-O-5**
Natural allelic variations in 1,6-rhamnosytransferased gene is responsible for content variations of herperidin 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.

### Session III: Pests and Diseases

#### Oral presentations

**14.00 - 14.20 SIII-O-1**

**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 *Candidatus Liberibacter asiaticus* 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 d4e1 or csd1 genes to *Xanthomonas citri* subsp. *citri*. Prof. Francisco de A. A. Mourão Filho. Brazil.

**16.20 - 16.40 SIII-O-7**
Candidate genes for resistance to *Alternaria* brown spot in citrus and SNP markers for assisted selection. PhD. Pablo Aleza. Spain.

**16.40 - 17.00 SIII-O-8**
Progress on *Citrus tristeza virus* research in Uruguay: unravelling the enemy from the inside. María José Benitez. Uruguay.
### Session II: Physiology and Fruit Quality

#### SII-P-1
*In vitro* assessment of growth changes produced by salt in citrus rootstocks mutants tolerant to salinity. PhD. Fernando Córdoba *et al.* Spain.

#### SII-P-2
Characterization of the carotenoid accumulation in different hybrids from the Uruguayan *Citrus* Breeding Program. Ana Arruabarrena *et al.* Uruguay.

#### SII-P-3

#### SII-P-4
Effect of fruit size and polyethylene bag wrapping on the storage ability of *citrus Harumi*. PhD. Fumitaka Takishita *et al.* Japan.

#### SII-P-5
Variability levels of selected amino acids among mandarins produced in Uruguay. Sofía Rezende *et al.* Uruguay.

#### SII-P-6

#### SII-P-7
Pre-harvest application of plant growth elicitors on the fruit quality of *Kinnow* (*Citrus reticulate* Blanco). Faheem Khadija *et al.* Pakistan.

#### SII-P-8
Fruit quality of different cultivars of sweet orange in relation tree age. PhD. Zahoor Hussain *et al.* Pakistan.

#### SII-P-9
Polyphenols and limonoids characterization in mandarin cultivars and its hybrids. Cecilia Rodríguez Ceraolo *et al.* Uruguay.

#### SII-P-10
Chemical composition and sensory analysis of Moroccan orange juice. PhD. Hamid Benyahia *et al.* Morocco.

#### SII-P-11
Formation of 'Flying Dragon’ and ‘Swingle’ rootstocks: substrates and tegument in the emergence of seedlings”. PhD. Luana Maro *et al.* Brazil.

#### SII-P-12

### Session III: Pests and Diseases

#### SIII-P-1
Performance and reaction to Huanglongbing of Tahiti acid lime grafted on citrandarins. Bruna Aparecida Bettini *et al.* Brazil.

#### SIII-P-2
Global gene expression of *Poncirus trifoliata* under infection of *Candidatus Liberibacter asiaticus*. Maiara Curtolo *et al.* Brazil.

#### SIII-P-3
Prevalence of *Citrus tristeza* virus (CTV) genotype T30 in citrus areas in Cuba. Yilian Alvarez Llanes *et al.* Cuba.

#### SIII-P-4
Survey on the presence of *Xylella fastidiosa* and its potential insect vectors in Moroccan citrus orchards. PhD. Mohamed Afechtal *et al.* Morocco.

#### SIII-P-5
The citrus certification scheme in Morocco. PhD. Mohamed Afechtal *et al.* Morocco.
**17th April**

**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 *Murraya* genus to citrus canker. PhD. Concetta Licciardello et al. Italy.

- **SIII-P-7**
  Semiochemicals applications for citrus pest management in Uruguay: two cases of study. María Eugenia Amorós et al. Uruguay.

- **SIII-P-8**

- **SIII-P-9**
  Host susceptibility of *Citrus* to *Ceratitis capitata* (Diptera: Tephritidae): does physico-chemical characteristics of the fruit influence the IPM strategy in the clementine groves in Morocco? PhD. Moulay Chrif Smaili et al. Morocco.

- **SIII-P-10**

- **SIII-P-11**
  The effect of HLB on the *Citrus* industry economy: a case of Navel orange in three countries of South Jiangxi. Prof. Chunjie Qi. China.

- **SIII-P-12**
  Preliminary results of *Citrus tristeza virus* (CTV) population in lemon cultivars grafted on Citrus macrophylla and sour orange rootstocks. Beatriz Stein. Argentina.

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**18th April**

**8.30 - 9.10**

Transfer to the venue INIA Las Brujas.

**9.15 - 10.00**

**Session IV: Development of Emerging Technologies and their Applications.**

**Keynote lecture: Citrus 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**
  CRISPR/Cas9-based editing of the DMR6 genes for resistance to Huanglongbing in citrus. Prof. Zhanao Deng. USA.

- **10.40 - 11.00**
  Transformation of *Citrus* plants with Cyclic Nucleotide-Gated Channel (CNGC) gene to develop broad-spectrum disease resistance. Prof. Madhurababu Kunta. USA.

- **11.00 - 11.20**
  Development of marker free transgenic plants using recombinase mediated cassette exchange. Prof. Eliezer Louzada. USA.
18th April

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<td>10.20 - 12.00</td>
<td>Development of site-specific recombinase technology for targeted citrus genome integration with marker removal. PhD. James Thomson. USA.</td>
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| 11.20 - 11.40| SII-O-4

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<td>11.40 - 12.00</td>
<td>Detection of natural and induced mutations from next generation sequencing data in sweet orange bud sports. PhD. Concetta Licciardello. Italy.</td>
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<tr>
<td>12.00 - 13.00</td>
<td>Sponsors’ Session.</td>
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<tr>
<td>13.00 - 14.00</td>
<td>Closing ceremony.</td>
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<tr>
<td>14.00 - 15.00</td>
<td>Lunch.</td>
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<tr>
<td>15.00 - 15.30</td>
<td>Visit to INIA Las Brujas Experimental Station.</td>
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<tr>
<td>15.30 - 18.00</td>
<td>Montevideo Tour.</td>
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</tbody>
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**SYMPOSIUM FEES**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>BEFORE 31st JANUARY</th>
<th>AFTER 31st JANUARY</th>
<th>ON SITE INSCRIPTION</th>
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<tbody>
<tr>
<td>ISHS MEMBER</td>
<td>440</td>
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<td>640</td>
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<tr>
<td>NON ISHS MEMBER</td>
<td>540</td>
<td>640</td>
<td>740</td>
</tr>
<tr>
<td>Student (*)</td>
<td>270</td>
<td>370</td>
<td>470</td>
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* Limited up to 10 students. Price in American dollars.

The Symposium fee payment can be made through the link: [www.goo.gl/dRiFY6](http://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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