

# Program Schedule XI<sup>th</sup> International Citrus Congress 2008

26-30 Oct 2008, Wuhan, China

## SUNDAY 26 OCTOBER 2008

**16:00-16:40 Opening Ceremony,  
Lecture Hall Chairperson: Conghua Xie  
(Vice President of HZAU, China)**

**16:40-18:20 Opening Plenary Session,  
Lecture Hall  
Chairperson: Xiuxin Deng (HZAU, China)**

**16:40** Citrus Industry in China: Present and Future [1]  
Ye ZQ (Ministry of Agriculture, China)

**17:20** Citrus Genomics and Breeding [2]  
Roose ML (UCR, USA)

**17:50** A General Review on Citrus Huanglongbing [3]  
Zhao XY (Citrus Res Institute, China)

**18:20** End of Plenary Session

**19:00-21:00  
WELCOME RECEPTION**

## MONDAY 27 OCTOBER 2008

**Monday 8:30-18:00 Meeting Room (2)  
Citrus Biotechnology  
Chairpersons: Jude Grosser (USA)  
Patrick Ollitrault (France)**

**8:30** In-Vitro Breeding Provides New and Unique Opportunities for Conventional Citrus Breeding [4]  
Grosser JW, and Gmitter FG Jr

**9:00** Transgene Escape in Citrus Potential Opportunities for Escape and Potential Consequences [5]  
Ellstrand NC

**9:15** Fungal Infection Affects Gene Expression in Transgenic Lemon Plants Producing an Antimicrobial *Trichoderma harzianum* Endochitinase [6]  
Gentile A, Distefano G, La Malfa S, Toscano V, Vitale A, Polizzi G, and Deng ZN

**9:30** Research on Conversion of Synthetic Seeds of Carrizo Citrange [*C. sinensis* (L.) Osb. × *P. trifoliata* (L.) Raf.] [7]  
Germana MA, Micheli M, Macaluso L, and Standardi A

**9:45** Histological, Biochemical and Molecular Analysis of Pollen-pistil Interaction in Mandarins [8]  
Distefano G, Las Casas G, Caruso M, Gentile A, La Malfa S, Del Duca S, Herrero M, and Tribulato E

**10:00-10:15 Tea Break**

**10:15** Regulation of Carotenoid Biosynthesis in Citrus Fruits: Progress and Biotechnological Applications [9]  
Alquezar B, Rodrigo MJ, Pons E, Peña L, and Zacarias L

10:30 Expression Analysis of A Citrus Low Temperature Responsive Gene from *Poncirus trifoliata* and Mexican Lime [10]  
Pacheco A, Tagle J, Del Rio S, Ortiz C, and Louzada ES

10:45 Progress towards Incorporation of Antimicrobial Peptides for Disease Resistance in Citrus [11]  
Dutt M, Omar A, Orbovic V, Barthe G, and Grosser JW

11:00 Citrus Seedless Improvement at the Cellular and Molecular Levels [12]  
Guo WW, Tan B, Fu J, Cai XD, and Deng XX

11:15 Interaction between Hetero-cells in the Artificially-synthesized Graft Chimera in Citrus [13]  
Hirata Y, Hashimoto M, Zho JM, and Nwe YY

11:30 Study on Induction of Triploid Plants Derived From Local Citrus Cultivars of Vietnam [14]  
Vinh DN, Thuy HT, Thanh TN, Hanh TT, and Chien NT

11:45 Role of Polyamine Biosynthesis in Glycerol-mediated Somatic Embryogenesis of Valencia (*Citrus sinensis* Osbeck) Embryogenic Callus [15]  
Liu JH, Wu XB, Wang J, and Deng XX

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S2)**

**Citrus Biotechnology (continued)**  
**Chairpersons: Jude Grosser (USA)**  
**Ganjun Yi (China)**

14:00 An Efficient Method for Eliminating Citrus Virus from in Vitro Shoot-tips by Cryopreservation [16]  
Yi GJ, Ding F, Zeng JW, and Wang GP

14:15 Evaluation of Transgenic Citrus Rootstock [17]  
Toscano V, La Malfa S, Distefano G, Domina F, Continella A, Nicolosi E, and Gentile A

14:30 Evaluation of Characters in Transgenic Citrus Containing Bivalent Anti-bacterial

Peptide Genes *ShivaA-CecropinB* [18]  
HeYR, PengAH, Xu LZ, Lei TG, Liu XF, Yao LX, and Chen SC

14:45 Molecular Characterization of Chromosomes of *Poncirus trifoliata* Using Different DNA Sequences [19]  
Guerra M, Moraes AP, Mirkov E, Brasileiro-Vidal AC, Barros e Silva AE, and dos Santos Soares Filho W

15:00 Identification of Cold-regulated Genes in *Poncirus trifoliata* (L.) Raf. [20]  
Long GY, Deng ZN, Jiao L, Liu J, Rao LQ, and Xiong XY

**15:15-15:25 Tea Break**

15:25 Efficiency of Different Culture Mediums and Explant Types of some *Citrus* Rootstocks on Somatic Embryogenesis [21]  
Kacar AY, Bicen B, Varol I, Yesiloglu T, Yildirim B, Simsek O, Tuzcu O, and Ollitrault P

15:40 A Consensus Map Constructed with SSR and EST-SSR Markers Using Progeny Population from Sweet Orange × Tangor [22]  
Hong QB, Gong GZ, Peng ZC, Xiang SQ, Jiang D, and LeiTG

15:55 Impact of a New Nucleo-cytoplasmic Composition on the Citrus Fruit Quality [23]  
Bassene JB, Berti L, Fanciullino AL, Dhuique-Mayer C, Carcouet E, Morillon R, Ollitrault P, and Froelicher Y

16:10 Systemic Acquired Resistance (SAR) in Citrus: Genetic Transformation with SAR Genes to Combat Huanglongbing and Canker [24]  
Dutt M, Barthe G, and Grosser JW

**16:25-16:35 Tea Break**

**Monday 16:35-18:05 Meeting Room (2)**  
**Citrus Economics and Trade**  
**Chairpersons: Jonq-Ying Lee (USA)**  
**Mohamed El-Otmami (Morocco)**

16:35 The Production and Price Effects of Citrus Greening in Sao Paulo and Florida on the

- World Orange Juice Market [25]  
Spreen TH, Brown MG, Jauregui C, and Lee JY
- 16:50 Changes of Chinese Citrus Import and Export Pattern and Efficiency after Access to WTO [26]  
Qi CJ, and Zhang Y
- 17:05 Overview of Moroccan Citriculture: Current Situation, Trends and Major Challenges [27]  
El-Otmani M, and Ait-Oubahou A
- 17:20 The Potential Impact of Generic Promotion of Orange Juice Consumption in the European Union [28]  
Brown MG, Norberg R, and Lee JY
- 17:35 Conflict between Some Market Forces and Scientific Developments that Drive the Development of Future Citrus Production and Fruit Handling Practices [29]  
Hattingh V, and Grout TG
- 17:50 Citrus Industry in Egypt [30]  
Marei H

**Monday 8:30-12:00 Meeting Room (3)  
Postharvest Pathology  
Chairpersons: Samir Droby (Israel)  
Antonio Ippolito (Italy)**

- 8:30 *Penicillium digitatum* Actively Suppress Defense-related Hydrogen Peroxide Burst during Infection of Citrus Fruit [31]  
Droby S, Macarisin D, Cohen L, and Wisniewski M
- 8:45 Evaluation of the Biofungicides Effects of Lactic Acid Bacteria against *Penicillium digitatum* [32]  
Gerez CL, Carbajo MS, Rollán G, de Valdez GF, and Leal GT
- 9:00 Cloning and Primary Functional Analysis of *Pdmfs1*, A Major Facilitator Superfamily Transporter from the Fungal Pathogen *Penicillium digitatum* [33]  
Wang JY, and Li HY
- 9:15 The Role of Volatile Compound in Recognition and Germination of *Penicillium Digitatum* and *Penicillium Italicum* on Citrus Fruit [34]  
Droby S, Eick A, Macarisin D, Cohen L and Rafael G

- 9:30 Studies on Application Strategy of Salts for Controlling *Penicillium* Rot of Valencia Late Oranges [35]  
Youssef K, Ligorio A, Pentimone I, Yaseen T, Nigro F, and Ippolito A

- 9:45 Postharvest Diseases Management of Citrus in Italy: Current Status and New Strategies [36]  
Lanza G, di Martino Aleppo E, Strano MC, Calandra M, Aloisi V, and Privitera D

**10:00-10:15 Tea Break**

- 10:15 The Effect of Fludioxonil on Reducing Strains of the Pathogens *Penicillium Digitatum* and *Penicillium Italicum* on Various Cultivars of Australian Citrus [37]  
Cunningham N, Lucas N, and Taverner P

- 10:30 *Kloeckera apiculata* Strain 34-9 Preparation for Biocontrol of Postharvest Decay of Citrus and Possible Mode of Action [38]  
Long CA, Yuan G, and Deng BX

- 10:45 Pyrimethanil – A New Fungicide for the Control of Postharvest Decay of Citrus Fruit [39]  
Smilanick JL, Bylemans D, Torres Leal GJ, and Lesar K

- 11:00 Lemon Post-harvest Decay Control by Natural Products [40]  
Adele S, Giuseppa S, Giuseppe P, Francesca B, and Francesco C

- 11:15 Assessing the Efficacy of Preharvest Treatments to Control Water Spot in Clementine [41]  
Lanza G, Aloisi V, Privitera D, and Chiarenza A

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S6)**

**Monday 14:00-17:30 Meeting Room (3)  
Postharvest Quality  
Chairpersons: Mark Ritenour (USA)  
John P Bower (South Africa)  
Zhengguo Li (China)**

- 14:00 Postharvest Research Programs on Citrus at the USDA/ARS Citrus and Subtropical Products Laboratory [42]  
Baldwin EA

- 14:15 The Effect of Potassium, Calcium and Magnesium Foliar Applications on Postharvest Rind Breakdown of 'Nules Clementine' Mandarin [43]  
Cronjé PJR, Barry GH, and Huysamer M
- 14:30 Effects of Postharvest Application of Ethylene Gas or Ethephon on Color Development and Carotenoid Accumulation in Ponkan Fruit [44]  
Xu CJ, Zhou JY, Sun CD, and Chen KS
- 14:45 Influence of Hot Water and Molybdenum Dips on the Production of Total Antioxidants in Lemon Rind during Cold Storage and Their Ability to Scavenge Reactive Oxygen Species [45]  
Mathaba N, Bower JP, and Bertling I
- 15:00 Characterization of A Marker of Mechanical Damage in Clemenules [46]  
Larrigaudière C, Molina D, Schotsmans W, and Recasens I
- 15:15 Heat Treatment and Molybdenum Dips Influences on Flavedo Soluble Sugars of Lemon to Enhance Resistance to Chilling Injury [47]  
Bower JP, Mathaba N, and Bertling I
- 15:30 Relationship between Internal Gases, Ethanol Content and Physico-chemical Changes of Coated Tangerine Fruit cv. 'Sai Nam Pung' [48]  
Roongruangsri W, Rattanapanone N, and Boonyakiat D
- 15:45-16:00 Tea Break**
- 16:00 Changes in Sensitivity to Mechanical Damage in Relation to Cultivar, Maturity, Degreening Process and Storage [49]  
Larrigaudière C, Schotsmans W, and Recasens I
- 16:15 Effect of Postharvest Ethylene Treatment on Carotenoid Accumulation and Expression of Carotenoid Biosynthesis-related Genes in Satsuma Mandarin (*Citrus unshiu* Marc.) Fruit Fluctuate between Temperatures [50]  
Matsumoto H, Ikoma Y, Kato M, Nakajima N, and Hasegawa Y
- 16:30 Effects of Polyamines and Salicylic Acid on Postharvest Lemon Quality [51]  
Zheng YS, Arpaia ML, and Lovatt CJ
- 16:45 Washing Method Influences Color Development during Degreening of Grapefruit, Orange, and Tangelo Fruit [52]  
Ritenour MA
- 17:00 Microarray Analysis of Gene Expression Profiles in Citrus Fruit Treated with Chitosan [53]  
Trullo MC, Merelo-Cremades P, Schena L, Tadeo FR, González-Candelas L, Talón M, and Ippolito A
- 17:15 Ethanol Fermentation Metabolism and Accumulation of off Flavors in Citrus Fruit [54]  
Shi JX, Goren R, Goldschmidt EE, and Porat R
- Monday 8:30-11:30 Meeting Room (4)  
Citrus Biochemistry  
Chairpersons: Russell Rouseff (USA)  
Bhimu Patil (USA)  
Houjiu Wu (China)**
- 8:30 Aroma Volatile Differences in Juices from HLB Infected and Control Late Season Valencia Oranges [55]  
Rouseff R, Danyluk M, Goodrich R, Sims C, Valim F, and Spann T
- 8:50 Theory and Application of Near Infrared Spectroscopy in Assessment of Citrus Quality: A Review [56]  
Ying YB, Lin HJ, and Chen ML
- 9:10 New Developments on the Environmentally Friendly Microbiocidal Formulation of Components of Essential Oil of Lemon Peel [57]  
Ben-Yehoshua S, and Rodov V
- 9:25 Variation of Flavonoids in Different *Citrus* Juices Cultivated in China [58]  
Jiao BN, Fu CM, and Su XS
- 9:40 Quantity Evaluation on Juice Color of Oranges Produced in China [59]  
Yan H, Wu HJ, and Dou HT
- 9:55-10:10 Tea Break**
- 10:10 Physical, Pathological and Biochemical Studies on Seed Mucilage in Three Citrus Rootstocks [60]  
Jaskani MJ, Naqvi SA, Khan MM, Shahid

M, and Khan IA

10:25 Conditions of Immobilization Effect on Naringinase Activity for Hydrolyses of Naringin [61]  
Lei SJ, Xu XY, and Pan SY

10:40 Juice Processing Characteristics of Local Sweet Orange Cultivars in Hunan Province [62]  
Wang RC, Long GY, Zhou MQ, Wu HJ, Xiong XY, Sun ZG, and Deng ZN

10:55 An Overview of the Current Research in Citrus Carotenoids: Achievements and Needs [63]  
Meléndez-Martínez AJ, Vicario IM, and Heredia FJ

11:10 Studies on the Content of *d*-limonene in Different Citrus Varieties [64]  
Chen JJ, Sun ZG, Yang XJ, and Wu HJ

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S7, S8)**

**Monday 14:00-18:00 Meeting Room (4)**

**Climate and Environment**

**Chairpersons: Gene Albrigo (USA)**

**Eduardo Carlos (Brazil)**

**Zhonghai Sun (China)**

14:00 Potential Impact of Global Warming on World Citrus Production [65]  
Albrigo LG

14:30 Citrus Cold Injury and Related Studies in China [66]  
Sun ZH, Xu M, He LG, and Jiang YC

14:50 Heat Unit Mapping and the Effects of Climatic Conditions on Citrus Phenology with Reference to Developmental Responses to Climate Change [67]  
Khurshid T, and Sanderson G

15:10 Regulation of Flowering in *Citrus*: Preliminary Results on the Role of Water-deficit Stress and Abscisic Acid [68]  
Becerra BJ, Narváez-Vásquez J, Orozco-Cárdenas M, and Lovatt CJ

15:25 Girdling Induces Photoinhibition and Trigger Photoprotecting Mechanisms in Young Leaves from Vegetative Shoots

15:40 Fruit Set in ‘Ortanique’ Tangor in Response to Pollination and Different Stress Situations [70]

Borges A, Barros MDC, Franco J, García M, and Gravina A

**15:55-16:10 Tea Break**

16:10 Photosensitive, Anti-hail, Netting for Improved Citrus Productivity and Quality [71]

Wachsmann Y, Zur N, Shahak Y, Cohen S, Ratner K, Giler Y, Schlizerman L, Giladi B, Faintzak M, Kanonich S, and Sadka A

16:40 Flowering Timing and Fruit Quality in a Valencia Sweet Orange Grove under Water Stress in Brazil [72]

Carlos EF, Giacomelli VJ, Alves AA, Fender LC, Eugênio M, Rodrigues V, and Albrigo LG

16:55 Rootstock Performance for ‘Nagpur’ Mandarin (*Citrus reticulata* Blanco) in Humid Subtropical India [73]

Gupta SG, Srivastava AK, and Sonkar RK

17:10 Study on Heavy Metal Accumulation in Organs and Tissues of Newhall Navel Orange Trees under As, Pb and Hg Stress [74]

Chun CP, Peng LZ, Lei T, Cao L, Jiang CL, and Ling LL

17:25 Potential for Rapid Economic Return via Micro-budded, High Density Citrus [75]  
Skaria M

17:40 Physiological Responses of Citrus Plants to Soil Waterlogging [76]

Arbona V, López-Climent MF, Pérez-Clemente RM, and Gómez-Cadenas A

17:55 Effects of Pruning Time and Fruit Mother Branch Control on the Flowering Set Volume and Fruit Quality in ‘Shiranuhi’ Mandarin Hybrid in the Plastic Film House [77]

Kim YH, Koh SW, Moon DG, and Choi YH

**Monday 8:30-16:00 Meeting Room (5)**  
**Citrus Huanglongbing**  
**Part 1: HLB Management**  
**Chairpersons: Yongping Duan (USA)**  
**Timothy Spann (USA)**

8:30 Role of Psyllid Analysis for Presence of Huanglongbing (HLB) for Management of HLB Disease [78]  
 Keremane M, Ramadugu C, Halbert S and Lee R

8:45 Huanglongbing (HLB) Research and Control Strategy in the State of São Paulo, Brazil [79]  
Carlos EF, Coletta-Filho HD, Alves KCS, Lotto LL, Fender LC, Bonato F, Eugênio M, and Machado MA

9:00 The State of California Action Plan for Huanglongbing and Its Vectors [80]  
 Polek ML, and Luque-Williams MJ

9:15 Role of Chemical Control in the Integrated Management of *Diaphorina citri* and Huanglongbing Disease in Florida Citrus [81]  
Qureshi JA, and Stansly PA

9:30 Management of Citrus Psylla (*Diaphorina citri* Kuwayama) in Guangdong [82]  
Zeng XN, and Zaka SM

**9:45-10:00 Tea Break**

10:00 Seasonal Abundance of *Diaphorina citri* and *Tamarixia radiata* in Citrus Groves and *Murraya paniculata* of Corrientes, Argentina [83]  
Sara C, Aguirre A, Miño V, and Almirón L

10:15 Huanglongbing in Cuban Citriculture [84]  
 Luis Pantoja M, Collazo Cordero C, Llauger Riverón R, Peña Bárzaga I, López Hernández D, Blanco E, Casín JC, Batista Le Riverend L, Tanaka FAO, Salaroli RB, Martins E, Teixeira D, Kitajima E, Ayres J, Bové JM, Perez JL, Cueto JR

10:30 Biologically Based Management of the Citrus Psylla *Diaphorina Citri* and Huanglongbing in Florida [85]  
 Stansly PA and Qureshi JA

10:45 Citrus Greening (Huanglongbing) Disease

in India: Current Status and Diagnostic Approaches [86]  
Das AK

**11:00-11:10 Tea Break**

**Citrus Huanglongbing**  
**Part 2: HLB Host, Psyllid and Pathogen Characterization**  
**Chairpersons: Jianchi Chen (USA)**  
**Richard Lee (USA)**

11:10 Genome Sequencing of *Candidatus Liberibacter Asiaticus*, the Causal Agent of Citrus Huanglongbing (greening) in Florida [87]  
Duan YP, Zhou LJ, Hall D, Li WB, Liu L, and Gottwald T

11:25 Molecular Identification of *Candidatus Liberibacter Asiaticus* from Guangdong Province, P. R. China [88]  
Deng XL, Xu JH, Guo H, Pu XL, Cai LL, Zhang P, and Liu R

11:40 Quantification and Multiplication of '*Candidatus Liberibacter Asiaticus*' in Grafted Inoculated Sweet Orange Tress Using HLB Infected Buds [89]  
 Coletta-Filho HD, Carlosa EF, Alves KCS, Pereira MAR, Fender LC, Lotto LL, Boscariol-Camargo RL, Souza AA, and Machado MA

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S5)**

14:00 Huanglongbing Effects on Nutrient Balance and Starch Content of Sweet Orange Leaves [90]  
Spann TM, Schumann A, Etxeberria E, and Oswald WC

14:15 Molecular Characterization of the Citrus Huanglongbing (HLB) Associated Bacterium *Candidatus Liberibacter* [91]  
 Doddapaneni H, Lin H, Liao HH, Bai XJ, Zhao XL, and Civerolo EL

14:30 Detection of a Phytoplasma in Citrus Showing Huanglongbing (yellow shoot disease) Symptoms in Guangdong, P. R. China [92]  
Chen JC, Deng XL, Pu XL, Liu SZ, Li HP, and Civerolo E

14:45 Management of Greening by Producing Healthy Plants, Monitoring Vectors and Identification of Tolerance [93]  
Khan IA, Jaskani MJ, Khan MM, Razi MF, and Lee RF

15:00 Genetic Diversity of ‘*Candidatus Liberibacter Asiaticus*’ Isolates from Different Geographical Regions in China [94]  
Zhou BB, Yin YP, Hu H, and Wang ZK

15:15 Transcriptional Responses and Carbohydrate Metabolism of Citrus Infected with *Candidatus Liberibacter Asiaticus*, the Causal Agent of Huanglongbing in Florida [95]  
Albrecht U, and Bowman KD

15:30 Olfactory and Electroantennogram Responses of Asiatic Citrus Psyllid Adults to Host and Non-host Plant Volatiles [96]  
Cen YJ, Xu D, Qi XX, Beattie GAC, and Liang GW

15:45- 16:00 Tea Break

**Monday 16:00-18:00 Meeting Room (5)  
IOCV Workshop**

**Chairpersons: Nuria Duran-Vila (Spain)  
Richard Lee (USA)**

- 1) Presentation of the International Organization of Citrus Virologists. Who we are? What are we doing? Introduction to the information available in the web (Newsletters, Proceedings, Awards, etc) by Duran-Vila N
- 2) History of IOCV by Bové JM
- 3) Presentation of An Ongoing Project: Update of Information Regarding Graft-transmissible Diseases of Citrus with Photos Accessible to Everyone Who Wishes to Use Them. By Duran-Vila N
- 4) Update on the Occurrence and Impact of Citrus Huanglongbing around the World. By Bové JM
- 5) Graft-transmissible Diseases of Citrus in China. By Zhou CY
- 6) Open Discussion Regarding Graft-transmissible Diseases of Citrus among All Those That Will Attend the Workshop

## **TUESDAY 28 OCTOBER 2008**

**Tuesday 8:30-18:00 Meeting Room (2)  
Citrus Genomics  
Chairpersons: Fred Gmitter (USA)  
Manuel Talon (Spain)**

8:30 The International Citrus Genome Consortium (ICGC) Citrus Genome Sequencing Project: A Status Report [97]  
Gmitter FG Jr

8:45 Identification of Candidate Genes in Citrus through Comparative Genomic Hybridization and Transcriptome Analysis [98]  
Rios G, Naranjo MA, Agusti J, Brumos J, Carrera E, Cercos M, Colmenero-Flores JM, Ibez V, Iglesias D, Lliso II, Ruiz-Rivero O, Tadeo FR, Terol J, and Talon M

9:00 New Insights into Plant ‘stay-green’ Phenotypes through Integrated Transcriptomic, Proteomic and Metabolite Profiling of *navel negra* (nan) Citrus Mutant [99]  
Alós E, Roca M, Iglesias DJ, Mínguez-Mosquera MI, Damasceno CMB, Thannhauser TW, Rose JKC, Cercós M, and Talón M

9:15 Molecular and Cytological Characterization of Homozygous Plants of *Citrus clementina* Hort. ex Tan, Candidates for Citrus Genome Sequencing [100]  
Germana MA, Carrera E, Chen CX, Dambier D, Deng XX, Federici CT, Gmitter FG Jr, Guo WW, Kwok K, Luro F, Machado M, Naranjo MA, Navarro L, Ollitrault P, Rios G, Roose ML, Talon M, and Xu Q

9:30 EST-SSRs in Citrus: Features, Polymorphism and Mappability [101]  
Luro F, Costantino G, Traore S, Demonjoz C, Albertini MV, Terol J, Talon M, Argout X, Froelicher Y, Ollitrault P, and Morillon R

9:45 Transcriptome Analysis of A Spontaneous Red-flesh Mutant in Sweet Orange (*Citrus sinensis* [L.] Osbeck) During Fruit Development [102]  
Liu Q, Zhu AD, Chai LJ, Zhou WJ, Yu KQ, Ding J, Xu J, and Deng XX

10:00-10:15 Tea Break

- 10:15 Identification of Transcriptional Factor Genes that Show Different Expression Profiles among Cultivars of Satsuma Mandarin [103]  
Shimizu T, Fujii H, Yano K, Omura M, Shimada T, Nishikawa F, and Endo T
- 10:30 cDNA-AFLP Identifies Differently Expressed Transcripts of a Novel Late-ripening *Citrus sinensis* Mutant Related to Fruit Ripening [104]  
Liu YZ, Zhu AD, Ye JL, Baig MN R, and Deng XX
- 10:45 Gene Expression of Carotenoid Biosynthesis Pathway and Carotenoid Content in Different Varieties of Sweet Orange (*Citrus sinensis* L. Osb.) [105]  
Machado MA, Astúa JF, do Amaral AM, Malosso A, and Mazzafera P
- 11:00 Characterization of Citrus Conserved EST Orthologs to Improve Genome Map [106]  
Chen CX, and Gmitter FG Jr
- 11:15 Chloroplast DNA Analysis in Mandarins (*Citrus* spp.) and Their Close Relatives Using Cleaved Amplified Polymorphic Sequence (CAPS) Method [107]  
Abkenar AA, Yamamoto M, Katayama Y, Matsumoto R, and Mardi M
- 11:30 Functional and Structural Roles of the H-site Residues in Two Sweet Orange Tau-type Glutathione S-transferases: a site-directed Mutagenesis Approach [108]  
Lo Piero AR, Mercurio V, Puglisi I, and Petrone G
- 11:45 Comparative SSR Marker Maps of Sweet Orange, Trifoliate Orange, Citranges, and Mandarins [109]  
Lyon M, Federici CT, Mu L, and Roose ML
- 12:00-13:00 Lunch Break**  
**13:00-14:00 Poster Session (S2)**
- Citrus Genomics (continued)**  
**Chairpersons: Marcos Machado (Brazil)**  
**Tokuro Shimizu (Japan)**
- 14:00 Molecular Phylogeny of True Citrus Fruit Trees Group (Aurantiaceae, Rutaceae) as Inferred from AFLP Marker and Chloroplast DNA Sequence [110]  
Lu ZH, Zhou ZQ, and Xie RJ
- 14:15 Precocious Flowering of *Citrus* Seedlings and Short Juvenility of *Poncirus* Seedlings: Usage for Genetic Analysis and Breeding [111]  
Kim JH, Wakana A, Sekiya T, Tanimoto Y, Ngo BX, and Sakai K
- 14:30 Molecular Cloning and Expression Analysis of a Senescence-associated Cysteine Protease Gene from Navel orange (*Citrus sinensis* Osbeck) [112]  
Fan J, Deng W, Gao X, Yang YW, Falara V, Kanellis AK, and Li ZG
- 14:45 Genetic Analysis of Xylella Fastidiosa Plant Resistance: Citrus Reticulata as a Model for Understanding Incompatible Host-pathogen Interaction [113]  
Souza AA, Takita MA, Rodrigues CM, Teixeira JEC, Campos MA, Targon MLPN, Coletta-Filho HD, and Machado MA
- 15:00 Development of SNP Markers for Citrus Genotype Analysis [114]  
Zhong GY, Zeng ZR, Ye QL, and Jiang D
- 15:15 Differential Gene Response of Citrus to CiLV [115]  
Bastianel M, Freitas-Astúa J, Nicolini F, Cristofari-Yaly M, Kubo K, Novelli VM, and Machado MA
- 15:30-15:45 Tea Break**
- 15:45 Haploid Plant of *Citrus Clementina* Hort. ex Tan. 'Clemenules' Selected to Establish the First Reference whole Citrus Genome Sequence [116]  
Aleza P, Juárez J, Ollitrault P, and Navarro L
- 16:00 Albinism in *Citrus* and *Poncirus*: Genetic Aspect [117]  
Wakana A, Ngo BX, and Sakai K
- 16:15 Flower Formation and Phase Development Mechanism in Citrus Plant: Progress Report [118]  
Zhang JZ, Mei L, Li ZM, and Hu CG
- 16:30 New Expansin Protein Genes from *Arabidopsis Thaliana* Similar to p12 Protein Gene Associated with Citrus Blight Disease [119]  
Kayim M, Derrick KS, Barthe GA, and Beretta JM

16:45 Identification of Molecular Markers Linked to Seedless Character in Ponkan Mandarin (*Citrus reticulata* Blanco) Using AFLP [120]  
Xiao JP, Chen LG, Xie M, and Ye WQ

17:00 High Throughput Sequencing Provides New Opportunity to Plant Genome Research [121]  
Wang J

**Tuesday 17:20-18:20 Meeting Room (2)  
ICGC Workshop  
Chairperson: Fred Gmitter (USA)**

**Tuesday 8:30-18:00 Meeting Room (3)  
New Scion and Rootstocks  
Chairpersons: Steve Sykes (Australia)  
Maria Angela Forner (Spain)**

8:30 Exploitation of Citrus Bud Sports for Both Breeding and Genomics Research [122]  
Deng XX, Zhang M, Liu Q, Zhang JC, Xu Q, Xu J, and Cheng YJ

8:50 Australian *Citrus* Species as Germplasm Resources for Breeding Novel Fruit Types [123]  
Sykes S

9:10 Selection of a New Sweet Orange Clone: Pera Mahle a Top Orange Tree [124]  
Carlos EF, de Mattos Jr D, de Negri JD, Pompeu Jr J, Machado MA, Sempionato OR, and Stuchi ES

9:25 Finding a Replacement Rootstock for Sour Orange for Texas Soil Conditions [125]  
Louzada ES, del Rio HS, Sétamou M, Watson JW, and Swietlik DM

9:40 Low-Seeded to Seedless Mandarin Orange Varieties Evaluated For Quality Characteristics in California [126]  
Kahn T, Siebert T, and Blyskal K

**9:55-10:10 Tea Break**

10:10 Comparison of Three New Citrus Rootstocks from USDA: US-802, US-812 and US-897 [127]  
Bowman KD, Albrecht U, and McCollum G

10:25 Selection and Field Evaluation of ‘Valencia’ Somaclones and Irradiated ‘Midsweet’ Sweet orange (*Citrus sinensis*) Selections

[128]  
Ling P, Castle WS, Gmitter FG Jr, and Grosser JW

10:40 Commercial Cultivation of Citron (*Citrus medica* L.) [129]  
Karp D

10:55 Breeding for Climate Change in Sub-tropical Australia [130]  
Smith MW, Gultzow DL, Newman TK, Chapman JC, Hofman HJ, and Johnson TV

11:10 The Effect of Nucellar Seedling and Micro-Propagated Clonal Rootstocks on the Performance of Imperial and Sunset Mandarins [131]  
Sykes S

11:25 Citrus Genetic Resources and Mapping of Citrus Genetic Diversity in India [132]  
Singh IP, and Singh S

11:40 Rootstocks Research for Mexican Lime Trees (*Citrus aurantifolia* Swingle) in Mexico: an Overview [133]  
Medina-Urrutia VM

**12:00-13:00 Lunch Break  
13:00-14:00 Poster Session (S1)**

**New Scion and Rootstocks (continued)  
Chairpersons: Kim Bowman (USA)  
Giuseppe Reforgiato Recupero (Italy)  
Guangyan Zhong (China)**

14:00 Citrus Scion Breeding at the USDA/ARS U.S. Horticultural Research Laboratory [134]  
McCullum TG, Niedz RP, and Stover EW

14:20 The Irradiation Mutation Breeding Program at the University of California Riverside [135]  
Williams TE, and Roose ML

14:40 Behavior of ‘Valencia’ Orange Grafted in 20 Rootstocks, in a Sandy Loam Soil of Tlapacoyan, Veracruz, Mexico [136]  
Curti-Díaz SA, Loredó-Salazar RX, Rodríguez-Cuevas M, and Krueger R

14:55 Phenology and Juice Quality of Dalan Dan Grapefruit in Corrientes, Argentina [137]  
Rinsdahl-Canavosio MA, Gochez AM, Lezcano A, Soliz J, and Canteros BI

15:10 'Tango' – a New, Very Low-Seeded, Late-Season Irradiated Selection of 'W. Murcott' Mandarin from the University of California Riverside [138]  
Williams TE, and Roose ML

15:25 Breeding of a New Few-Seedy Citrus Cultivar 'Shaohehongcheng' [139]  
Tang XL, Li ZQ, Wu SY, Peng CJ, Ma PQ, Wu W, Huang YJ, and Wang P

**15:40-15:50 Tea Break**

15:50 'Daisy SL', 'Fairchild SL', and 'Kinnow SL' – Three New, Low-Seeded, Mid-Season Irradiated Mandarin Selections from the University of California Riverside [140]  
Williams TE, and Roose ML

16:05 The effect of Chinese Rootstocks on Tree Growth, Yield and Quality of Navelina Oranges Grown in Australia [141]  
Khurshid T, Sykes S, and Barkley P

16:20 A Program of the Diversification of Mandarin and Orange Varieties in Morocco [142]  
Handaji N, Arsalane N, Ben Azouz A, Srairi I, Sagide A, Gaboneet F, and BenyahiaH

16:35 Recent Advances in Aurantioideae Taxonomy [143]  
Krueger RR

16:50 Research Program of Genetic Diversification on Citrus Rootstocks in Inra Morocco [144]  
Benyahia H, Handaji N, Beniken L, Lotfy S, Benazzouze A, Arsalan N, Cahdly F, Srairi I, Kabbage T, Essagid A, Curk F, Jacquemond C, Dambier D, Ollitrault P, El Lyouri M, and Talha A

17:05 Evaluation of New Rootstocks for Tarocco and Washington Navel Oranges and for Common Clementine in Italy [145]  
Russo G, Recupero S, Zurr R, Deidda B, Mulas M, and Reforgiato Recupero G

17:20 Resistance to Citrus Canker: Field Evaluation of Sweet Orange and Mandarins Germplasm [146]  
Carvalho SA, Croce-Filho JC, NunesWMC, Amaral AM, Belasque JR, Bassanezzi RB, and Machado MA

17:35 Comparative Performance of Daisy and Nova Mandarin from 1999 – 2008 Grafted to Valencia Orange [147]  
Sanderson G, and Treeby M

**Tuesday 8:30-12:00 Meeting Room (4)**

**Quality Physiology**

**Chairpersons: Yoshinori Ikoma (Japan)  
Avi Sadka (Israel)**

8:30 Characteristics in the Expression of Carotenoid-biosynthetic Genes and the Accumulation of Beta-cryptoxanthin in Citrus Hybrids [148]

Ikoma Y, Matsumoto H, Nakajima N, Fujii H, Shimada T, Endo T, Nonaka K, Kita M, Nesumi H, and Omura M

8:50 Grappling with Granulation in Imperial Mandarins [149]

Hofman H, Smith M, and Walsh K

9:10 Difference of Cell Wall Metabolism in Pericarp of Citrus Fruit and Its Relation to Creasing Fruit Ratio [150]

Li J, Zhang PP, Chen JZ, and Yao Q

9:30 Factors Affecting Peel Browning of Afourer 'Nadorcot' Mandarin Fruit in Morocco [151]

Ait-Oubahou A, El Krouchni T, Talhi M, Goumari M, and Laamim M

9:50 The Regulation of Aconitase, a Central Enzyme of Citric Acid Metabolism in Citrus Fruit [152]

Degu A, Prakash S, Schlizerman L, Zur N, Hatew B, Blumwald E, and Sadka A

**10:10-10:20 Tea Break**

10:20 Studies on "On-tree Storage" of Citrus Fruit for Navel Orange, Blood Orange (*Citrus sinensis*) and Ponkan Tangerine (*C. reticulata*) [153]

Liu JJ, Chen KL, Luo N, Qing SM Xu HT, Deng JL, Li HW, GuanB, He J, Huang J, Wu BX, Yang QY, Xiao WL Chen W, Yang ZK, and Wang RC

10:40 Cross Pollination, Seediness, and Stimulated Parthenocarpy of 'Nules' Clementine, 'Fina Sodea' Clementine and 'W. Murcott' Mandarin [154]

Fang JG, Wu CJ, Zheng YS, and Chao CT

11:00 Performance of 'Valencia' Trees on Four Rootstocks at High Density Planting [155]  
Zekri M

11:20 Fruit Shading Changed Photosynthate Partitioning, Sugar Metabolism and Accumulation in Developing Satsuma Mandarin (*Citrus unshiu* Marc.) Fruit [156]  
Chen JW, Zhang SL, Xie M, Xu HX, and Xu JG

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S3)**

**Tuesday 14:00-18:00 Meeting Room (4)**  
**Citrus Regulation by Hormones**  
**Chairpersons: Carol Lovatt (USA)**  
**Graham Barry (South Africa)**

14:00 Effects of the Diphenylurea Cytokinin CPPU and the Auxin 3, 5, 6-TPA on 'Washington' Navel Orange Yield, Fruit Size and Quality [157]  
Summers L, Weng A, Zheng YS, and Lovatt CJ

14:15 Effects of NAA and GA3 Sprays on Yield, Fruit Size, Fruit Splitting and the Incidence of Creasing of 'Nova' Mandarin [158]  
Greenberg J, Kaplan I, Fainzack M, Egozi Y, and Giladi B

14:30 Application of 2, 4-D for Fruit Size and Yield Increase of 'W. Murcott' Mandarin and 'Minneola' Tangelo in California [159]  
Fang JG, Wu CJ, Zheng YS, and Chao CT

14:45 Reduction of Seed Number in Pummelo Chandler [160]  
Erner Y, Israeli E, Tagari E and Shmueli S

15:00 Parthenocarpic Ability of Self-compatible 'Montenegrina' Mandarin and Alternatives to Induce It [161]  
Chouza X, Mesejo C, and Gravina A

**15:15-15:30 Tea Break**

15:30 Vegetative Growth Responses of Citrus Nursery Trees to Various Growth Retardants [162]  
Barry GH, and le Roux S

15:45 Effect of 2, 4-Dichlorophenoxyacetic Acid (2,4-D) on Size of the Navel End of Navel

Oranges-A Preliminary Study [163]  
Verreyne S

16:00 Preharvest Manipulation of Chloro-chromoplast Transformation in Citrus Rinds by the Gibberellin-biosynthesis Inhibitor Prohexadione-calcium [164]  
Barry GH, and le Roux S

16:15 'Montenegrina' Mandarin: Characterization of the Agronomic Behaviour and Fruit Size Improvement [165]  
Gambetta G, Espino M, Pardo E, Alberti V, Arbiza H, and Gravina A

16:30 Effect of Arbuscular Mycorrhizal Fungi with Their Helper Microorganisms on Root Colonization and Growth of Trifoliolate Orange Seedlings [166]  
Horii S, Matsumura A, Cruz AF, and Ishii T

**Tuesday 8:30-12:00 Meeting Room (5)**  
**Citrus Virus Diseases**  
**Chairpersons: Iqrar A. Khan (Pakistan)**  
**Chanhyong Zhou (China)**

8:30 Progress in Research on *Citrus tristeza virus* in China [167]  
Zhou CY

8:50 Molecular Diversity and Management of *Citrus tristeza virus* in Hawaii [168]  
Melzer M, Hilf M, Peña L, Mauch H, Borth W, Zee F, Garnsey S, Ferriera S, Sether D, Gonsalves D, and Hu JS

9:05 Recent Advances in Characterization, Diagnosis and Management of Major Virus and Virus-like Pathogens Infecting Citrus in India [169]  
Ghosh DK, and Singh S

9:20 Molecular Characterization of the Pathogens Causing Destructive Diseases to Citriculture in Hunan [170]  
Dai SM, Han J, Ma XF, Xu L, Li F, Yan JW, Shu GP, and Deng ZN

9:35 Direct Methods of Sample Preparation for Quantitative Detection by Real-time PCR of Viruses and Bacteria in Citrus Plant Materials and Vectors [171]  
Bertolini E, Moreno A, Vidal E, Lopes SA, Peñalver J, Bové JM, López MM, and Cambra M

**9: 50-10:00 Tea Break**

10:00 Differentiation of Citrus Tristeza Virus Isolates from Southern China Based on Biological Index and Sequence Analysis of Their Coat Protein Genes [172]  
Jiang B, Hong N, Wang GP, Zhang JK, Wang CX, Liu Y, and Hu J

10:15 Tsn-RNA Dwarfing and High Density Planting of Citrus on *Poncirus trifoliata* Rootstock [173]  
Vidalakis G, Bash JA, and Semancik JS

10:30 Update on the Most Destructive Citrus Diseases in Hunan, China [174]  
Rizza S, Ma XF, Bella P, Han J, Dai SM, Deng ZN, and Catara A

10:45 Incidence of Citrus Tristeza Closterovirus (CTV) in Pakistan [175]  
Khan IA, Iftikhar Y, Khan MM, Mughal SM, Batool A, Abbas M, Nawaz A, Naqvi SA, Iqbal T, Jaskani MJ, and Hussain Z

11:00 Molecular Characterization of *Citrus cachexia viroid* Isolates in China [176]  
Wang XF, Zhou Y, Tang KZ, Li ZG, and Zhou CY

11:15 Identification and Characterization of Citrus Viroids in the North of Iran [177]  
Alavi SM, Sohi HH, Ahoonmanesh A, Tousi N, Monfared AS, and Rahimian H

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S5)**

**Tuesday 14:00-16:00 Meeting Room (5)**

**Citrus Canker**

**Chairpersons: Jim Graham (USA)**

**Zhongkang Wang (China)**

14:00 Effect of Copper Spray Interval on Control of Citrus Canker for Young Sweet Orange Trees [178]  
Behlau F, Belasque Jr J, Leite RP, and Graham JH

14:15 Quantification of *Xanthomonas axonopodis* pv. *citri* Populations in Citrus Groves [179]  
Canteros BI, Rybak M, and Zequeira L

14:30 Strategies for Citrus to Acquire Resistance to Canker Disease [180]  
Deng ZN, Hu CH, Xu L, Zhang JY, Yang L, Li DZ, and Li N

14:45 Preventing the Introduction of Citrus Canker in Spain: Surveys, Diagnostic and Survival of *Xanthomonas citri* Subsp. *Citri* [181]  
López MM, Golmohammadi M, Scuderi G, Cirvilleri G, Peñalver J, Cubero J, and Llop P

15:00 Evaluation of Chlorine Dioxide Treatment for *Xanthomonas axonopodis* pv. *citri* Bacterium Control [182]  
Roberto AV, Delia L, Carlos IV, and Mariángel W

15:15 History, Eradication, and Surveys of Citrus Canker in Texas [183]  
Skaria M, and da Graça JV

15:30 Effect of Different Rates and Copper Formulations for the Control of Citrus Canker in Lemon in Tucumán, Argentina [184]  
Salas H, Mansilla C, Rojas A, Ramallo J, and Stein B

15:45 Functional Genomics of the Type II Secretion System in *Xanthomonas axonopodis* pv. *Citri*, the Causal Agent of Citrus Canker [185]  
do Amaral AM, Homem RA, Baptista JC, and Machado MA

**16:00-16:10 Tea Break**

**Tuesday 16:10-18:00 Meeting Room (5)**

**Workshop: Current Status of the Citrus Canker Epidemics & Their Management in Citrus Industries Worldwide**

**Organizers: Jim Graham (USA)**

**Beatriz Stein (Argentina)**

16:10 Canker Spread Dynamics, Detection and Management in Southern Provinces of China [186]  
Wang ZK (Bioengineering College, Chongqing University, China)

16:35 Current status of the canker eradication program in Sao Paulo state, Brazil [187]  
Bassanezi R (Fundecitrus, Araraquara, Sao Paulo, Brazil)

17:00 Management of Canker in Production of Fresh Lemon for Export to EU from Tucuman, Argentina [188]  
Stein B (EEAOC, Tucuman, Argentina)

17:25 Management Challenges Posed by Canker for Production of Highly Susceptible Varieties in Florida [189]  
Graham JH (CREC, Univ. Florida, USA)

**Tuesday 19:00-21:00 Lakeview Hotel  
ISC Executive Board Meeting  
Chairpersons: Xiuxin Deng (China)  
Carol Lovatt (USA)**

## **THURSDAY 30 OCTOBER 2008**

**Thursday 8:30-12:00 Meeting Room (2)  
Workshop “Blood Oranges: From Gene to Table”  
Chairpersons: Ziniu Deng (China)  
Alessandra Gentile (Italy)**

8:30 Present Status and Development Trends of Blood Oranges in Italy [190]  
Tribulato E, La Malfa S, Continella A, and Gentile A

8:50 Isolation and Analysis of Differential Transcripts Expression between Blood and Common Orange Cultivars [191]  
Licciardello C, Russo MP, Marocco A, Bernardi J, Valè G, Chiusano ML, D’Agostino N, and Reforgiato Recupero G

9:10 Functional Genomics Investigation of Rootstock Influence on Scion Fruit Gene Expression Reveals a Possible Correlation between Anthocyanins Biosynthesis and Cold Hardening [192]  
Cotroneo PS, Rapisarda P, Todaro A, and Reforgiato Recupero G

9:30 Cold Induced Expression Pattern in Blood Orange Flesh [193]  
Lo Piero AR, Crifò T, Puglisi I, Reforgiato Recupero G, and Petrone G

9:50 Isolation of Putative Regulatory Genes of Anthocyanin Biosynthesis in Blood Orange [194]  
Butelli E, Cotroneo PS, Cultrone A, Licciardello C, Martin C, Reforgiato Recupero G, and Russo P

### **10:10-10:20 Tea Break**

10:20 New Selections of Tarocco Orange [195]  
Russo G, Reforgiato Recupero G, Recupero S, Paglia G, and Menesatti P

10:40 ‘Jingxian’ Blood Orange: the Only Pigmented Sweet Orange Cultivar Originated in China [196]  
Deng ZN, Yuan FR, Long GY, and Liu KY

11:00 Fifty Years of Research on the Virus and Viroid Diseases of Blood Oranges [197]  
Catara A, Davino M, La Rosa R, Rizza S, and Tessitori M

11:20 Research Developments on the Constituents of Pigmented Orange Juices [198]  
Maccarone E, and Rapisarda P

11:40 Economic Analysis of the Red Orange Chain in Italy [199]  
Sturiale C, and Scuderi A

### **12:00-13:00 Lunch Break**

**Thursday 14:00-15:30 Meeting Room (2)  
Sub-plenary Session  
Chairperson: Luis Navarro (Spain)**

14:00 History of the International Society of Citriculture [200]  
Albrigo LG, and Coggins C

14:30 Citrus and Colon Cancer Prevention: Current Research and Future Prospects [201]  
Patil BS, Murthy KNC, and Jayaprakasha GK

15:00 Open Hydroponics System in Citrus Cultivation: Principles and Commercial Results [202]  
Kruger JA

**Thursday 8:30-10:35 Meeting Room (3)  
New Scion and Rootstocks (continued)  
Chairpersons: Micheal Roose (USA)  
Xingyao Xiong (China)**

8:30 Results from Consumer Surveys Comparing Advanced UF-CREC Fresh Mandarin Selections with Commercially Available Cultivars [203]  
Gmitter FG Jr, Valim F, Plotto A, and Baldwin E

8:50 Studies on Seedless Mechanism of New Mandarin Cultivar ‘Wuzishatangju’ (*Citrus reticulata* cv. Wuzishatangju) [204]  
Ye WJ, Qin YH, Ye ZX, Wu XY, Lin XQ, and Hu GB

9:05 New Seedless Lemon Cultivars from

- Turkey [205]  
Uzun A, Gulsen O, Kafa G, and Seday U
- 9:20 Variability of DNA Methylation in Clementine Mandarins and Navel Oranges Detected by MSAP Markers [206]  
Fang JG, Song CN, Zheng YS, and Chao CT
- 9:35 Toward a High-Density Integrated Genetic Linkage Maps of Citrus Based on AFLP, RAPD, SSR and TRAP Markers [207]  
Cristofani-Yaly M, Faldoni L, Bastianel M, Novelli VM, Guimarães CG, Diogo JA, Palmieri DA, and Machado MA
- 9:50 'Tami' – a New Israeli Mandarin: Effect of Three Rootstocks on Yield, Fruits Size and Fruits Quality [208]  
Kanonich J, Mosak Y, and Gefen A
- 10:05 First Results of an Italian Breeding Program to Obtain New Ornamental *Citrus* Hybrids [209]  
Recupero S, Russo G, Reforgiato Recupero G, Intrigliolo F
- 10:20 New Rootstock Evaluation for Common Clementine in Corsica [210]  
Hussain S, Curk F, Tison G, Luro F, and Jacquemond C
- 10:35-10:40 Tea Break**
- Thursday 10:40-12:15 Meeting Room (3)  
Weed control, Organic Citrus and GAP  
Chairpersons: A Continella (Italy)  
Guohuai Li (China)**
- Weed Management in Citrus in Florida – Past, Present, and Possible Future [211]  
Singh M (*not present*)
- 10:40 Effects of Weed Management on Growth and Yield of Orange Orchards in Sicily [212]  
Germanà C, Continella A, and Continella G
- 11:00 Citrus Global GAP Certification in Pakistan [213]  
Ahmad W, Azam M, Zafar MS, and Nawaz MA
- 11:15 Procedure to Convert Citrus Orchard Management from Conventional to Certified Organic Production Methods in Compliance
- with the EU 2002/91 Regulation [214]  
Bederski K
- 11:30 Plant Compost as a Peat Moss-Substitute in Growing Media for the Production of Organic *Citrus* Rootstocks [215]  
El-Sayed M, D'Onghia AM, Calabretta ML, Verrastro V, and Intrigliolo F
- 11:45 Investigation of Green Manure and Olive Cake Usage on Organic Star Ruby Grapefruit Cultivation in Antalya, Turkey [216]  
Eryilmaz Z, Çelik N, Özkan C, and Demirtaş I
- 12:00-13:00 Lunch Break  
13:00-14:00 Poster Session (S1)**
- Thursday 8:30-11:30 Meeting Room (4)  
Nutrition Physiology  
Chairpersons:  
Dirceu de Mattos Jr. (Brazil)  
Ahmed Ait-Oubahou (Morocco)**
- 8:30 Integrated Nutrient Management, Concept and Application in Citrus in Southeast Asia [217]  
Srivastava AK
- 8:50 Citrus Best Management Practices: Fertilizer Rate Recommendations and Precision Application in Florida [218]  
Boman BJ, Morgan KT, and Obreza TA
- 9:05 Fungicide Application Influences the Tree Vigour, Nutrient Level and Fruit Quality of Phytophthora Infested Blood Red Sweet Orange (*Citrus sinensis* Osbeck.) [219]  
Khan AS, Malik AU, Ahmad R, Saleem BA, Ahmad I, and Shaheen T
- 9:20 Low Boron Affects Growth, Nutrient Absorption and Distribution of 'Newhall' Navel Orange Plants (*Citrus sinensis* Osbeck) Grafted on two Rootstocks [220]  
Sheng O, Song SW, Peng SA, and Deng XX
- 9:35 Seasonal Uptake of Nutrients by Mature Field-grown 'Valencia' (*Citrus sinensis* O.) Trees in California [221]  
Sweet JS, Newman VL, and Krueger RR
- 9:50-10:00 Tea Break**
- 10:00 Different Surfactants Improve Calcium Uptake into Leaf and Fruit of 'Washington

- Navel' Sweet Orange (*Citrus sinensis* (L.) Osbeck.) to Reduce Albedo Breakdown [222]  
Pham TTM, Singh Z, and Behboudian MH
- 10:15 Relationship between Mineral Nutrition, Creasing and Splitting of Nova Mandarin Fruit [223]  
Ait-Oubahou A, Afidi E, Laamim M, Goumari M, and Talhi M
- 10:30 High-affinity K<sup>+</sup> Uptake in Citrus [224]  
Rubio F, Caballero F, Gimeno V, Garcia-Sanchez F, and Martinez V
- 10:45 Decrease of Alternate Bearing in Satsuma Mandarin (*Citrus unshiu*) by Balancing Nutrition and Urea Foliar Application [225]  
Kangarshahi AA, and Amiri NA
- 11:00 Evaluation of Zinc Nutrition in Healthy Versus Declining Nagpur Mandarin Orchards [226]  
Kuchanwar OD, Patil SD, Srivastava AK, and Vidyapeeth PDK
- 12:00-13:00 Lunch Break**  
**13:00-14:00 Poster Session (S4)**
- Thursday 14:00-16:00 Meeting Room (4)**  
**Abiotic Stress Physiology**  
**Chairpersons: James Syvertsen (USA)**  
**Shengxi Xie (China)**
- 14:00 On the Relationships between Salinity Tolerance, Growth and Water Use of *Citrus* Rootstocks and Seedlings [227]  
Syvertsen JP, and Garcia-Sanchez F
- 14:15 Combating Salt Stress in Citrus Orchards under Semi-Arid Condition in the Negev Desert of Israel [228]  
Raveh E
- 14:30 Effect of Water Stress on Vegetative Growth, Relative Water Content and Nitrogen Metabolism of Citrange and Trifoliate Orange Seedling [229]  
Xie SX, Zhang QM, Xiong XY, and Wu YC
- 14:45 Using Alternative Irrigation and Water Monitoring Technologies for Improving On-Farm Water Conservation in South Texas Citrus Production [230]  
Nelson SD, Esquivel H, Uckoo R, Peries X, and Enciso J
- 15:00 Effect of Salinity and Rootstock on Leaf Ultrastructure, Xylem Development, Leaf Hydraulic Conductivity and Leaf Cl Concentration in Valencia Trees [231]  
Manoj K, Rachmilevitch S, Zur NT, and Raveh E
- 15:15 The Investigation of Flooding Stress on Chlorophyll Content and Amount of Element (N, P, K) in Six Citrus Rootstocks Leaves in North of Iran [232]  
Zarrini SS, Akbarpour V, Sharifani M, Hemmati K, and Sabouruh Monfared A
- 15:30 Response of Some Citrus Rootstocks to Salinity [233]  
El-Shazly SM
- Thursday 8:30-12:00 Meeting Room (5)**  
**Citrus Fungal Diseases**  
**Chairpersons: Antonio Vicent (Spain)**  
**Megan Dewdney (USA)**  
**Hongye Li (China)**
- 8:30 The Effect of Bio-control Agents on Citrus Plant Growth and on *Phytophthora* Citrus Root Rot Using a Compost-Based Organic Medium [234]  
Eid AS, Yaseen T, Ippolito A, and D'Onghia AM
- 8:45 Dry Root Rot: an Emerging Phytopathological Problem for Citrus Plantings in Italy [235]  
Catara A, Cirvilleri G, Grimaldi V, Rizza S, Russo M, and Spina S
- 9:00 PCR Based Assay to Detect *Phytophthora Nicotianae* [236]  
Targon MLPN, Feichtenberger E, Spósito MB, Sasserón GR, Filho HDC, and Machado MA
- 9:15 Identification of *Phytophthora* spp. in Syrian Citrus Groves [237]  
Yaseen T, Schena L, Nigro F, and Ippolito A
- 9:30 The Effect of Run-off on Spray Deposition on Citrus Leaves and Fruit and Control of Alternaria Brown Spot of Mandarins [238]  
Fourie P, du Preez M, Brink JC, and Schutte T
- 9:45 Molecular Studies on *Phytophthora* in Citrus Orchards of Central India [239]

Das AK, Singh S, and Kumar A

**10:00-10:15 Tea Break**

- 10:15 Real-time PCR to Detect and Quantify *Phoma Tracheiphila* in Infected Citrus Plants [240]  
Demontis MA, Cacciola SO, Orru M, Balmas V, Chessa V, Maserti BE, Mascia L, Raudino F, Migheli Q, and Magnano di San Lio G
- 10:30 Agronomic Factors Associated with Phytophthora Branch Canker of Citrus in South-western Spain [241]  
Vicent A, Botella-Rocamora P, López-Quílez A, De la Roca E, Bascón J, and García-Jiménez J
- 10:45 Cultivar Susceptibility Affects the Length of Leaf Wetness Period Required for Lesion Production by *Alternaria Alternata* on Tangelos [242]  
Mondal S, Dewdney MM, and Timmer LW
- 11:00 Revised Field Management of Citrus Black Spot (*Guignardia citricarpa*) in Queensland, Australia [243]  
Miles A, Wyatt P, Kopittke R, Hamacek E, Eelkema M, Shivas M, and Drenth A

**12:00-13:00 Lunch Break**

**13:00-14:00 Poster Session (S5)**

**Thursday 14:00-16:00 Meeting Room (5)  
Citrus Pest Control  
Chairpersons: Jingjun Wang (China)  
Hongyu Zhang (China)**

- 14:00 Susceptibility and Esterase Activity in Citrus Red Mite *Panonychus citri* (Acari: Tetranychidae) after Selection with Phoxim [244]  
Chen ZY, Ran C, Zhang L, Dou W, and Wang JJ
- 14:15 The Evolution of Citrus IPM in Southern Africa [245]  
Grout TG, Moore SD, Hofmeyr JH, and Hattingh V
- 14:30 Study on Potential Distributions of *Bactrocera Dorsalis* (Diptera: Tephritidae) in Middle Reaches of Yangtze River by CLIMEX [246]  
Li XX, Li JF, Qiu GQ, Cai WL, and Zhang HY
- 14:45 Biological Control of Citrus Key Pests in Spain [247]  
Urbaneja A, and Jacas JA
- 15:00 The Integrated Management of Diseases and Pests in Sicily Citrus [248]  
Tumminelli R, Calcaterra S, Pasciuta G, Pasotti L, Raciti E, Riolo G, Sapienza E, Sciacca V, Tamburino V, Pedrotti C, and Vinci A
- 15:15 Insecticide Resistance Management of California Red Scale and Citricola Scale Populations in the San Joaquin Valley of California [249]  
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- 15:30 Current Status of Citrus IPM in the San Joaquin Valley of California [250]  
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