

Program

Monday 4th of April

8:00 am- 9:00 am: Arrival, registration and setting up posters

9:00 – 9:30: Opening Ceremony

9:30- 10:00: Current problems and challenges in managing citrus diseases worldwide and in the Mediterranean region.

Keynote Speaker: Eleftherios Tjamos

10:00 – 10:30 Coffee break

• Biological Control

Chair: Darija Lemic and Alejandro Tena

10:30 – 12:30

Presentation 1

Predation assessment of the African citrus psyllid *Trioza erytreae* (Del Guercio) by molecular methods.

Paula Molina, María Teresa Martínez-Ferrer1, José Miguel Campos-Rivela, Jordi Riudavets, Nuria Agustí

Presentation 2

Entomopathogenic nematodes for control of Mediterranean fly *Ceratitis capitata*: prospects and limitations.

Apostolos Kapranas, Anna Chronopoulou, Ioanna C. Lytra, Spyridon Antonatos, Panagiotis G. Milonas and Dimitrios P. Papachristos

Presentation 3

Application of classic biological control program for the management of *D. aberiae*.
Antonia Soto, Marco Benito, Elena Romero.

Presentation 4

Rate of parasitism among citrus whiteflies *Dialeurodes citri* Ash. populations in chemically managed citrus orchards in Mitidja plain, Algeria.

Leila Benfekih, Riyane Lazreg, Ali Bouellares, Nesrine Benatallah, Abdelhaq Mahmoudi

Presentation 5

Classical biological control of the huanglongbing vector, *Trioza erytreae*, in Europe.
Alejandro Tena

Presentation 6

**IOBC – WPRS WG “Integrated Control in Citrus Fruit crops” Nafplio
(Greece) 4-6 April 2022**

Establishing cover crops for the conservation of natural enemy assemblages during winter in citrus orchards.

Casiraghi, A., Urbaneja, A., Monzó, C.

Presentation 7

Ant-exclusion reduces *Delottococcus aberiae* density and damage in citrus crops).

Ángel Plata, María A. Gómez, Francisco Beitia and Alejandro Tena

12:30- 14:00 Lunch break

14:00 – 14:30: The invasion of *Trioza erytreae* in the Mediterranean basin: current status, management achievements and further steps.

Keynote Speaker: Alberto Urbaneja

• **Integrated Pest Management**

Chair: Cesar Monzo Ferrer and Dionysios Perdikis

14:30- 16:00

Presentation 8

The impact of Kaolin clay on *Trioza erytreae* global behavior.

D. Félix-Oliveira, J. Benhadi-Marín, E. Garzo, A. Fereres, J.A. Pereira

Presentation 9

Analysis factors to improve IPM strategies of the nesting whitefly *Paraleyrodes minei* (Homoptera: Aleyrodidae) in the Mediterranean basin.

Javier Puig-Ochoa, Antonia Soto

Presentation 10

Residues of neonicotinoids in wildflowers after foliar spray in commercial citrus orchards.

José Miguel Campos-Rivela, Ana Isabel García-Valcárcel, María Dolores Hernando-Guil, María Teresa Martínez-Ferrer

Presentation 11

Effect of selected systemic insecticides on *Anagyrus vladimiri* (Hymenoptera: Encyrtidae) feeding on nectar of treated flower plants.

Paula Molina, José Miguel Campos-Rivela, Nuria Agustí, María Teresa Martínez-Ferrer

Presentation 12

A sustainable mixed cropping-beekeeping system in the Mediterranean basin.

K.M. Kasiotis, F. Karamaouna, V. Kati, M. Barda, N. Kabli, A. Mohammedi, S.A. Shairra, J.A. Jaques, P.-P. Danieli, Y. Le Conte, S. Merabet, R. Terriaca, Y. Karypidis

16:00 – 16:30 Coffee break

- **Challenges in pest and disease management**

Chair: Dimitris Dimou and Christina Varveri

16:30 – 17:30

Presentation 13

Citrus tristeza virus: the major current phytopathological problem of Greek citrus industry.

D. Beris, O. Kektsidou, I. Malandraki, N. Vassilakos, C. Varveri

Presentation 14

Mediterranean fruit fly Area Wide Suppression Programme in the Valencian Community (Spain).

Vicente Dalmau Sorli, Ignacio Plá Mora

Presentation 15

A molecular diagnostic assay for the discrimination of eleven species of aphids infesting citrus.

Despoina Ev. Kapantaidaki, Afroditi Krokida, Vasiliki Evangelou, Panagiotis Milonas and Dimitrios P. Papachristos

Presentation 16

The role of the Cuarentagri project in monitoring and issuing phytosanitary sheets concerning the Mediterranean Fuit Fly (*Ceratitis capitata* Wiedeman) (Diptera: Tephritidae) as part of an agricultural warning system in the Azores.

David Horta Lopes, Elisa Tarantino, Adriano Mota, Beatriz Sousa, Jéssica Machado, Cristina Moules, Ricardo Rodrigues, Jéssica Machado

- **IOBC Citrus guidelines**

17:30 - 19:00

Lucía-Adriana Escudero-Colomar, Aude Alaphilippe, María Teresa Martínez-Ferrer

20:00 – 22:00: Reception at the Hellenic National Gallery- Department of Nafplio

Tuesday 5th of April

9:00- 17:00 Technical excursion

Visit to the Archaeological site of Mycenae

Visit to the experimental orchards of Anyfion

Visit to winery “Skouras” – Wine tasting and light lunch

20:00 – 23:00 Gala Dinner

Agamemnon Palace- Mycenae

Wednesday 6th of April

9:00 – 9:30: Climate change and citrus pests

Keynote Speaker: Darren Kriticos

- **Biology of Citrus Pests**

Chair: Panagiotis Milonas and David Horta Lopez

9:30- 11:00

Presentation 17

Population dynamics of medfly on citrus orchards in Korinthos region, Greece.

Dimitrios Papachristos, Spyridon Antonatos, Vasileios Karras, George Partsinevelos, Savvina Toufexi, Panagiotis Milonas

Presentation 18

Biology, ecology and management of the orchid thrips *Chaetanaphothrips orchidii* (Moulton) (Thysanoptera: Thripidae).

José Catalán, Alejandro Tena

Presentation 19

Comparison of *Trioza erytreae* infestation on Citrus × sinensis versus Citrus × limon in controlled conditions.

Tomás Thormann Magalhães, Jose Alberto Pereira, Amilcar Duarte, Luís Miguel Mascarenhas Neto, Natalia T. Marques

Presentation 20

Interactions between time of day and physiology on fruit fly responsiveness to lures.

Tania Pogue, Kévin Malod, Christopher W. Weldon

Presentation 21

Spatio-temporal population trend of the Mediterranean fruit fly in mixed fruit orchards in Central Greece.

Kostas Zarpas, Vasilis G. Rodovitis, Stella A. Papanastasiou, Kleopatra Moraiti, Eleni Verikouki, Nikolaos Patronis, Stratos Nikolaou and Nikos T. Papadopoulos

11:00- 11:30 Coffee break

- **Pest Ecology and Physiology**

Chair: María Teresa Martínez-Ferrer and Kiki Varikou

11:30- 13:00

Presentation 22

Effect of fruits aroma and citrus essential oils on *Ceratitis capitata* (Diptera: Tephritidae) oviposition.

Spyridon Antonatos, Eirini Anastasaki, Antonios Michaelakis, George Balayiannis, Panagiotis Milonas, Nikolaos T. Papadopoulos and Dimitrios P. Papachristos

Presentation 23

Characterization of the volatile infestation-fingerprint of oranges by *Ceratitis capitata*, *Bactrocera zonata* and *B. dorsalis* and conversion into a detection tool (e-Nose).

Eirini Anastasaki, Aikaterini Psoma, Spyridon Antonatos, Ioanna Lytra, Maria-Vasiliki Giakoumaki, Dimitrios Papachristos and Panagiotis Milonas

Presentation 24

Effect of host fruit and temperature on overwintering capacity of different *Ceratitis capitata* populations.

Antonis G. Papadopoulos, Georgia D. Papadogiorgou, Cleopatra A. Moraiti, Panagiota M. Koskinioti and Nikos T. Papadopoulos

Presentation 25

Field surveys on *Aleurocanthus spiniferus* natural enemies on Citrus in Italy.

Massimino Cocuzza Giuseppe Eeros, Bella Salvatore, Tumminelli Ricardo, Siscaro Gaetano

Presentation 26

Wildflower habitats enhance pest regulation services in Spanish orange orchards.

Alice Mockford, Alberto Urbaneja, Alejandro Tena, Kate Ashbrook, Duncan B. Westbury

12:30- 14:00 Lunch break

14:30- 16:00

- **Round table discussion: Invasive pests threaten the citrus production in the Mediterranean countries**

Moderators: Nikos T. Papadopoulos, Antonia Sotto

Panel: *Panagiotis Milonas, Christos Arambatzis, David Horta Lopes, Darren Kriticos*

16:00 – 16:30 Coffee break

16:30 – 17:30

IOBC – WPRS WG “Integrated Control in Citrus Fruit crops” Nafplio
(Greece) 4-6 April 2022

- **Poster Discussion**

Chair: Eleftheria Bempelou, Nikos Kouloussis and Benfekih Leila

17:30 - 18:00 Closing ceremony- Awards

Chair: Antonios Augustinos and Maria Terreza

20:00- 22:00 Nafplio tour

List of Posters

Monday 4th of April

- Biological Control

Poster 1

The zoophytophagous predator *Pilophorus clavatus* (Hemiptera: Miridae) induces plant defenses in citrus plants.

Meriem Dahmane, Alberto Urbaneja, Omar Ruiz-Rivero, Miquel Alonso-Valiente, Meritxell Pérez-Hedo

Poster 2

Do Eucalyptus essential oils represent a threat to *Scymnus subvillosus* Goeze (Coleoptera: Coccinellidae) a potential biocontrol agent of aphids in citrus orchards?

Leila Benfekih, Amina Smail, Leila Mohamed Ali, Abdelhaq Mahmoudi

Poster 3

Effect of thermal acclimation and prevailing conditions on the response of adult Mediterranean fruit flies to traps

Eleftheria-Maria D. Bali, Eleni C. Savvidou, Eleni Verykouki, Charalampos S. Ioannou, Nikos T. Papadopoulos

Poster 4

Population levels and biological control of *Phyllocnistis citrella* 23 years after its introduction in three regions of Greece

Nikolina Grammenou, Antonios Tsagkarakis, Argyro Kalaitzaki, Sofia Dervisoglou, Dionysios Perdikis

Poster 5

Do the diaphragm pumps of hydraulic sprayers affect –the viability and infectivity of entomopathogenic fungi?

Roberto Beltrán-Martí, Jaime Cuquerella, Laura Catalán, Cruz Garcerá and Patricia Chueca

- Integrated Pest Management

Poster 6

Effect of ozone treatment on mandarin pathogens.

Helena Virić Gašparić, Mario Bjeliš, Darija Lemić

Poster 7

Sustainable control strategies of two-spotted mite *Tetranychus urticae* Koch (Prostigmata: Tetranychidae) in citrus

José Miguel Campos-Rivela, Josep Miquel Fibla Queralt, María Teresa Martínez-Ferrer

Poster 8

Temporal Variation in Pesticide Residues in Citrus Fruits from Chios, Greece, before and after the Development of an Integrated Pest Management Strategy (IPMS): A Five-Year Study (LIFE13 ENV GR/000414)

**IOBC – WPRS WG “Integrated Control in Citrus Fruit crops” Nafplio
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Eleftheria Bempelou, Christos Anagnostopoulos, Maroula Kiousi, Panagiota Malatou, Konstantinos Liapis, Nikos Kouloussis, Vassilis Mavraganis and Nikolaos T. Papadopoulos

Poster 9

A survey exploring farmers and stakeholders' perceptions in the control of medfly populations with the innovative attractant Biodelear. A case study in the island of Chios in Greece. (LIFE13 ENV GR/000414)

Nicolia Samari, Eleftheria Bempelou, Christos Anagnostopoulos, Nikos Katsenios, Nikos A. Kouloussis, Vassileios Mavraganis, Nikos T. Papadopoulos

Poster 10

The PLANT-B mixed farming system of citrus, aromatic plants and bee-keeping: Impact of weed vegetation in citrus field margins on conservation of insect pollinators and natural enemies.

Filitsa Karamaouna, Vaya Kati, Leonidas Economou, Theodoros Stathakis, Myrto Barda

• **Challenges in pest and disease management**

Poster 11

Invasion of *Ceratitis capitata* W. (Diptera, Tephritidae) from coastal to inland areas of Dalmatia region of Croatia: E-traps as an improved detection tool.

Mario Bjeliš, Ivan Tavra, Frane Strikić, Miro Stojić, David Nestel

Poster 12

Pest status of California red scale on citrus in Tunisia.

Amira Najjar, Imène Belaam-Kort, Synda Boulahia-Kheder

Poster 13

Resurgence of citrus pests in Tunisia.

Imène Belaam-Kort, Amira Najjar, Synda Boulahia-Kheder

Poster 14

Development and implementation of an environmental impact assessment procedure (IAP) at farm level as a tool to support sustainability in Mediterranean citrus agro-ecosystems.

E. Karanasios, M. Barda, F. Karamaouna, V. Kati, K. Kyriakopoulou, L. Economou, A. Charistou, G. Pavlidis, A. Tsakirakis, M. Lykogianni, Th. Nikolopoulou, Th. Stathakis, I. Mantzouni, K. Kasiotis, E. Markellou

Poster 15

Global distribution and diversity of the fungal pathogen *Colletotrichum* associated with citrus.

Thea Kristensen, Birgit Jensen, Henrik H. de Fine Licht

Wednesday 6th of April

• **Biology of Citrus Pests**

Poster 16

Effects of environmental factors on the energetic traits of *Ceratitis capitata*.

Darija Lemic, Helena Virci Gašparić, Pavle Ninčević, Ivana Pajač Živković, Mario Bjeliš

Poster 17

Role of mineral nutrition on the fluctuations of *Parlatoria ziziphi* (Homoptera: Diaspididae) populations on citrus in Rouiba region, Algiers (Algeria).

Boukhobza Laila, Belguendouz Rachida, Zaabta Insaf, Chebli Abderahmen and Biche Mohammad

Poster 18

The mass-trapping attractant biodeleter effects on medfly reproduction in laboratory conditions.

Terzidou Anastasia, Alatzas Maria- Paraskevi, Nikos T. Papadopoulos Koveos Dimitrios and Kouloussis Nikos

Poster 19

On automatic classification of aphids in flight.

Kiki Varikou, Antonia Karagianni, Matthaios Mathioudakis, Panagiota Psirofonia, Ilyas Potamitis

Poster 20

Observations on the within-crop dispersal patterns of the African citrus psyllid, *Trioza erytreae* (del Guercio), in northwestern Portugal.

Jacinto Benhadi-Marín, Diogo Félix-Oliveira, Alberto Fereres, José Alberto Pereira

• **Pest Ecology and Physiology**

Poster 21

A new sensitive photochemical method for early and easy detection of biotic stress.

Chondrogiannis Christos, Grammatikopoulos Giorgos

Poster 22

Optimization of protein quantity in an agar-based larval diet for the Mediterranean fruit fly

Paraschos Prekas, Vasilis G. Rodovitis, Evmorfia P. Bataka, Nikos T. Papadopoulos

Poster 23

Wolbachia-infected *Ceratitis capitata* Vienna 8 genetic sexing strains: potential for combined IIT/SIT applications.

Kotsadam Eleni, Chondrogiannis Christos, Telli Sevastia, Karathanasi Venetia, Augustinos Antonis

Poster 24

Qplots: An interactive web platform for the analysis and visualization of microbial sequencing data based on the R-shiny framework

Bel Mokhtar Naima, Asimakis Elias, Stathopoulou Panagiota, Tsiamis George



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