



Scientific Program Wednesday, 3 July

CONFERENCE I

11.30-14.00 Concurrent Session **18B**

Fungicide Resistance: Diagnosis, Risk Assessment and Management, Integrated Pest Management

Chair: **George Karaoglanidis** (*Aristotle University, Greece*)

Dolores Fernandez Ortuno (*University of Málaga, Spain*)

11.30-11.50 **SE18 C06** Use of bacillus amyloliquefaciens QST713 and Clonostachys rosea IK726 as biocontrol agents to control multidrug resistant strains of Botrytis cinerea.
George Karaoglanidis (*Aristotle University, Greece*)

11.50-12.10 **SE18 C07** Overview of the fungicide sensitivity status of barley pathogens in Europe.
Gerd Stammler (*BASF SE, Germany*)

12.10-12.30 **SE18 C08** Status of resistance development of important potato pathogens in Europe.
Juergern Derpmann (*Bayer AG, CropScience Division, Germany*)

12.30-12.50 **SE18 C09** Unraveling the molecular basis of DMI resistance in Cercospora beticola.
Melvin Bolton (*USDA - ARS, USA*)

12.50-13.10 **SE18 C10** RNA interference, a novel strategy to be incorporated into integrated pest management programs for the cucurbit powdery mildew control.
Dolores Fernandez Ortuno (*University of Málaga, Spain*)

13.10-13.25 **SE18 C11** Characterization of a novel MFS transporter in Botrytis cinerea that confers partial resistance to boscalid and fluopyram.
George Sofianos (*School of Agriculture, Aristotle University of Thessaloniki, Greece*)

13.25-13.40 **SE18 C12** Toward understanding mechanisms of fungicide resistance in dollar spot (causal fungus: Clariireedia jacksonii, formerly Sclerotinia homoeocarpa) on golf course.
Geunhwa Jung (*University of Massachusetts, USA*)

13.40-14.00 **SE18 C13** Four point mutations in vacuolar H⁺-ATPase subunit A confer fluopicolide resistance in Phytophthora capsici.
Xili Liu (*College of Plant Protection, China Agriculture University, China*)

14.00-15.00 Light Lunch - POSTER SESSION



BANQUET

11.30-14.00 Concurrent Session 6A

Advances with Biopesticides to meet Plant Protection Challenges

Chair: Trevor Jackson (*Agresearch, New Zealand*)

Laura Villamizar (*Microbial Solutions, AgResearch Ltd., New Zealand*)

- 11.30-11.45 **SE06 C01** Overcoming constraints and meeting the potential of microbes for plant protection: technology and sustainability
Trevor Jackson (*Agresearch, New Zealand*) and **Laura Villamizar** (*Microbial Solutions, AgResearch Ltd., New Zealand*)
- 11.45-12.00 **SE06 C02** Leveraging the power of two bacterial symbionts in plant protection: *Photorhabdus* and *Xenorhabdus*.
Selcuk Hazir (*Biology, Aydin Adnan Menderes University, Turkey*)
- 12.00-12.15 **SE06 C03** Advances and challenges in biopesticide production - a producer perspective.
Arne Peters (*e-nema GmbH, Germany*)
- 12.15-12.30 **SE06 C04** Multifunctionality in the entomopathogenic endophytic fungi *Metarhizium* spp.
Federico Rivas (*Bioinputs, National Institute for Agricultural Research, Uruguay*)
- 12.30-12.40 **SE06 001** Spray-induced gene silencing in managing soybean fungal diseases.
Zhi-Yuan Chen (*Louisiana State University Agricultural Center, USA*)
- 12.40-12.50 **SE06 002** Controlling olive anthracnose with antifungal metabolites from *Bacillus* species: a biological approach.
Hafiz Husnain Nawaz (*Agricultural, Environmental and Food Sciences, Free University of Bozen Bolzano, Italy*)
- 12.50-13.00 **SE06 003** New promising “biofungicides” targeting the fungal cell wall to control the cucurbit powdery mildew *Podosphaera xanthii*.
Isabel Padilla-Roji (*Universidad de Málaga, Spain*)
- 13.00-13.10 **SE06 004** Insect parasitoids offer a natural source of novel bio-insecticides for sustainable plant protection in diverse ecologies.
Zain UL Abdin (*Entomology, University of Agriculture (Faisalabad), Pakistan*)
- 13.10-13.20 **SE06 005** List of success of oligonucleotide insecticides: Hemipteran pests under control of the unmodified antisense DNA.
Vol Oberemok (*Molecular Genetics and Biotechnologies, V.I. Vernadsky Crimean Federal University, Russia*)
- 13.20-13.30 **SE06 006** Evaluation of entomopathogenic nematodes viability as affected by spray application techniques and operational parameters.
Elena Gonella (*Department of Agricultural, Forest and Food Sciences, Università Degli Studi di Torino, Italy*)
- 13.30-13.40 **SE06 007** *Methylobacterium*-induced plant bleaching: analyzing molecular mechanisms towards the establishment of R&D basis for microbial herbicides.
Masataka Izumi (*Tokyo University of Agriculture and Technology, Japan*)
- 13.40-13.50 **SE06 008** Evaluation of rhizobacteria and biogenic silver nanoparticles for the management of *Pseudomonas syringae* pv. *syringae* causing bacterial canker on plum.
Raees Ahmed (*University of Poonch Rawalakot, Pakistan*)



BANQUET

15.00-17.30 Concurrent Session 44

Plant Protection Products

Chair: Richard Peters (*Agriculture and Agri - Food Canada*)

Giulia Scimone (*Department of Agriculture, Food and Environment, University of Pisa, Italy*)

- 15.00-15.15 SE44 001** A new yeast-derived product in plant protection trade: boosting grapevine eco-friendly weapons against *Botrytis cinerea* and *Plasmopara viticola* infection.
Giulia Scimone (*Department of Agriculture, Food and Environment, University of Pisa, Italy*)
- 15.15-15.30 SE44 002** *Tanymecus dilaticollis*, a major pest of the maize crops in Romania.
Georgescu Emil (*National Agricultural Research and Development Institute Fundulea, Romania*)
- 15.30-15.45 SE44 003** Management of white mold of potato with foliar fungicides.
Richard Peters (*Agriculture and Agri-Food Canada, Canada*)
- 15.45-16.00 SE44 004** Effect of pest control strategies on european arthropod pests of apple: a meta-analysis.
Ingrid Aline Bapfubusa Niyibizi (*Department of Ecology, Brandenburg University of Technology Cottbus-Senftenberg, Germany*)
- 16.00-16.15 SE44 005** RNA interference technology: a new path for the research and management of the obligate biotrophic phytopathogenic fungus *Podosphaera xanthii*.
Nisrine Bakhat (*Universidad de Málaga, Spain*)
- 16.15-16.30 SE44 006** Contact unmodified antisense DNA (cuad) biotechnology: oligonucleotide insecticides as the next-generation plant protection product for green agriculture.
Vol Oberemok (*Molecular Genetics And Biotechnologies, V.I. Vernadsky Crimean Federal University, Russia*)
- 16.30-16.45 SE44 007** Studies on the pathogenicity of fungal based bio-pesticide *Metarhizium anisopliae* var. *acridum* against desert locust, *Schistocerca gregaria*.
Hazrat Said (*Agriculture Research Institute Peshawar Pakistan*)



MC3

15.00-17.30 Concurrent Session 46

Post-Harvest Pest and Disease Management

Chair: Christos Athanassiou (*University of Thessaly, Greece*)

15.00-15.20 SE46 C01 Grain protectants: challenges and opportunities.

Christos Athanassiou (*University of Thessaly, Greece*)

15.20-15.40 SE46 C02 Using behavior and microbial ecology to help improve surveillance and management programs for stored product insects in a warming world.

William R. Morrison III (*Center for Grain and Animal Health, USDA-ARS, USA*)

15.40-16.00 SE46 C03 Post Harvest disease management of fresh produced with innovative and eco-friendly solutions.

Davide Spadaro (*Disafa, University of Turin, Italy*)

16.00-16.10 SE46 001 Eucalyptus globulus essential oil-based control-release nanoformulations against *Sitophilus oryzae* (L.): promising novel nano-delivery systems for sustainable grain protection.

Anitha Santhanakrishnan (*Annamalai University, India*)

16.10-16.20 SE46 002 Attractiveness of male and female adults of *Cryptolestes ferrugineus* (Coleoptera: Laemophloeidae) in grain.

Fuji Jian (*University of Manitoba, Canada*)

16.20-16.30 SE46 003 Studies on biology at different temperature regimes and screening of indigenous stored rice cultivars against rice weevil, *Sitophilus oryzae* (L.).

Abhipsa Subhadarsini (*Central Agricultural University, India*)

16.30-16.40 SE46 004 The use of sigs (spray-induced gene silencing) strategy in the control of *Botrytis cinerea* in horticultural crops.

Alba López-Laguna (*University of Málaga, Spain*)

16.40-16.50 SE46 005 Seed storage fungi and aflatoxin contamination in sesame in Benue State, north central Nigeria.

Matthew Elaigwu (*Integrated Science Department, College of Education, Oju, Benue State, Nigeria*)

16.50-17.00 SE46 006 Integrated pre- and postharvest practices for managing brown rot of citrus fruit to meet quarantines for *Phytophthora* species.

James Adaskaveg (*Microbiology and Plant Pathology, University of California, USA*)

17.00-17.10 SE46 007 Efficacy of extreme temperatures on all life stages of *Oryzaephilus surinamensis* (L.) and *Ephestia kuehniella* Zeller.

Marina Gourgouta (*University of Thessaly, Greece*)

17.10-17.20 SE46 008 Diatomaceous earths are promising alternatives for the control of stored product insects.

Philippos Ioannidis (*ELVIZ, Greece*)



CONFERENCE I

11.30-13.00 Concurrent Session 9

New Advances and Technologies for Postharvest Diseases Control

Chair: Davide Spadaro (*Disafa, University of Turin, Italy*)

James Adaskaveg (*Microbiology and Plant Pathology, University of California, USA*)

- 11.30-11.45 **SE09 C01** Postharvest loss management through novel technologies - bridging the gap between research and practice.
Gianfranco Romanazzi (*Marche Polytechnic University, Italy*)
- 11.45-12.00 **SE09 C02** Overview of Post Harvest disease management practices on apple: prevention, monitoring and control.
Davide Spadaro (*Disafa, University of Turin, Italy*)
- 12.00-12.20 **SE09 C03** Recent advances in alternative treatments including biocontrols, biopesticides, inorganic salts, and physical technologies for managing postharvest decays of fruit and vegetable crops.
James Adaskaveg (*Microbiology and Plant Pathology, University of California, USA*)
- 12.20-12.40 **SE09 001** DNA-aptamers as a novel strategy in agriculture to control the gray mold disease caused by *Botrytis cinerea*.
Alba López-Laguna (*University of Málaga, Spain*)

14.00-15.00 Light Lunch - POSTER SESSION



CONFERENCE I

08.30-11.00 Concurrent Session 18A

Fungicide Resistance: Diagnosis, Risk Assessment and Management, Integrated Pest Management

Chair: George Karaoglanidis (*Aristotle University, Greece*)

Dolores Fernandez Ortuno (*University of Málaga, Spain*)

- 08.30-08.50 SE18 001** The sensitivity of *Exserohilum turcicum*, the causal pathogen of northern leaf blight, to demethylation inhibitor fungicides in South Africa.
Marné Van Butzelaar (*University of Pretoria, South Africa*)
- 08.50-09.10 SE18 C01** Evolution of resistance in *Fusarium fujikuroi* to fungicides.
Chuanqing Zhang (*Zhejiang Agriculture and Forest University, China*)
- 09.10-09.30 SE18 002** Biological activity of difenoconazole against *Exserohilum turcicum*, the causal pathogen of northern leaf blight of maize and fungal baseline sensitivity.
David Livingstone Nsibo (*Plant and Soil Sciences, University of Pretoria, South Africa*)
- 09.30-09.50 SE18 003** Metabolomics reveals insights into the pathogenicity and resistance of *Colletotrichum acutatum* species complex to fungicides.
Sotirios Giannakaris (*Agricultural University of Athens, Greece*)
- 09.50-10.10 SE18 C02** Fungicide sensitivity in *Pyrenophora teres* f. *teres* Estonian population.
Andres Mäe (*Department of Plant Protection, METK, Estonia*)
- 10.10-10.30 SE18 C03** Monitoring and molecular mechanisms of fungicide resistance of *Botrytis cinerea* strains isolated from strawberries in Korea.
Hyunkyu Sang (*Chonnam National University, South Korea*)
- 10.30-10.50 SE18 C04** Prevalence, mechanisms of resistance, and management of DMI and MBC fungicide resistance in *Monilinia fructicola* from Southeastern US peach orchards.
Guido Schnabel (*Plant and Environmental Sciences, Clemson University, USA*)
- 10.50-11.10 SE18 C05** Selection for fenhexamid resistance in *Botrytis cinerea* relating to spray dosage, timing, and mixture.
Mengjun Hu (*AGNR - Plant Science and Landscape Architecture (PSLA), University of Maryland College Park, USA*)

11.00-11.30 Coffee Break - POSTER SESSION