





INTERNATIONAL ASSOCIATION FOR THE PLANT PROTECTION SCIENCES HELLENIC SOCIETY OF PHYTIATRY

AGRICULTURAL UNIVERSITY OF ATHENS

Kantarianal Protection Congress Healthy Plants Support Human Welfare

1-5 JULY 2024 Megaron Athens

INTERNATIONAL CONVENTION CENTER

ATHENS GREECE

Final Program

XX International Plant Protection Congress Healthy Plants Support Human Welfare

Welcome to the 20th IPPC



The International Association for the Plant Protection Sciences welcomes you to the **20th International Plant Protection Congress**

The first International Plant Protection Congress (IPPC) was held in Louvain, Belgium in 1946. It took 50 years before IAPPS became the official organisation responsible for subsequent Congresses.

The IAPPS Board consists of:

An Executive - President, Vice President, Secretary General, and Treasurer

Thirteen Regional Coordinators - Covering the major regions of the world, and

Six Industry and Institutional Representatives

IAPPS membership subscriptions (https://www.plantprotection.org/subscriptions/) consist of:

Developed country

- Student
- Developing country
 Institutional

IAPPS communicates and interacts with its members, and the plant protection community at large, in the following ways:

- The Global Plant Protection News Service
- Involvement in Regional Symposia and Workshops
- Monthly IAPPS Newsletter published online and in "Crop Protection" (IAPPS Official Journal)



• The IAPPS Website (www.plantprotection.org)



- An Education and Training section of the website including:
 - Plant Protection stories that illustrate the complex multi-disciplinary aspects of many plant protection issues
 - Online publications including a recent review of digital identification tools for plant biosecurity
 - Digital pathway keys for important rice pests and beneficials in Asia and West Africa

Welcome address from the Chairman

Dear colleagues and friends,

The Hellenic Society of Phytiatry, my colleagues from the Laboratory of Plant Pathology at AUA, and I are honored by IAPPS to organize the XX IPPC in Athens. As chairman and organizational coordinator, I am proud to welcome you.

Having organized and participated in numerous international plant protection congresses, I understand the immense effort and pressure involved in ensuring smooth coordination and decision-making among organizing committees and participants. The COVID-19 pandemic significantly impacted attendance, overlapping with other scientific congresses, yet we greatly appreciate the participation of scientists from around the world.

With the excellent collaboration of Secretary General Short Heinrichs and the IAPPS Governing Board, we have secured outstanding chairs and speakers to enhance the quality of the congress. We are thrilled to have so many top Plant Protection scientists join us in Athens, the cradle of civilization, science, and art.

The program includes 11 keynote-plenary presentations, 550 invited/oral presentations, and 200 posters from over 700 scientists from nearly 60 countries. We are especially proud to welcome over 200 young scientists, including graduate and postgraduate students and postdocs, who will exchange scientific experiences and forge future connections.

We are pleased to host the 14th International Verticillium Symposium during the congress. The International Plant Protection Congress offers a valuable opportunity to exchange information, recognize efforts, and reward scientific achievements in plant protection.

We extend our gratitude to international organizations like FAO and EPPO for their contributions, and to our sponsors BASF, Syngenta, and Corteva for their substantial support. We also thank the IAPPS Governing Board, the local organizing committee, the Agricultural University of Athens, and the Ministry of Rural Development and Food for their assistance.

Special thanks to the congress secretariat led by Mr. Panagiotis Georgakopoulos and Global Events S.A. under Mrs. Bessy Paliouras for their tremendous effort in managing requests and communications.

Welcome to Athens and enjoy the XX IPPC and Greece!

Eleftherios (Eris) Tjamos Chairman of the XX IPPC ATHENS 2024





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Organizers



Hellenic Society of Phytiatry



International Association for the Plant Protection Sciences



Agricultural University of Athens

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Program Planning and Steering Committee

Prof. Geoff Norton IAPPS President

Dr. Manuele Tamo IAPPS Vice-President

Prof. Elvis "Short" Heinrichs IAPPS Secretary General

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Prof. Falia Economou AUA Weed Science Society of Greece

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Dr. C. Varveri Benaki Phytopathological Institute

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Prof. K. Kalantidis University of Crete

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Prof. A. Tzima AUA

Prof. E. Chatzivassiliou AUA

Plant Protection Congress Healthy Plants Support Human Welfare

Local Organizing and Scientific Committee



Greek Plant Protection Scientific Societies and the Board members of the Hellenic Society of Phytiatry

Prof. Eris Tjamos

(Plant Pathology, Plant Medicine), President of the Hellenic Society of Phytiatry, Chairman, Athens, Greece

Prof. Epaminondas Paplomatas

(Fungal diseases, Molecular Plant Pathology) Vice Chairman, former Vice Rector of AUA Athens, Greece

Prof. Dionysios Perdikis

President of the Hellenic Entomological Society (Insects-Biological Control), AUA, Athens, Greece

Prof. Falia Economou

(Weeds-Herbicides), AUA, Athens, Greece President of the Weed Science Society of Greece, Athens, Greece

Agricultural University of Athens, AUA

Prof. Spyros Kintzios

- Prof. Spyros Fountas
- Prof. John Vontas
- **Prof. Emmanouil Flemetakis**
- **Prof. Petros Tarantilis**
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- Prof. Ioannis E. Papadakis
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- Prof. Katerina Biniari
- Dr. Anastasia Venieraki
- **Prof. Kostas Aliferis**
- **Prof. Kostas Saitanis**
- **Prof. Ilias Travlos**
- **Prof. Dimitrios Bilalis**
- Prof. Polydefkis Hatzopoulos

Prof. Dimitris Tsitsigiannis (Fungal diseases-Mycotoxins), AUA, Athens, Greece

Prof. Sotiris Tjamos (Biological control, Molecular Plant Pathology), AUA, Athens, Greece

Prof. Antonios Tsagkarakis (Insects), Athens, AUA, Greece

Dr. Philippos Ioannidis (Private sector) Salonika Greece

Mr. Anastasios Klitsinaris BASF, Athens Greece

Aristotle University of Thessaloniki, AUTH

Prof. Nikos Katis Prof. George Karaoglanidis Prof. Varvara Maliogka Prof. Anastasia Lagopodi Prof. Dimitris Kovaios Prof. Nikos Koulousis Prof. Ilias Eleftherohorinos Prof. Urania Menkissoglu Prof. Athanasios Tsaftaris Prof. Zisis Vryzas

University of Patras -Patra

Prof. Eirini Karanastasi

University of Thessaly (UTH)-Volos

Prof. Nikos Papadopoulos Prof. Christos Athanassiou Prof. Evangelos Vellios

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Prof. Christos Zamioudis Prof. George Broufas

XX International

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Local Organizing and Scientific Committee

Mediterranean University of Crete, Heraklion

Prof. Dimitris Goumas Prof. Emmanouil Roditakis Prof. Anastasia Tampakaki

Hellenic Agricultural Organiszation ELGO-DIMITRA

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Benaki Phytopathological Institute, Athens, Greece

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Crop Protection Section Greek Ministry of Agricultural Development and Food

Dr. A. Mauridou Mr. K. Simoglou Dr. D. Stauridis Mr. A. Paraskeuopoulos

Hellenic Crop Protection Association - ESYF

Mrs. Frantseska Ydraiou, Athens Greece

Greek S Scientists outside Greece

Vardis Ntoukakis Prof. Dr. Themis Michailidis Kearny CA USA

Prof. Nicolas Panopoulos Dr. Thomae Kakouli-Duarte

Forest Pathologist

Dr. Panagiotis Tsopelas

West Attica University

Prof. Danai Gkizi



KEYNOTE SPEAKERS







The effect of climate change on plant protection Monday, 1 July | 20.00-20.30

Dan Bebber obtained his PhD in Tropical Ecology at the University of Oxford, studying the effect of El Nino-related drought and insect herbivores on tree regeneration in Sabah, Malaysia. He then moved to the Faculty of Forestry, University of Toronto to take up a postdoctoral position in forest regeneration in Ontario, followed by a research into the role of fungi in forest nutrient dynamics at the Department of Plant Sciences, University of Oxford. In 2007 he joined the environmental NGO Earthwatch, based in Oxford, as Head of Climate Change Research, managing an international citizen science research programme into forest carbon dynamics. He joined Exeter in 2013, studying the global distributions of crop pests and pathogens and the impacts of climate change on crop production. He is particularly interested in abiotic and biotic threats to tropical crops like coffee and banana, and works closely with the organization CABI on pest and pathogen impacts. He is currently Chair of the British Mycological Society's Fungal Biology Research Committee, and co-Technical Director of CABI's Global Burden of Crop Loss initiative.





Prof. Eleftherios C Tjamos, Greece

Phytiatry as a distinct University science, for the benefit of global agriculture and forestry

Monday, 1 July | 20.30-21.00

Prof. Eris Tjamos: Chairman of the IPPCATHENS 2024 is the founder of the Hellenic Society of Phytiatry. As for his involvement with IAPPS Prof. Eris Tjamos was an invited speaker in the Washington International Plant Protection Congress in 1979. He was also an invited speaker at the Jerusalem in International Plant Protection Congress 1999, speaker in the Berlin International Plant Protection Congress in 2015, and keynote plenary speaker in the Hyderabad, India XIX IPPC 2019. Prof. Eris Tjamos started his scientific carrier as plant pathologist at the Benaki Phytopathological Institute of Athens, Greece, where he obtained a vast experience in plant disease and pest diagnosis and control. His main scientific career was continued at Imperial College of Science and Technology, London, UK for his Ph.D. studying mechanisms of resistance of tomatoes to Verticillium albo-atrum. He worked as Post Doctoral fellow in Lexington. KY, USA on the role of unsaturated fatty acids in the resistance of potatoes to Phytophthora infestans and also studying modes of triggering immunization phenomena in plants (paper in Science). He was elected Professor in Plant Pathology at the Agricultural University of Athens in 1987. He worked as visiting Professor at Beltsville Maryland, USA on biological control agents against Verticillium dahliae. and studied and applied commercially 7. soil solarization and soil disinfestation in Greece. In Agricultural University of Athens, he founded one of the world's recognized laboratories for studying Verticillium wilt from all applied, biological, biochemical and molecular aspects. Promoted the research on biological control of plant diseases and started working on the control on mycotoxigenic fungi in Greece. He is member of the American 1989. Phytopathological Society since member of the International Association for the Plant Protection Societies. He was President of the Mediterranean Phytopathological Union, President of the Hellenic Phytopathological

Society and the founder and current president of the Hellenic Society of Phytiatry. Prof. Tiamos has published over 100 research papers in Science, Phytopathology, Plant Disease, Journal of Phytopathology, Canadian Journal of Plant Pathology, EPPO Bulletin, Journal of Plant Pathology, European Journal of Plant Pathology, Biological Control, Physiological Plant Pathology, Plant Pathology, Plant Disease Reporter, Crop Protection, Phytoparasitica, Phytopatologia Mediterranea and Acta Horticulturae. Prof. Tjamos and his colleagues have a long-standing experience in organizing and successfully running International Scientific Congresses of high standards such as:

- 1. NATO ASI on Active Defense Mechanisms in Plants 1980, CAPE SOUNION, GREECE (RKS Wood &Tjamos)
- 2. NATO ARW on Vascular Wilt Diseases 1988, CAPE SOUNION GREECE (Tjamos & Beckman)
- 3. NATO ARW on Biological Control of Plant Diseases-Progress and Challenges for the Future 1991, CAPE SOUNION, GREECE (Tjamos, Papavizas and Cook)
- 4. 7th International Verticillium Symposium 1997, ATHENS, GREECE
- 5. Induced Systemic Resistance in Plants 2000, CORFU ISLAND, GREECE (Tjamos, Kuc, Kloepper, Metraux, Hammersmith and Van Loon) (300 participants)
- 6. International congress on Soil and substrate disinfection 2004 (ISHS-Tjamos & Katan) CORFU ISLAND, GREECE
- Mediterranean Plant Pathology Congress 2006, RHODES ISLAND, GREECE (400 participants)
- 8. GREMPA meeting 2008, ATHENS, GREECE
- 10th International Verticillium Symposium 2009, CORFU ISLAND, GREECE (E. Tjamos, Paplomatas, Tsitsigiannis, Antoniou, S. Tjamos
- 10. Molecular Plant Microbe Interaction Congress 2014, RHODES ISLAND, GREECE Tjamos and MPMI (1,500 participants).
- 11. IX International Symposium on soil and substrate disinfestation 2018, HERAKLION CRETE ISLAND, GREECE (ISHS-Tjamos & Paplomatas).
- 12. XX International Plant Protection Congress 2024. Athens Greece







Geoff Norton , Australia

Strategies for developing and implementing digital identification tools Tuesday, 2 July | 15.00-15.30

Geoff Norton is currently Adjunct Professor at The University of Queensland (UQ), Brisbane as well as a Director of the software development company - Identic Pty. Ltd., a spin-off company involving staff initially based at UQ. Previously Geoff was Director of the Centre for Pest Management, Imperial College, University of London (1984 - 1992); Director of the Cooperative Research Centre for Tropical Pest Management, CSIRO, Australia (1992 -98); and Director of the Centre for Biological Information Technology at UQ (1998 - 2012).

The overall theme of Geoff's research over almost 50 years has been at the interface of socio-economics and ecology. This lead to the development and worldwide application of systems analysis, stakeholder involvement processes, and the development of decision support tools for addressing specific resource management problems, especially decisions involving crop protection issues.

Geoff has published over 100 journal articles, books and book chapters in this field and is currently President of the International Association for the Plant Protection Sciences (IAPPS) **Plant Protection Congress** Healthy Plants Support Human Welfare



Keynote Speakers





Dr. Victor Carrion, Spain

Enabling sustainable agriculture through understanding and enhancement of microbiomes Tuesday, 2 July | 15.30-16.00

Víctor Carrión studied Biology and did his MSc and PhD at the University of Málaga (Spain). During his PhD he used molecular microbiology techniques to characterize virulence factors in Pseudomonas syringae, under the supervision of Prof. Antonio de Vicente and Prof. Francisco M. Cazorla. In October 2012 he joined the group of Prof. Jos M. Raaijmakers, at the Wageningen university and later at the Netherlands Institute of Ecology, in Wageningen (The Netherlands), where he studied how the endophytic microbiome can protect plants against fungal diseases. In 2018 he became Assistant Professor and started his group of Metagenomics and Plant-Microbe Interactions at Leiden University. His research program focuses on understanding the underlying mechanisms of plant protection against (a)biotic stresses mediated by microorganisms, and the use of bioinformatic tools for the prediction of bacterial lifestyles. In September 2022 he took up his position as a Ramon y Cajal researcher at the Microbiology department in the University of Málaga.





Prof. Arie Tsutomu , Japan

Impact and control of transboundary/invasive banana wilt pathogen, Fusarium oxysporum f. sp. cubense Tuesday, 2 July | 16.00-16.30

Tsutomu Arie got his Ph. D. in 1989 in Plant Pathology at the University of Tokyo in 'Studies on soilborne vegetable and flower diseases and biological control of tomato wilt disease caused by Fusarium oxysporum'. He moved to the RIKEN Institute as a senior researcher (till 2000) and studied 'Detection and molecular mechanisms of pathogenicity in soilborne plant pathogens'. During the period (1995-1996) he stayed in Cornell University, USA as a visiting scientist and worked on 'Molecular mechanisms of mating in ascomycete fungi'. Then he was employed by Tokyo University of Agriculture and Technology (TUAT) where he is studying 'Molecular and genomic analyses on pathogenicity of F. oxysporum' and 'Development of environment-safe methods to control soilborne Fusarium diseases' as an associate professor (2000-2010) and professor (2010-present), and now he is engaged as the Trustee for Governance, Vice-President, Chief Operating/Academic Officer (2020-present). He served Regional Coordinator, Region X (Northeast Asia), International Association for the Plant Protection Science (IAPPS; 2016-present), President of Fungal Molecular Biology Society of Japan (FMBSJ; 2019-2021) and President of The Phytopathological Society of Japan (PSJ; 2020). He was awarded fellowships from PSJ for 'Phylogeny and pathogenecity mechanisms of soilborne Fusarium oxysporum' (2010) and from Pesticide Science Society of Japan for 'Fusarium diseases of cultivated plants, control, diagnosis, and molecular and genetic studies' (2019) and also awarded Japan Prize of Agricultural Science from Association of Japanese Agricultural Scientific Societies for 'Research on the molecular phylogeny and pathogenic differentiation mechanisms of soilborne Fusarium' (2024).







Prof. John Vontas, Greece

Molecular diagnostics for rational use of pesticides and resistance management of agricultural pests Wednesday, 3 July | 15.00-15.30

John Vontas (www.aua.gr/vontas) is Professor in the Agricultural University of Athens and the Director of the Institute of Molecular Biology and Biotechnology - Foundation for Research and Technology (www.imbb.forth.gr). His research focus on biotechnology based approaches for the control of disease vectors and agricultural pests, with emphasis on the molecular mechanisms by which insects develop resistance to insecticides and the identification of novel insecticide targets. He has published over 250 papers since 2000 (>20,000 citations, h=72) and gave a large number of invited talks worldwide. He was among highly cited researchers Clavirate in 2021 and 2022. He teaches in national and international postgraduate programs and has supervised >25 PhD students and many young researchers (post-doc), many of whom pursue careers in academia and industry. He is Associate/European Editor in Pesticide Biochemistry and Physiology and Editorial Board member in several journals in his field (IBMB etc). He has organized many international conferences. He is panel member in many funding organizations in Europe and worldwide. He has received many major grants from Industry and has coordinated large international European consortia in the field of plant protection, including the recent/current ones: SuperPests (www.superpsets.eu), NextGenBioPest (www.nextgenbiopest.eu), MicroBioPest (www.microbiopest.eu) and CypTox (www.cyptox.eu)





Dr. Sunday Ekesi, Kenya

Microbial pesticides: Discovery, piloting and scaling up in Africa Wednesday, 3 July | 15.30-16.00

Dr Sunday Ekesi is an entomologist, research for development scientist, and science leader with extensive knowledge and experience in sustainable agriculture (microbial control, biological control, habitat management/conservation, IPM, pesticide management), biodiversity and climate change. He has developed several biopesticides for use in IPM jointly with the private sector. In 2019 alone, these biopesticide products were applied on 132,994 ha of farmland by >53,198 farmers. This has benefitted 212,792 households and minimized the use of synthetic pesticides. Dr Ekesi has successfully developed preand postharvest management methods for fruit flies that meet the demands of domestic and quarantine-sensitive export markets. The programme has significantly improved the production of fruits and vegetables affected by fruit flies and increased net income, reaching >100 million beneficiary households across Africa. Most recently, Dr Ekesi has expanded his research activities to the use of insects as alternative sources of protein for food and feed and his R4D is informing policy decisions and leading to the development of standards for the use of insects as protein additives in animal feed and food in Africa. The standards have enabled >300 small, medium, and largescale feed producers to integrate insect-based protein into feed production. Dr Ekesi has published >270 peer reviewed articles in scientific journals and given over 150 presentations at scientific gatherings. He has trained >30 graduate students (PhD and MSc). He has won several awards including Distinguished Scientist Award (2021) of the Entomological Society of America, Curt Bergfors Foundation Food Planet Prize (part of the 2020 team of institutional programme recipient) and The World Academy of Sciences (TWAS) in Agricultural Sciences. He is a Fellow of the Entomological Society of America (FESA), Royal Entomological Society (FRES)-UK, African Academy of Sciences (FAAS) and TWAS. He is a member of the advisory board of several technical agencies and institutions including the 1890 Universities Center of Excellence for Global Feed Security and Defense University of Maryland Eastern Shore, USA.

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Keynote Speakers





Prof. Hailing Jin, USA

Cross-kingdom RNA trafficking between plants and fungal pathogens Wednesday, 3 July | 16.00-16.30

Dr. Hailing Jin is a Professor and the Cy Mouradick Endowed Chair in the Department of Microbiology & Plant Pathology, University of California Riverside, USA. Dr. Jin has been internationally recognized as a leader in the field of small RNAs and epigenetics in plantmicrobe interactions. Dr. Jin's lab has made several seminal discoveries in plant molecular biology and microbiology, including the discovery of cross-kingdom RNA interference (RNAi). She is one of the pioneers for spray induced gene silencing, using innovative RNA biology and nanotechnology for crop protection against fungal and bacterial pathogens. Dr. Jin has published total of 107 peer-reviewed papers with an H-index of 63 and an i10-index of 99. She is a highly cited researcher by Web of Science in 2019. Because of her great contribution to the field, she became an elected Senior Member of National Academy of Inventors (NAI), a Fellow of American Academy of Microbiology (AAM), a Fellow of American Association for the Advancement of Science (AAAS), and a CIFAR Fellow of Canadian Institute for Advanced Research.





Prof. Christian Borgemeister, Germany

Food security in Africa needs policy support for sustainable plant health management Thursday, 4 July | 15.00-15.30

Christian Borgemeister is a Director of the Center for Development Research (ZEF) (www. zef.de) and Professor for Ecology and Natural Resources Management at the University of Bonn, Germany. He was appointed in 2013 at ZEF, and from 2014 to 2022 also served as Managing Director of the Center. Prior he was the Director General of the International Centre of Insect Physiology (icipe - www.icipe.org), a Nairobi, Kenya headquartered pan-African R&D Centre. CB is a trained entomologist and has lived and worked for >20 years in West and East Africa, South East Asia and Latin America. He is a Fellow of the African Academy of Sciences, the Royal Entomological Society, the Entomological Society of America (ESA), Member of the Council of the International Congress of Entomology and from 2020-2023 was the Chairman of the Board of the International Institute of Tropical Agriculture (IITA www.iita.org). CB has been the recipient of the 2011 International Plant Protection Award of Distinction of the International Association for the Plant Protection Sciences (IAPPS), and the 2015 Distinguished Scientist Award of ESA's International Branch. He has authored and co-authored > 250 papers in peer-reviewed scientific journals, with > 9,500 citations and an hindex of 52, has co-authored a book on biological control in Africa, and has written > 10 chapters for different scientific books.

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Keynote Speakers





Virender Kumar, Philippines

Weed Management Challenges and Opportunities to Close Yield and Profitability Gaps in Smallholder Rice Production in Asia Wednesday, 3 July | 15.30-16.00

Virender is currently a Principal Scientist - Weed Science & Systems Agronomy, and Deputy Head of Sustainable Impact Platform at International Rice Research Institute (IRRI), Philippines. He also leads the 'Climate-Resilient Farming Systems' Research Unit of IRRI. Virender's R4D program has been centered around five thematic areas aimed at achieving sustainable intensification of rice-based systems and climate change adaptation and mitigation. These include: (1) Integrated weed management program for rice-based systems, (2) Direct-seeded rice (DSR) systems as a sustainable alternative to puddled transplanted rice, (3) sustainable intensification of rice-based cropping systems, (4) climate change adaptation and mitigation, and (5) Big data and analytics for data driven approach in decision making and targeting. Virender has published the results in more than 150 scientific communications, including >75 articles in peer-reviewed international journals. Number of the second se

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Keynote Speakers



Fazıl Düşünceli, FAO

Coordinated approach for transboundary plant pest and disease management Thursday, 4 July | 15.00-15.30

Fazil Dusunceli is an agriculture officer working for the Plant production and Protection Division of Food and Agriculture Organization of the United Nations. He obtained his BSc from the 19 May University (Turkiye) in agronomy and PhD from Reading University (UK) in plant protection.

He worked as a research scientist at the Research Institutes in Turkiye and coordinated numerous research projects and programmes at national scale until 2008, acting also as the Director of Field Crops Research Institute. He worked as an agricultural counsellor to represent the country at the UN agencies in Rome until 2011. Since then, He has been working as an agriculture officer in the Plant Production and Protection Division of FAO, developing and supporting projects on prevention and management of transboundary plant diseases in various regions.

He is currently located in the Central Asia Subregional Office of FAO in Ankara supporting design and implementation of projects in the field of plant production and protection. Recently He has been providing technical support for development and implementation of projects covering diverse areas such as land management, adaptation of agriculture to climate change, value chains, farmer field schools and plant disease prevention and management.



PROGRAM AT A GLANCE



XX International **Plant Protection Congress** Healthy Plants Support Human Welfare

Program at a Glance

Monday, 1 July

	ROOM MC3.2
14:00-18:00	IAPPS GB meeting
	FOYER MEGARON ATHENS INTERNATIONAL CONVENTION CENTER
16:00-20:00	Registration
	BANQUET
18:00 -20:00	Opening Ceremony - Welcome address
20:00-21:00	Opening Keynote Lectures
20:00-20:30	The effect of climate change on plant protection
20:30-21:00	Phytiatry as a distinct University science, for the benefit of global agriculture and forestry
21:00	Welcome Reception

	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
00 20 11 00	DARQULI	2	3	44	5
08:30-11:00	Unlocking the potential of microbiomes for sustainable agriculture	Novel concepts and approaches in managment of fruit flies (Diptera: Tephritidae)	Responses of plant genotypes to pathogens and development of novel techniques for improvement of crop resistance to diseases	Grapevine trunk diseases	Vascular wilts
11:00-11:30		Coff	ee Break - POSTER SESSIC	N	
11:30-14:00	6A	7A	8	4B	9
	Advances with biopesticides to meet plant protection challenges	Understanding pathogen-vector- host interactions in globally important pathosystems	Networking tools to manage transboundary pests	Grapevine trunk diseases	New advances and technologies for postharvest diseases control
14:00-15:00		Ligi	ht Lunch - POSTER SESSIO	N	
15:00-15:30	Plenary Lecture				
	Strategies for developing and implementing digital identification tools				
15:30-16:00	Plenary Lecture				
	Enabling sustainable agriculture through understanding and enhancement of microbiomes				
16:00-16:30	Plenary Lecture				
	Impact and control of transboundary/invasive banana wilt pathogen, Fusarium oxysporum f. sp. Cubense				



Program at a Glance

Tuesda	y, 2 July				
	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
16:30-17:00	Satellite Lecture				
	Effectiveness of Bait Sprays and Mass Trapping using Dacus Bait 100 for IPM of Bactrocera oleae: Field Results from Crete, Greece				
17:00-18:00	6B	7B	10A		
	Advances with biopesticides to meet plant protection challenges	Understanding pathogen-vector- host interactions in globally important pathosystems	Impact and control of transboundary/ invasive pests		
18:00-18:30		Coff	ee Break - POSTER SESSI	ON .	
18:30-21:00	11	70	10B	12	13
	Canker disease of fruit, nut and vine crops	Understanding pathogen-vector- host interactions in globally important pathosystems	Impact and control of transboundary/ invasive pests	Herbicide-Resistant Weeds - A Global Perspective	Incorporating indigenous knowledge into plant protection science

Wednes	sday, 3 July				
	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
08:30 - 11:00	14	15	16	17	18A
	Microbiomes and their role in plant pathology	Components of IRM programs in an IPM framework	Diseases in tree crops and forests	NLR guided strategies for durable disease resistance in crop plants	Fungicide resistance: diagnosis, risk assessment and management, Integrated pest management
11:00-11:30		Coff	fee Break - POSTER SES	SION	
11:30-14:00	19	20A	21	22	18B
	Plant Health research coordination: an international endeavor	Biopesticides and biofertilizers	Selected highlights in plant protection	Management of biological Invasions in a changing world	Fungicide resistance: diagnosis, risk assessment and management, Integrated pest management
14:00-15:00		Lig	ht Lunch - POSTER SESS	SION	
15:00-15:30	Plenary Lecture				
	Molecular diagnostics for rational use of pesticides and resistance management of agricultural pests				
15:30-16:00	Plenary Lecture				
	Microbial pesticides: Discovery, piloting and scaling up in Africa				
16:00-16:30	Plenary Lecture Cross-kingdom RNA trafficking between plants and fungal pathogens				

NK International Protection Congress

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Program at a Glance

	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
16:30-17:30	Satellite Symposium			,	
	BASF Axalion® active: redefining modern sustainable piercing® sucking insect control				
17:30-18:00		Cot	ffee Break - POSTER SES	SION	
18:00-20:50	23	20B	24	25	26
	Plant Health - Phytiatry	Biopesticides and biofertilizers	Emergent forest diseases in a	Emerging pests with relation plant biosecurity and food	Environmental fate, ecotoxicology, risk assessment, and

	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
08:30 - 11:00	27A	28	29A	30	1 14 th IVS
	Biological control of insect crop pests	Sustainable mycotoxin management in a climate change future	Improving resistance - key to meet future challenges - Plant Breeding	Microbial interactions in ecosystems: negative or positive consequences on plant health	Recent Advances in Verticillium Biology through Genomics
11:00-11:30		Coff	ee Break - POSTER SES	SION	
11:30-14:00	27B	31	29B	32	2 14 th IVS
	Biological control of insect crop pests	Tropical Pest Management - Challenges in the Post-Covid World	Improving resistance - key to meet future challenges - Plant Breeding	Eco-epidemiological and pathobiome perspectives on diseases caused by mycotoxigenic fungi	Recent Advances in Verticillium wilt Management
14:00-15:00		Ligi	ht Lunch - POSTER SESS	ION	
15:00-15:30	Plenary Lecture				
	Food security in Africa needs policy support for sustainable plant health management				
15:30-16:00	Plenary Lecture				
	Weed Management Challenges and Opportunities to Close Yield and Profitability Gaps in Smallholder Rice Production in Asia				
16:00-16:30	Plenary Lecture				
	Coordinated approach for transboundary plant pest and disease management				



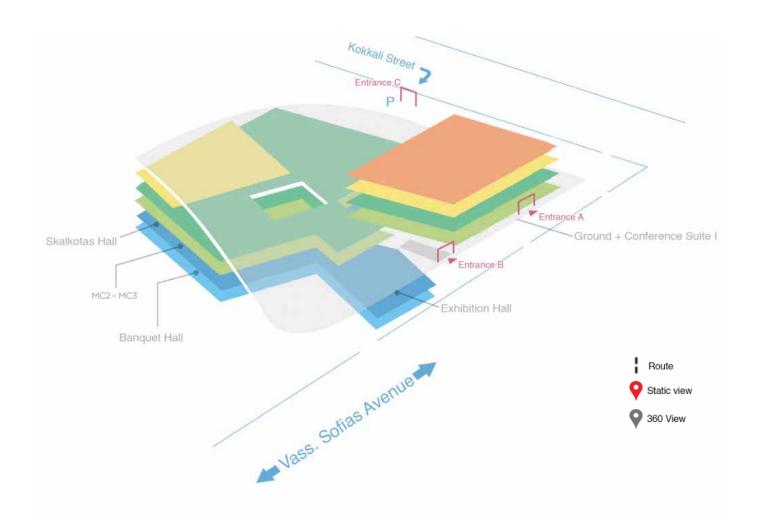
Program at a Glance

Thursd	ay, 4 July				
	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
16:30-17:00	Satellite Lecture				
	How Biologicals can support the transition to Regenerative Agriculture systems syngenta				
17:00-17:30	Satellite Lecture				
	Reklemel active: a novel tool for integrated nematode management - key learnings from a global nematicide development project				
17:30-18:00		Coff	fee Break - POSTER SES	SION	
18:00-20:30	33	34	35	36	3 14 th IVS
	Unveiling Nature's Arsenal: The Role of Volatile Compounds in Plant Protection	Advances in biosecurity measures for emerging and invasive pests	Chemical ecology and biological control	Challenges in sustainable plant disease management in a changing climate	Recent Advances in Verticillium - plant interaction

Friday,	5 July				
	BANQUET	SKALKOTAS	MC2	MC3	CONFERENCE I
08:30 - 11:00	37A	38	39	40A	4 14 th IVS
	Recent advances in plant virology	Precision agriculture and remote sensing for future plant disease management	Prevention and sustainable management of transboundary plant pests	Recent advances in vegetable IPM	Biological Control of Verticillium wilt pathogens
11:00-11:30		Coff	ee Break - POSTER SESS	SION	
11:30-14:00	37B	41	42	40B	43
	Recent advances in plant virology	Advances in nematode research and plant protection	Biological plant protection	Recent advances in vegetable IPM	Approach to integrated soil and plant health assessments in IPM systems
14:00-15:00		Ligt	nt Lunch - POSTER SESS	ION	
15:00-17:30	44		45	46	47
	Plant protection products		Xylella fastidiosa	Post-harvest pest and disease management	Molecular Plant Microbe Interactions
17:30-18:00		Coff	ee Break - POSTER SESS	SION	
18:00-20:30	48	49	50	51	52
	Phytoplasmas and Viroids in world agriculture	Endophytes as bioinsecticides	-	Interactions between Plant Protection and Pollinators	Frost damage mitigation strategies for crops, organized by project LIFE-FROSTDEFEND

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Venue





SCIENTIFIC PROGRAM



10.00-14.00 Optional excursion to Acropolis Museum and Acropolis

ROOM MC3.2

14.00-18.00 IAPPS GB meeting

FOYER MEGARON ATHENS INTERNATIONAL CONVENTION CENTER

16.00-20.00 Registration

BANQUET

18.00-20.00 Opening ceremony Welcome address

20.00-21.00 Opening keynote lectures

Chair: Elvis "Short" Heinrichs (IAPPS Secretary General, USA) Epaminondas Paplomatas (Agricultural University of Athens, Greece)

- 20.00-20.30 K01 The effect of climate change on plant protection Dan Bebber (University of Oxford, UK)
- 20.30-21.00 K02 Phytiatry as a distinct University science, for the benefit of global agriculture and forestry Eleftherios C Tjamos (Hellenic Society of Phytiatry, Greece)

21.00 Welcome reception

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Scientific Program **Tuesday, 2 July**

BANQUET

08.30-11.00	Concurrent Session Unlocking the Potential of Microbiomes for Sustainable Agriculture Chair: Altier Nora (Instituto Nacional de Investigación Agropecuaria, INIA Las Brujas, Uruguay)
	Eduardo Abreo (Inia Uruguay) Linda Kinkel (University of Minnesota, USA)
08.30-08.45	SEO1 CO1 Unlocking the secrets of plant microbiomes. Víctor Carrión (IHSM-UMA-CSIC, Universidad De Málaga, Spain)
08.45-09.00	SEO1 CO2 Examining the Microbiome through the lens of the one health concept. Gabriele Berg (Environmental Biotechnology, Graz University of Technology, Austria)
09.00-09.15	SEO1 CO3 What determines the functional capacities of endophytic and soil microbiomes? Linda Kinkel (University of Minnesota, USA)
09.15-09.30	SEO1 CO4 Managing soil and root-associated microbiomes in agroecosystems. Doreen Babin (<i>Julius Kühn Institute, Germany</i>)
09.30-09.45	SEO1 CO5 Microbiomes in agricultural settings: invisible partners revealed. Eduardo Abreo (Inia Uruguay)
09.45-10.00	 SE01 001 Variable effect of microbiome manipulation in the southern green stink bug Nezara viridula and its implications for the symbiotic control. Sofia Victoria Prieto (Department of Agricultural, Forest and Food Sciences, University of Turin, Italy)
10.00-10.15	SE01 002 "Cry for Help" upon pathogen attack across the Brassicaceae family. Melissa Uribe Acosta (<i>Department of Biology</i> , Utrecht University, The Netherlands)
10.15-10.30	SEO1 003 Continental screening of the biocontrol yeast <i>Aureobasidium pullulans</i> across Europe: the case for local adaptation and mining. Nataliia Khomutovska (Swedish University of Agricultural Sciences, Sweden)
10.30-10.40	SE01 C06 Final considerations: how do microbiomes contribute to the plant protection sciences and the concept of one health? Altier Nora (Instituto Nacional de Investigación Agropecuaria, INIA Las Brujas, Uruguay)

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Scientific Program **Tuesday, 2 July**

SKALKOTAS

08.30-11.00	Concurrent Session Novel Concepts and Approaches in Managment of Fruit Flies (Diptera: Tephritidae) Chair: Nikos Papadopoulos (University of Thessaly, Greece) Souleymane Nacro (INERA, France)
08.30-08.45	SE02 C01 Introduction to management of fruit flies. Nikos Papadopoulos (University of Thessaly, Greece) and Souleymane Nacro (INERA, France)
08.45-09.00	SE02 CO2 Enhanced SIT to eradicate and contain small outbreaks of fruit flies. Antonios Avgoustinos (<i>ELGO Demeter, Greece</i>)
09.00-09.15	SE02 C03 Novel concepts in Sterile Insect Technique. Marc Schetelig (<i>JLu Giessen, Germany</i>)
09.15-09.30	SE02 C04 Effectiveness of four integrated pest management approaches in the control of fruit flies (Diptera: Tephritidae) in mango agro-ecosystems in the South-Sudanian zone of Burkina Faso. Souleymane Nacro (<i>INERA, France</i>)
09.30-09.45	SE02 C05 <i>Ceratitis capitata</i> (Diptera: Tephritidae) invasion success: insights into cold tolerance and overwintering capacity in novel environments. Georgia Papadogiorgou (University of Thessaly, Greece)
09.45-10.00	SE02 C06 A novel methodological approach to detect low-density populations of the Mediterranean fruit fly to support efficient eradication and containment approaches. Elma Bali (University of Thessaly, Greece)
10.00-10.15	SEO2 CO7 The fallacy of the classic IPM paradigm in managing fruit flies of tropical origin. Slawomir Lux (<i>Insilico-IPM</i> , <i>UK</i>)
10.15-10.30	 SE02 001 Dual tephritid fruit fly automated monitoring system for establishing pest free production for the green house tomato. Ming Yi Chou (Agricultural Extension Center, National Chung Hsing University, Taiwan)
10.30-10.45	SE02 002 Use of the pestonfarm model for the management of <i>Ceratitis capitata</i> (Diptera: Tephritidae) populations. Marco Colacci (Agriculture, Environmental and Food Sciences, University of Molise, Italy)

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Scientific Program **Tuesday, 2 July**

MC2	
08.30-11.00	Concurrent Session Responses of Plant Genotypes to Pathogens and Development of Novel Techniques for Improvement of Crop Resistance to Diseases Chair: Shuxian Li (Crop Genetics Research Unit, USDA, ARS, USA)
08.30-08.40	SE03 C01 An overview of research on exploring responses of plants to pathogens and the development of novel techniques for improvement of crop resistance to diseases. Shuxian Li (<i>Crop Genetics Research Unit, USDA, ARS, USA</i>)
08.40-08.55	 SE03 C02 The discovery of tandem kinase R-genes: origin, function, and potential in resistance breeding. Tzion Fahima (Department of Evolutionary and Environmental Biology, University of Haifa, Israel)
08.55-09.10	SE03 C03 The potential of plant breeding innovation for improving biotic stress resistance in agricultural crops and vegetables. Petra Jorasch (<i>Euroseeds, Belgium</i>)
09.10-09.25	SE03 C04 Development of high-throughput genotyping assays for genetic mapping of resistant genes and accelerating soybean and common bean breeding for biotic stresses. Qijian Song (<i>USDA-ARS, USA</i>)
09.25-09.40	SE03 C05 CRISPR / Cas9-assisted genome engineering for disease resistance. Maeli Melotto (Department of Plant Science, University of California, Davis, USA)
09.40-09.55	SE03 C06 Strategies using gene silencing and CRISPR tools in tomato to understand and improve plant defense against viroids. Rosemarie W. Hammond (<i>ARS NEA Molecular Plant Pathology Laboratory, United States</i> <i>Department of Agriculture (USDA) - USA</i>)
10.00-10.15	SE03 C07 Combating Rice Tungro-complex disease in Asia Gilda Jonson (IRRI,Philippines)
10.15-10.25	SE03 001 In silico prediction of plant NLR- and pathogen effector interactions provides a targeted approach for functional characterization. Alicia Fick (University of Pretoria, South Africa)
10.25-10.35	 SE03 002 In silico characterisation of the Wak/WakI gene family in avocado and implication in defense against <i>Phytophthora cinnamomi</i>. Aaron Harvey (Universit of Pretoria, BGM, Fabi, Han Merensky Chair in Avocado Research, South Africa)
10.35-10.45	SE03 003 Molecular basis of constitutive defense mechanisms underlying resistance to <i>Verticillium dahliae</i> in the AC18 clone of wild olive. Javier Fransesco Molina-Hidalgo (Biochemistry and Molecular Biology, Universidad de Córdoba, Spain)
10.45-11.00	Discussion

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Scientific Program **Tuesday, 2 July**

MC3

08.30-11.00	Concurrent Session (A) Grapevine Trunk Diseases
	Chair: Epaminondas Paplomatas (Agricultural University of Athens, Greece) Laura Mugnai (Dagri, University of Florence, Italy)
08.30-08.50	SE04 C01 Recent advances in the management of grapevine trunk diseases. David Gramaje (Instituto de Ciencias de la Vid Y Del Vino (ICVV), Universita de la Rioja, Gobierno de la Rioja, Logrõno, Spain)
08.50-09.10	 SE04 C02 Grapevine trunk diseases affecting table grape: current knowledge and future perspectives in Italy. Dalia Aiello (Department of Department of Agriculture, Food and Environment, University of Catania, Italy)
09.10-09.30	SE04 C03 Current etiology of Aspergillus vine canker and sour rot of table grapes in California. Akif Eskalen (University of California, Davis, USA)
09.30-09.50	SE04 C04 Strategies for the development of a new formulation friendly for the environment and preliminary results from greenhouse to vineyard. Florence Fontaine (Université de Reims Champagne Ardenne, France)
09.50-10.10	SE04 C05 Antifungal effects of CU based nanocomposites against fungal trunk pathogens. Aleš Eichmeier (<i>Mendeleum - Intitute of Gentics, Mendel University in Brno, Czech Republic</i>)
10.10-10.30	SE04 C06 The oomycete biocontrol agent, <i>Pythium oligandrum</i> : root colonization in vineyards worldwide and control of grapevine trunk diseases. Lisa Chaboussie (<i>E2S UPPA, CNRS, IPREM, Universite de Pau et des Pays de l'Adour Pau,</i> <i>France</i>)
10.30-10.45	SE04 C07 The status of grapevine trunk diseases in Cyprus: etiology and disease management efforts. Loukas Kanetis (Cyprus University of Technology)

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Scientific Program **Tuesday, 2 July**

CONFERENCE I

08.30-11.00	Concurrent Session 5 Vascular Wilts
	Chair: Vardis Ntoukakis (School of Life Sciences, University of Warwick, UK) Marc Valls Matheu (Universitat de Barcelona, Spain)
08.30-08.50	 SE05 C01 Analysing the bacterial wilt disease: bacterial survival strategies and plant structural defences. Marc Valls Matheu (Universitat de Barcelona, Spain)
08.50-09.10	 SE05 C02 Epigenetics in biological control of vascular wilts: the case of <i>Bacillus velezensis</i> K165 against <i>Verticillium dahliae</i>. Sotiris Tjamos (<i>Agricultural University of Athens, Greece</i>)
09.10-09.30	SE05 C03 SNC1 guards TOPLESS family members that encode susceptibility genes for Fusarium wilt in tomato and Arabidopsis. Frank Takken (Molecular Plant Pathology, University of Amsterdam, The Netherlands)
09.30-09.50	SE05 C04 The role of myst histone acetyltransferases in plant immunity. Vardis Ntoukakis (School of Life Sciences, University of Warwick, UK)
09.50-10.00	 SE05 001 Biocontrol agents mitigate maize late wilt: enhancing crop resilience for food security. Diana Matos (University Of Aveiro, Portugal)
10.00-10.10	SE05 002 The role of ATP-dependent chromatin remodelling complexes in regulation of plant immunity against fusarium oxysporum . Litsa Ampntelnour (School of Life Sciences, University of Warwick, UK)
10.10-10.20	SE05 008 Dissecting into the effect of starch metabolism on <i>Arabidopsis thaliana</i> defense against the vascular wilt pathogen <i>Fusarium oxysporum</i> . Eleni Kalogeropoulou (<i>Benaki Phytopathological Institute, Greece</i>)

11.00-11.30 Coffee Break - POSTER SESSION

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Scientific Program **Tuesday, 2 July**

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	SEOG CO1 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	SEOG CO2 Leveraging the power of two bacterial symbionts in plant protection: <i>Photorhabdus</i> and <i>Xenorhabdus</i> . Selcuk Hazir (<i>Biology, Aydin Adnan Menderes University, Turkey</i>)
12.00-12.15	SEO6 CO3 Advances and challenges in biopesticide production - a producer perspective. Arne Peters (<i>e-nema GmbH, Germany</i>)
12.15-12.30	SEOG CO4 Multifunctionality in the entomopathogenic endophytic fungi <i>Metarhizium</i> spp. Federico Rivas (Bioinputs, National Institute for Agricultural Research, Uruguay)
12.30-12.40	SEOG 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	SEO6 003 New promising "biofungicides" targeting the fungal cell wall to control the cucurbit powdery mildew <i>Podosphaera xanthii</i> . 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	SEOG 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	SEO6 007 Methylobacterium-induced plant bleaching: analyzing molecular mechanisms towards the establishment of R&D basis for microbial herbicides. Masataka Izumi (<i>Tokyo University of Agriculture and Technology, Japan</i>)
13.40-13.50	SE06 008 Evaluation of rhizobacteria and biogenic silver nanoparticles for the management of <i>Pseudomonas syringae</i> pv. <i>syringae</i> causing bacterial canker on plum. Raees Ahmed (University of Poonch Rawalakot, Pakistan)

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Scientific Program **Tuesday, 2 July**

SKALKOTAS

11.30-14.00	Concurrent Session 7A
	Understanding Pathogen-Vector-Host Interactions in Globally Important Pathosystems
	Chair: Shaonpius Mondal (University of Nebraska - Lincoln, USA) Elizabeth Jeannette Cieniewicz (Clemson University, USA)
11.30-11.55	SE07 C01 Understanding wheat curl mite transmitted viruses and their co-infection dynamics in wheat. Shaonpius Mondal (University of Nebraska - Lincoln, USA)
11.55-12.20	SE07 CO2 Exploring the role of pollinators and thrips in spreading pollen-borne viruses in fruit crops in the southeast U.S. Elizabeth Cieniewich (<i>Clemson University, USA</i>)
12.20-12.40	 SE07 C03 Impact of double virus infections on the yield of melon plants subjected to water stress. Alberto Fereres (Department of Crop Protection-CSIC, Spain)
12.40-13.00	SE07 G04 Molecular mechanisms underlying transmission of Liberibacter by psyllids. Murad Ghanim (<i>Entomology, Volcani Institute, Israel</i>)
13.00-13.20	\$E07 C05 Biological, epidemiological, and environmental factors drive the prevalence and dominance of whitefly-transmitted viruses in cucurbits. William Wintermantel (<i>Virology, USDA-ARS, USA</i>)
13.20-13.40	SE07 C06 Seasonal spread of cotton leafroll dwarf virus by the cotton aphid in the United States.

Alana Jacobson (Entomology and Plant Pathology, Auburn University, USA)

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Scientific Program **Tuesday, 2 July**

MC2

11.30-14.00	Concurrent Session 8 Networking Tools to Manage Transboundary Pests
	Chair: Daren Mueller (Iowa State University, USA) Laura lles (North Central Integrated Pest Management Center, USA)
11.30-11.50	SEO8 CO1 Enhancing crop protection: the collaborative impact of the Crop Protection Network (CPN). Daren Mueller (<i>Iowa State University, USA</i>)
11.50-12.10	SEO8 CO2 Networking for effective integrated pest management: spotlight on working groups and pest management strategic plans in the regional IPM centers. Lynnae Jess (<i>North Central IPM Center, USA</i>)
12.10-12.25	SEO8 CO3 Youtube transforms IPM education: from insights to action. Brandon Kleinke (<i>lowa State University, USA</i>)
12.25-12.40	SEO8 CD4 Integrated weed management with grow: getting rid of weeds. Michael Flessner (School of Plant and Environmental Sciences, Virginia Tech, USA)
12.40-12.55	SEO8 CO5 Developing tools to empower stakeholders for effective pest management: the US national predictive modeling tool initiative Kaitlyn M. Bissonnette (<i>Cotton Incorporated, USA</i>)
12.55-13.10	SEOB CO6 Networking tactical sciences in the United States to enhance plant and animal biosecurity. Marty Draper (<i>Plant Pathology, Kansas State University, USA</i>)
13.10-13.25	SE08 C07 The national plant diagnostic network: transregional collaborations for plant protection in the United States. Zachary Schumm (<i>Plant Pathology, Entomology and Microbiology, Iowa State University, USA</i>)
13.25-13.40	SE08 C08 How a public-private partnership changed the management of a billion-dollar pest: The SCN coalition. Sam Markell (<i>Plant Pathology, North Dakota State University, USA</i>)

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Scientific Program **Tuesday, 2 July**

MC3

11.30-14.00	Concurrent Session 4B Grapevine Trunk Diseases
	Chair: Epaminondas Paplomatas (Agricultural University of Athens, Greece) Laura Mugnai (Dagri, University of Florence, Italy)
11.30-11.45	SE04 C08 An overview of grapevine trunk diseases and Fusarium root-basal rot in Turkish grapevine nurseries. Akgul Soner (<i>Plant Protection, Çukurova University, Turkey</i>)
11.45-12.00	SE04 C09 Understanding early responses to ESCA-pathogens of wood tissues: a way to open curtains on mechanisms of action of biocontrol agents. Jacques Alban (<i>PPGV - INP-PURPAN, France</i>)
12.00-12.20	SE04 001 Exploring Cytospora canker diversity in european grapevines: molecular and phylogenetic characterization Catarina Leal (Instituto de Ciencias de la Vid y del Vino, Spain)
12.20-12.40	SE04 002 Around the world in eight white rot species: understanding wood degradation in ESCA complex of diseases. Alessandro Puca (University of Florence (DAGRI) - University of Haute-Alsace (LVBE), Italy)
12.40-13.00	 SE04 003 Infection routes for pathogens causing grapevine trunk diseases in California nursery. Philippe Rolshausen (Botany and Plant Sciences, University of California, USA)
13.00-13.15	SE04 004 Identification and characterization of fungal species associated with grapevine trunk disease in South Tyrol (Northern Italy). Sanja Baric (<i>Free University of Bozen - Bolzano, Italy</i>)
13.15-13.30	SE04 005 Development of a biocontrol-based strategy for the management of <i>Phaeomoniella chlamydospora</i> in grapevine nurseries. Christos Tsoukas (<i>Agricultural University of Athens, Greece</i>)

Nt International Priation Courses

Scientific Program **Tuesday, 2 July**

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 (<i>Marche Polytechnc University, Italy</i>)
11.45-12.00	SE09 C02 Overview of Post Harvest disease management practices on apple: prevention, monitoring and control. Davide Spadaro (<i>Disafa, University of Turin, Italy</i>)
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 <i>Botrytis cinerea</i>. Alba López-Laguna (University of Málaga, Spain)

14.00-15.00 Light Lunch - POSTER SESSION

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Scientific Program **Tuesday, 2 July**

BANQUET Chair: Corne Pieterse (Plant-Microbe Interactions Group, Utrecht University, The Netherlands) Geoff Norton (University of Queensland, Australia) 15.00-15.30 Plenary Lecture K03 Strategies for developing and implementing digital identification tools Geoff Norton (University of Queensland, Australia) 15.30-16.00 Plenary Lecture K04 Enabling sustainable agriculture through understanding and enhancement of microbiomes Victor Carrion (University of Malaga, Spain) 16.00-16.30 Plenary Lecture K05 Impact and control of transboundary / invasive banana wilt pathogen, Fusarium oxysporum f. sp. cubense Arie Tsutomu (Tokyo University of Agriculture and Technology, Japan) 16.30-17.00 Satellite Lecture Effectiveness of bait sprays and mass trapping using dacus bait 100 for IPM of Bactrocera oleae: field results from Crete. Greece. Chair: Dimitroulia Kelly (Agricultural Journalist, Founder of Efori Gi) Speaker: George Pavlidis (A.U.TH. Agronomist, Sales Manager of EVYP LLP)



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Scientific Program **Tuesday, 2 July**

BANQUET

17.00-18.00	Concurrent Session (B) Advances with Biopesticides to meet Plant Protection Challenges Chair: Trevor Jackson (Agresearch, New Zealand) Laura Villamizar (Microbial Solutions, AgResearch Ltd., New Zealand)
17.00-17.10	SE06 009 Impacts of a-solanine and a-chaconine on key plant pathogens and beneficial organisms.Marilia Bueno Da Silva (Forschungszentrum Jülich Gmbh, Germany)
17.10-17.20	SEOG 010 Biopesticides as tools for green plant protection in main crops of Europe. Maira Lykogianni (Department of Pesticide Control and Phytopharmacy, Benaki Phytopathological Institute, Greece)
17.20-17.40	SE06 011 Control of potato late blight by exploiting the antimicrobial and biostimulant properties of exo-metabolites produced by <i>Trametes versicolor</i> . Rosita Silvana Fratini (<i>Sapienza University of Rome, Italy</i>)
17.40-17.50	 SE06 012 & Poly-L-Lysine, a food-approved preservative, mixed with cinnamaldehyde as a potential new agricultural bactericide. James Adaskaveg (Microbiology and Plant Pathology, University of California, USA)
17.50-18.00	SEOG 013 The dynamic changes in olive fruit phenolic metabolism and its contribution to the activation of quiescent <i>Colletotrichum</i> infection. Hristofor Miho (Universidad de Córdoba, Rabanales, Spain)
18.00-18.10	SEOG 014 Integrated management system for olive anthracnose. Anastasia Papageorgiou (<i>Agricultural University of Athens, Greece</i>)



Scientific Program **Tuesday, 2 July**

SKALKOTAS

17.00-18.00	Concurrent Session 7 Understanding Pathogen-Vector-Host Interactions in Globally Important Pathosystems Chair: Shaonpius Mondal (University of Nebraska - Lincoln, USA) Elizabeth Jeannette Cieniewicz (Clemson University, USA)
17.00-17.20	\$E07 C07 The molecular interplay between plant viruses and insect vectors. Anna Whitfield (Entomology and Plant Pathology, North Carolina State University, USA)
17.20-17.40	SE07 C08 Elucidating the etiology and epidemiology of pepper yellows disease. Varvara Maliogka (School of Agriculture, Aristotle University of Thessaloniki, Greece)

17.40-18.00 **SE07 C09** Exploring the SRBSDV-*Sogatella furcifera*-rice plant interactions for reduction of virus transmission. **Maolin Hou** (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China) NI International Protection Congress

Scientific Program **Tuesday, 2 July**

MC2

17.00-18.00	Concurrent Session Impact and Control of Transboundary / Invasive Pests Chair: Moriyama Hiromitsu (Tokyo University of Agriculture and Technology, Japan) Arie Tsutomu (Tokyo University of Agriculture and Technology, Japan)
17.00-17.15	SE10 C01 Potentialities of mycoviruses infecting lower eukaryotic organisms, plants and insects as biocontrol agents. Moriyama Hiromitsu (<i>Tokyo University of Agriculture and Technology, Japan</i>)
17.15-17.30	SE10 CO2 Challenges and prospects for control of citrus greening disease in Japan. Kazuki Fujiwara (Department of Agrobiological Resources, Faculty of Agriculture, Meijo University, Japan)
17.30-17.45	SE10 C03 Development of management techniques against sugarcane white leaf disease based on epidemiological research and computer simulation. Youichi Kobori (<i>Japan International Research Center for Agricultural Sciences, Japan</i>)
17.45-18.00	SE10 C04 Toward control invasive insect species by targeting nicotinic acetylcholine receptors.

18.00-18.30 Coffee Break - POSTER SESSION

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Scientific Program **Tuesday, 2 July**

BANQUET

18.30-21.00	Concurrent Session []] Canker Disease of Fruit, Nut and Vine Crops Chair: Themis Michailidis (UC Davis, USA)
18.30-18.50	SE11 CO1 Canker diseases of nut crops caused by <i>Botryosphaeriaceae</i> in California. Themis Michailidis (<i>UC Davis, USA</i>)
18.50-19.10	SE11 CO2 Epidemiology and management of fungal canker diseases of sweet cherry in California. Florent Trouillas (Plant Pathology - CAES, University of California, USA)
19.10-19.30	SE11 C03 Fungal pathogens causing trunk diseases in Northern Italy, species diversity and temperature interaction. Vladimiro Guarnaccia (University of Torino, Italy)
19.30-19.50	 SE11 C04 Fungal trunk and canker diseases of fruit, nut and vine crops in Spain: causes and solutions. Josep Armengol (Instituto Agroforestal Mediterráneo, Universitat Politècnica de València, Spain)
19.50-20.05	SE11 C05 Status of citrus canker disease in Sicily. Giorgio Gusella (Dipartimento di Agricoltura, Alimentazione e Ambiente, University of Catania, Italy)
20.05-20.20	SE11 CO6 From branch canker to "escudete" olive diseases caused by <i>Botryosphaeriaceae</i> . Maria Isabel Márquez Pérez (<i>Agronomy, University of Córdoba, Spain</i>)
20.20-20.35	SE11 C07 Canker diseases in olive and tree nuts in Southern Spain. Carlos Agusti Brisach (Universidad de Córdoba, Spain)
20.35-20.50	SE11 CO8 <i>Botryosphaeriaceae</i> dieback agents: understanding of their aggressiveness and recent advances in management. Elorence Fontaine (Université de Reims Champagne Ardenne, France)



SKALKOTAS

University, Russia)

18.30-21.00	Concurrent Session 7C
	Understanding Pathogen-Vector-Host Interactions in Globally Important Pathosystems
	Chair: Shaonpius Mondal (University of Nebraska - Lincoln, USA) Elizabeth Jeannette Cieniewicz (Clemson University, USA)
18.30-18.55	 SE07 001 Unlocking the secrets of rose rosette disease: decoding virus dynamics and vector competence in eriophyoid mites. Ioannis Tzanetakis (University of Arkansas System Division of Agriculture, USA)
18.55-19.15	SE07 002 Impact of low-susceptible wheat genotypes on the epidemiology of wheat dwarf disease by monitoring plant / virus / vector interactions. Thomas Armand (INRAE, France)
19.15-19.35	 SE07 003 Endoplasmic Reticulum (ER)- associated interactions of Liberibacter solanacearum with its carrot psyllid vector. Ola Jassar (Department of Agroecology and Plant Health, The Hebrew University of Jerusalem, Israel)
19.35-19.55	\$E07 004 Cereal virus diversity and epidemiology in South-Eastern Australia. Piotr Trebicki (<i>Macquarie University, Australia</i>)
19.55-20.15	SE07 005 Mode of action of oligonucleotide insecticides (DNA containment mechanism). Vol Oberemok (<i>Molecular Genetics And Biotechnologies, V.I. Vernadsky Crimean Federal</i>

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Scientific Program **Tuesday, 2 July**

MC2	
18.30-21.00	Concurrent Session IIIB Impact and Control of Transboundary / Invasive Pests Chair: Moriyama Hiromitsu (Tokyo University of Agriculture and Technology, Japan) Arie Tsutomu (Tokyo University of Agriculture and Technology, Japan)
18.30-18.45	SE10 C05 The role of weed seed contamination in grain commodities as propagule pressure. Yoshihiko Shimono (<i>Graduate School of Agriculture, Kyoto University, Japan</i>)
18.45-19.00	SE10 C06 Challenge to Fusarium wilt of banana and pod rot of cacao in the Philippines. Kyoko Watanabe (<i>Tamagawa University, Japan</i>)
19.00-19.15	SE10 C07 Diseases occurring in banana cultivation in Peru and their control. Liliana Maria Aragon (Institute of Agriculture, Universidad Nacional Agraria la Molina, Peru)
19.15-19.30	 SE10 C08 Important bacterial diseases on rice, vegetables and fruits in Southern Vietnam and their management. Nga Nguyen Thi Thu (Plant Protection, College of Agriculture, Can Tho University, Vietnam)
19.30-19.45	SE10 CO9 Sex pheromones: an effective tool for sustainable management of agricultural harmful pests in the Mekong Delta of Vietnam. Le Van Vang (College of Agriculture, Can Tho University, Vietnam)
19.45-19.55	SE10 C10 Status of banana and cacao industry in the Philippines. Dionisio Alvindia (Philippine Center for Postharvest Development and Mechanization, Department of Agriculture, Philippines)
19.55-20.05	 SE10 C11 A mycovirus induces systemic resistance in oilseed rape against Phoma stem canker. Loly Kotta-Loizou (School of Life and Medical Sciences / Faculty of Natural Sciences, University of Hertfordshire, UK)
20.05-20.15	 SE10 C12 Exploring allelochemicals in rice varieties for eco-friendly weed management: a metabolomics approach. Ho Le Thi (Plant Protection Faculty / College of Agricuture / Can Tho University, Vietnam)
20.1520.25	SE10 001 Establishment and application of EDNA-based molecular identification methods for three important fruit-boring moths. Lijun Li (China Agricultural University, China)
20.25-20.35	SE10 002 The effect of insecticide spray regimes on fall armyworm damage and maize grain yield.Michael Otim (National Agricultural Research Organization, Uganda)
20.35-20.45	SE10 003 The interplay between climate change and pesticide resistance: the case study of the two-spotted spider mite. Adi Kliot (<i>Volcani Institute Aro, Israel</i>)

Scientific Program **Tuesday, 2 July**

MC3

18.30-21.00	Concurrent Session 12 Global perspectives in herbicide-resistance and new integrated weed management approaches" Chair: Baruch Rubin (Hebrew University of Jerusalem, Israel) Ilias Travlos (Agricultural University of Athens, Greece)
18.30-18.50	SE12 CO1 Herbicide-resistant weeds: a challenge to the sustainability of agriculture. Baruch Rubin (<i>Hebrew University of Jerusalem, Israel</i>)
18.50-19.10	SE12 CO2 Herbicide resistance in Europe: current status, future trends and management. Vaya Kati (Benaki Phytopathological Institute, Greece)
19.10-19.30	SE12 CO3 The GOOD Project for Agroecological Weed Management: Concept and Living Labs in Greece. Ilias Travlos (<i>Agricultural University of Athens, Greece</i>)
19.30-19.50	SE12 CO4 Cultural practices for weed management in kenaf crop (<i>Hibiscus cannabinus</i> L.). Ioannis Gazoulis (<i>Agriculture University of Athens, Greece</i>)
19.50-20.10	SE12 C05 The potential of cover crop (CC) mixtures to suppress winter and summer weeds in citrus orchards. Ilias Travlos (<i>Agricultural University of Athens, Greece</i>)
20.10-20.30	SE12 CO6 Long-term studies on IWM effectiveness in maize. Milena Simic (<i>Maize Research Institute Zemun Polje, Serbia</i>)
20.30-20.45	SE12 001 Herbicidal control of weeds in maize hybrids in Northwest region of Pakistan. Rahamdad Khan (<i>Department of Agriculture, Bacha Khan University, Charsadda Pakistan</i>)
20.45-21.00	SE12 002 Luximo [®] : confirmation of fat as site of action and its impact on the control of resistant weeds in winter wheat. Johnen Philip (BASF SE, Germany)

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Scientific Program **Tuesday, 2 July**

CONFERENCE I

18.30-21.00	Concurrent Session Incorporating Indigenous Knowledge into Plant Protection Science Chair: Federico Tomasetto (Agresearch, New Zealand) Nick Roskruge (School of Agriculture and Environment, Massey University, New Zealand) Trevor Jackson (Agresearch, New Zealand)
18.30-18.55	SE13 CO1 A duopoly transdisciplinary approach between modern science and indigenous knowledge is a powerful tool for plant protection strategies. Federico Tomasetto (<i>Agresearch, New Zealand</i>)
18.55-19.20	SE13 CO2 Plant protection in the South Pacific. Nick Roskruge (School of Agriculture and Environment, Massey University, New Zealand)
19.20-19.40	SE13 CO3 Cultural characterisation through 'knowledge integration' as a tool in promoting, protecting, and conserving traditional crops in Aotearoa (New Zealand). Simon Apang Semese (<i>Bioprotection Aotearoa, Lincoln University, Canterbury, New Zealand</i>)
19.40-20.00	SE13 CD4 The Pacific response to invasion of the coconut rhinoceros beetle (CRB) (<i>Oryctes rhinoceros</i>) in the Western Pacific Islands. Trevor Jackson (<i>Aaresearch, New Zealand</i>)

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Scientific Program Wednesday, 3 July

BANQUET

08.30-11.00	Concurrent Session 1 Microbiomes and their Pole in Plant Pathology Chair: Corné Pieterse (Plant-Microbe Interactions Group, Utrecht University, The Netherlands) Ioannis Stringlis (Agricultural University of Athens, Greece)
08.30-08.50	SE14 C01 The root microbiome and plant health. Corné Pieterse (<i>Plant-Microbe Interactions Group, Utrecht University, The Netherlands</i>)
08.50-09.10	SE14 CO2 Plant-microbiome communication in the rhizosphere. Ioannis Stringlis (Agricultural University of Athens, Greece)
09.10-09.30	SE14 C03 The roles of fungal effectors in microbiota manipulation. Hanna Roeverich (University Of Cologne, Germany)
09.30-09.50	SE14 C04 Finding balance in the plant microbiome. Omri Finkel (<i>Plant and Environmental Sciences, The Hebrew University of Jerusalem, Israel</i>)
09.50-10.10	SE14 C05 Plant microbiomes: from molecular mechanisms to addressing phytopathological issues in agriculture. Kalliopi Papadopoulou (University of Thessaly, Greece)
10.10-10.20	SE14 C06 From suppressive compost to targeted inoculants: synthetic microbial communities promote tomato growth and disease control. Iakovos Pantelidis (Department of Agricultural Sciences, Biotechnology and Food Science, Cyprus University of Technology, Cyprus)
10.20-10.30	SE14 001 Interplay between Amaryllidaceae alkaloids, the bacteriome and phytopathogens of <i>Lycoris radiata</i> . Jiayu Zhou (<i>Institute of Botany, Jiangsu Province and Chinese Academy of Sciences, China</i>)
10.30-10.40	SE14 002 The soil bacterial community regulates germination of <i>Plasmodiophora brassicae</i> resting spores rather than root exudates. Andreas Von Tiedemann (<i>Plant Pathology and Crop Protection, University Goettingen, Germany</i>)
10.40-10.50	SE14 003 Deciphering the effects of agronomical practices on aspergillus incidence and carposphere's microbial communities of grapevine. Stefanos Testempasis (Aristotle University of Thessaloniki, Greece)
10.50-11.00	SE14 004 Microbiome signature of endophytes in wheat seed response to wheat dwarf bunt caused by <i>Tilletia controversa</i> Kühn.

Gao Li (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)



Scientific Program Wednesday, 3 July

SKALKOTAS

08.30-11.00	Concurrent Session 15 Components of IRM Programs in an IPM Framework Chair: Silvana Paula-Moraes (University of Florida, USA)
08.30-08.55	SE15 CO1 Beyond pest control: topics for the improvement of IPM and IRM of Lepidepteran pests associated with row crops. Silvana Paula-Moraes (University of Florida, USA)
08.55-09.20	SE15 CO2 Resistance evolution to BT maize in the Southern United States: the case of the ubiquitous <i>Helicoverpa zea</i> . Francis Peter Fortnum Reay-Jones (<i>Plant and Environmental Sciences, Clemson University, USA</i>)
09.20-09.40	SE15 CO3 Managing the changing lepidoptera maize pest complex in Africa: short- and long-term strategies. Johnnie Van Den Berg (North-West University, South Africa)
09.40-10.00	SE15 CO4 Extension as an IPM tool: the land grant university program and its role in pest management. Katelyn A. Kesheimer (<i>Bayer, USA</i>)
10.00-10.20	SE15 C05 Farmers' perspectives on information sources and IRM practices. Dominic Reisig (<i>North Carolina State University, USA</i>)
10.20-10.40	 SE15 C06 Supporting IPM/IRM for cost effective and environmentally acceptable practices in U.S. cotton production. Sally Taylor (Agricultural and Environmental Research, Cotton Incorporated, USA)

10.40-11.00 Discussion

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Scientific Program Wednesday, 3 July

MC2

08.30-11.00	Concurrent Session 16
	Diseases in Tree Crops and Forests Chair: Georgios Vidalakis (Microbiology & Plant Pathology, University of California Riverside, USA)
	Evangelos Vellios (University of Thessaly, Greece)
08.30-08.50	Citrus viroids: friends or foes? Georgios Vidalakis (Microbiology & Plant Pathology, University of California Riverside, USA)
08.50-09.10	SE16 001 Protecting vegetation against ozone pollution. Eugenios Agathokleous (School of Ecology and Applied Meteorology, Nanjing University of Information Science & Technology, China)
09.10-09.30	SE16 002 Mycoviruses infecting the red-band needle blight fungus of pine trees and conifers loly Kotta-Loizou (School of Life and Medical Sciences / Faculty of Natural Sciences, University of Hertfordshire, UK)
09.30-09.45	 SE16 003 From Xylella fastidiosa to Enterobacteriaceae: investigating new bacterial threats in southern Italy. Giambattista Carluccio (University of Salento, Italy)
09.45-10.00	SE16 004 Identification, pathogenicity and chemical control of Chrysoporthe stem canker disease of <i>Eucalyptus</i> spp in Malaysia. Annya Ambrose (Industrial Forest Research Centre, Restoration and Industrial Forest Division, Forest Department Sarawak, Malaysia / University Putra Malaysia)
10.00-10.15	SE16 005 Diverse organisms cause leaf and stem diseases in macadamia nursery plants. Jahangir Khan (The University of Queensland, Australia)
10.15-10.30	SE16 006 Effect of rainfall on the dispersal of spores of <i>Venturia oleaginea</i> , the causal agent of olive scab. Francisco Abel Guerrero Páez (<i>Agronomy, University of Córdoba, Spain</i>)
10.30-10.45	SE16 007 Molecular biology of <i>Phytophthora</i> in forest disease management. Jochem Vink (School Of Biological Sciences, Victoria University Of Wellington, New Zealand)
10.45-11.00	 SE16 008 Twig canker and shoot blight disease of almond: understanding the biology of Diaporthe amygdali. Carolina Francia (Instituto Agroforestal Mediterráneo, Universitat Politècnica de València, Spain)
11.00-11.15	SE16 009 Diversity and control of Phytophthora species associated with widespread dieback and mortality of wild olive trees in Sardinia, Italy. Antonio Deidda (Department of Agricultural Sciences University of Sassari, Italy)



Scientific Program Wednesday, 3 July

MC3	
08.30-11.00	Concurrent Session 17 NLR Guided Strategies for Durable Disease Resistance in Crop Plants Chair: Jiorgos Kourelis (Department of Life Sciences, Imperial College London, UK) Lida Derevnina (University of Cambridge, UK)
08.30-08.50	SE17 C01 Pikobodies: what does it take to bioengineer NLR immune receptor-nanobody fusions. Jiorgos Kourelis (Department of Life Sciences, Imperial College London, UK)
08.50-09.10	SE17 CO2 Cyst nematodes counteract immunity by inhibiting activation of central nodes of a Solanaceae immune receptor network. Lida Derevnina (University of Cambridge, UK)
09.10-09.30	SE17 CO3 Evolution in overdrive: NLR diversity generation and maintenance. Ksenia Krasileva (Plant And Microbial Biology, UC Berkeley, USA)
09.30-09.50	SE17 C04 Leveraging dangerous mix autoimmunity in plants to investigate host-microbe interactions. Eunyoung Chae (Biological Sciences, National University of Singapore, Singapore)
09.50-10.10	SE17 C05 NRG1C antagonizes NRG1A-mediated immunity by competitively binding to EDS1/SAG101. Junli Wang (<i>Plant Microbes Interactions, Max Planck Institute for Plant Breeding Research,</i> <i>Germany</i>)
10.10-10.30	SE17 C06 NLRseek: high-throughput discovery pipeline for functional resistance genes. Helen Brabham (<i>2Blades, UK</i>)
10.30-10.50	SE17 C07 Receptor structures at the plant-microbe interface for crop improvement. Alexander Foerderer (Root Biology and Symbiosis, Max-Planck-Institute of Molecular Plant Physiology, Germany)

Scientific Program Wednesday, 3 July

CONFERENCE I

08.30-11.00	Concurrent Session (BA) 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 <i>Exserohilum turcicum</i> , 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 CO1 Evolution of resistance in <i>Fusarium fujikuroi</i> to fungicides. Chuanging Zhang (<i>Zhejiang Agriculture and Forest University, China</i>)
09.10-09.30	SE18 002 Biological activity of difenoconazole against <i>Exserohilum turcicum</i> , the causal pathogen of northern leaf blight of maize and fungal baseline sensitivity. David Livingstone Nsibo (<i>Plant and Soil Sciences, University of Pretoria, South Africa</i>)
09.30-09.50	SE18 003 Metabolomics reveals insights into the pathogenicity and resistance of <i>Colletotrichum acutatum</i> species complex to fungicides. Sotirios Giannakaris (<i>Agricultural University of Athens, Greece</i>)
09.50-10.10	SE18 CO2 Fungicide sensitivity in <i>Pyrenophora teres</i> f. <i>teres</i> Estonian population. Andres Mäe (Department of Plant Protection, METK, Estonia)
10.10-10.30	SE18 CO3 Monitoring and molecular mechanisms of fungicide resistance of <i>Botrytis cinerea</i> strains isolated from strawberries in Korea. Hyunkyu Sang (Chonnam National University, South Korea)
10.30-10.50	SE18 CO4 Prevalence, mechanisms of resistance, and management of DMI and MBC fungicide resistance in <i>Monilinia fructicola</i> from Southeastern US peach orchards. Guido Schnabel (<i>Plant and Environmental Sciences, Clemson University, USA</i>)
10.50-11.10	SE18 C05 Selection for fenhexamid resistance in <i>Botrytis cinerea</i> relating to spray dosage, timing, and mixture. Mengjun Hu (<i>AGNR - Plant Science and Landscape Architecture (PSLA), University of Maryland College Park, USA</i>)

11.00-11.30 Coffee Break - POSTER SESSION



Scientific Program Wednesday, 3 July

BANQUET

11.30-14.00	Concurrent Session [] Plant Health Research Coordination: An International Endeavor Chair: Giovani Baldissera (Euphresco, France)
11.30-11.45	SE19 CO1 Plant health research coordination: an international endeavour. Giovani Baldissera (<i>Euphresco, France</i>)
11.45-12.00	SE19 CO2 Plant health research priorities for the Mediterranean region. Anna Maria D'Onghia (<i>Plant Protection, Ciheam Bari, Italy</i>)
12.00-12.15	SE19 CO3 Tools and structures for early warning and better prediction of risks. Monica Carvajal Yepes (International Center for Tropical Agriculture CIAT, Colombia)
12.15-12.25	SE19 CO4 In situ detection and identification of pests as an opportunity to link field and laboratory activities. Nicola La Porta (<i>Research and Innovation Centre, Fondazione Edmund Mach, Italy</i>)
12.25-12.40	SE19 C05 Modern tools and approaches to tackle pests in the Mediterranean crop production systems. Nikos Papadopoulos (University of Thessaly, Greece)
12.40-12.55	SE19 C06 How research can support policy-making: future perspectives. Mariangela Ciampitti (Plant Protection Service, Regione Lombardia, Italy)
12.55-13.10	SE19 C07 Future Challenges. Laura Mugnai (Dagri, University of Florence, Italy)
13.10-13.20	SE19 CO8 How to protect plant health in the next 20 years. Dimitris Tsitsigiannis (Agricultural University of Athens, Greece)
13.20-13.30	SE19 CO9 Research to address future challenges and to strengthen plant protection. Anna Maria D'Onghia (<i>Plant Protection, Ciheam Bari, Italy</i>)
13.30-13.40	SE19 C10 From research to reality: CPN bridges the gap in plant health solutions. Daren Mueller (<i>lowa State University, USA</i>)
13.40-13.50	SE19 C11 The role of the Arab society of plant protection in enhancing plant health research coordination in the Arab region. Safaa Kumari (ICARDA, Lebanon)
13.50-14.00	SE19 C12 International association for the plant protection sciences.

Geoff Norton (University of Queensland, Australia)



Scientific Program Wednesday, 3 July

SKALKOTAS

11.30-14.00	Concurrent Session 20A Biopesticides and Biofertilizers Chair: Sotiris Tjamos (Agricultural University of Athens, Greece)
11.30-11.50	SE20 CO1 Bacillus velezensis K165: a multitask biocontrol agent. Sotiris Tjamos (Agricultural University of Athens, Greece)
11.50-12.10	SE20 CO2 How to combine <i>Trichoderma</i> spp. with sustainable peat alternatives. Jane Debode (EV-ILVO Plant, Belgium)
12.10-12.30	SE20 C03 Microbe-microbe interactions in the rhizosphere influence biocontrol activity of <i>Lysobacter capsici</i> AZ78 by modulating its metabolome and transcriptome. Gerardo Puopolo (University of Trento, Italy)
12.30-12.50	SE20 C04 Tomato-beneficial fungus-biotic stressor interaction: untagling the complex network of molecular mechanisms by -omics studies. Silvia Proietti (University of Tuscia, Italy)
12.50-13.10	SE20 C05 Synergism between biorationals and strategic low doses of DMI fungicides against important fruit crop diseases. Guido Schnabel (<i>Plant and Environmental Sciences, Clemson University, USA</i>)
13.10-13.30	SE20 C06 Biologicals in modern agricultural practices. Stefan Tresch (<i>BASF SE, Germany</i>)
13.30-13.50	SE20 C07 Enhancing legume and vegetable growth and health: harnessing microbial biostimulants. Anastasia Tampakaki (Department of Agriculture, School of Agricultural Sciences, Hellenic

Mediterranean University, Greece)



Scientific Program Wednesday, 3 July

MC2

11.30-14.00	Concurrent Session 21 Selected Highlights in Plant Protection Chair: Maria Lodovica Gullino (Coltivato, Italy)
11.30-12.00	SE21 CO1 Advances in biological control. Monica Hofte (Plants And Crops, Ghent University, Belgium)
12.00-12.30	SE21 CO2 Advances in pest management or ecosystem services. Ramon Albajes (Agrotecnio University of Lleida, Spain)
12.30-13.00	SE21 CO3 Biosecurity issues, with special emphasis in the entomological sector. Mariangela Ciampitti (<i>Plant Protection Service, Regione Lombardia, Italy</i>)
13.00-13.30	SE21 CO4 Career on both sides of the atlantic: memoirs of a molecular plant pathologist. Nick Panopoulos (University of Crete , Greece)
13.30-14.00	SE21 C05 Effect of climate change on plant diseases and their management.

Maria Lodovica Gullino (Coltivato, Italy) and Massimo Pugliese (University of Torino, Italy)

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Scientific Program Wednesday, 3 July

MC3	
11.30-14.00	Concurrent Session 22 Management of Biological Invasions in a Changing World Chair: Nikos T. Papadopoulos (University of Thessaly, Greece)
11.30-11.45	SE22 CO1 Introduction to management of biological invasion. Nikos T. Papadopoulos (University of Thessaly, Greece)
11.45-12.00	SE22 CO2 Area wide management of fuit flies using the sterile insect technique to respond to invasive species. Rui Pereira (<i>FAO/IAEA, Austria</i>)
12.00-12.15	SE22 CO3 The invasion of the fall armyworm <i>Spodoptera frugiperda</i> (Lepidoptera: Noctuidae) in Europe: the situation in Greece. Spyridon Antonatos (Benaki Phytopathological Institute, Greece)
12.15-12.30	SE22 CO4 The ozone solution: tackling the invasive box tree moth. Darija Lemic (Department of Agricultural Zoology, University of Zagreb, Faculty of Agriculture, Croatia)
12.30-12.45	SE22 C05 Post-harvest treatments to address invasive pests of fresh fruit commodities. Lisa Neven (USDA-ARS, USA)
12.45-13.00	SE22 CO6 The return of the khapra beetle: enemy at the gates. Christos Athanassiou (University of Thessaly, Greece)
13.00-13.15	SE22 C07 A holistic approach in managing biological invasions in Europe: the fruit fly paradigm. Nikos T. Papadopoulos (University of Thessaly, Greece)
13.15-13.30	SE22 C08 Invasive medfly propagules in mosaic landscapes: behavior, development, establishment and detection. Slawomir Lux (<i>Insilico-IMP, UK</i>)
13.30-13.45	 SE22 CO9 Recent advance in biocontrol of key invasive horticultural and field crop pests in sub-saharan Africa: a vital tactic for their agroecological management under changing climate. Samira Mohamed (ICIPE, Kenya)
13.45-14.00	SE22 001 Combined metabolome and transcriptome analysis reveal the mechanism of high temperature tolerance on <i>Spodoptera frugiperda</i> under global climate change. Xiaorui Yan (<i>China Agricultural University, China</i>)
14.00-14,15	 SE22 002 Fighting a good fight against an invasive pathogen through the boxwood blight insight group. Chuanxue Hong (Hampton Roads Agricultural Research and Extension Center, Virginia Tech, USA)

Plant Protection Congress Healthy Plants Support Human Welfare



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 CO6 Use of bacillus amyloliquefaciens QST713 and Clonostachys rosea IK726 as biocontrol agents to control multidrug resistant strains of Botrytis cinerea. George Karaoglanidis (<i>Aristotle University, Greece</i>)
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 CO8 Status of resistance development of important potato pathogens in Europe. Juergern Derpmann (Bayer AG, CropScience Division, Germany)
12.30-12.50	SE18 CO9 Unraveling the molecular basis of DMI resistance in <i>Cercospora beticola.</i> 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 <i>Botrytis cinerea</i> 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: <i>Clarireedia jacksonii</i> , formerly <i>Sclerotinia homoeocarpa</i>) on golf course. Geunhwa Jung (<i>University of Massachusetts, USA</i>)
13.40-14.00	SE18 C13 Four point mutations in vacuolar H+-ATPase subunit A confer fluopicolide resistance in <i>Phytophthora capsici</i> . Xili Liu (College of Plant Protection, Ching Agriculture University, Ching)

14.00-15.00 Light Lunch - POSTER SESSION



Scientific Program Wednesday, 3 July

BANQUET

Chair:	Sunday Ekesi (ICIPE, Kenya)
	Dimitris Tsitsigiannis (Agricultural University of Athens , Greece)

15.00-15.30 Plenary Lecture

KO6 Molecular diagnostics for rational use of pesticides and resistance management of agricultural pests

John Vontas (Agricultural University of Athens, Greece)

15.30-16.00 Plenary Lecture

K07 Microbial pesticides: discovery, piloting and scaling up in Africa Sunday Ekesi (ICIPE, Kenya)

16.00-16.30 Plenary Lecture

K08 Cross-kingdom RNA trafficking between plants and fungal pathogens Hailing Jin (University of California Riverside, USA)

16.30-17.30 Satellite Symposium

BASF Axalion® active: redefining modern sustainable Piercing[®] sucking insect control

Chair: Agniezka Sylwia Baker (BASF, European Senior Specialist Brand Management & Internal Communication)

Axalion[®] Active: redefining modern sustainable piercing & sucking insect control **Desirée Hodges** (Senior Research Scientist - BASF)

Efficacy of the insecticide dimpropyridaz (Axalion®) against the transmission of plant viruses by insect vectors

Prof. Alberto Fereres (Department of Crop Protection-CSIC, Spain)

Impacts of insecticides on the corn leafhopper and transmission of corn stunt spiroplasma **Prof. João Roberto Spotti Lopes** (*Department of Entomology and Acarology, ESALQ, Brazil*)

Questions & answers



17.30-18.00 Coffee Break - POSTER SESSION



Scientific Program Wednesday, 3 July

BANQUET

18.00-20.30	Concurrent Session Plant health phytiatry Chair: Eris Tjamos (Hellenic Society of Phytiatry, Greece) Amanda Hodges (Entomology and Nematology Department, University of Florida, USA) Jeffrey Bradshaw (Entomology / Doctor of Plant Health, University of Nebraska, USA)
18.00-18.20	SE23 CO1 Seeding the future: education of practitioners in plant health. Jeffrey Bradshaw (Entomology / Doctor of Plant Health, University of Nebraska, USA)
18.20-18.40	SE23 CO2 DPM-interns and opportunities for interdisciplinary plant health solutions. Amanda Hodges (Entomology and Nematology Department, University of Florida, USA)
18.40-19.00	SE23 CO3 Plant doctor: an expert of agroenvironmental systems needed for one health. Dimitris Tsaltas (University of Technology, Cyprus)
19.00-19.20	SE23 CO4 One Health: a new perspective to highlight the successes of plant health and the need for a new qualification in this field. Ramon Albajes (<i>Agrotecnio University of Lleida, Spain</i>)
19.20-19.40	SE23 C05 Phytiatrics and environment as a master of science: a vanguard in crop protection. Christos Athanassiou (University of Thessaly, Greece)
19.40-19.55	SE23 C06 Plant health erasmus mundus joint master degree at six universities in Europe international, applied, system-and research oriented. Susanne Weigand (<i>Plant Pathology and Protection, Georg - August University Göttingen, Germany</i>)

NR International Plant Protection Cougress

Scientific Program Wednesday, 3 July

SKALKOTAS

18.00-20.50	Concurrent Session 20B
	Biopesticides and Biofertilizers
	Chair: Sotiris Tjamos (Agricultural University of Athens, Greece)
18.00-18.15	SE20 001 Development of RNA-based fungicides against Fusarium diseases of cereals. Pratyush Ravichander (<i>The University of Queensland, Australia</i>)
18.15-18.30	SE20 002 Burkholderia spp. SSG - a safe and powerful broad-spectrum biocontrol agent
	and biofertilizer. Ping Kong (Hampton Roads Agricultural Research and Extension Center, Virginia Tech, USA)
18.30-18.45	 SE20 003 Oligonucleotide Insecticides: Low-Cost Innovation for Eco-Friendly Aphid Control and an Asymptote for Current Chemical Insecticides. Vol Oberemok (Molecular Genetics and Biotechnologies, V.I. Vernadsky Crimean Federal University, Russia)
18.45-19.00	SE20 004 Potential effects of an organic biostimulant on ZYMV transmission and infection
	in <i>Cucurbita pepo</i> L. Carla Libia Corrado (Council for Agricultural Research and Economics, Research Centre for Plant Protection and Certification, Italy)
19.00-19.15	 SE20 005 Fusarium oxysporum FO12 stimulates dicot plants grown on calcareous and non-calcareous soils. Jesús Sevillano-Caño (Department of Agronomy, University of Córdoba, Spain)
19.15-19.30	SE20 006 Contrasting effects of seed treatment with fungal cell walls on tomato and Arabidopsis. Robin Cowper (Utrecht University, The Netherlands)
19.30-19.45	SE20 007 Biocontrol with phages. Christos Zamioudis (Democritus University of Thrace, Greece)
19.45-20.00	 SE20 008 Exploring the mechanisms underlying the action of tramesan, an exopolisaccharide from <i>Trametes versicolor</i>, as plant resistance inducer in <i>Arabidopsis thaliana</i>. Giovanna Gramegna (Environmental Biology Department, Sapienza Università di Roma, Italy)
20.00-20.10	 SE20 009 Metabolomics: the tool of choice for the discovery of the mechanism(s) of action of biostimulants and biopesticides. Maria Lappa (Agricultural University of Athens, Greece)
20.10-20.20	SE20 010 Antagonistic microorganisms and biostimulants for managing Fusarium wilt of tomato under greenhouse. Paolo Valfrè (University of Turin, Italy)
20.20-20.30	\$E20 011 Efficacy of novel biofungicides in controlling powdery mildew in vineyards. Panagiota Karantoni (Department of Crop Science, Laboratory of Plant Pathology, Agricultural University of Athens, Greece)
20.30-20.40	SE20 012 Adoption of use of biological nematicides. Becky Westerdahl (University of California, Davis, Greece)
20.40-20.50	SE20 013 Coming of age: biostimulants and biocontrols in agriculture to combat the climate crisis and secure food supply, an R&D perspective Konstantinos Aliferis (<i>Agricultural University of Athens, Greece</i>)

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Scientific Program Wednesday, 3 July

MC2

18.00-20.30	Concurrent Session 24 Emergent Forest Diseases in a Changing and Interconnected World Chair: Matteo Garbelotto (Department of ESPM, UC Berkeley, USA)
18.00-18.20	SE24 CO1 Novel, large-scale tree mortality in California is caused by latent pathogens triggered by climate change. Matteo Garbelotto (Department of ESPM, UC Berkeley, USA)
18.20-18.40	SE24 CO2 Thousand cankers disease threatens juglans species across Europe: monitoring and control efforts for protecting EU uncontaminated areas. Salvatore Moricca (<i>Dagri - Department of Agricultural, Food, Environmental and Forest Sciences and Technologies, University of Florence, Italy</i>)
18.40-19.00	SE24 CO3 Disease management in <i>Pinus radiata</i> plantations in Chile. Rodrigo Ahumada (Forest Management, ARAUCO-BIOFOREST, Chile)
19.00-19.20	SE24 CO4 The panglobal plant pathogen <i>Phytophthora cinnamomi</i> threatens Mediterranean forest ecosystems. Bruno Scanu (Department of Agricultural Sciences, University of Sassari, Italy)
19.20-19.40	SE24 C05 Early detection, monitoring, and ecological modeling of forest pathogens support development of proactive forest health management strategies. Patrick Bennett (USDA Forest Service, USA)
19.40-20.15	Round Table Baldissera Giovani, Salvatore Moricca, Rodrigo Ahumada,

Bruno Scanu, Patrick Bennett

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Plant Protection Congress Healthy Plants Support Human Welfare

Scientific Program Wednesday, 3 July

MC3	
18.00-20.30	Concurrent Session 25 Emerging Pests with Relation Plant Biosecurity and Food Safety Chair: Abraham Gamliel (Aro Volcani Institute, Israel) James P. Stack (Kansas State University, USA)
18.00-18.20	SE25 C01 Plant health in the evolving One Health concept. James Stack (Kansas State University, USA)
18.20-18.40	SE25 CO2 Risk assessment, pest alerts and emergence: what determines the timelines? Michael Jeger (<i>Imperial College London, UK</i>)
18.40-18.55	SE25 CO3 A risk management framework for plant biosecurity. Abraham Gamliel (<i>Aro Volcani Institute, Israel</i>)
18.55-19.10	 SE25 C04 Developing an effective biosecurity system to address introduction of emerging pests. Simon Mckirdy (Murdoch University, Australia)
19.10-19.25	 SE25 C05 A plant disease complex: a plant parasitic nematode, free living nematodes and a fungus - reevaluating <i>Pratylenchus</i> disease etiology. Sigal Braun Miyara (Department of Entomology, Nematology and Chemistry Units, Agricultural Research Organization; Volcani, Center, Israel)
19.25-19.40	SE25 C06 Emerging strains and their multi-trophic interactions threatening food safety and biosecurity. Mohammad Arif (University of Hawaii at Manoa, USA)
19.40-19.50	SE25 001 The indispensable role of science in the Canadian food inspection agency's plant protection program.David Nanang (Science Branch, Canadian Food Inspection Agency, Canada)
19.50-20.00	SE25 002 Population dynamics of the pathogen causing late blight of potato and tomato in Canada: historical perspectives and current trends. Richard Peters (<i>Agriculture and Agri-Food Canada, Canada</i>)
20.00-20.10	SE25 003 Addressing biohazards of primary production in agriculture. Anders Kvarnheden (Department of Plant Biology, Swedish University of Agricultural Sciences, Sweden)
20.10-20.20	SE25 004 Bean blossom thrip <i>Megalurothrips usitatus</i> directly causes the black-heads & -tail symptoms of cowpea along with producing insect-resistance flavonoids. Zeng-Rong Zhu (Institute of Insect Sciences, Zhejiang University, China)
20.20-20.30	SE25 005 Status / shifting of pod borer, <i>Helicoverpa armigera</i> population trend in major legumes and other crops in India.

Jagdish Jaba (Entomology, ICRISAT, India)

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Plant Protection Congress Healthy Plants Support Human Welfare



Scientific Program Wednesday, 3 July

CONFERENCE I

18.00-20.30	Concurrent Session 26 Environmental Fate, Ecotoxicology, Risk Assessment, and Remediation of Pesticide Residues
	Chair: Zisis Vryzas (School of Agriculture, Aristotle University of Thessaloniki, Greece)
18.00-18.20	SE26 CO1 Novel approaches in remediation of pesticide residues by biological systems. Zisis Vryzas (School of Agriculture, Aristotle University of Thessaloniki, Greece)
18.20-18.40	SE26 CO2 Green approaches for pesticides control in agroindustrial effluents. Carme Sans (Chemical Engineering and Analytical Chemistry Department Universitat de Barcelona, Spain)
18.40-19.00	SE26 C03 Strategies to reduce fungicide residues and mycotoxins in winder cereals. Lucía Pareja (Cenur Litoral Norte, Universidad de la República, Uruguay)
19.00-19.20	SE26 CD4 Tracking herbicide fate and behavior - a crucial puzzle piece for optimal horticulture production in sandy soils. Ramdas Kanissery (University of Florida, USA)
19.20-19.40	SE26 CD5 Case of study: fungicide residues in barley grains and their relationship with physico-chemical properties and weather conditions Maria Palladino (<i>Pdu. Estudios de Impactos del uso de garoquímicos - Uruguay</i>)

NR International Plant Protection Cougress

Scientific Program **Thursday, 4 July**

BANQUET

08.30-11.00	Concurrent Session 27A Biological Control of Insect Crop Pests
	Chair: Perdikis Dionisis (Agricultural University of Athens, Greece) Michele Ricupero (Agriculture, Food and Environmental Science, University of Catania, Italy)
08.30-09.00	 SE27 C01 Biological control of crop insects in the Mediterranean area: applications and perspectives. Luciana Tavella (Department of Agricultural, Forest and Food Sciences, Università degli Studi di Torino, Dipartimento di Scienze Agrarie e Alimentari, Italy)
09.00-09.15	SE27 CO2 Enhancing biological control of invasive stink bug, <i>Halyomorpha halys</i> by two exotic egg parasitoids. Alberto Pozzebon (Department of Agronomy, Food, Natural Resources, Animals and Environment, University of Padua, Italy)
09.15-09.30	SE27 C03 Insecticide exposure affects foraging behaviour of the egg parasitoid <i>Trissolcus japonicus</i> . Gabriele Rondoni (Department of Agricultural, Food and Environmental Sciences, University of Perugia, Italy)
09.30-09.45	SE27 CO4 Learning in parasitoid wasps: what implications for biological control? Giulia Giunti (University of Salerno, Italy)
09.45-10.00	SE27 C05 Parasitoids of major pests in field conditions: do we really know what they feed on? Ainara Peñalver - Cruz (Sustainable Plant Protection, IRTA, Spain)
10.00-10.15	 SE27 CO6 Biological control and biotechnological approaches for controlling insect pests: a focus on olive tree protection. Paula Baptista and José Alberto Pereira (Instituto Politécnico de Bragança, Portugal)
10.15-10.30	SE27 C07 Predation of <i>Macrolophus pygmaeus</i> and <i>Nesidiocoris tenuis</i> under different <i>Tuta absoluta</i> egg densities and distribution patterns in dishes and plants. Perdikis Dionisis (<i>Agricultural University of Athens, Greece</i>)
10.30-10.45	 SE27 C08 How can we exploit plant essential oils and natural enemies for greenhouse pest control? Michele Ricupero (Agriculture, Food and Environmental Science, University of Catania, Italy)
10.45-11.00	SE27 001 Effect of nanoparticles loaded by hexythiazox and diafenthiuron on the control of two-spotted spider mite (<i>Tetranychus urticae</i> Koch)

Alizadeh Ali (Rafsanjan University of Vali-e-As, Iran)



Scientific Program **Thursday, 4 July**

SKALKOTAS

08.30-11.00	Concurrent Session 28
	Sustainable Mycotoxin Management in a Climate Change Future Chair: Dimitris Tsitsigiannis (Agricultural University of Athens, Greece) Paola Battilani (Università Cattolica del Sacro Cuore, Department of Sustainable Crop Production, Italy)
08.30-09.00	 SE28 C01 Predictive modeling for a sustainable mycotoxin management in a changing climate. Marco Camardo Leggieri, Paola Batilani and Dimitris Tsitsigiannis (Faculty of Agriculture, Food and Environmental Sciences, Department of Sustainable Crop Production (DI.PRO.VE.S.), Università Cattolica del Sacro Cuore, Italy)
09.00-09.25	SE28 CO2 Public private collaborative solutions for scaling aflatoxin biocontrol to address climate-aggravated aflatoxin challenges. Alejandro Ortega-Beltran (<i>IITA, Nigeria</i>)
09.25-09.50	SE28 CO3 Population genomics unveils the evolution of adaptation in Fusarium head blight pathogens in response to agricultural practices and human migration. Liu Taiguo (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)
09.50-10.10	SE28 001 Conventional vs. organic farming system: black Aspergilli population structure, mycotoxigenic capacity and mycotoxin contamination assessment in greek wines. Stefanos Testempasis (<i>Aristotle University of Thessaloniki, Greece</i>)
10.10-10.30	SE28 002 Application of mushroom' metabolites against mycotoxin production by <i>Fusarium</i> spp.

Marzia Beccaccioli (Sapienza University of Rome, Italy)

NI International Protection Congress

Scientific Program Thursday, 4 July

MC2

08.30-11.00	Concurrent Session 29A Improving Resistance - Key to Meet Future Challenges - Plant Breeding
	Chair: Frank Ordon (Julius Kühn Institute, Germany)
08.30-08.50	SE29 CO1 Genetic improvement of the resistance of cereal cultivars in relation to the population dynamics of the fungal pathogens. Thomas Miedaner (<i>State Plant Breeding Institute, University of Hohenheim, Germany</i>)
08.50-09.10	SE29 G02 Dissecting wheat-Septoria interactions. Kostya Kanyuka (Plant Pathology, National Institute of Agricultural Botany (NIAB), UK)
09.10-09.30	SE29 CO3 Identification of new sources of resistance in asparagus (<i>Asparagus officinalis</i>) and pea (<i>Pisum sativum</i>) and what is important for successful resistance breeding. Janine König (<i>Institute for Breeding Research on Horticultural Crops, Julius Kühn-institute,</i> <i>Germany</i>)
09.30-09.50	SE29 CO4 Phomopsis seed decay of soybean: pathogen characterization, germplasm evaluation, and development of improved soybean lines with resistance. Shuxian Li (<i>Crop Genetics Research Unit, USDA, ARS, USA</i>)
09.50-10.10	 SE29 C05 Status, difficulties and prospects for improving resistance in apple from a german perspective. Henryk Flachowsky (Julius Kühn-Institute (JKI) - Federal Research Centre for Cultivated Plants, Germany)
10.10-10.30	SE29 CD6 New disease-resistant grapevine varieties for a more sustainable viticulture.

Plant Protection Congress Healthy Plants Support Human Welfare



Scientific Program **Thursday, 4 July**

MC3	
08.30-11.00	Concurrent Session 30 Microbial Interactions in Ecosystems: Negative or Positive Consequences on Plant Health Chair: Rey Patrice (Institute of Analytical Sciences and Physico-Chemistry for Environment and Materials (CNRS-UPPA) / University of Pau, France) Stéphane Compant (AIT Austrian Institute of Technology, Austria)
08.30-08.50	SE30 CO1 Bacteria-fungi interactions and impacts on plant growth and health. Stéphane Compant (<i>Ait Austrian Institute of Technology, Austria</i>)
08.50-09.10	SE30 CO2 Bacteria associated with wood tissues in grapevines: functional diversity and synergy with <i>Fomitiporia mediterranea</i> to degrade wood components. Rana Haidar (<i>IPREM, France</i>)
09.10-09.30	SE30 CO3 Antagonistic modes of action of grapevine bacteria to control the fungal pathogen <i>Fomitiporia mediterranea.</i> Ouiza Mesguida (<i>IPREM and GreenCell, France</i>)
09.30-09.45	\$E30 001 Cultural management of Armillaria root rot in peach orchards. Guido Schnabel (<i>Plant and Environmental Sciences, Clemson University, USA</i>)
09.45-10.00	\$E30 002 Impact of cropping practices on the incidence and severity of potato common scab. Richard Peters (<i>Agriculture and Agri-Food Canada</i>)
10.00-10.15	SE30 003 Rest material from the potato industry: inactivation of the resting spores of <i>Synchytrium endobioticum</i> , causal agent of potato wart. Gerard Van Leeuwen (<i>Nivip</i> , <i>Netherlands Plant Protection Org</i> , <i>The Netherlands</i>)
10.15-10.30	\$E30 004 Cylindrocarpon-like fungi causing ginseng root diseases in Northeast China. Lu Xiaohong (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)
10.30-10.45	\$E30 005 The impact of glufosinate ammonium and glyphosate application to the soil fungal diversity and population dynamics. Mohamed Maizatul-Suriza (<i>Malaysian Palm Oil Board, Malaysia</i>)
10.45-11.00	SE30 006 State of the art on the kwifruit vine decline syndrome in Italy.

Davide Spadaro (University of Turin, Italy)

NK International Protection Congress

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Scientific Program **Thursday, 4 July**

CONFERENCE I

08.30-11.00	14 th IVS 1 Recent Advances in Verticillium Biology through Genomics Chair: Krishna Subbarao (Plant Pathology, University of California, Davis, USA)
08.30-08.55	SE01-14 TH IVS CO1 Mechanism of cotton leaf defoliation caused by <i>Verticillium dahliae</i> defoliating strain. Xiaoping Hu (<i>Plant Pathology, Northwest A&F University, China</i>)
08.55-09.20	SE01-14TH IVS CO2 Molecular insights into the <i>Verticillium dahliae</i> - smoke tree interactions. Chen Tang (Forestry College, Beijing Forestry University, China)
09.20-09.45	SE01-14 [™] IVS CO3 Secretome: the miraculous arsenal of <i>Verticillium dahliae</i> during host infection. Dandan Zhang (Institute of Plant Protection, Chinese Academy of Agriculture Science, China)
09.45-10.10	SE01-14 TH IVS CO4 Comparative genomics distinguishes microsclerotia-producing and non-microsclerotia-producing Verticillium species. Steve Klosterman (USDA ARS, USA)
10.10-10.30	SE01-14 TH IVS 001 The KSS1 of <i>Verticillium dahliae</i> regulates virulence, microsclerotia formation, and nitrogen metabolism. Wenwen Li (<i>Beijing Forestry University, China</i>)
10.30-10.50	SE01-14 TH IVS 002 Unraveling the role of mitochondrial EF-TU in the pathogenesis and heat stress adaptation of the vascular pathogen <i>Verticillium dahliae</i> . George Patsis (Agricultural University of Athens, Greece)

11.00-11.30 Coffee Break - POSTER SESSION



Scientific Program Thursday, 4 July

BANQUET

11.30-14.00	Concurrent Session 27B
	Biological Control of Insect Crop Pests
	Chair: Perdikis Dionisis (Agricultural University of Athens, Greece)
	Michele Ricupero (Agriculture, Food and Environmental Science, University of Catania, Italy)
11.30-11.45	SE27 002 Taxonomic study of aphids (Aphididea: Homoptera) from Punjab, Pakistan. Muhammad Tayyib (University of Agriculture, Faisalabad, Pakistan)
11.45-12.00	SE27 008 International plant protection congress: healthy plant support human welfare John Egbe Egbede (<i>College Of Education, Nigeria</i>)
12.00-12.15	SE27 CD9 Estimating predation rates for arthropod predators using molecular gut content data.
	David Andow (Applied Ecology, NCSU, USA)
12.15-12.30	SE27 C10 Assessing the benefits and risks of non-indigenous biological control agents for the EPPO region. Rob Tanner (EPPO, France)
12.30-12.45	SE27 004 Spread of an invasive aphid species on apricots in Europe and its control. Urban Spitaler (<i>Laimburg Research Centre, italy</i>)
12.45-13.00	SE27 005 Biodegradable biopolymeric containing nano-clay for encapsulation

2.45-13.00 SE27 000 Biodegradable biopolymeric containing hano-clay for encapsulation of entomopathogenic fungi via drying process. Barud Hernane (UNIARA, Brazil)



SKALKOTAS

11.30-14.00	Concurrent Session 31
	Tropical Pest Management - Challenges in the Post-Covid World
	Chair: Trevor Jackson (AgResearch, Lincoln Research Centre, New Zealand)
	Sulav Paudel (AgResearch, Lincoln Research Centre, New Zealand)
	Souleymane Nacro (INERA, France)
11.30-11.45	SE31 C01 Tropical pest management - challenges in the post-covid world. Sulav Paudel and Trevor Jackson (<i>AgResearch, Lincoln Research Centre, New Zealand</i>)
11.45-12.00	SE31 CO2 Rethinking IPM - challenges and opportunities for implementation and scaling in Africa.
	Thomas Dubois (International Centre of Insect Physiology and Ecology (ICIPE), France)
12.00-12.15	SE31 C03 Challenges in managing sporadic subtropical pests - a case of desert locusts in Eastern Africa.
	Alexandre Latchininsky (Plant Production and Protection Division, Food and Agriculture Organization of The United Nations, Italy)
12.15-12.30	SE31 C04 Farmer-oriented and science-driven plant health management for West Africa. Manuele Tamò (<i>IITA, Benin</i>)
12.30-12.45	SE31 C05 Improving biodiversity for resilient rice-based ecosystems: sustainable strategies for plant health and climate adaptation in Cambodia.
	Nurmi Pangesti (International Rice Research Institute (IRRI), Cambodia)
12.45-13.00	SE31 C06 Challenges and opportunities in implementing vegetable IPM in Africa. Srinivasan Ramasamy (<i>Safe and Sustainable Value Chains,World Vegetable Center, Taiwan</i>)
13.00-13.15	SE31 C07 Navigating challenges in biopesticide utilization for tropical pest management: lessons from the Americas and beyond.
	Laura Villamizar (Microbial Solutions, AgResearch Ltd., New Zealand)
13.15-13.30	SE31 001 Integrating late blight management strategies in potato production for enhanced efficacy and sustainability.
	Kalpana Sharma (Potato Agrifood System, International Potato Center, Kenya)
13.30-13.45	SE31 002 Population dynamics of fall armyworm (Lepidoptera: Noctuidae) on maize fields in Uganda.
	Angella Lowra Ajam (National Agricultural Research Organisation, Uganda)
13.45-14.00	SE31 003 Effectivess of various systemic and biological fungicides against coffee leaf rust
	in Hawaii. Zhigiang Chang (Dept and Environmental Protection Sciences, University of Hawaii at Manag
	Zhiqiang Cheng (<i>Plant and Environmental Protection Sciences, University of Hawaii at Manoa, USA</i>)
14.00-14.15	SE31 004 The population biology, predation and competitiveness of two predatory mirids
	in rice ecosystems were asymmetrically effected by elevated temperature.
	Zeng-Rong Zhu (Institute of Insect Sciences, Zhejiang University, China)



Scientific Program Thursday, 4 July

MC2

11.30-14.00	Concurrent Session 293 Improving Resistance - Key to Meet Future Challenges - Plant Breeding Chair: Frank Ordon (Julius Kühn Institute, Germany)
11.30-11.50	SE29 C07 Improving resistance level to important phytopathogenic fungi in winter wheat - what we can learn for the future from 50 years of breeding history? Andreas Stahl (Institute for Resistance Research and Stress Tolerance, Julius Kühn-institut, Germany)
11.50-12.10	SE29 001 Consequences of management practices on distribution of russian wheat aphid, <i>Diuraphis noxia</i> , in wheat production areas of South Africa. Astrid Jankielsohn (<i>ARC-Small Grain, South Africa</i>)
12.10-12.30	SE29 002 Virulence diversity of <i>Puccinia triticina</i> in South Africa and the response of wheat cultivars and breeding lines to new races. Tarekegn Terefe (<i>Agricultural Research Council-Small Grains, South Africa</i>)
12.30-12.50	SE29 003 Studies on the identification of resistance to <i>Fusarium oxysporum</i> in different genetic backgrounds of <i>Asparagus officinalis</i> and its defense responds. Julia Jacobi (Institute for Breeding Research on Horticultural Crops, Julius Kühn-Institut, Germany)
12.50-13.10	SE29 004 Comparative transcriptome analysis of <i>Synchytrium endobioticum</i> , pathotype 18(T1), to understand pathogenicity behavior on resistant, tolerant and susceptible potato varieties. Theoni Margaritopoulou (<i>Benaki Phytopathological Institute, Greece</i>)
13.10-13.30	SE29 005 Managing oil palm basal stem rot disease through selection of oil palm resistant materials as part of integrated Ganoderma management. Mohd Hefni Rusli (<i>Malaysian Palm Oil Board, Greece</i>)
10.00.10.50	

13.30-13.50 **SE29 006** The strawberry - *Botrytis cinerea* interaction: from flower to fruit. **Barbara de Coninck** (*Ku Leuven, Belgium*)

Scientific Program Thursday, 4 July

MC3

11.30-14.00 **Concurrent Session 32**

- Eco-Epidemiological and Pathobiome Perspectives on Diseases Caused by Mycotoxigenic Fungi
- Chair: Antonio Moretti (Institute of Sciences of Food Production of Research National Council, CNR-ISPA, Italy)

Slavica Stojkov (Maize Research Institute of Belgrade, Serbia)

- 11.30-11.50 **SE32 CO1** Pathogenicity, mycotoxin profile and genetics, of phytopathological and toxicological Alternaria species, a "farm to fork" global concern. **Mario Masiello** (Institute of Sciences of Food Production - National Research Council, Italy)
- 11.50-12.10 SE32 CO2 Characterization of mycotoxigenic Fusarium fujikuroi species complex pathogens on small grain in Serbia.
 Iva Savic (University of Agriculture Belgrade, Serbia)
- 12.10-12.30 **SE32 CO3** Uncovering the antifungal and antimycotoxin mechanisms of stilbenoids against *Fusarium graminearum* via comprehensive omics integration. **Tran Minh Trang** (*Ghent University, Belgium*)
- 12.30-12.50 SE32 001 Pistachio fruit contamination with aflatoxins in California: sensitivity analysis and verification.
 M.Teresa Garcia-Lopez (Agronomy, CSIC, Spain)
- 12.50-13.10 **SE32 002** Exploring biocontrol potential of greek non-aflatoxigenic *Aspergillus flavus* isolates in aflatoxins mitigation: insights into population dynamics. **Maria Varveri** (*Agricultural University of Athens, Greece*)



Scientific Program Thursday, 4 July

CONFERENCE I

11.30-14.00	14 th IVS ? Recent Advances in Verticillium Wilt Management Chair: Krishna Subbarao (Plant Pathology, University of California, Davis, USA) Franco Nigro (Soil, Plant and Food Sciences, University of Bari Aldo Moro, Italy)
11.30-11.50	SE02-14TH IVS CO1 Integrated management of the smoke tree wilt. Yonglin Wang (<i>Beijing Forestry University, China</i>)
11.50-12.10	SE02-14TH IVS CO2 Nitrogen dioxide fumigation reduces the viability of <i>Verticillium dahliae</i> and <i>Peronospora effusa</i> in spinach seeds. Steve Klosterman (USDA ARS, USA)
12.10-12.30	SE02-14TH IVS CO3 Do we define races on the basis of single Avr genes or on their phylogenetic lineage? Krishna Subbarao (<i>Plant Pathology, University of California, Davis, USA</i>)
12.30-12.50	SE02-14TH IVS CO4 Response to <i>Verticillium dahliae</i> infection in a genetically related set of olive cultivars : preliminary results. Franco Nigro (Soil, Plant and Food Sciences, University of Bari Aldo Moro, Italy)
12.50-13.10	SE02-14TH IVS CO5 Essential oils as a new approach to manage Verticillium wilt of tomato, eggplant, and olive under controlled conditions. Franco Nigro (Soil, Plant and Food Sciences, University of Bari Aldo Moro, Italy)
13.10-13.30	SE02-14TH IVS CO6 Root exudates and soil bacteria are antagonistic regulators of dormancy and germination in <i>Verticillium longisporum</i> microsclerotia. Sarengimuge Sarengimuge (<i>Plant Pathology and Crop Protection, University Goettingen,</i> <i>Germany</i>)
13.30-13.50	SE02-14TH IVS 001 Biological control of <i>Verticillium dahliae</i> using endophytic rhizobacteria from olive roots. Loukas Doumanis (<i>Agricultural University of Athens, Greece</i>)

14.00-15.00 Light Lunch - POSTER SESSION



Scientific Program Thursday, 4 July

BANQUET

Chair Emmanuel Tamo (IITA Benin) Trevor Jackson (Agresearch, New Zealand)

15.00-15.30 Plenary Lecture

K09 Food security in Africa needs policy support for sustainable plant health management

Christian Borgemeister (University of Bonn, Germany)

15.30-16.00 Plenary Lecture

K10 Weed management challenges and opportunities to close yield and profitability gaps in smallholder rice production in Asia Virender Kumar (IRRI, Philippines)

16.00-16.30 Plenary Lecture

K11 Coordinated approach for transboundary plant pest and disease management Fazil Dusunceli (FAO, Turkiye)

16.30-17.00 Satellite Lecture

How biologicals can support the transition to regenerative agriculture systems

Chair: Kostas Ikonomidis (CP Marketing & Technical Head Mediterranean, Syngenta) Fotis Andrinopoulos (Business Sustainability & Stewardship Lead Mediterranean, Syngenta)

Speaker: Marco Piscicelli (Biostimulants Technical Expert)



17.00-17.30 Satellite Lecture

Reklemel active: a novel tool for integrated nematode management - key learnings from a global nematicide development project

Chair: Emmanuel Tzortzakakis (ELGO -DIMITRA, Greece)

Speaker: Yiannis Stamatas (Zonal Biology Program Leader, EMEA Field Sciences R&D)



17.30-18.00 Coffee Break - POSTER SESSION



Scientific Program Thursday, 4 July

BANQUET

18.00-20.30	Concurrent Session 33 Unveiling Nature's Arsenal: The Role of Volatile Compounds in Plant Protection Chair: Nutan Kaushik (Food and Agriculture Foundation, Amity University, India) Vicente González (4Centro de Investigación y Tecnología Agroalimentar, Spain) Naceur Djebali (Centre de Biotechnologie, Technopole Borj Cédria, Tunisia)
18.00-18.20	SE33 CO1 Volatile compounds in post-harvest preservation. Nutan Kaushik (Food and Agriculture Foundation, Amity University, India)
18.20-18.40	SE33 CO2 Harnessing endophytic bacteria as a source of volatile antifungal compounds for post harvest disease control. Naceur Djebali (<i>Centre de Biotechnologie, Technopole Borj Cédria, Tunisia</i>)
18.40-18.55	SE33 CO3 Role of push-push companion plant volatiles in the management of the invasive fall armworm (<i>Spodoptera frugiperda</i>) pest. Tamiru Amanuel (<i>ICIPE, Kenya</i>)
18.55-19.10	 SE33 C04 Potential of selected essential oils for the control of the European truffle beetle (Leiodes cinnamomeus). Vicente González (4Centro de Investigación y Tecnología Agroalimentar, Spain)
19.10-19.25	SE33 C05 Metabolomic and agronomic clustering of bioactive essential oils from cultivated Spanish aromatic plants. Juliana Navarro-Rocha (Agri-Food Research and Technology Centre of Aragon (cita), Spain)
19.10-19.25	 SE33 CO6 Comparison of extraction methods for the determination of essential oil content, composition and antifungal activity of different plant species. Juliana Navarro - Rocha (Agri-Food Research and Technology Centre of Aragon (cita), Spain)
19.40-19.55	SE33 C07 Volatile compounds of <i>Bacilus siamensis</i> NKIT9 inhibits the mycelia growth of <i>Rhizoctonia solani</i> . Ayushi Sharma (<i>Amity University, India</i>)

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Scientific Program Thursday, 4 July

SKALKOTAS

18.00-20.30	Concurrent Session 34 Advances in Biosecurity Measures for Emerging and Invasive Pests Chair: Rajan Sharma (ICRISAT, India) Lava Kumar (IITA, Ibadan, Nigeria)
18.00-18.20	SE34 CO1 Biosecurity for food security: safeguarding crop genetic resources from invasive biological threats. Rajan Sharma (<i>ICRISAT, India</i>)
18.20-18.40	SE34 CO2 Remote sensing and AI tools for enhancing biosecurity measures: the case of banana mapping and BBTV surveillance in sub-saharan Africa. Lava Kumar (<i>IITA, Ibadan, Nigeria</i>)
18.40-18.50	SE34 CO3 Role of research laboratory accredited with ISO / IEC 17025: 2017 to foster biosecurity and biosafety: case study in Northen Italy. Monica Mezzalama (University of Turin, Italy)
18.50-19.00	SE34 CO4 The International Potato Center (CIP) - Germplasm Health Unit (GHU) safeguarding genetic resources from emerging pests for the future. Giovanna Muller (<i>Research Support Unit, International Potato Center, Peru</i>)
19.00-19.10	SE34 C05 Management of emerging and invasive pests of food legumes and cereals germplasm in cwana region. Saffa Kumari (ICARDA, Lebanon)
19.10-19.20	\$E34 001 Revisit a case of fresh tablestock intercepted in CFIA regulatory action. Li Xiang (Canadian Food Inspection Agency, Canada)
19.20-19.30	SE34 002 Using pheromone and smart traps to control <i>Lymantria dispar</i> in European countries. Paraskevi Agrafioti (University of Thessaly, Greece)



Scientific Program Thursday, 4 July

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18.00-20.30	Concurrent Session 35 Chemical Ecology and Biological Control Chair: Antonino Cusumano (University of Palermo, Italy) Panos Milonas (Benaki Phytopathological Institute, Greece)
18.00-18.15	SE35 C01 Plant-plant communication via volatiles. Unexplored phenomenon of plant resistance to pests. Velemir Ninkovic (Ecology, Swedish University of Agricultural Sciences, Sweden)
18.15-18.30	\$E35 CO2 Friends or foes? Use of host and host plant-derived volatiles by an olive fruit fly parasitoid. Giannoula (Anni) Bogka (Laboratory of Genetics, Wageningen University & Research, The Netherlands)
18.30-18.45	SE35 C03 Effects of nectar-inhabiting bacteria on parasitoids' longevity. Evgenia Sarakatsani (Department of Agricultural, Food and Forest Sciences, Università degli Studi di Palermo, Italy)
18.45-19.00	SE35 CO4 Using chemical diversity approaches to control pollen beetle (<i>Brassicogethes aeneus</i>) and Colorado potato beetle (<i>Leptinotarsa decemlineata</i>). Torsten Meiners (<i>Julius Kuehn Institute (JKI</i>), <i>Federal Research Centre for Cultivated Plants, Germany</i>)
19.00-19.15	SE35 C05 Oviposition induced plant volatiles prime <i>Brassica napus</i> defence responses. Foteini Paschalidou (INRAE, UMR Agronomie, France)
19.15-19.30	SE35 C06 What makes larval oral secretion of the Mediterranean corn borer so attractive to its parasitoid? Taiadjana Marques Fortuna (<i>IRD, Lab EGCE, France</i>)
19.30-19.45	SE35 C07 Regulation of sorghum defenses to insect pests. Joe Louis (Department of Entomology & Department of Biochemistry, University of Nebraska- Lincoln, USA)
19.45-20.00	\$E35 001 Potential of selected wild plants for use in conservation biological control of tomato insect pests. Myrto Barda (<i>Benaki Phytopathological Institute, Greece</i>)
20.00-20.10	 SE35 002 Abelia × Grandiflora as potential functional banker plant for conserving biocontrol in rice ecosystem. Zeng-Rong Zhu (Institute of Insect Sciences, Zhejiang University, China)

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Scientific Program Thursday, 4 July

MC3

18.00-20.30	Concurrent Session Challenges in Sustainable Plant Disease Management in a Changing Climate Chair: Jay Ram Lamichhane (INRAE, France) Emilia Markellou (Benaki Phytopathological Instritute, Greece)
18.00-18.15	SE36 CO1 Influence of climate change on Fusarium head blight and associated mycotoxins. Stephen Wegulo (<i>Plant Pathology, University of Nebraska, USA</i>)
18.15-18.30	 SE36 CO2 Can mathematical models support grapevine disease management under climate change? Vittorio Rossi and Giorgia Fedele (Università Cattolica del Sacro Cuore, Italy)
18.30-18.45	 SE36 C03 Managing soilborne disease complexes of annual forage legumes in a changing climate. Martin J. Barbetti (School of Agriculture and Environment and the UWA Institute of Agriculture, University of Western Australia, Australia)
18.45-19.00	SE36 CO4 NEM-EMERGE: tackling the emergence of tropical root knot nematodes in Europe. Daniel Bebber (Department of Biosciences, University of Exeter, UK)
19.00-19.15	SE36 001 Challenges facing U.S. cotton production: a focus on pathogens and nematodes. Kaitlyn Bissonnette (<i>Cotton Incorporated, USA</i>)
19.15-19.30	SE36 002 Trichoderma ear rot - effect of temperature and precipitation on a new emerging disease of maize in Europe. Annette Pfordt (<i>Georg-August Universität Göttingen, Germany</i>)
19.30-19.40	 SE36 003 Key infection stages defending heat stress in high temperature resistant Blumeria graminis f. sp. tritici. Fan Jieru (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)
19.40-19.50	SE36 004 Investigating <i>Colletotrichum</i> spp. from Greece for growth under different temperatures and their virulence on flowers and fruits of olive cultivars. Aliki Tzima (<i>Agricultural University of Athens, Greece</i>)
19.50-20.00	SE36 005 Genetic structure and exchange of <i>Blumeria graminis</i> f. sp. <i>tritici</i> populations in China. Liu Wei (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)
20.00-20.10	SE36 006 Identification of wheat stripe rust transport pathways and source apportionment for initial re-colonization on winter-wheat in Southern Henan of China. Zhou Yilin (Department of Plant Pathology, Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)



Scientific Program **Thursday, 4 July**

CONFERENCE I

18.00-20.30	14 th IVS Recent Advances in Verticillium Biology - Plant Interaction Chair: Epaminondas Paplomatas (Agricultural University of Athens, Greece) Aliki Tzima (Agricultural University of Athens, Greece)
18.00-18.20	SE03-14TH IVS 001 NLP Protein Family Member Overexpression Increases Virulence in <i>Verticillium dahliae</i> . Epaminondas Paplomatas (Agricultural University of Athens, Greece)
18.20-18.40	SE03-14TH IVS 002 The role of 1-Aminocyclopropane-1-Carboxylic Acid (ACC) biosynthesis and degradation in the <i>Verticillium dahliae</i> - pepper interaction. Bex Roos (<i>Department of Plants and Crops, Ghent University, Belgium</i>)
18.40-19.00	 SE03-14[™] IVS 003 Enhancing plant defense mechanisms: immunization effects of autoclaved Verticillium dahliae spores. Maria Frantzeska Triviza (Benaki Phytopathological Institute, Greece)
19.00-19.15	SE03-14[™] IVS 004 Examining the function of an F-box protein in <i>Verticillium dahliae</i> pathogenic behavior. Aliki Tzima (Agricultural University of Athens, Greece)
19.15-19.30	SE03-14TH IVS 005 The VDSNF1 gene regulates virulence and metabolome of the wilt fungus <i>Verticillium dahliae</i> affecting its perception by the host plant. Tragousti M. (<i>Agricultural University of Athens, Greece</i>)
19.30-19.45	SE03-14TH IVS 006 Plant xylem metabolite and starch dynamics in the <i>Verticillium dahliae</i> - pepper interaction. Shirley Marcou (<i>Plants And Crops, Ghent University, Belgium</i>)
19.45-20.00	SE03-14TH IVS 007 Survival, persistence and infection efficiency of <i>Verticillium dahliae</i> passed through the digestive system of sheep.

Manolis Markakis (Hellenic Mediterranean University, Greece)



Scientific Program **Friday, 5 July**

BANQUET

08.30-11.00	Concurrent Session 37A
	Recent Advances in Plant Virology
	Chair: Xueping Zhou (Institute Of Plant Protection, Chinese Academy Of Agricultural Sciences, China)
08.30-08.50	SE37 C01 Knock-out of the virus replication-related genes UbEF1B and CCR4/NOT3 by CRISPR/Cas9 confers high-efficiency and broad-spectrum resistance to geminiviruses. Xueping Zhou (Institute Of Plant Protection, Chinese Academy Of Agricultural Sciences, China)
08.50-09.10	SE37 CO2 Unravelling the plant manipulation by geminiviruses.
	Rosa Lozano-Durán (Center for Molecular Plant Biology (ZMBP), University of Tübingen, Germany)
09.10-09.30	SE37 C03 Protein, lipid, and membrane interactions in positive-strand RNA virus genome replication.
	Xiaofeng Wang (School of Plant And Environmental Sciences, Virginia Tech, USA)
09.30-09.50	SE37 CD4 Occurrence, prevention and control of pepper virus diseases in China. Fei Yan (Insititute of Plant Virology in Ningbo University, China)
09.50-10.10	SE37 CO5 Strength in division: the costs and benefits of a multipartite genome organization in plant viruses.
	Mark Zwart (Netherlands Institute of Ecology, The Netherlands)
10.10-10.30	SE37 CO6 dsRNA-mediated resistance against plant viruses. Andreas Voloudakis (<i>Agricultural University of Athens, Greece</i>)
10.30-10.50	SE37 001 Investigating plant persistent viruses in chilli pepper. Satish Bharathwaj Viswanathan (<i>Department of Plant Sciences, University of Cambridge, UK</i>)

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Scientific Program **Friday, 5 July**

SKALKOTAS

08.30-11.00	Concurrent Session Precision Agriculture and Remote Sensing for Future Plant Disease Management Chair: Spyros Fountas (Agricultural University of Athens, Greece)
08.30-08.50	 SE38 C01 Al-driven prescription spraying maps: pioneering herbicide reduction in precision agriculture. Spyros Fountas (Agricultural University of Athens, Greece)
08.50-09.05	SE38 CO2 Optimizing crop protection: a comprehensive study of spraying drones in vineyards. Vasilis Psiroukis (<i>Agricultural University of Athens, Greece</i>)
09.05-09.25	SE38 CO3 Can spray application technological improvements contribute to pesticide use and risk-related reduction? Marco Grella (University of Turin, Italy)
09.25-09.40	SE38 CO4 Digital technologies for plant health, early detection, territory surveillance and phytosanitary measures. Dimitris Tsitsigiannis (<i>Agricultural University of Athens, Greece</i>)
09.40-09.50	\$E38 001 Synthetic data generation for enhanced weed and crop species detection. Itziar Egusquiza (<i>Tecnalia, Basque Research and Technology Alliance, Spain</i>)
09.50-10.00	\$E38 002 Precision weed management and crop cover analysis and weed identification in agriculture: using CNNS for enhanced practises. Ioannis Glykos (<i>Agricultural University of Athens, Greece</i>)
10.00-10.10	SE38 003 Air-seq: a new tool for detecting airborne pathogens. Mia Berelson (<i>Earlham Institute, UK</i>)
10.10-10.20	\$E38 004 Early detection of Verticillium wilt of olive: analyzing the intact leaf spectra from the visible-near infrared range in the field. María Teresa García-López (<i>Agronomy, CSIC, Spain</i>)
10.20-10.30	 SE38 005 Testing innovative spraying systems for mitigating the impacts of Lobesia botrana (Denis & Schiff.). Giorgio Sperandio (Dipartimento di Scienze Agrarie, Alimentari e Ambientali, Department of Agricultural, Food and Environmental Sciences, Marche Polytechnic University, Italy)
10.30-10.40	SE38 006 Hyperspectral detection of singular / interactive effects of simulated tree shading and <i>Alternaria alternata</i> infection on <i>Sorghum bicolor</i> under field conditions. Lorenzo Pippi (University of Pisa, IUSS Pavia, Italy)
10.40-10.50	SE38 007 Machine learning techniques using airborne multispectral data for detection of infestation detection by <i>Xylotrechus chinensis</i> (Chevrolat) (Coleoptera: Cerambycidae) in Mulberries. Antonis Tsagkarakis (<i>Agricultural University of Athens, Greece</i>)



Scientific Program **Friday, 5 July**

MC2

08.30-11.00	Concurrent Session 39 Prevention and Sustainable Management of Transboundary Plant Pests Chair: Fazil Dusunceli (Food and Agriculture Organization, Turkey)
08.30-08.50	SE39 CO1 The Africa phytosanitary program: an IPPC experience in implementing standards to mitigate the spread of plant pests of regulatory significance. Osama Elissy (<i>FAO</i> , <i>USA</i>)
08.50-09.10	SE39 CO2 Regional approach to managing wheat rust diseases in central Asia and Caucasus through the FAO-Turkiye partnership programme. Fazil Dusunceli (Food and Agriculture Organization, Turkiye)
09.10-09.30	SE39 CO3 Approaches for rapid response to contain transboundary pest outbreaks: the case for banana bunchy top disease in Africa. Lava Kumar (<i>IITA, Ibadan, Nigeria</i>)
09.30-09.50	SE39 CO4 Key role of monitoring and early warning in prevention of transboundary plant pests: experiences in locust monitoring systems. Alexandre Latchininsky (<i>Food And Agriculture Organization Of The United Nations, Italy</i>)
09.50-10.10	SE39 C05 FAO-SADC-EU collaborative efforts to deal with transboundary plant pests in the southern Africa region. Mathew Abang (FAO, Zimbabwe)
10.10-10.30	SE39 C06 Addressing transboundary plant pest and disease challenges in Turkiye. Suat Kaymak and Ayse Uysal Morca (Department of Plant Health Research, General Directorate of Agricultural Research, Ministry of Agriculture and Forestry, Turkey)
10.30-10.45	 SE39 001 The potential of intercrops against fall armyworm, Spodoptera frugiperda (J.E. Smith) on maize under field conditions in India. P. Lakshmi Soujanya (Agricultural Entomology, ICAR Indian Institute of maize research., India)



Scientific Program Friday, 5 July

MC3

08.30-11.00	Concurrent Session 40A Recent Advances in Vegetable IPM Chair: Ricardo Oliva (World Vegetable center , Taiwan)
08.30-08.50	SE40 001 Efficacy of soil biodisinfection with brassicaceae species for controlling <i>Fusarium oxysporum</i> f. sp. <i>lactucae</i> in lettuce crops. Daniel Palmero (<i>Universidad Politécnica de Madrid, Spain</i>)
08.50-09.10	SE40 C01 Challenges and prospects for implementing vegetable ipm in asia. Srinivasan Ramasamy (World Vegetable Center, Shanhua, Tainan, Taiwan)
09.10-09.30	SE40 CO2 Vegetable grating, a potential IPM component for the management of soil-borne diseases of tomato in Ethiopia. Wubetu B. Legesse (World Vegetable Center, Ethiopia)
09.30-09.50	SE40 C03 Tracking soil-borne pathogens in the vegetable agroecosystem. Ricardo Oliva (<i>World Vegetable Center, Taiwan</i>)
09.50-10.10	SE40 CO4 Enhancing plant defense mechanisms: integrating resistant varieties, biocontrol agents, and plant activators for sustainable southern blight management.

Lourena Maxwell (World Vegetable Center, Taiwan)

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Scientific Program **Friday, 5 July**

CONFERENCE I

08.30-11.00	14 th IVS Biological Control of Verticillium Wilt Pathogens Chair: Ioannis Stringlis and Sotiris Tjamos (Agricultural University of Athens, Greece)
08.30-08.55	SE04-14TH IVS 001 Unveiling the efficacy: <i>Bacillus velezensis</i> K165 volatile organic compounds in Verticillium wilt biocontrol. Eirini Poulaki (<i>Agricultural University of Athens, Greece</i>)
08.55-09.20	SE04-14 TH IVS 002 Impact of <i>Fusarium oxysporum</i> FO12 on Fe acquisition and systemic resistance gene expression against <i>Verticillium dahliae.</i> Jesús Sevillano-Caño (Department of Agronomy, University of Córdoba, Spain)
09.20-09.45	SE04-14TH IVS 003 Biological control of highly invasive <i>Ailanthus altissima</i> using <i>Verticillium nonalfalfae</i> isolate VERT56. Benjamin Dauth (Boku University, Institute of Forest Entomology, Forest Pathology and Forest Protection, Austria)
09.45-10.10	SE04-14TH IVS 004 The tale of discovering a biocontrol agent against Verticillium wilt. Vasilis Dimitrakas (<i>Agricultural University of Athens, Greece</i>)
10.10-10.35	SE04-14TH IVS 005 Assessment of rocket extract and rhizospheric microorganisms for managing Verticillium wilt in eggplants: insights into systemic resistance and biosynthetic profiling. Sotiris Tjamos (<i>Agricultural University of Athens, Greece</i>)

11.00-11.30 Coffee Break - POSTER SESSION



Scientific Program **Friday, 5 July**

BANQUET

11.30-14.00	Concurrent Session 37B
	Recent Advances in Plant Virology
	Chair: Xueping Zhou (Institute Of Plant Protection, Chinese Academy Of Agricultural Sciences, China)
11.30-11.50	SE37 002 The -RNA of tobamo viruses encoded additional viral proteins.
	Fangfang Li (Institute of Plant Protection, China Academy of Agricultural Sciences, China)
11.50-12.10	SE37 003 RNA polymerase of potyvirids inhibit plant RNA RNA quality control. Fangfang Li (Institute of Plant Protection, China Academy of Agricultural Sciences, China)
12.10-12.30	SE37 004 Wisteria vein mosaic virus: an evolutionary-based case study approach to trace the emergence of new virus threats.
	Massimiliano Morelli (CNR Istituto per la Protezione Sostenibile delle Piante, Italy)
12.30-12.50	SE37 005 Development of pathogen-mimicking artificial positive controls (pamapcs) and their application in diagnostics.
	Ioannis Tzanetakis (University of Arkansas System Division of Agriculture, USA)
12.50-13.10	SE37 006 Emerging viruses infecting pepper in Oklahoma. Akhtar Ali (The University of Tulsa, USA)
13.10-13.30	SE37 007 Plant viruses of the family potyviridae encode Viroporin. Cheng Xiaofei (College of Plant Protection, Northeast Agricultural University, China)
13.30-13.50	SE37 008 Evaluation of summer squash (<i>Cucurbita pepo</i> L.) for resistance against emerging criniviruses.

Bag Sudeep (Plant Pathology, University of Georgia, USA)

Scientific Program **Friday, 5 July**

SKALKOTAS

11.30-14.00	Concurrent Session [4] Advances in Nematode Research and Plant Protection Chair: Thomais Duarte (South East Technological University, Ireland) Alexandros Dritsoulas (Agricultural Univerity of Athens, Greece) Giannis Giannakou (Agricultural Univerity of Athens, Greece)
11.30-11.55	SE41 CO1 An Investigation on the development of a combined plant health bio-agent using calcium alginate formulation. Thomais Duarte (<i>South East Technological University, Ireland</i>)
11.55-12.15	 SE41 CO2 Metabarcoding survey supports specificity of EPN-Paenibacillus sp. association and identifies potential bacterial antagonists of diaprepes root weevil in a Florida citrus orchard. Alexandros Dritsoulas (Agricultural University of Athens, Greece)
12.15-12.35	SE41 C03 New advancements in root-knot nematodes management using plant growth promoting rhizobacteria. Giannis Giannakou (Agricultural Univerity of Athens, Greece)
12.35-12.55	SE41 CO4 Investigation of fluazaindolizine as a potential novel tool to manage <i>Xiphinema index</i> . Emmanuel Tzortakakis (ELGO-DIMITRA, Greece) Tim Thoden
12.55-13.15	SE41 001 Potential of biocides in the management of <i>Meloidogyne incognita</i> parasitizing beetroots. Oluwatoyin Fabiyi (University of Ilorin, Nigeria)
13.30-13.45	SE41 002 Root-gall nematode management strategy on okra (<i>Abelmoschus esculentus</i>) with physicnut [<i>Jatropha Curcas</i> [L] tannins. Vincent Ogwudire (Federal University of Technology Owerri, Imo, Nigeria)



Scientific Program **Friday, 5 July**

MC2

11.30-14.00	Concurrent Session 42 Biological Plant Protection Chair: Massimo Pugliese (University of Torino, Italy) Danai Gkizi (University of West Attica, Greece)
11.30-11.45	SE42 001 Integrated disease management of powdery and downy mildews on grape: recent results in Italy. Massimo Pugliese (University of Torino, Italy)
11.45-12.00	SE42 002 Biological control of <i>Botrytis cinerea</i> using commercial wine yeasts. Danai Gkizi (University of West Attica, Greece)
12.00-12.15	 SE42 003 Prospectives of Catenaria anguillulae sorokin for biological control of plant parasitic nematodes. Shyam Saran Vaish (Banaras Hindu University, India)
12.15-12.30	SE42 004 Exploring the termicidal properties of clove (<i>Syzygium aromaticum</i>) and garlic (<i>Allium sativum</i>) against the subterranean termite, <i>Heterotermes indicola</i> (Isoptera: Rhinotermitidae). Fazal Said (<i>Department of Entomology, Abdul Wali Khan University, Pakistan</i>)
12.30-12.40	SE42 005 Use of entomopathogens and nano-particles for the sustainable management of red flour beetle, <i>Tribolium castaneum</i> (Tenebrionidae: Coleoptera). Shahbaz Ahmad (University of the Punjab, Pakistan)
12.40-12.50	SE42 006 Elicitor application in strawberry IPM results in long-term increase of plant resilience without yield loss. Kirsten Leiss (Wageningen University and Research, The Netherlands)
12.50-13.00	SE42 007 Successful cases of organic crop protection interventions demonstrated through farm science centers in Southern India. Jv Prasad (<i>Icar-atari, Hyderabad, India</i>)
13.00-13.10	SE42 008 <i>Trichoderma afroharzianum</i> : from biocontrol champion to emerging maize pathogen in Europe. Annette Pfordt (<i>Georg-August Universität Göttingen, Germany</i>)
13.10-13.20	SE42 009 Taxonomic study of assassin bugs (Reduviidae: Homoptera) from Punjab, Pakistan. Muhammad Tayyib (University of Agriculture, Faisalabad, Pakistan)
13.20-13.30	SE42 010 Ozonated water application as promising tool for sustainable plant pathogens management in (edible) flower production. Claudia Pisuttu (Università di Pisa, Italy)
13.30-13.40	SE42 011 Characterization and management of root diseases of greenhouse cucumbers using cultural and biological methods. Abdullah Al-Sadi (Sultan Qaboos University, Oman)
13.40-13.50	SE42 012 The impact and dissipation of biocontrol products in soil microcosms using an untargeted metabolomic approach. Christian Espinoza (<i>Sas. Akinao, France</i>)
13.50-14.00	SE42 013 Incorporating omics and artificial intelligence to explore agricultural potential of <i>Lactococcus lactis</i> as biocontrol agent for sustainable rice farming. Amalia Mohd Hashim (<i>Universiti Putra Malaysia, Malaysia</i>)

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Scientific Program **Friday, 5 July**

MC3

11.30-14.00	Concurrent Session (40B) Recent Advances in Vegetable IPM Chair: Ricardo Oliva (World Vegetable Center, Taiwan)
11.30-11.50	SE40 C04 The potential of trap crops against leafhopper (<i>Amrasca devastans</i>) and whitefly (<i>Bemisia tabaci</i>) on eggplant under field condition in Thailand. Sopana Yule (<i>World Vegetable Center, Thailand</i>)
12.25-12.40	SE40 002 Pest and pesticide management in tomato under mountain region of India. Shiva Shantanu Singh (GB Pant University of Agriculture & Technology, Pantnagar, India)
12.40-12.55	SE40 003 Nutritional management and prediction of tomato leaf curl virus disease. Muhammad Ahmad Zeshan (University Of Sargodha, Pakistan)
12.55-13.10	SE40 004 Integrated pest management of <i>Bemisia tabaci</i> on tomato in cultivation facilities in Taiwan. Feng-Chyi Lin (<i>Taiwan Agricultural Research Institute, Taiwan</i>)
13.10-13.25	SE40 005 Nicotiana benthamiana as dead-end trap plant for whitefly control. Yin-Quan Liu (<i>Zhejiang University, China</i>)
13.25-13.40	SE40 006 Development and validation of a plant disease model for <i>Venturia oleicola</i> in the framework of integrated pest management. Sara Legler (<i>Horta Srl, Italy</i>)
13.40-13.55	SE40 007 The spring wheat in ginghai serves as an important over-summering location

for the stripe rust in China. Chen Wanquan (Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China)



Scientific Program Friday, 5 July

CONFERENCE I

11.30-14.00	Concurrent Session Approach to Integrated Soil and Plant Health Assessments in IPM Systems Chair: Dima Alnajar (Syngenta Group, Switzerland)
11.55-12.20	 SE43 001 On-farm evaluation of crop diversification on pest management and soil fertility in maize-based farming system. Tadele Tefera (International Centre of Insect Physiology And Ecology (ICIPE), Ethiopia)
12.20-12.45	SE43 002 Syngenta Cropwise [®] protector disease risk assessment model for cereal crops. Dima Alnajar (<i>Syngenta Group, Switzerland</i>)
12.45-13.10	SE43 003 Analysis of utilization of crop rotation in maize and beans for healthy plants among farmers in North Central Nigeria.

Oche Emmanuel Ogwuche (College Of Education, Oju, Benue State, Nigeria)

14.00-15.00 Light Lunch - POSTER SESSION

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Scientific Program **Friday, 5 July**

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 Environmnet, 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 <i>Botrytis cinerea</i> and <i>Plasmopara viticola</i> infection. Giulia Scimone (<i>Department of Agriculture, Food and Environment, University of Pisa, Italy</i>)
15.15-15.30	SE44 002 <i>Tanymecus dilaticollis</i> , a major pest of the maize crops in Romania. Georgescu Emil (National Agricultural Research and Developement Institute Fundulea, Romania)
15.30-15.45	SE44 003 Management of white mold of potato with foliar fungicides. Richard Peters (<i>Agriculture and Agri-Food Canada, Canada</i>)
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 <i>Podosphaera xanthii</i> . Nisrine Bakhat (<i>Universidad de Málaga, Spain</i>)
16.15-16.30	SE44 006 Contact unmodified antisense DNA (cuad) biotechnology: oligoucleotide insecticides as the next-generation plant protection product for green agriculture. Vol Oberemok (<i>Molecular Genetics And Biotechnologies, V.I. Vernadsky Crimean Federal University, Russia</i>)
16.30-16.45	SE44 007 Studies on the pathogenicity of fungal based bio-pesticide <i>Metarhizium anisopliae</i>

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 (AgricIture Research Institute Peshawar Pakistan)

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Scientific Program Friday, 5 July

MC2

15.00-17.30	Concurrent Session 45 Xylella Fastidiosa Chair: Anna Maria D'Onghia (Plant Protection, Ciheam Bari, Italy) Maria Holeva (Benaki Phytopathological Institute, Greece)
15.00-15.15	SE45 C01 Precision systems for monitoring <i>Xylella fastidiosa</i> in olive groves. Anna Maria D'Onghia (<i>Plant Protection, Ciheam Bari, Italy</i>)
15.15-15.30	SE45 C02 Ten years of implementation of laboratory testing to prevent entry of <i>Xylella fastidiosa</i> in Greece - results of current diagnostic efforts. Maria Holeva (<i>Benaki Phytopathological Institute, Greece</i>)
15.15-15.30	SE45 C03 The current status of <i>Xylella fastidiosa</i> in the euro-mediterranean region. Maria Saponari (<i>IPSP, CNR, Italy</i>)
15.45-16.00	SE45 C04 Philaenus spumarius: the most polyphagous insect herbivore has become an unforeseen vector of <i>Xylella fastidiosa</i> in Europe. Alberto Fereres (<i>Department of Crop Protection-CSIC, Spain</i>)
16.00-16.15	SE45 C05 Insights into the molecular mechanisms of resistance to <i>Xylella fastidiosa</i> in olives and advances in the breeding programs. Maria Saponari (<i>IPSP, CNR, Italy</i>)
16.15-16.30	SE45 C06 Capacity building and collaboration on <i>Xylella fastidiosa</i> through Euphresco. Giovani Baldissera (<i>Euphresco, France</i>)
16.30-16.45	SE45 C07 Capacity building and networking for <i>Xylella fastidiosa</i> containment in Europe and in third countries: the impact of MSCA H2O2O Cure-XF Project. Maroun El Moujabber (<i>Ciheam Bari, Italy</i>)
16.45-17.00	SE45 C08 ANCoSIX italian project: advancing sustainable and innovative control of <i>Xylella fastidiosa</i> . Franco Valentini (Integrated Pest Management, Ciheam Bari, Italy)
17.00-17.15	 SE45 C09 Defense priming and grapevine immune responses to the xylem-limited bacterium, Xylella fastidiosa. M. Caroline Roper (Microbiology and Plant Pathology, University of California, Riverside, USA)
17.15-17.30	SE45 001 Potential vectors of Xylella fastidiosa in Australia. Piotr Trebicki (Macquarie University, Australia)

Scientific Program **Friday, 5 July**

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 CO2 Using behavior and microbial ecology to help improve surveillance and management programs for stored product insects in a warming world. William R. Morrison III (<i>Center for Grain and Animal Health, USDA-ARS, USA</i>)
15.40-16.00	SE46 CO3 Post Harvest disease management of fresh produced with innovative and eco-friendly solutions. Davide Spadaro (<i>Disafa, University of Turin, Italy</i>)
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 <i>Cryptolestes ferrugineus</i> (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, <i>Sitophilus oryzae</i> (L.). Abhipsa Subhadarsini (<i>Central Agricultural University, India</i>)
16.30-16.40	SE46 004 The use of sigs (spray-induced gene silencing) strategy in the control of <i>Botrytis cinerea</i> 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 <i>Oryzaephilus surinamensis</i> (L.) and <i>Ephestia kuehniella</i> Zeller. Marina Gourgouta (Universtiy 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)



Scientific Program Friday, 5 July

CONFERENCE I

15.00-17.30	Concurrent Session (7) Molecular Plant Microbe Interactions Chair: Nikolaos Mastrodimos (School of Agriculture and Food Science, University College Dublin, Ireland) Anastasia Venieraki (Agricultural University of Athens, Greece)
15.00-15.15	 SE47 001 Characterising a small, secreted, protein from the wheat pathogen Zymoseptoria tritici by ectopic expression in Arabidopsis. Nikolaos Mastrodimos (School of Agriculture and Food Science, University College Dublin, Ireland)
15.15-15.30	SE47 002 Diversity of <i>Bacillus amyloliquefaciens</i> group species secondary metabolites biosynthetic gene clusters involved in plant protection - an evolutionary perspective. Anastasia Venieraki (<i>Agricultural University of Athens, Greece</i>)
15.30-15.45	SE47 003 All pathways lead to degradation: the ubiquitinated relationship of host-pathogen interaction and induced resistance. Theoni Margaritopoulou (<i>Benaki Phytopathological Institute, Greece</i>)
15.45-16.00	SE47 004 <i>Phytophthora sojae</i> boosts host trehalose accumulation to acquire carbon and initiate infection. Yongli Qiao (<i>Shanghai Normal University, China</i>)
16.00-16.15	 SE47 005 Velvet family protein FPVELB affects virulence in association with secondary metabolism in <i>Fusarium pseudograminearum</i>. Yuxing Wu (Institute of Plant Protection, Hebei Academy of Agricultural and Forestry Sciences, China)
16.15-16.30	 SE47 006 XOPG2 effector of Xanthomonas campestris pv. campestris is a major race 5 determinant. Najeeb Ullah (School of Life Sciences, University of Warwick, UK)
16.30-16.45	SE47 007 Beneficial Pseudomonas hijacks plant-wide transcription to induce coumarin- dependent systemic resistance. Hsu Shu-hua (<i>Plant-Microbe Interactions, Utrecht University, The Netherlands</i>)
16.45-17.00	SE47 008 Investigating the early response of pepper against potato virus Y. Venetia Psarra (<i>Benaki Phytopathological Institute, Greece</i>)
17.00-17.10	SE47 009 Mining the effect of biostimulants and Plant Protection Products (PPPS) on cannabis (<i>Cannabis sativa</i>) metabolism applying metabolomics. Christos Kerezoudis (<i>Agricultural University of Athens, Greece</i>)
17.10-17.20	SE47 010 In planta investigation of the mechanism of action of a <i>Bacillus</i> sp. endophyte applying metabolomics.

Evgenia-Anna Papadopoulou (Agricultural University of Athens, Greece)

17.30-18.00 Coffee Break - POSTER SESSION

Numerical States

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Scientific Program **Friday, 5 July**

BANQUET

18.00-20.30	Concurrent Session 48 Phytoplasmas and Viroids in World Agriculture Chair: Assunta Bertaccini (Alma Mater Studiorum University of Bologna, Italy)
18.00-18.30	SE48 C01 Citrus viroids: friends or foes? Georgios Vidalakis (Microbiology & Plant Pathology, University of California Riverside, USA)
18.30-19.00	 SE48 C02 Phytoplasma associated diseases: the tip or the bottom of plant pathology iceberg? Assunta Bertaccini (Alma Mater Studiorum University of Bologna, Italy)
19.00-19.30	SE48 CO3 Deciphering the interactions between pospiviroids and their hosts. Kriton Kalantidis (Department of Biology, University of Crete, Greece)
19.30-20.00	SE48 001 Phytoplasma-induced witches' broom disease of lime: characterization and management. Abdullah Al-Sadi (<i>Sultan Qaboos University, Oman</i>)

20.30-21.00 Closing ceremony

Plant Protection Congress Healthy Plants Support Human Welfare



Scientific Program Friday, 5 July

SKALKOTAS

18.00-20.30	Concurrent Session 49 Endophytes as Bioinsecticides
	Chair: Spiridon Mantzoukas (Department of Agriculture, University of Ioannina, Greece)
18.00-18.20	SE49 C01 Endophytic entomopathogenic fungi: past, present and future prospects. Spiridon Mantzoukas (<i>Department of Agriculture, University of Ioannina, Greece</i>)
18.20-18.40	SE49 CO2 Search of endophytic entomopathogenic fungi from suburban green spaces in Achaia. Ioannis Lagogiannis (Department of Pharmacy, University of Patras, Greece)
	Tournis Lagogiannis (Department of Fnamacy, oniversity of Fattas, orece)
19.40-19.00	 SE49 C03 Entomopathogenic fungal endophytes. Their diversity in Greece. Z. Gonou-Zagou (Department of Biology, National & Kapodistrian University of Athens, Greece)
19.00-19.20	SE49 CO4 Effects of the entomopathogenic endophyte <i>Beauveria bassiana</i> on growth and photosynthetic performance of three <i>Brassica oleracea</i> varieties. Foteini Kitsiou (<i>Department of Biology, University of Patras, Greece</i>)
19.20-19.40	SE49 C05 Endophytes: entomopathogenic fungi as an emerging biological control agents of forest and agricultural plant. Panos V. Petrakis
19.40-20.00	SE49 C06 Endophytic endomopathogenic fungi: what comparative genomics of <i>Metarhizium brunneum</i> reveal.

Vassilis Kouvelis (National and Kapodistrian University of Athens, Greece)



Scientific Program **Friday, 5 July**

MC2

18.00-20.30 Concurrent Session 50

This session is combined with session 31



Scientific Program **Friday, 5 July**

MC3

18.00-20.30	Concurrent Session 5 Interactions between Plant Protection and Pollinators Chair: Fani Hatjina (Department of Apiculture, ELGO DIMITRA, Greece) Antonios Tsagkarakis (Agricultural University of Athens, Greece)
18.00-18.25	SE51 C01 Chronic exposure effects of sufloxaflor and imidacloprid under laboratory and field conditions. Fani Hatjina (<i>Department of Apiculture, ELGO DIMITRA, Greece</i>)
18.25-18.50	SE51 CO2 Honeybees as multirole agents in orange tree orchards. Antonios Tsagkarakis (<i>Agricultural University of Athens, Greece</i>)
18.50-19.10	SE51 C03 Exploring pollination services through a supply-demand approach. Giorgio Sperandio (Dipartimento di Scienze Agrarie, Alimentari e Ambientali, Department of Agricultural, Food and Environmental Sciences, Marche Polytechnic University, Italy)
19.10-19.30	SE51 CO4 A modelling tool supporting sustainable beekeeping management practices. Andrea de Francesco (University of Brescia, Italy)
19.30-19.50	SE51 C05 The health status index: a holistic tool for the sustainable beekeeping. Anna Simonetto (Department of Civil, Environmental, Architectural Engineering and Mathematicsa E Di Matematica, University of Brescia, Italy)

Scientific Program Friday, 5 July

CONFERENCE I

18.00-20.30	Concurrent Session 52 Frost Damage Mitigation Strategies for Crops, Organized by Project LIFE- FROSTDEFEND
	Chair: Dimitris Georgakopoulos (Department of Crop Science Laboratory of General and Agricultural Microbiology, Agricultural University of Athens, Greece)
18.00-18.25	SE52 CO1 Another way to reduce the risk of frost by monitoring and maintaining moist soils close to field capacity. Jean-François Berthoumieu (ACMG, France)
18.25-18.50	SE52 CO2 The life-frostdefend project: creation of a forecasting tool for frost damage risk and mitigation actions for tree crops. Dimitrios Georgakopoulos (Department of Crop Science Laboratory of General and Agricultural Microbiology, Agricultural University of Athens, Greece)
18.50-19.15	SE52 C03 Developing frost risks indicators for apricot trees. Lia Lamacque (INRAE, France)
19.15-19.40	\$E52 CO4 Strategies and factors facilitating the reduction of bacterial ice nuclei on plants for the control of frost injury to sensitive plants. Steven E. Lindow (University of California, Berkeley, USA)
19.40-20.05	\$E52 C05 Epiphytic and aerial ice nucleation active bacteria in lemon tree orchards. Khalil Geballa Koukoulas (<i>Agicultural University of Athens, Greece</i>)
20.05.20.20	CEE2 COC Lindenstein die einstein alle ersteilitete in siteren service station attacker lass

20.05-20.30 **SE52 C06** Understanding frost vulnerability in citrus crops: exploring the interplay of plant susceptibility and ice-nucleating bacteria. Nicolas Dusart (INRAE, France)



POSTERS



POO 1	COLLETOTRICHUM EPIDEMIOLOGY IN OLIVE ORCHARDS FROM THE REGION OF PREVEZA, GREECE AND EFFECT OF FUNGICIDE APPLICATION ON PATHOGEN SURVIVAL Patsis G., Verdos G., Tsitsigianni A., <u>Tzima A.</u> , Paplomatas E. Plant Pathology Laboratory, Department of Crop Science, Agricultural University of Athens
P002	THE LANDSCAPE AS AN ESSENTIAL FRAMEWORK FOR A MORE EFFECTIVE IPM: TWO EXAMPLES IN FIELD AND PROTECTED CROPS <u>Albajes R.</u> , Clemente G., Ardanuy A., Lee M. <i>Agrotecnio University Of Lleida</i>
P003	 THE EFFECT OF CHITOSAN ON THE INFECTION AND DISEASE OF ZUCCHINI PLANTS CAUSED BY CUCUMBER MOSAIC VIRUS Christofi A.¹, Stylianidis G.^{2,3}, Strepkou N.², Papadopoulos G.⁴, Bouranis D.^{2,5}, Winter S.⁶, Chatzivassiliou E.¹ 1. Plant Pathology Laboratory, Department of Crop Science, Agricultural University of Athens, 2. Plant Physiology & Morphology Laboratory, Department of Crop Science, Agricultural University of Athens, 3. Karvelas AVEE, 4. Institute for Design and Analysis of Experiments, University Research Center, Agricultural University of Athens, 5. PlanTerra Institute for Plant Nutrition & Soil Quality, Agricultural University of Athens, 6. Plant Virus Department, Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures
P004	SOIL SOLARIZATION EFFICIENTLY REDUCES FUNGAL SOILBORNE PATHOGENS' POPULATION, PROMOTES LETTUCE PLANT GROWTH AND AFFECTS THE SOIL BACTERIAL COMMUNITY Tziros G., Samaras A., <u>Karaoglanidis G.</u> Aristotle University
P005	DEEP LEARNING-BASED DIAGNOSIS OF LEAF WITH PEST DAMAGE DURING VEGETABLE SEEDLING PRODUCTION Yu G., Kwon D. Major in Vegetable Crops, Division of Horticulture, Korea National University of Agriculture and Fisheries
P006	EVALUATION OF LINALOOL AND EUGENOL AGAINST TUTA ABSOLUTA AND OTHER PESTS Misailidou C., Dervisoglou S., <u>Perdikis D.</u> Agricultural University of Athens
P007	EFFECT OF MICROORGANISMS AND RESISTANCE INDUCERS AGAINST RACE 1 OF FUSARIUM OXYSPORUM F. SP. LACTUCAE IN A CLOSED SOILLESS SYSTEM Gilardi G. ¹ , Garibaldi A. ¹ , <u>Gullino M.²</u> 1. University of Torino - Agroinnova, 2. International Agricultural Festival Coltivato and AgriNewTech
P008	SEQUENTIAL APPLICATION OF DIMPROPYRIDAZ (AXALION®) AND BEAUVERIA BASSIANA PPRI 5339 (VELIFER®) FOR EFFECTIVE CONTROL OF BEMISIA TABACI IN TOMATO CROPS Rivera-Alonso E., González-Zamora J., Avilla C., Sanz-Gomez J. Basf Española S.I.
P009	ESSENTIAL OILS ON THE CONTROL OF SWISS CHARD AND SPINACH LEAF MINING FLIES Sperandio G. ¹ , Battistelli M. ¹ , Abulebda A. ¹ , Corsi L. ¹ , Meacci S. ¹ , Ruschioni S. ¹ , Fraternale D. ² , Semprucci F. ² , Guidi L. ² , Grassi E. ² , Riolo P. ¹ 1. Department of Agricultural, Food and Environmental Sciences, Marche Polytechnic University, 2. Department of Biomolecular Sciences, University of Urbino Carlo Bo
P010	MAKING A PREDATOR BETTER SUITED TO AGROSYSTEMS: PESTICIDE RESISTANCE OF NESIDIOCORIS TENUIS REUTER (HETEROPTERA: MIRIDAE) Paspati A., Karakosta E., Malliaraki S., Ilias A., <u>Tsagkarakou A.</u> Hellenic Agricultural Organization-DIMITRA



PO11	A MICROBIOME STUDY ON HEALTHY AND PHYTOPHTHORA CRYPTOGEA-INOCULATED
	LETTUCE
	Vlasselaer L., Crauwels S., Lievens B., <u>De Coninck B.</u> KU Leuven
P012	NEW METHODS FOR EVALUATING E-PROBE DETECTION PERFORMANCE IN MICROBIOME DATA: A CASE STUDY OF NITROBACTER HAMBURGENSIS IN WINTER WHEAT SOIL Ramos Lopez D., Espindola A. Oklahoma State University
PO13	MICROBIAL INDUCTION OF PLANT RESILIENCE TO DROUGHT STRESS (MICRORES) <u>Nuijten P.</u> ^{1,2,3,4} , Rodriguez Gonzalez M. ^{1,2,3,4} , Guerrero-Egido G. ^{1,2,3,4} , Balazadeh S. ¹ , Raaijmakers J. ² , Carrion Bravo V. ^{1,2,3,4} 1. Institute of Biology, Leiden University, 2. Department of Microbial Ecology, Netherlands Institute of Ecology (NIOO-KNAW), 3. Departamento de Microbiología, Facultad de Ciencias, Universidad de Málaga, 4. Departamento de Protección de Cultivos, Instituto de Hortofruticultura Subtropical y Mediterránea "La Mayora"
P014	DIFFERENTIAL RESPONSES OF TOMATO MONEYMAKER AND WILD RELATIVES TO THE SOILBORNE PATHOGEN VERTICILLIUM DAHLIAE
	Paraskevopoulou D. 1, Dalas S. ² , Massas I. ² , Stringlis I. ¹ 1. Laboratory of Plant Pathology, Agricultural University of Athens, Greece, 2. Laboratory of Soil Science and Agricultural Chemistry, Agricultural University of Athens, Greece
PO15	EVALUATING GENERAL SUPPRESSIVENESS OF BIOCHAR WITH ORGANIC AMENDMENTS IN CONJUNCTION WITH SOIL MICROBES AGAINST BACTERIAL WILT OF TOMATO <u>Sasada Y.</u> ¹ , Nishida R. ² , Sano T. ² , Xu H. ² , Fujiwara K. ¹ <i>1. Meijo University, 2. TOWING Co., Ltd.</i>
P016	REDUCTION OF WATERCORE OCCURRENCE IN APPLE BY APPLICATION OF CALCIUM AND BORON COMPONDS Chang T. Kyungpook National University
P017	STRATEGIES FOR SELECTING POTENTIALLY EFFECTIVE BIOFUMIGANT SPECIES FOR OPTIMAL BIOFUMIGATION OUTCOMES Arroyo J., Soler J., <u>Palmero D.</u> Universidad Politécnica De Madrid
P018	SPECTRAL ANALYSIS FOR CEREAL LEAF BEETLE DETECTION IN WINTER WHEAT: TOWARDS PRECISION PEST MANAGEMENT Skendzic S. ¹ , Novak H. ² , Zovko M. ¹ , Pajač Živković I. ¹ , Lešić V. ² , Maričević M. ³ , Lemić D. ¹ 1. University of Zagreb Faculty of Agriculture, 2. University of Zagreb Faculty of Electrical Engineering and Computing, 3. BC Institute, D.D.
P019	BARBERRY DECREASE EMERGENCE OF NEW RACES AND POPULATION GENETIC DIVERSITY OF THE WHEAT STRIPE RUST PATHOGEN AFTER FUNGICIDE TREATMENT Li Z., Chen X., Xu J., Liu F., Bian Y., Du Z., Zhao Y., Kang* Z., Zhao* J. State Key Laboratory for Crop Stress Resistance and High-Efficiency Production, College of Plant Protection, Northwest A&F University
P020	USE OF SALICYLIC ACID-LOADED CHITOSAN NANOPARTICLES FOR THE MANAGEMENT OF CUCURBIT POWDERY MILDEW <u>Akrivou A.</u> ^{1,2} , Madesis P. ¹ , Beris D. ² , Tsiriva D. ³ , Anagnostopoulos C. ² , Markellou E. ² 1. Department of Agriculture Crop Production and Rural Environment, University of Thessaly, 2. Benaki Phytopathological Institute, 3. Phytorgan SA
P021	EFFICACY SCREENING OF DIFFERENT FORMULATES BASED ON ESSENTIAL OILS AGAINST GRAPEWINE DOWNY MILDEW Fittipaldi Broussard M., Furiosi M., Caffi T. Università Cattolica Del Sacro Cuore



P022	HARNESSING NATIVE BIOAGENTS FOR SUSTAINABLE MANAGEMENT OF FALL ARMYWORM
	<u>Frimpong-Anin K.</u> , Amoabeng W. B., Danso Y., Asamoah F. J., Agyekum A., Agodzo Asabea B., Abban D., Mochiah B. M. <i>CSIR-Crops Research Institute</i>
P023	MIXED INSECT PEST POPULATIONS OF DIASPIDIDAE SPECIES UNDER CONTROL OF OLIGONUCLEOTIDE INSECTICIDES Gal'chinsky N. ¹ , Yatskova E. ² , Novikov I. ¹ , Useinov R. ¹ , Sharmagiy A. ² , Laikova Y. ¹ , Plugatar Y. ² , Oberemok V. ¹ 1. V.I. Vernadsky, 2. Nikita Botanical Gardens
P024	 PREVENTIVE POTENTIAL OF COLORED-FLESHED POTATO EXTRACTS AGAINST THE PATHOGEN RHIZOCTONIA SOLANI IN POTATO CROPS <u>Gómez F.</u>^{1,2}, Valencia S.¹, Rivas S.^{1,2}, Gonzáles F.^{1,3}, Contreras B.⁴, Santos C.¹, Ruiz A.¹ 1. Departamento de Ciencias Químicas y Recursos Naturales, Scientific and Technological Bioresource Nucleus BIOREN-UFRO, Universidad de La Frontera, 2. Doctorado en Ciencias de Recursos Naturales, Universidad de La Frontera, 3. Doctorado en Ciencias Mención Biología Celular y Molecular Aplicada, Universidad de La Frontera, 4. Novaseed Ltd.a. and Papas Arcoiris Ltd.a., Loteo Pozo de Ripio s/n, Parque Ivian II
P025	GENERATION OF A HIGHLY EFFECTIVE BIOFUNGICIDE, BASED ON GRAPEVINE BY- PRODUCT RESIDUES, FOR THE CONTROL OF RHIZOCTONIA SOLANI IN POTATO CROPS Gómez F. ^{1,2} , Bravo C. ¹ , Vera E. ³ , Sepulveda M. ^{1,2} , Contreras B. ⁴ , Santos C. ¹ , Ruiz A. ¹ <i>1. Departamento de Ciencias Quí micas y Recursos Naturales, Scientific and Technological Bioresource</i> <i>Nucleus BIOREN-UFRO, Universidad de La Frontera, 2. Doctorado en Ciencias de Recursos Naturales,</i> <i>Universidad de La Frontera, 3. Carrera de Química y Farmacia, Facultad de Medicina, Universidad de La</i> <i>Frontera, 4. Novaseed Ltd.a. and Papas Arcoiris Ltd.a., Loteo Pozo de Ripio s/n, Parque Ivian II</i>
P026	PHYTOPHTHORA CINNAMOMI INHIBITION BY PHENYLACETIC ACID: MECHANISM OF ACTION AND ITS ISOLATION FROM TRICHOMONASCUS VANLEENENIUS CULTURES. Fernández-Calleja L., Villar C, Lombó F. University Of Oviedo
P027	ALTERNATIVE PLANT PROTECTION STRATEGY FOR STRAWBERRY DISEASE CONTROL Rasiukeviciute N., Lanauskas J., Mazeikiene I., Valiuskaite A. LAMMC Institute of Horticulture
P028	FIELD TRIALS TO TEST EFFICACY AND SIDE EFFECTS OF NOVEL BIOINSECTICIDES ON BEMISIA TABACI Sabarit B., Gilarte P., Sánchez-Barranco C., López G., Martínez-Gait <u>á</u> n C. Fundación Tecnova, Parque Tecnológico (PITA), Avda. De la Innovación 23
P029	PROFILING RICE FARMS FOR THE OCCURRENCE OF MAJOR DISEASES AT DIFFERENT GROWTH STAGES IN THE ASHANTI REGION OF GHANA Aidoo A., Frimpong-Anin K., Mochiah M., Asamoah J., Arthur S., Kota W., Appiah-Kubi Z., Amoabeng B., Awarikabey E., Dawood A., Kaba C., Ohene-Mensah G., Kwodane M. CSIR-Crops Research Institute
P030	CORRELATION BETWEEN TETRALINIPROLE RESISTANCE AND RYANODINE RECEPTOR MUTATIONS IN LABORATORY-SELECTED STRAIN AND FIELD POPULATIONS OF PLUTELLA XYLOSTELLA IN TAIWAN Dai S., Pudasaini R., Chang C. National Chung Hsing University
PO3 1	INSECT PEST POPULATION DYNAMICS IN RICE: A CASE IN ASHANTI REGION OF GHANA Frimpong-Anin K., Amoabeng W.B., Awarekabey N.E., Aidoo snr. A., Asamoah F.J., Kota L.W., Arthur S., Obeng P., Gyamfi M., Agyekum A., Mochiah B.M. CSIR-Crops Research Institute



P032	EVIDENCE FOR THE PARTICIPATION OF CHEMOSENSORY PROTEINS IN RESPONSE TO INSECTICIDE CHALLENGE IN CONOPOMORPHA SINENSIS Yao Q., Duan S., Li W., Dong Y., Xu S., Chen B. Plant Protection Research Institute, Guangdong Academy of Agricultural Sciences
P033	RISKS FOR MICRONUTRIENT LOSSES DUE TO VECTOR-BORNE PLANT VIRUSES OF NUTRITIOUS CROPS IN SUB-SAHARAN AFRICA Ockendon-Powell N. 1, Papadaki A., Bernie D. University of Bristol
P034	RESISTANCE MECHANISMS TO GLYPHOSATE AND GLUFOSINATE IN ELEUSINE INDICA <u>Zhang C.</u> ¹ , Tian X. ¹ , Han H. ² , Patterson E. ³ , Yu Q. ² 1. Institute Of Plant Protection, Guangdong Academy Of Agricultural Sciences, 2. Australian Herbicide Resistance Initiative (AHRI), University of Western Australia, 3. Michigan State University, USA
P035	TOMATO LEAF CURL NEW DELHI VIRUS AS AN EMERGING PATHOGEN OF GREEK CUCURBITS Chatzivassiliou E. ¹ , <u>Christofi A.</u> ¹ , <u>Kosenaki S.</u> ¹ , <u>Kontosfyri M.</u> ¹ , <u>Winter S.</u> ² 1. Plant Pathology Laboratory, Department of Crop Science, Agricultural University of Athens, 2. Plant Virus Department, Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures
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P08IVS	ASSESEMENT OF THE CYTOTOXIC ACTIVITY OF VDNEP, A VERTICILLIUM DAHLIAE ELICITOR, VIA A VIRUS-BASED HOST INDUCED GENE SILENCING APROACH Tsoukas C., Vourtoura I., Triantafyllopoulou A., Paplomatas E. Laboratory of Plant Pathology, Department of Crop Science, Agricultural University Of Athens
P09IVS	RAPID BARE EYE DETECTION OF THE SOILBORNE PATHOGEN VERTICILLIUM DAHLIAE IN TOMATO PLANTS USING LOOP MEDIATED ISOTHERMAL AMPLIFICATION Patsis G., <u>Striliga K.</u> , Tzima A., Paplomatas E. Agricultural University Of Athens
P10IVS	STUDYING THE TRANS-KINGDOM RNAI PHENOMENON IN VERTICILLIUM NONALFALFAE- HOP PATHOSYSTEM Jeseničnik T. Biotechnical Faculty, University In Ljubljana
P11IVS	IN VITRO ACTIVITY OF ESSENTIAL OILS AGAINST VERTICILLIUM DAHLIAE Marilita Gallo ¹ , Vanessa Lahoud ¹ , Mariangela Carlucci ² , Franco Valentini ¹ , Anna Maria D'Onghia ¹ and <u>Franco Nigro²</u>
	1. Centre International de Hautes Etudes Agronomiques Méditerranéennes Bari (CIHEAM Bari), Via Ceglie 70010,9 Valenzano, Bari, Italy, 2. Department of Soil, Plant, and Food Sciences (Di.S.S.P.A.), University of Bari - Aldo Moro 70126, Bari, Italy



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Professor Alberto Fereres, PhD,

Spanish National Research Council/CSIC, and Department of Crop Protection/ICA, Spain

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Professor João Roberto Spotti Lopes, PhD, University of São Paulo Entomology and Acarology/ESALQ Brazil

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GENERAL INFORMATION



General Information

Date & venue

July 1st - 5th, 2024 Megaron Athens Concert Hall International Conference Centre Vas. Sofias & Kokkali 115 21 Athens Tel: +30 210 7282000 Website: https://www.megaron.gr/en/international-conference-centre/

Website

www. lppcathens2024.gr

Official language

English will be the official language of the meeting.

Congress badge

It is mandatory for the delegates to show their meeting's badge at the entrance of the congress hall.

Meeting's hall presentations

Available audiovisual equipment for all presentations will be through power point presentation. Presentations must be delivered to the technical secretariat at least 45 minutes before the beginning of the session. The use of personal computers will not be feasible.

Exhibition

Within the Congress area there will be an exhibition of companies.

Congress secretariat



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