

PROGRAMME

Sunday February 28th

16:00 Arrival, Registration and setting up posters
Registration Desk at Beach Club Hotel Conference Hall

Monday March 1st

08:30 Registration

09:30 Opening Ceremony and Plenary Lectures

10:00 Invited Speaker Presentation

- The Greening/Huanglongbing Disease of Citrus, its Dangers and Current Status Worldwide
Roistacher C. N.
- Discussion

11:30 Coffee break

DISEASES

Morning Session

Chairperson: Mohamed BESRI; Co-chairperson: Mohamed BOUHIDA

12:00 Presentations (*10 min. presentation + 5 min. discussion per talk at the end of each session*)

- The Tristeza Disease of Citrus, its History and Relevance for Morocco
Roistacher C. N.
- Expected CTV Impact on the Moroccan Citrus Industry After *Toxoptera citricida* Expands to Our Region
Zemzami M.
- Detection of an Outbreak of Citrus Tristeza Virus in Morocco
Afechtal M., A.M. D'Onghia, and K. Djelouah
- Novel Approaches to Evaluate the Genetic Diversity of Citrus Tristeza Virus
Raspagliesi Domenico, Grazia Licciardello, Serena Rizza, Alessandro Lombardo, and **A. Catara**

12:40 Discussion

13:00 Lunch

Afternoon Session

Chairperson: Ahmed AIT-OUBAHOU; *Co-chairperson:* ALI A. ELAGAEL

14:30 Presentations

- Regeneration and sanitation by stigma/style somatic embryogenesis of citrus genotypes in Algeria: preliminary results
Meziane M., M. Boudjeniba., D. Frasheri, A. M. D'Onghia, A. Carra, F. Carimi, N. Haddad, S. Boukhalfa, S. Braneci
- Increasing Concern on Alternaria Brown Spot of Citrus in Italy
Bella Patrizia, **Giuliana Ialacci, Marcella Russo, Vittoria Catara**, and **Antonino Catara**
- Effect of *Trichoderma harzianum* on Delivery Systems in Enhancing Seeds Germination and Seedlings Growth of Sour Orange (*Citrus aurantium*)
Falih H. S. , H. M. Aboud , U. A. Alwan , H. N. Kashmer

15:00 Discussion

MITES

Chairperson: Malika BOUNFOUR; *Co-chairperson:* Ferran GARCIA-MARI

15:15 Presentations

- Acarine Pests of Citrus: Where Have They Come From and Where are we Going?
Gerson Uri
- Sustainable Management of Two-Spotted Spider Mite *Tetranychus urticae* (Acari: Tetranychidae) on Clementine Citrus Groves
Martínez-Ferrer M.T., J.M. Campos, J. M. Fibla.
- Windborne Pollen Provisioning Cover Crops (WPPCC) for Enhancing the Population Levels of *Euseius scutalis* and Improving Citrus Rust Mite Control
Palevsky E., S. Gal, Y. Maoz, Y. Argov, E. Melamed, S. Domeratzky, S. Gross, S. Shmueli, and Y. Abrahams
- Replacement of CTV-Susceptible Sour Orange Rootstock by CTV-Tolerant Ones May Have Triggered Outbreaks of *Tetranychus urticae* in Spanish Citrus
Bruessow F., M. José Asins, J.A. Jacas, and **A. Urbaneja**
- Optimization of the PCR-Multiplex Technique for Prey Detection in Citrus Mites
Pina T., C. Pérez-Sayas, J. A. Jacas, and M. A. Hurtado

16:05 Discussion

16:30 Poster Session and Coffee Break

HEMIPTERA

Chairperson: Mohamed. ABBASSI Co-chairperson: Alberto. URBANEJA

17:30 Presentations

- Monitoring of the California Red Scale *Aonidiella aurantii* (Maskell), the Tetranychid mites and their natural enemies on citrus fruits in the Gharb area (Morocco)
Boutaleb Joutei A. and I. EL Hardouni
- Natural Mortality of the California Red Scale, *Aonidiella aurantii* in Citrus of Eastern Spain and its Natural Enemies Associated
Vanaclocha P., María Jesús Verdú and Alberto Urbaneja
- The Impact of Canopy Foraging ants on California Red Scale *Aonidiella aurantii* in a Mediterranean Citrus Orchard
Pekas A., A. Tena, A. Aguilar and F. Garcia-Marí
- Introduction, Current Status and Dynamics of *Aonidiella aurantii* (Maskell) (Hemiptera: Diaspididae) in Northeastern Spanish Citrus Groves
Campos Rivela J.M., M. T. Martínez Ferrer, and J. M. Fibla Queralt
- Evaluation of Spirotetramat (Insecticide) on scale insects on citrus in Algeria
Biche M., A.Siafa A, R. Adda and Y Agagna
- Abundance of the citrus mealybug, *Planococcus citri* (Risso) on some citrus species, in the Gezira State (Sudan) and the efficacy of the petroleum spray oil "D-C Tron® Plus" in its control
Tag Elsir E. A. and E. A. Osman
- Efficacy of Some Insecticides in Controlling Jasmine Whitefly *Aleuroclava Jasmini* (Homoptera: Aleyrodidae) on Citrus
Al-Jamali N. and I. Al-Yaseri

18:40 Discussion

20:00 Social Dinner

Tuesday March 2nd

08:00 Technical excursion to:

Citrus nursery
Citrus orchards
Packinghouse

Morning Session

MEDFLY

Chairperson: Mekki CHOUIBANI; Co-chairperson: Synda KHADER BOULAHIA

09:00 Presentations

- Seasonal and Annual Occurrence of the Mediterranean Fruit Fly, *Ceratitis capitata*, in the Souss Valley (Morocco)
Mazih A.
- Contribution to the Forecasting of the Population Dynamics of *Ceratitis capitata* (Diptera, Trypetidae) by an Evaluation of the Degree Days and a Strategy of Egg Laying on a Host Plant (*Prunus armeniaca* L.) in an Orchard in the Mitidja region (Blidean Atlas, Algeria).
Allal Benfekih L., A.F. Ahohouendo, and B. Dridi
- Extension of the Pathway Analysis for the Medfly (*Ceratitis capitata*): mtDNA Variation Among Morocco Populations
Hammouti N., E. M. Griebeler, N. Barr, A. Mazih and A. Seitz
- Effect of Temperature on Development and Activity Periods of the Fruit Fly *Ceratitis capitata* (Diptera: Tephritidae)
El messoussi S., F.J. Beitia, M. Afif, M.J. Verdú, H. Aboussaid and A. Lahrouni
- Comparison of the Effect of Spinosad, Kaolin and Protein Bait Spray on Mediterranean Fruit fly (Diptera: Tephritidae) Populations in Citrus Orchards in the Gharb (Morocco)
Smaili M.C., J. Wadjinny, A. Bakri, F. Gaboune, A. Bourhil, and A. Blenzar
- Insecticidal Potentiality of *Bacillus thuringiensis* Var. *kurstaki* on the Mediterranean Fruit fly *Ceratitis capitata*: Which Prospects?
Allal Benfekih L., B. Dridi, R. Zitouni, and F. Mohamed Mahmoud

10:00 Discussion

10:30 Coffee Break

11:00 Presentations

- Development of Semiochemical based management strategy for Mediterranean fruit fly, *Ceratitis capitata* in citrus groves in Morocco.
Hassan, M.N., S. Al-Zaidi, and **M. Ezekari**
- The use of mass-trapping technique in an integrated pest management program against the Mediterranean fruit fly *Ceratitis capitata* (Diptera: Tephritidae)
Trabelsi I. et S. Boulahia Kheder
- The Sterile Insect Technique for *Ceratitis capitata* on Citrus in Morocco
Bounfour M. and Z. Dehbi
- How to Measure the Efficacy of a SIT Programme?
Juan-Blasco M., B. Sabater-Muñoz, M. Angel Martínez-Utrillas, M. Martínez, I. Pla, R. Argilés, Josep A. Jacas, and A. Urbaneja
- Adress® coupled with SIT: An integrated strategy to control Mediterranean fruit fly *Ceratitis capitata*
Alfaro C., J. Primo and V. Navarro-Llopis

- Biology and behavior of medfly – Video –
Llorens J. M.

12:10 Discussion

13:10 Lunch

Afternoon Session

OTHER PESTS

Chairperson: Gaetano SISCARO; Co-chairperson: Abdel Malek BOUTALEB

14:30 Presentations

- Introductions Of New Pests On Citrus In Mirocco/ 1970- 2010
Abbassi M.
- Pesticide Management in Some Citrus Orchards in the Souss-Massa Region and Residue Contents in the Fruits
Hormatallah, A., M. Salouane, A. Ait-Oubahou, R. Salghi
- Soil Mediated Conservation Bio-Control of Kelly's Citrus Thrips *Pezothrips kellyanus* Pupae
Crisp P. and G. Baker
- Minimizing the Use of Pesticides to Control *Pezothrips kellyanus* and their Side-Effects on Natural Enemies
Tena A., J. Catalán, C. Monzó, J. A. Jacas , and A. Urbaneja
- Prospects of Integrated Pest Management of *Phyllocnistis citrella* (Stain.) in Punjab, Pakistan
Sohail A., R. R. Khan, H. Haider and F. Ahmad
- Effect of Six Treatments on Reducing Citrus Flower Moth *Prays citri* (Millière) Attacks
Tagrourete T., A. Mazih, I. Srairi, B. Labyiedh, and A. Taatmant

15:30 Discussion

16:00 Poster Sessions and Coffee Break

BIOCONTROL AND IMPACT OF PESTICIDES ON BENICIALS

Chairperson: Mohamed ELOTMANI; Co-chairperson: Abderrahim HORMATALLAH

17:00 Presentations

- Conservation Biological Control on citrus
Vercher R., Domínguez Gento, A. González and S. Bergés E.
- Agricultural Domains biocontrol program and perspectives for development
Nia M.
- Biological control of diaspidid scales *Aspidiotus nerii* Bouché and *Aonidiella aurantii* (Maskell) by means of commercial *Aphytis melinus* DeBach (Hym. Aphelinidae) releases: basis for an IPM strategy in Spanish citrus.
Olivas J., A. Lucas, J. Calvo, J. E. Belda
- Side Effects of Pesticides on *Aphytis melinus* DeBach Adults and Young Instars
Zappalà L., A. Biondi and G. Siscaro
- Comparison of the Effect of Soap, Kaolin and Release of Coccinellids Larvae on Aphids (Hemiptera: Aphididae) Population and their Natural Enemies in Citrus
Smaili M.C., H. Boudraim, J. Wadjinny, F. Gaboune, R. Benkirane and A. Blenzar
- Comparative impact of Spinosad and Malathion on the temporal evolution of parasitism caused by *Semielacher petiolatus* Girault (Hymenoptera: Eulophidae), a specific parasitoid of the Citrus Leaf miner
Rahmouni Ridha and **Brahim Chermi**
- Predation of Zodarion sp. (Araneae: Zodariidae) Upon the Invasive Ant *Linepithema humile* (Mayr)
Juan-Blasco¹María, Óscar Mollá¹, Pedro Castañera¹, Stano Pekar³, Alberto Urbaneja¹, and **César Monzó**
- Parasitoids Complex of *Trioza erytrae* (Del Guercio) (Homoptera: Triozidae), the African Citrus Psyllid, in Cameroon
Tamesse J. L.

18:20 Discussion

19:00 Closing ceremony

LIST OF POSTERS

DISEASES

1. Diseases of Citrus in Libya
Elagael Ali and Basher A. Abrihem
2. Evolution of the Fading of Citrus Fruits in the Mitidja (Algeria)
Benchabane Messaoud
3. First Observation of the Symptoms of a Physiological Disorder on Citrus Fruits in Morocco: The Exanthema
Benyahia H. , C. Smaili, I. Beniken, N. Handaji, and M. Zekri
4. Monitoring of *Citrus Tristeza Virus* and its Vectors on Citrus Nurseries in Sicily
Riolo G., F. Conti, R. D'Anna, and C.C. Pedrotti
5. Obtaining viroid-free 'Nour' Clementine by Shoot tip Micrografting
Benhima R, N. Ganoune, R. Aitelayad, L. Khouimi, and M. Bouhida
6. Antifungal Activity of Moroccan Plants Against *Penicillium italicum*, the Causal Agent of Blue Mold of Citrus
Askarne L., I. Talibi, M.A. Serghini, H.boubaker, F. Msanda, A. Ait Ben Aoumar and E.H. Boudyach
7. Morphological and Physiological Characterization of Seven Isolates of *Colletotrichum gleosporioides*, Responsible of Wither Tip and Tear Stain on Citrus in Morocco
Benyahia H., M. Bengueddour, A. Talha, R. Benkirane. A. Douira , and L. Beniken
8. Combined Application of *Pseudomonas* Biocontrol Agents and Elicitors for the Control of Postharvest Decay of Citrus Fruit
Panebianco S., C. Platania, G. Scuderi, and G. Cirvilleri
9. Chemical, Biological and Integrated Control of Citrus Nematode *Tylenchulus semipenetrans* Cobb, 1913
Sulaiman N.Ami, and A.M.A. Al-hakim
10. Identification of *Tylenchulus semipenetrans* Biotype in Morocco
Mokrini F. and F. Abbad Andaloussi
11. Importance and Distribution of the Main Citrus Nematodes species in Morocco
Mokrini F. and F. Abbad Andaloussi
12. Plant Parasitic Nematodes Associated with Citrus in Al-Qassim, Saudi Arabia
Al-Rehiyani S.

MITES

13. Comparison of the Genetic Structure of two Populations of *Tetranychus urticae* Koch (Acari: Prostigmata) in Clementine Orchards Under Integrated and Organic Crop Management
Pascual-Ruiz S., T. Ansaloni, J. A. Jacas, and M.A. Hurtado
14. Ground Cover Management Affects the Biological Control of *Tetranychus urticae* Koch (Acari: Prostigmata) in Clementine Orchards
Aguilar-Fenollosa E., M. V. Ibáñez-Gual, S. Pascual-Ruiz, M. A. Hurtado, and J. A. Jacas
15. Population Dynamics of the Citrus Oriental Mite, *Eutetranychus orientalis* (Klein) (Acari: Tetranychidae), and its Mite Predatory Complex in Southern Spain
Ledesma C., M.E.Wong, J.M.Vela, J.A. Jacas, and J.R. Boyero

HEMIPTERA

16. The first account of the mating disruption technique for the control of California red scale, *Aonidiella aurantii* Maskell (Homoptera: Diaspididae) using new biodegradable dispensers
Vacas S., C. Alfaro, V. Navarro-Llopis and J. Primo
17. Ecology's Study of the interactions between black scale of orange tree *Parlatoria zizyphi* Lucas 1893 (Homoptera; Diaspididae) and its host plant: mandarin tree (*Citrus deliciosa*) in Mitidja.
Chouih S., A. Guendouz-Benrima and H. Saighi
18. The Impact of the *Parlatoria zizyphi* infestations on Physicochemical Quality of Citrus Fruits «Case of the Clementine variety» in Mitidja (Boufarik, Algeria)
Belguendouz R., S. Louz, and S. Bekkouche
19. Observations on the Biology of *Chrysomphalus aonidum* (L) (Hemiptera: Diaspididae) in Southern Italy and its Natural Enemies
Palmeri V., O. Campolo, G. M. Algeri, S. B. Grande, E. Chiera and V. Maione
20. The Use of the Vineyard Mealybug Sex Pheromone to Improve Biological Control of the Citrus Mealybug
Mendel Z., A. Zada, S. Gross, S. Steinberg, E. Borges da Silva and J. C. Franco
21. First Preliminary Study on the Biology of the Citrus Mealybug *Planococcus citri* (Risso) (Hemiptera, Pseudococcidae) of Citrus in Tunisia
Jendoubi H. , K. Lebdi Grissa, P. Suma, and A. Russo
22. Research of substitute products for the control of Cottony Cushion Scale *Icerya purshaci* Maskell (1878) (Homoptera: Margaroididae) on citrus in Morocco and role of vedalia

beetle *Rodolia cardinalis* Mulsant (Coleoptera: Coccinellidae)

Nafide M. , A. J. Boutaleb , A. Mazih , A. Rizqi

23. Host Preference of Jasmine Whitefly *Aleuroclava jasmini* (Homoptera: Aleyrodidae) on Citrus in South Baghdad Orchards

Khalaf M. Z., B.Sh. Hamd, B.H. Hassan, A.H. Salman and F.H. Naher

MEDFLY

24. CeraTrap, a Mass Trapping System for the Control of the Mediterranean Fruit Fly *Ceratitis capitata* in Citrus Fruit Crops

El Arabi., M. Miloudi, C. Marín and N. Sierras

25. Effects of Post-teneral Nutrition and Ginger Root Oil Exposure on Longevity and Mortality in Bait Treatments of Sterile Male *Ceratitis capitata*

San Andrés V., J. Pérez-Panadés, E. Carbonell, P. Castañera, and A. Urbaneja

26. Evaluation of Different Traps and Lures for Mass Trapping of Mediterranean Fruit Fly *Ceratitis capitata* Wied. (Diptera ; Tephritidae) in Citrus Groves

Boulahia Kheder S., W. Salleh, N. Awadi, M. Fezzani, and F. Jrad

27. Extension of the Pathway Analysis for the Medfly (*Ceratitis capitata*): mtDNA Variation among Morocco Populations

HammoutiN., E. Maria Griebeler, N. Barr, A. Mazih and A. Seitz

28. Mass Trapping for the Control of the Mediterranean Fruit Fly *Ceratitis capitata* in Citrus Orchards in Tunisia

Mediouni-Ben Jemâa J., B. Olfa, S. Skillman and E. Kerber

29. New Technique for the Control of the Medfly (*Ceratitis Capitata*) Using Adress in Citrus Orchards

A. Mazih, S. Eltazi, I. Srairi, S. Sahil, H. Bouguiri, M. Miloudi, Y. Moubaraki, Y. Bourachidi, T. Elmourhir, K. Lamqadem, T. Tagrourete, and B. Labyiedh

30. Proximity to Fig Trees Increases Medfly Populations in Citrus Orchards

Alonso Muñoz A. and F. Garcia-Marí

31. Activity of Cyt1Aa Protein from *Bacillus thuringiensis* (Berliner) subsp. *israelensis* Against the Mediterranean Fruit Fly, *Ceratitis capitata* (Wiedemann)

Vidal-Quist J. C., A. Urbaneja, P. Castañera, and J. González-Cabrera

32. Side-effects of the Most Used Citrus Pesticides on Medfly Sterile Males

Juan-Blasco M., L. Planes, R. Argilés, J. A. Jacas, B. Sabater-Muñoz, and A. Urbaneja

33. Adulticide activity of the extracts of *Mandragora autumnalis* Bertol on the *Ceratitis capitata*
Fahad K. S. Lhaloui, N. Gmira, and M. Afechtal

OTHER PESTS

34. Citrus IPM in Morocco: Current Status
Mazih A.
35. Kelly's Citrus Thrips Integrated Pest Management System with Production and Environmental Benefits
Crisp P. and G. Baker
36. Agronomic Outcomes of IPM Control of Citrus Thrips in Riverland Soils
Crisp P., G. Baker and S. Wheeler
37. Population Trend and Fruit Damage of *Pezothrips kellyanus* (Thysanoptera: Thripidae) in Citrus Groves in Valencia (Spain)
Navarro C., A. Aguilar, and F. García-Marí
38. Effects of Chemical Control Against *Phyllocnistis citrella* Stainton on the Survey of the Aphid Parasitoids
Guenaoui Y.
39. Evolution of the Leaf Miner (*Phyllocnistis citrella* Stainton) - Mediterranean Fruit Fly (*Ceratitis capitata* Wiedemann) Pest Complex in a Citrus Orchard Stressed by Mass Trapping
Chouih S., L. Allal-Benfekih, and Z.E. Djazouli
40. Population Dynamics of the Citrus Leafminer, *Phyllocnistis citrella* (Lepidoptera: Gracillariidae) in Western Algeria
Boualem M. , A. Berkani, and C. Villemant
41. Impact of plant treatments on population's dynamics of *Ceratitis capitata* (Diptera, Trypetidae), *Phyllocnistis citrella* (Lepidoptera, Gracilariidae) and *Aleurotrexus flocosus* (Homoptera, Aleurodidae) in a Clementine orchard located in the Mitidja region (Algeria).
Djazouli Z. E., R. Chaichi and L. Allal-benfekih
42. Multi-media Guide on the pests of Citrus fruits in Morocco
<http://www.edcomp.net/agrumes/>
Boutaleb.J.A, Bouamri.A., Benziane.T
43. The Effects of Standard and New Generation Spray Oils Repeated Application on "Tarocco" Orange Tree Productivity in Sicily
Conti F. and R. Fisicaro

BIOCONTROL AND IMPACT OF PESTICIDES ON BENEFICIALS

44. Note on an Indigenous and Imported Natural Enemies in Citrus Orchards in Morocco: Diversity and Benefit Impact
Abbassi M., M.C. Smaili, A. Sekkat, A. Mazih, M. Nia, A. Rizqui, B.Tijani
45. Mortality factors of citrus pest *Ceratitis capitata* in south west Morocco: case of involvement of the Argan Myrmecofauna
EL KEROUMI A., K. NAAMANI, A. DAHBI, X. CERDA and R. BOULAY.
46. Efficacy of Two Methodologies to Exclude ants from Citrus Canopies
Juan-Blasco M., A. Tena, P. Vanaclocha, A. Urbaneja, and C. Monzó
47. Influence of Ant-Exclusion on Generalist Predators in a Citrus Orchard
Marras P. M., L. Loru, A. Sassu, F. Sanna, R. A. Pantaleoni
48. Ant Species Associated to Tree Canopy in Citrus Orchards in the Southern Region of Portugal
Zina V., C. Soares, H. Laranjo, and J. C. Franco
49. Biological Control of the Mediterranean Fruit Fly
Argov Y. and Y. Gazit
50. Compatibility of Using *Phytoseiulus persimilis* and *Neoseiulus californicus* (Acari: Phytoseiidae) to Control *Tetranychus urticae* (Acari: Tetranychidae) with Drench Applications of Imidacloprid on Clementine Nurseries
Sá Argolo P., S. Santiago, Ó. Mollá, N. Banyuls, J. A. Jacas, and A. Urbaneja
51. Interspecific competition by *Diachasmimorpha tryoni* and *Diachasmimorpha longicaudata* (Hymenoptera, Braconidae, Opiinae) on *Ceratitis capitata* (Diptera, Tephritidae), in laboratory conditions
Aboussaid, H, D.S. Martins, S. El-Messoussi, B. Sabater-Muñoz, and F. Beitia
52. Nutritional State and Food Sources of *Aphytis melinus* in the Field
Pekas A., A. Tena, F. L. Wäckersand F. Garcia-Marí
53. Quality Control in *Aphytis melinus* Mass Rearing for the Biological Control of *Aonidiella aurantii*
Mazih A., A. Chaib, T. Tagrourete, I. Srairi, K. Ait Lamqadem and A. Errimali
54. Quality Control in *Leptomastix dactylopii* Mass Rearing for the Biological Control of *Planococcus citri*
Mazih A., A. Chaib, T. Tagrourete, I. Srairi, and Y. Rhioui.
55. Survey of Parasitoids of the Citrus Red Scale in the South of Portugal
Pinto A., L. Neto, C. Soares, J. C. Franco

56. Survey of *Psytalia concolor* (Szépligeti) (Hymenoptera: Braconidae), a parasitoid of *Ceratitis capitata* (Diptera, Tephritidae) in Argan Tree in Southwest Region of Morocco
Aboussaid H, S. El- Messoussi and K. Oufdou

57. Research of Alternatives to Chemical Control of California Red Scale *Aonidiella aurantii* Maskell (1878) and Impact on *A. melinus* Debach in Citrus Orchards on the Gharb Area (Morocco)
Nafide M., A.J. Boutaleb, A. Rizqi, and A. Mazih