

# 7th International Symposium on Production and Establishment of Micropropagated Plants



## Program

# Monday, April 24, 2017

9.00-10.30	REGISTRATION AND WELCOME COFFEE
10.30-11.00	OPENING CEREMONY
	<b>OPENING PRESENTATION</b> Chair: Renato Paiva
11.00-12.00	<b>Challenges and opportunities for a sustainable agriculture in Brazil</b> <b>Luiz Roberto Guimarães Guilherme</b> Federal University of Lavras, Brazil
12.00-14.00	LUNCH Chair: Maurizio Lambardi
14.00-14.45	<b>Creativity in micropropagation: An overview of the AEMP/PEMP story and thoughts on what will the future bring?</b> <b>Paul E. Read</b> University of Nebraska-Lincoln, USA
	<b>SESSION 1 – PART 1 – MICROPROPAGATION OF TROPICAL PLANTS</b> Chair: Miguel Pedro Guerra
14.45-15.30	<b>Date palm micropropagation achievements and prospects</b> <b>Jameel M. Al-Khayri</b> King Faisal University, Saudi Arabia
	<b>ORAL PRESENTATION SESSION 1 (10 min+5min)</b>
15.30-15.45	<b>Acclimatization of micropropagated mature Avocado</b> Jayeni Hiti Bandaralage (Australia)
15.45-16.00	<b>Quality of light on the growth, production and accumulation of phenolic compounds in <i>Moringa oleifera</i> L. grown in vitro</b> Raphael Silva (Brazil)
16.00-16.30	COFFEE/TEA BREAK
	<b>SESSION 1 – PART 2 – MICROPROPAGATION OF TROPICAL PLANTS</b> Chair: Pablo Jourdan
16.30-17.15	<b>Exploring Brazilian Plant Diversity - Advances in somatic embryogenesis of selected perennial species</b> <b>Miguel Pedro Guerra</b> Federal University of Santa Catarina, Brazil
	<b>ORAL PRESENTATION SESSION 2 (10 min+5min)</b>
17.15-17.30	<b>A somatic embryogenesis based protocol for micropropagation of the terrestrial endemic orchid <i>Chloraea crispa</i> L</b> Rolando Garcia-Gonzáles (Chile)
17.30-17.45	<b>Regeneration by direct and indirect organogenesis pathways in <i>Passiflora edulis</i> as influenced by the explant source</b> Lucas Souza (Brazil)
17.45-18.00	<b>Somatic embryogenesis from oil palm zygotic embryos: The impact of medium components and culture conditions</b> Sylvie Weckx (Belgium)
18.00-22.30	WELCOME COCKTAIL

# Tuesday, April 25, 2017

8.00-9.00

REGISTRATION AND POSTER DISPLAYING

## SESSION 2 – PART 1 – MICROPROPAGATION TECHNIQUES: NEW KNOWLEDGE

Chair: Paul E. Read

9.00-9.45

**Micropropagated plants for short-term *in vitro* conservation and management of germplasm within the USDA's National Plant Germplasm System**

**Pablo Jourdan**

The Ohio State University, USA

## ORAL PRESENTATION SESSION 3 (10 min+5min)

9.45-10.00

**Preservation of the Linnaeus Chestnut planted 1749 in the South of Sweden by *in vitro* propagation**

Margareta Welander (Sweden)

10.00-10.15

**Micropropagation of the 800-year-old oaks (*Quercus robur* L.)**

Pawel Chmielarz (Poland)

10.15-10.45

COFFEE/TEA BREAK

## SESSION 2 – PART 2 – MICROPROPAGATION TECHNIQUES: NEW KNOWLEDGE

Chair: Maria Antonietta Germanà

10.45-11.30

**Somatic embryogenesis: Mass cloning and beyond**

**Jorge Manuel Pataca Leal Canhoto**

University of Coimbra, Portugal

## ORAL PRESENTATION SESSION 4 (10 min+5min)

11.30-11.45

**Acclimation of plants derived from embryo rescue of peach and pear fruits is improved by rooting in culture medium with vermiculite**

Ramon Dolcet-Sanjuan (Spain)

11.45-12.00

**Induction of somatic embryogenesis from leaf explants of chrysanthemum**

Tatiana Mitouchkina (Russia)

12.00-14.00

LUNCH

## SESSION 2 – PART 3– MICROPROPAGATION TECHNIQUES: NEW KNOWLEDGE

Chair: Jameel M. Al-Khayri

14.00-14.45

**Morphogenesis *in vitro* and environmental control: Important landmarks in plant tissue culture**

**Wagner Campos Otoni**

Federal University of Viçosa, Brazil

## ORAL PRESENTATION SESSION 5 (10 min+5min)

14.45-15.00

**Developing a reproducible methodology for *in vitro* regeneration of *Saccharum spontaneum***

Maja Simpraga (Belgium)

15.00-15.15

**Morphological and physiological effects of two different light sources on *in vitro* multiplication of chestnut and prickled broom**

José Carlos Gonçalves (Portugal)

15.15-15.30

***In vitro* rejuvenation of *Hevea brasiliensis***

Sarieh Ghorbani (Belgium)

15.30-16.00

OFFICIAL PHOTO

16.00-16.30

COFFEE/TEA BREAK

16.30-17.30

**ISHS Commission Molecular Biology and In Vitro Culture - Business Meeting**

17.30-18.30

POSTER VISION

19.30-22.30

PEMP DINNER

# Wednesday, April 26, 2017

8.00-9.00

## REGISTRATION

### SESSION 3 – TECHNOLOGIES, INNOVATIONS AND APPLICATIONS

Chair: Jorge Manuel Pataca Leal Canhoto

9.00-9.45

#### Applications of tissue culture to Citrus propagation and breeding

**Maria Antonietta Germanà**

University of Palermo, Italy

### ORAL PRESENTATION SESSION 6 (10 min+5min)

9.45-10.00

#### *In vitro* propagation system for induction of high ploidy levels in Actinidia for breeding of novel kiwifruit

Jin-Hu Wu (New Zealand)

10.00-10.15

#### Biotechnology tools to improve tamarillo (*Solanum betaceum*) micropropagation and breeding systems

Sandra Correia (Portugal)

10.15-10.45

## COFFEE/TEA BREAK

### ORAL PRESENTATION SESSION 7 (10 min+5min)

10.45-11.00

#### Mycorrhizal synthesis between *Tuber borchii* and *Arbutus unedo* L. using seedlings and *in vitro* plants

Filomena Gomes (Portugal)

11.00-11.15

#### Capacity to *in vitro* plant development in some Crimean essential oil cultures

Irina Mitrofanova (Russia)

11.15-11.30

#### Study on adventitious root cultures of Giao co lam (*Gynostemma pentaphyllum*) *in vitro* and saponin accumulation

Tran Van Minh (Vietnam)

11.30-11.45

#### *In vitro* establishment and anatomical analysis of *Bauhinia holophylla* (Bong.)

Vanessa Stein (Brazil)

11.45-14.00

## LUNCH

### SESSION 4 – CHALLENGES OF LARGE-SCALE PRODUCTION

Chair: Wagner Campos Otoni

14.00-14.45

#### Commercial micropropagation of fruit varieties and rootstocks between tradition and innovation

**Maurizio Lambardi**

CNR, Italy

### INDUSTRY PRESENTATION SESSION

14.45-15.00

#### BIOCELL - Clonagem e Diagnose Vegetal

Ênali de Paula Paiva (Brazil)

15.00-15.15

#### C4 Científica

Caio Roberto Bolonha (Brazil)

### ORAL PRESENTATION SESSION 8 (10 min+5min)

15.15-15.30

#### Establishment of photomixotrophic cultures for high-scale micropropagation by Temporary Immersion Bioreactors of commercial plant species

Ariel D. Arencibia (Chile)

15.30-15.45

#### Culture medium, LEDs and bioreactor to improve *in vitro* propagation of red currant

Juho Hautsalo (Finland)

15.45-16.00

#### *Ex vitro* establishment and macropropagation of cassava to obtain disease-free rooted plantlets

Cesar Naranjo (Costa Rica)

16.00-16.15	<b>Somatic hybridization for transfer of resistance against Asparagus virus 1 (AV-1)</b> <b>from <i>Asparagus amarum</i> into <i>A. officinalis</i></b> Evelyn Klocke (Germany)
16.15-16.45	<b>COFFEE/TEA BREAK</b>
16.45-17.15	<b>AWARDS CERIMONY</b>
17.15-18.00	<b>OFFICIAL CLOSING</b>
18.00-21.00	<b>SAMBA AND DRINKS</b>

## Thursday, April 27, 2017

6.00-20.00	<b>TECHNICAL TOUR</b>
	<b>Visit to the largest Brazilian biofactory of commercial micropropagated plants</b> Multiplanta Tecnologia Vegetal, Andradas, MG

## Friday, April 28, 2017

7.30-20.00	<b>SEMI-TECHNICAL TOUR</b>
	<b>A ride to a traditional Minas Gerais farm</b> Capetinga Farm, Três Pontas, MG



































