

**PROGRAM OF THE 7TH MEETING OF THE IOBC/wprs
WORKING GROUP “INTEGRATED PROTECTION OF OLIVE CROPS”**

Sunday 10 May 2015

20:00 Welcoming cocktail in the congress hotel (Elite City Resort)

Monday 11 May 2015

8:30 -10:00 Registration

10:00-11:00 Welcome address
Organizing Committee – George Stathas
Convenor – Dionyssios Perdikis
IOBC Representative
Other Representatives

11:00-11:20 Opening lecture
Overview of olive oil production in Messinia: a socio-economic approach to the application of integrated management systems
Vasilios Demopoulos, Anna Milionis

11:20-11:50 Coffee break

Session I – Information and Communications Technology (ICT) and Large Scale Monitoring in Olive Crop Protection

Moderators: Emannouil Kabourakis, Jesús Mercado-Blanco

11:50-12:20 Remote management of olive fruit fly based on a Location Aware System (LAS)
Theodore Tsiligiridis, Invited Speaker

12:20-12:35 Development of an innovate spatial decision support system for olive fruit fly monitoring and control
Costas Pontikakos, Dionyssios Perdikis, Theodore Tsiligiridis

12:35-12:50 The use of monitoring network for estimating early infestation of *Bactrocera oleae* at large scale
Susanna Marchi, Diego Guidotti, Massimo Ricciolini, Ruggero Petacchi

12:50-14:30 Lunch

Session II – Research in Olive Diseases and Pests

Moderators: José Alberto Pereira, Antonio Ortiz

- 14:30-14:45** **Seasonal monitoring of olive fruit fly, *Bactrocera oleae* (Diptera: Tephritidae) in different agroecological zones in Greece**
Nikolaos G. Volakakis, Giannoula Bogka, Vassileios Gkisakis, Emannouil Kabourakis
- 14:45-15:00** **Damage potential of *Euphyllura phillyreae* on olives**
Dionyssios Perdikis, Nikolaos Gyftopoulos, Panagiotis Anastasopoulos, Theodoros Vaiopoulos, Konstantina Arvaniti
- 15:00-15:15** **Oviposition preference of *Bactrocera oleae* (Rossi) (Diptera: Tephritidae): influence of cultivar (cvs. Cobrançosa, Madural and Verdeal Transmontana) and maturation process**
Ricardo Malheiro, Susana Casal, Lara Pinheiro, Paula Baptista, José Alberto Pereira
- 15:15-15:30** **Electrophysiological responses (EAG) of *Bactrocera oleae* (Rossi) (Diptera:Tephritidae) and its natural enemies *Chrysoperla carnea* Steph. (Neuroptera: Chrysopidae) and *Psytallia concolor* (Szépligeti) (Hymenoptera: Braconidae) to ammonia**
Antonio Ortiz, M^a Jose Hervás, Antonio Estevez
- 15:30-15:45** **Effects of probiotic diets on the olive fly fitness**
Patrizia Sacchetti, Luca Becherini, Antonio Belcari
- 15:45-16:00** **Effect of natural vegetation management practices on *Prays oleae* (Bernard) and its parasitoids**
María Villa, Rosalina Marrão, António Mexia, Albino Bento, José Alberto Pereira
- 16:00-16:15** **Evaluation of various commercial trap types for *Bactrocera oleae* (Diptera: Tephritidae) in field and laboratory studies**
Argyro Kalaitzaki, Eleni Malandraki
- 16:15-16:30** **The electronic McPhail Trap and a potential revision of the decision protocol**
Ilyas Potamitis, Panagiotis Eliopoulos, Dimitrios Kontodimas
- 16:30-17:00** Coffee break

17:00-17:35 POSTER SESSION

1. ***Bactrocera oleae* (Rossi) phenology of wintering populations in Liguria (Italy)**
Ruggero Petacchi, Susanna Marchi, Simona Federici, Giorgio Ragolini
2. **Natural enemies of *Bactrocera oleae* in different geographic regions of Greece**
Argyro Kalaitzaki, Dionyssios Perdikis, George Stathas, Panagiotis Skouras, Ioannis Zarboutis, Evanthia Pitika, Konstantina Spanou
3. **From genome to behavior: investigating the molecular basis of olfaction as target to interrupt the sexual communication for population control of the olive fruit fly, *Bactrocera oleae***
Konstantina Tsoumani, Alexandros Belavilas-Trovas, Kostas Mathiopoulos
4. **Studies on the damage potential of *Rhynchites cribripennis***
Dionyssios Perdikis, Spyridonas Reppas
5. **Preference of *Prays oleae* for oviposition among olive varieties and different quadrants of the olive tree canopy**
Dionyssios Perdikis, Argyro Kalaitzaki, Panagiotis Anastasopoulos, Theodoros Vaiopoulos
6. **Color of fruits and leaves of Portuguese olive cultivars cvs. Cobrançosa, Madural and Verdeal Transmontana and *Bactrocera oleae* (Rossi) (Diptera: Tephritidae) oviposition preference**
Ricardo Malheiro, Susana Casal, Nuno Rodrigues, Paula Baptista, José Alberto Pereira
7. **High-light on certain olive pests and their control in Egypt**
Mohamed Abdel-Rahman Mohamed Amro

Tuesday 12 May 2015

9:00-18:00 Professional Tour

Wednesday 13 May 2015

Session III - Research in Olive Diseases and Pests and Their Control

Moderators: Leah Tsrer, Paula Baptista

- 9:00-9:30** **The threat posed by *Xylella fastidiosa* to olive trees in the Mediterranean region: the first outbreak in Apulia, Italy**
Anna Maria D'Onghia, Invited Speaker
- 9:30-9:45** **Endophytic fungi of olive tree and its potential application in protection against *Colletotrichum acutatum***
Fátima Martins, José Alberto Pereira, Albino Bento, Paula Baptista
- 9:45-10:00** **Relationship between phyllosphere fungal communities and tolerance of olive tree cultivars to olive leaf spot disease**
Teresa Gomes, José Alberto Pereira, Teresa Lino-Neto, Paula Baptista
- 10:00-10:15** **Genomic analysis of two *Pseudomonas* spp. strains displaying endophytic lifestyle in olive roots and effective biological control of *Verticillium dahliae***
Pedro Martínez-García, David Ruano-Rosa, Elisabetta Schiliro, Carmen Gómez-Lama Cabanás, Cayo Ramos, Pablo Rodríguez-Palenzuela, Jesús Mercado-Blanco
- 10:15-10:30** **Influence of irrigation frequency on the onset and development of *Verticillium* Wilt of olive**
Mario Pérez-Rodríguez, Nicolás Serrano, Ignacio Lorite, Octavio Arquero, Francisco Orgaz, Francisco Javier López-Escudero
- 10:30-11:00** Coffee break

Session IV - Research in Olive Diseases and Pests and Their Control (continued)

Moderators: John Vontas, Filitsa Karamaouna

- 11:00-11:15** **Ground cover as a practice to support pollinating insects and natural enemies in olive groves**
Filitsa Karamaouna, Vaya Kati, Nikolaos Volakakis, Kyriaki Varikou, Leonidas Economou, Nikolaos Garantoukakis, Athanasia Biruraki, Fotis Andrinopoulos, Voula Kalliakaki, Emilia Markellou
- 11:15-11:30** **Identification and molecular characterization of pyrethroid resistance in the olive fruit fly *Bactrocera oleae***
Nena Pavlidi, Anastasia Kampouraki, Nicky Wybouw, Wannes Dermauw, Thomas Van Leeuwen, John Vontas

- 11:30-11:45** **A novel approach to evaluate efficacy of baited insecticide applications for the olive fruit fly control**
Emmanouil Roditakis, Maria Grispou, Marianna Stavrakaki, Nikos Roditakis, Giannis Livadaras, John Vontas, Ralf Nauen, Nigel Godley, Emmanouil Filippou, Emmanouil Manousakis, Angeliki Karataraki
- 11:45-12:00** **SAGE10-Establishment of an impact assessment procedure as a tool for maintaining the sustainability of Mediterranean olive agro-ecosystems**
Emilia Markellou, Irimi Mantzouni, Antigoni Akrivou, Evangelos Karanasios, Filitsa Karamaouna, Katerina Kyriakopoulou, Eleftheria Kapaxidi, Eleni Karassali, Dimitrios Papachristos, George Michalopoulos, Evangelos Hatzigiannakis, Helena Hadjicharalambous, Dionyssios Perdikis, Styliani Malliaraki, Aikaterini Angelaki, Chrysoula Manolaraki, Georgia Giakoumaki, Spyridonas Reppas
- 12:00-12:15** **GELSURA and AgBalance: from sustainability assessment to continuous improvement of olive cultivation**
Notis Aristeidis, Cesar Blanco Ruiz, Sebastian Schultze, Markus Frank, Stergios Bitivanos
- 12:15-12:30** **Spinetoram (Delegate™ 250WG), a new insecticide for the control of *Prays oleae* (Bernard) in olives**
Aris Chloridis, Maria Torne, Enzo Tescari, Vassilis Apostolidis

12:30-13:15 POSTER SESSION

- 8. Evaluation of "Insect Spy" approach for monitoring *Xylella fastidiosa* in symptomless olive orchards in the Salento Peninsula (Southern Italy)**
Issam Eddine Ben Moussa, Franco Valentini, Donato Lorusso, Valerio Mazzoni, Michele Digiario, Leonardo Varvaro, Anna Maria D'Onghia
- 9. Diversity of epi- and endophytic fungi on asymptomatic and symptomatic olive tree phyllosphere**
Teresa Gomes, José Alberto Pereira, Teresa Lino-Neto, Paula Baptista
- 10. The potential of indigenous bacteria from the olive rhizosphere as biological control agents against a broad range of phytopathogens**
David Ruano-Rosa, Antonio Valverde-Corredor, Carmen Gómez-Lama Cabanás, Rafael Sesmero, Jesús Mercado-Blanco

11. Updated check list of scale insects (Hemiptera: Coccoidea) on olive trees in Croatia with special regard on Black araucaria scale - *Lindingaspis rossi* (Maskell 1891)

Tatjana Masten Milek, Mladen Šimala, Mario Bjeliš, Maja Pintar, Vjekoslav Markotić

12. Preliminary studies on the management of the under canopy flora as a potential means to control the olive bug *Closterotomus (Calocoris) trivialis*

Dionyssios Perdikis, Spyridonas Reppas, Konstantina Arvaniti, Chrysaugi Reppa

13. Biodiversity of soil beneficial arthropods in olive groves of different crop systems in three regions in Greece

Eleftheria Kapaxidi, Maria Chatzaki, George Partsinevelos, Filitsa Karamaouna, Dimitrios Papachristos, Styliani Malliaraki, Aikaterini Angelaki, Chrysoula Manolaraki, Georgia Giakoumaki, Spyridonas Reppas

14. "Teasing" the reproductive system of *Bactrocera oleae* as a potential tool for pest control

Maria-Eleni Gregoriou, Spyros Tastsoglou, Martin Reczko, Kostas Mathiopoulos

15. Remating of olive fruit fly (*Bactrocera oleae*) in the wild

Christos Gerofotis, Antonis Augustinos, Maria-Eleni Gregoriou, Kostas Mathiopoulos, Nikos Papadopoulos

16. Using Geometric morphometrics to investigate wing dimorphism in Iranian populations of *Bactrocera oleae* (Rossi) (Diptera: Tephritidae)

Mitra Moezipour, Jamasb. Nozari, Parvaneh Azmayesh Fard, Kostas Mathiopoulos

17. Geometric morphometric analysis of wing shape variation in world populations of *Bactrocera oleae*

Mitra Moezipour, Jamasb. Nozari, Parvaneh Azmayesh Fard, Kostas Mathiopoulos

13:15-14:45 Lunch

Session V – Control of diseases and pests

Moderators: Kostas Mathiopoulos, Anna Maria D'Onghia

14:45-15:00 Effects of semi-natural habitats on spiders in olive groves and their potential role against *Bactrocera oleae* (Rossi) (Diptera: Tephritidae).

Malayka Picchi, Martin Entling, Ruggero Petacchi

- 15:00-15:15** **Functional responses of soil predators fed on pupae of *Bactrocera oleae* (Rossi)**
Ana Dinis, Jacinto Benhadi-Marín, José Alberto Pereira, Sónia Santos
- 15:15-15:30** **An autoparasitoid inferior at resource exploitation outcompetes primary parasitoids and controls their common host (*Saissetia oleae*) in the field**
Rosalina Marrão, José Alberto Pereira, Alejandro Tena
- 15:30-15:45** **Effects of natural occurring plants in olive agroecosystems and insect honeydews on the survival of *Chrysoperla carnea* (Neuroptera: Chrysopidae)**
María Villa, Jacinto Benhadi-Marín, António Mexia, Albino Bento, José Alberto Pereira
- 15:45-16:00** **Production of alkaline protease by a Tunisian *Brevibacillus brevis* strain used as biopesticide against *Prays oleae***
Imen Blibech, Mohieddine Ksantini, Sami Aifa
- 16:00-16:15** **The outbreak of the olive leaf gall midge populations and the importance of indigenous natural enemies in its control**
Dionyssios Perdikis, Konstantina Arvaniti, Styliani Malliaraki, Aikaterini Angelaki
- 16:15-16:30** **A novel insecticidal formulation based on α -cypermethrin against *Bactrocera oleae* (Rossi) (Diptera: Tephritidae)**
Nickolas Kavallieratos, Stergios Bitivanos, Anastasios Klitsinaris, Efstratios Tzirtzilakis, Ioannis Rallis, Ioannis Zarboutis, Dimitra Markoyannaki, Dimitrios Kontodimas
- 16:30-16:45** **Population dynamics of the olive fly in Kyparisia, Greece under an area wide management program**
Athanassios Liakatas, Antonios Paraskevopoulos, Spyros Fountas, Nikoleta Dionysopoulou, Nikos Papadopoulos
- 16:45-17:15** Coffee break

17:15-18:00 POSTER SESSION

- 18. Arthropoda associated to the olive crop in Southern Portugal (Algarve)**
Maria Gonçalves

- 19. Biodiversity of arthropods in a landscape mosaic dominated by organic olive groves in Alentejo (south-east of Portugal)**
Cláudia Gonçalves, Maria Isabel Patanita, Paula Nozes, Ruben Mateus, José Alberto Pereira, Sónia Santos
- 20. Scale insect mortality in olive trees in Rio Grande do Sul (Brasil)**
Gabriela de Souza, Luiza R. Redaelli, Vera Wolff
- 21. Diversity and parasitism of scale insects (Hemiptera: Coccoidea) in ten varieties of olive trees (*Olea europaea* L.) in Southern Brazil**
Vera Wolff, Caio Efrom, Daniele Campos da Silva, Adilson Tonietto
- 22. Genomic and functional approaches for understanding the adaptation of the olive fruit fly *Bactrocera oleae* to olives**
Nena Pavlidi, Nicky Wybouw, Wannes Dermauw, Yannis Livadaras, Thomas Van Leeuwen, John Vontas
- 23. Ecosystem services for the control of *Bactrocera oleae* in different landscape spatial contexts**
Manuel González-Núñez, Ismael Sánchez-Ramos, Marta Ortega, Alejandro Rescia, Susana Pascual
- 24. Estimation of the number of olive fruit fly *Bactrocera oleae* (Diptera: Tephritidae) attracted and killed by various bait spray solutions**
Kyriaki Varikou, Nikos Garantonakis, Athanasia Birouraki
- 25. Composition and biodiversity of weed flora in established olive groves of southern Greece**
Garyfallia Economou, Dionysios Kalivas, Petros Vahamidis
- 26. Insect pests associated with olive crop and virulence of native entomopathogenic nematodes to olive kernel borer, *Prays oleae* (Lepidoptera: Hyponomeutidae) in Saudi Arabia**
Magdy El-Kholy, Abdellah Abdel-Moniem, Sadek Salem

21:00

Gala dinner

Thursday 14 May 2015

Session VI – Control of diseases and pests (continued)

Moderator: Franco Nigro, Polymnia Antoniou

9:00-9:30

Verticillium wilt of olive - Current status and Management

Leah Tsrer (Lahkim), Invited Speaker

- 9:30-9:45** **Serious anthracnose outbreak starting from inflorescence infection of olive trees in west Greece**
Eleftherios Tjamos, Maria Iliadi, Dimitrios Tsitsigiannis,
Polymnia Antoniou
- 9:45-10:00** **Biological control of olive anthracnose**
Franco Nigro, Ilaria Antelmi, Rossella Labarile, Valentina Sion, Isabella Pentimone
- 10:00-10:15** **Current problems in managing Verticillium wilt of olives in Greece and the prospective of non chemical and biological control of the disease in olive orchards**
Polymnia Antoniou, Sotirios Tjamos, Dimitrios Tsitsigiannis, Eleftherios Tjamos

10:15-11:00 POSTER SESSION

- 27. Screening of organic amendments, plant extracts and microorganisms for the control of Verticillium wilt in olive trees**
Ángela Varo, Carmen Raya, Luis Roca, Antonio Mulero, Mustafa Adem, Francisco Javier López-Escudero, Antonio Trapero
- 28. Effect of the irrigation dose on Verticillium wilt of Olive**
Mario Pérez-Rodríguez, Ignacio Lorite, Francisco Orgaz, Francisco Javier López-Escudero
- 29. Endophytic bacteria as biocontrol agents against Verticillium wilt on olive tree: an overview**
Diogo Mina, José Alberto Pereira, Albino Bento, Paula Baptista
- 30. A preliminary study of potential use of olive mill wastes as biocide against pupae of *Bactrocera oleae***
Argyro Kalaitzaki, George Koubouris, George Psarras, Emmanouil Markakis, Eleni Malandraki
- 31. SuccessTM 0.24 CB, the Naturalyte Insecticide for the control of *Bactrocera oleae* (Gmelin) by bait spray in Mediterranean countries**
Vassilis Apostolidis, Maria Torne, Enzo Tescari, Aris Chloridis
- 32. Pruning residue management associated pathogens in olive**
Emmanouil Markakis, George Koubouris, Nektarios Kavroulakis, George Psarras, Chryssa Sergeantani, Argyro Kalaitzaki
- 33. Quick decline syndrome and anthracnose: emerging and reemerging diseases of olive posing new challenges for an**

integrated control approach

Franco Nigro, Ilaria Antelmi, Antonio Ippolito

34. Risk assessment of *Xylella fastidiosa* for olive growing area of Croatia

Mario Bjeliš, Dario Ivić

11:00-11:30 **Coffee break**

11:30-12:00 **Concluding remarks**

Nikos Papadopoulos, Eleftherios Tjamos

12:00-12:30 **Meeting of the WG – Future developments – Voting on the next Venue**

Convenor – *Dionyssios Perdikis*

IOBC Representative – *Nikos Papadopoulos*