



IMPPC2023 PROGRAM

2nd INTERNATIONAL
**Molecular
Plant Protection
Congress**

May 15-18, 2023 ORHANGAZI • BURSA



IMPPC2023 PROGRAM

15 MAY 2023 MONDAY

10:00-17:30 REGISTRATION *Main Entrance*

10:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)

12:00 DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)

14:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)

16:00 DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)

17:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)








18:00 **FINAL DEPARTURE FROM HOTELS TO CONGRESS CENTER** 

19:30-21:30 WELCOME COCTAIL & OPENING OF HEKTAŞ AGRICULTURE AND SCIENCE MUSEUM

21:30 DEPARTURE FROM CONGRESS CENTER TO HOTELS 

22:00 DEPARTURE FROM CONGRESS CENTER TO HOTELS 

22:30 **FINAL DEPARTURE FROM CONGRESS CENTER TO HOTELS** 

16 MAY 2023 TUESDAY				
08:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER 				
08:30 DEPARTURE FROM HOTELS TO CONGRESS CENTER 				
09:00 FINAL DEPARTURE FROM HOTELS TO CONGRESS CENTER 				
08:30-17:30 REGISTRATION <i>Main Entrance</i>				
08:30-17:30 Posters should be attached to the boards.				
10:30-12:00 OPENING CEREMONY <i>Main Hall</i>				
12:00-13:30 LUNCH 				
12:15 DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)				
14:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)				
13:30-15:00 OPENING LECTURE <i>Main Hall</i> O1. Honorary Lecture: "A Worms tale: From mysteries of inheritance to new technologies for medicine and agriculture" <i>Craig Mello, University of Massachusetts, USA</i> Moderator: Umut Toprak				
15:00-15:30 COFFEE BREAK 				
15:30-16:40 PLANT MYCOLOGY 1 SESSION 1 <i>Hall 2</i> Moderators: Dolores Fernández Ortuño Yusuf Yanar	15:30-16:50 PLANT VIROLOGY 1 SESSION 2 <i>Hall 4</i> Moderators: Hanu R. Pappu Kadriye Çağlayan	15:30-16:50 PLANT NEMATOLOGY 1 SESSION 3 <i>Hall 3</i> Moderators: Sophie Mantelin Shinichiro Sawa	15:30-17:00 WEED SCIENCE 1 SESSION 4 <i>Hall 5</i> Moderators: Dana R. MacGregor James H. Westwood	15:30-17:00 ENTOMOLOGY 1 SESSION 5* <i>Main Hall</i> Moderator: Craig Mello * Sponsored by The Royal Entomological Society
15:30-15:50 O2. Li-Jun Ma-KEY "Genome compartmentalization and fungal pathogenesis"	15:30-15:50 O7. Heiko Ziebell-KEY "The importance of plant health in a global world"	15:30-15:50 O13. Pierre Abad-KEY "Epigenetic signatures associated with nematode adaptation to plant resistance"	15:30-15:50 O17. Jonathan Gressel-KEY "A novel approach to pesticide discovery that better confronts resistance: Inhibitors that target protein-protein interactions"	15:30-15:50 O23. Ken Narva-KEY "Discovery, development and commercialization of RNA-based biopesticides"
15:50-16:10 O3. Hailing Jin-KEY "Cross-kingdom RNA trafficking between plants and fungal pathogens"	15:50-16:10 O8. Alex Murphy-KEY "Disruption of insect mediated transmission of plant viruses"	15:50-16:10 O14. Sebastian Eves-van den Akker-KEY "AI-powered holistic and dynamic pathology to deliver new sources of resistance"	15:50-16:10 O18. Baruch Rubin-KEY "Herbicide-resistant weeds are a threat to the sustainability of arable farming"	15:50-16:10 O24. Steve Whyard-KEY "Alternative structured double-stranded RNAs can enhance RNAi in insects"
16:10-16:20 O4. Abdullah Al-Sadi "Fungal and bacterial antagonists from deserts show high efficacy in the management of <i>Pythium aphanidermatum</i> -induced diseases in tomatoes and cucurbits"	16:10-16:20 O9. Serpil Erilmez "Genetic diversity of Cucumber mosaic virus infecting pepper in Türkiye"	16:10-16:30 O15. Godelieve Gheysen-KEY "Transgenic East African highland banana plants are protected against <i>Radopholus similis</i> through host-delivered RNAi"	16:10-16:30 O19. Scott Baerson-KEY "Exploiting allelopathy for biotechnology-derived weed control!" WITHDRAWN	16:10-16:30 O25. Gregor Bucher-KEY "The quest for the best dsRNA target sequences for pest control by a genome wide screen"
16:20-16:30 O5. İlker Kurbetli " <i>Phytophthora dianthi</i> sp. nov., a new species causing root rot and vascular necrosis of carnation in Türkiye"	16:20-16:30 O10. Nihan Güneş-STU "Determination of PVY resistance and expression of resistance associated genes in tomato plants"			
16:30-16:40 O6. Gürkan Başbağcı "Molecular characterization of <i>Rhizoctonia</i> species associated with chickpea in Türkiye"	16:30-16:40 O11. Muhammad Shafiq Shahid "Native and non-native <i>Bemisia tabaci</i> B haplotype whiteflies are implicated in the spread of endemic and introduced begomoviruses in Oman"	16:30-16:50 O16. Michael Jones-KEY "RNAi vs. Gene-editing for plant nematode resistance?"	16:30-16:40 O20. Nedim Mutlu "Development of resistance against Broomrape (<i>Orobanche</i> Spp., <i>Phelipanche</i> Spp.) using Crispr-Cas9 technology in tomato (<i>Solanum lycopersicum</i>)"	16:30-16:40 O26. Umut Toprak "The mystery of the self-cannibalize heroes: Silencing Autophagy related 1 (ATG1) and Autophagy related 8 (ATG8) in <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae)"

	<p>16:40-16:50 O12. Mohamad Chikh-Ali "The dynamics of PVY infection during the growing season of the San Luis Valley, Colorado"</p>		<p>16:40-16:50 O21. Bahadır Şin-STU "Determination of the resistance status of wild mustard (<i>Sinapis arvensis</i> L.) collected from wheat cultivation areas in Amasya, Çorum, Tokat and Yozgat provinces against Tribenuron methyl by molecular methods"</p>	<p>16:40-16:50 O27. Solmaz Ghanbari-STU "Can Insulin-like peptide 1a (ILP1a) and Insulin-like peptide 4 (ILP4) be good potential targets for RNAi-based pest control in <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae)?"</p>
			<p>16:50-17:00 O22. Esra Çiğnitaş-STU "Molecular identification of <i>Fusarium</i> spp. on infected broomrape (<i>Phelipanche</i> spp.) seeds"</p>	<p>16:50-17:00 O28. İdil Osan-STU "The regulation of lipid metabolism in <i>Leptinotarsa decemlineata</i> (Coleoptera: Chrysomelidae) through RNAi: Insights from gene silencing experiments"</p>
<p>17:30 DEPARTURE FROM CONGRESS CENTER TO HOTELS 🚌</p>				
<p>19:00-21:00 SESSION 6 "The entrepreneur Street"* F.A.R.M. Square O29. Pam Marrone-KEY Co-founder & Executive Chair, Invasive Species Corporation "Pursuing biologicals for pest management and plant health: A lifelong entrepreneurial journey" Moderator: Umut Toprak * Beverage & Snacks are complimentary</p>				
<p>21:30 DEPARTURE FROM CONGRESS CENTER TO HOTELS 🚌</p>				
<p>22:30 FINAL DEPARTURE FROM CONGRESS CENTER TO HOTELS 🚗</p>				

17 MAY 2023 WEDNESDAY

07:30 DEPARTURE FROM HOTELS TO CONGRESS CENTER 




08:00 FINAL DEPARTURE FROM HOTELS TO CONGRESS CENTER 




<p>08:30-10:00 PLANT MYCOLOGY 2 SESSION 7 Hall 2 Moderators: Dwayne Hegedus Pervin Kınay Teksür</p>		<p>08:30-10:00 PLANT VIROLOGY 2 SESSION 8 Hall 4 Moderators: Bayram Çevik Alex Murphy</p>	<p>08:30-10:00 PLANT BACTERIOLOGY 1 SESSION 9 Hall 3 Moderators: Gitta Coaker Ian Dubery</p>	<p>08:30-09:50 ENTOMOLOGY 2 SESSION 10 Main Hall Moderators: Subba Reddy Palli Dürdane Yanar</p>
<p>08:30-08:50 O30. Mark Belmonte-KEY "Using RNA interference to protect crops against fungal pathogens"</p>		<p>08:30-08:50 O36. Hanu R. Pappu-KEY "Host-Virus interactions in the omics era: What is the host telling us?"</p>	<p>08:30-08:50 O43. Jacob Malone-KEY "Pan-genome analysis identifies intersecting roles for <i>Pseudomonas</i> specialized metabolites in potato pathogen inhibition"</p>	<p>08:30-08:50 O49. John Vontas-KEY "Functional approaches for elucidating insecticide resistance mechanisms"</p>
<p>08:50-09:10 O31. Mahmut Tör-KEY "Control of downy mildew pathogens using spray induced gene silencing"</p>		<p>08:50-09:10 O37. Fernando Garcia-Arenal-KEY "Virus emergence, host range evolution and crop resistance durability"</p>	<p>08:50-09:10 O44. Robert Jackson-KEY "Different mobile genetic elements influence pathogen evolution"</p>	<p>08:50-09:10 O50. Ralf Nauen-KEY "Characterization, impact and spread of diamide insecticide resistance in lepidopteran pests with special reference to ryanodine receptor alterations"</p>
<p>09:10-09:30 O32. Dolores Fernández Ortuño-KEY "RNAi strategy, an alternative to conventional fungicides for the control of Botrytis and the cucurbit powdery mildew diseases?"</p>		<p>09:10-09:20 O38. Kadriye Çağlayan "Elucidate genetic diversity of Raspberry bushy dwarf virus (RBDV) in <i>Rubus</i> spp. in Türkiye"</p>	<p>09:10-09:30 O45. Monica Höfte-KEY "Toxin-producing <i>Sarocladium</i> and <i>Pseudomonas</i> spp. associated with rice: Mutualists or parasites?"</p>	<p>09:10-09:30 O51. Thomas Van Leeuwen-KEY "Transcriptional regulation of detoxification in the polyphagous arthropod pest <i>Tetranychus urticae</i>"</p>
		<p>09:20-09:30 O39. Bengi Topkaya "Analysis of Citrus chlorotic dwarf-associated virus (CCDaV)- Citrus interactions"</p>		
<p>09:30-09:40 O33. Mümin İbrahim Tek-STU "CRISPR based gene-drive strategy for engineering of disease resistance in plants"</p>		<p>09:30-09:40 O40. Başak Ulaşlı "Molecular characterization of <i>Colomerus vitis</i> (pgst.) (Acarina: Eriophyidae) and their potential role as vector of grapevine pinot gris virus (GPGV) In Turkish vineyards"</p>	<p>09:30-09:40 O46. Gamze Bölük-Sarı-STU "Three novel species into Pectobacteriaceae family from Hawaii (<i>Pectobacterium colocasium</i> sp. nov., <i>Pectobacterium hawaiiense</i> sp. nov. and <i>Dickeya colocasiae</i> sp. nov.)"</p>	<p>09:30-09:40 O52. Emre İnak "Greenhouse trials and screening of target-site mutations of <i>Bemisia tabaci</i> populations in Türkiye"</p>
<p>09:40-09:50 O34. Elifgöl Aksu-STU "Functional analysis of candidate effector PTTG_06852 of wheat leaf rust fungi by rna silencing"</p>		<p>09:40-09:50 O41. Nevin Akdura "Revealing the apple virome using HiPlex technology in Hakkari, Türkiye"</p>	<p>09:40-09:50 O47. Yasemin Bektaş "Seed priming activity of β-aminobutyric acid (Baba) against <i>Clavibacter michiganensis</i> ssp <i>michiganensis</i> (Cmm) in tomato (<i>Solanum lycopersicum</i> L.)"</p>	<p>09:40-09:50 O53. Marcus Guest "The evolving roles of worm and moth genetics In pesticide discovery"</p>
<p>09:50-10:00 O35. İlayda Küçük-STU "Functional analysis of effector candidate PTTG_01827 of wheat brown rust by gene silencing"</p>		<p>09:50-10:00 O42. Songül Yalçın Ateş "Optimisation of degenerate primers for detection of Peach latent mosaic viroid (PLMVd) analysis by RT-qPCR"</p>	<p>09:50-10:00 O48. Mine Saraçoğlu "Isolation and identification of bacterial diseases in Central Anatolia Region onion (<i>Allium cepa</i> L.) cultivation areas and onion storages and pathogenicity studies"</p>	



10:00-10:30 COFFEE BREAK




















<p>10:30-11:40 PLANT MYCOLOGY 3 SESSION 11 Hall 2 Moderators: Aziz Karakaya Nichola Hawkins</p>	<p>10:30-12:10 PLANT VIROLOGY 3 SESSION 12 Hall 4 Moderators: Özer Elibüyük Elizabeth Fontes</p>	<p>10:30-12:00 PLANT BACTERIOLOGY 2 SESSION 13 Hall 3 Moderators: Robert Jackson Monica Höfte</p>	<p>10:30-11:50 WEED SCIENCE 2 SESSION 14 Hall 5 Moderators: Jonathan Gressel Scott Baerson</p>	<p>10:30-11:30 ENTOMOLOGY 3 SESSION 15 Main Hall Moderators: Kostas D Mathiopoulos Ping Wang</p>
<p>10:30-10:50 O54. Robert Brueggeman-KEY "Rpt5 encodes a receptor-like protein that provides the broadest and most effective net form net blotch (<i>Pyrenophora teres f. teres</i>) resistance in barley"</p>	<p>10:30-10:50 O59. Miguel A. Aranda-KEY "Loss-of-susceptibility to pepino mosaic virus in tomato"</p>	<p>10:30-10:50 O67. Gitta Coaker-KEY "Host manipulation by phloem-limited bacteria"</p>	<p>10:30-10:50 O74. Patrick J. Tranel-KEY "Sex determination in dioecious <i>Amaranthus</i> weeds"</p>	<p>10:30-10:50 O79. Glenn F. King-KEY "Tying insect pests in knots: deployment of spider-venom knottins as bioinsecticides"</p>
<p>10:50-11:10 O55. Evsey Kosman-KEY "A uniform logically consistent analysis of population structure of plant pathogens and a general warning about hazardous invasion of aggressive individuals"</p>	<p>10:50-11:10 O60. Enrique Moriones Alonso-KEY "Molecular epidemiology: an essential tool to improve farmers' decision-making in plant protection against plant viruses"</p>	<p>10:50-11:10 O68. Michelle Hulin-KEY "Bacterial pathogens hijack host metabolism to promote virulence"</p>	<p>10:50-11:10 O75. James H. Westwood-KEY "Plant-plant communication: The parasitic plant dodder (<i>Cuscuta campestris</i>) uses RNA to control its hosts"</p>	<p>10:50-11:10 O80. Elaine Fitches-KEY "Exploiting spider venom neuropeptides to develop novel biopesticides"</p>
<p>11:10-11:20 O56. Selcen Doğan-STU "Development of yellow rust resistant wheat lines with the combination of Real-time PCR, haploid and speed breeding Technologies"</p>	<p>11:10-11:20 R O61. Kübra Yıldız-STU "Crispr/cas9-mediated gene Editing using multiplexed grnas to develop resistant against begomoviruses and powdery mildew"</p>	<p>11:10-11:20 O69. Bihter Avşar "Improved heterologous expression, purification, and structural characterization of plant heterotrimeric G-protein γ subunits for crop improvement"</p>	<p>11:10-11:30 O76. Dana R. MacGregor-KEY "Genomic data and tools to test hypotheses are required to understand weediness"</p>	<p>11:10-11:30 O81. Kyle Schneider-KEY "Transforming crop protection with cysteine rich natural peptides – A pipeline of possibilities"</p>
<p>11:20-11:30 O57. Özgür Altundaş-STU Biostimulant effects of inoculation with <i>Piriformospora indica</i> and arbuscular mycorrhizal fungi on wheat</p>	<p>11:20-11:30 O62. Keri Wang "Development of a plant vaccine for management of tomato brown rugose fruit virus"</p>	<p>11:20-11:30 O70. Murad Ghanim "Endoplasmic reticulum (ER)-associated molecular responses underlying <i>Liberibacter solanacearum</i> transmission by the carrot psyllid"</p>		
<p>11:30-11:40 O58. Mutlu Şen-STU "Development of molecular diagnosis method of safflower pathogen <i>Puccinia carthami</i>"</p>	<p>11:30-11:40 O63. Bayram Çevik "Exploring the use of RNA interference for controlling tomato brown rugose fruit virus"</p>	<p>11:30-11:40 O71. İrem Altın "Copper resistance screening in <i>Erwinia amylovora</i> and transcriptional response of the bacteria to copper compounds in Sakarya, Türkiye"</p>	<p>11:30-11:50 O77. Stephen O. Duke-KEY "Approaches to finding new herbicide target sites"</p>	<p>11:30-11:50 O163. Marek Jindra-KEY "Species-selective agonists of juvenile hormone receptor - en route to eco-friendly IGRs" (MOVED FROM SESSION 31 TO HERE)</p>
	<p>11:40-11:50 O64. Songül Yalçın Ateş "Detection of Tomato brown rugose fruit virus (ToBRFV) using newly designed primers and probe by RT-qPCR method"</p>	<p>11:40-11:50 O72. Turgay Ünver "Development of a phytomicrobiome analysis toolkit to decipher molecular plant-microbe interactions"</p>		
	<p>11:50-12:00 O65. Gözde Erkiş Güngör-STU "Expression analysis of some tomato defense genes against Tomato brown rugose fruit virus infection"</p>	<p>11:50-12:00 O73. Magdalena Górecka "To be or not to be a toxin – How does the HopAG1 effector upset the host?"</p>	<p>11:50-12:00 O78. Selim Karagöl-STU "Molecular characterization of <i>Corylus colurna</i> species from Bolu and Kastamonu Provinces"</p>	<p>11:50-12:00 O166. David Sedlak "High-throughput discovery of species-selective juvenile hormone receptor agonists" (MOVED FROM SESSION 31 TO HERE)</p>
	<p>12:00-12:10 O66. Cansu Şimşek "Detection of Tomato brown rugose fruit virus (ToBRFV) using Real-Time PCR (RT-PCR)"</p>			

12:00-13:30 LUNCH 				
12:15 DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)				
14:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)				
13:30-15:00 PLANT MYCOLOGY 4 SESSION 16 Hall 2 Moderators: Salih Maden Hailing Jin	13:30-15:00 PLANT VIROLOGY 4 SESSION 17 Hall 4 "Emerging plant viruses" Moderators: Aiming Wang Jeanmarie Verchot	13:30-15:00 PLANT BACTERIOLOGY 3 SESSION 18 Hall 3 Moderators: Michael Kube Michelle Hulin	13:30-15:00 ENTOMOLOGY 4 SESSION 19 Main Hall Moderators: Emre İnak Kun Yan Zhu	13:50-15:00 ENTOMOLOGY 5 SESSION 20 Hall 5 Moderators: Russell Groves Feza Can
13:30-13:50 O82. Nichola Hawkins- KEY "How predictable is pathogen evolution under fungicide selection?"	13:30-13:40 Opening remarks 13:40-14:00 O88. Aiming Wang- KEY "Towards control of existing, emerging and reemerging plant viruses"	13:30-13:50 O92. Ian Dubery- KEY "Metabolomics of plant defense: The <i>Avena sativa</i> – <i>Pseudomonas coronafaciens</i> interaction"	13:30-13:50 O99. David Mota-Sanchez- KEY "Magnitude of field-evolved resistance of arthropods to pesticides: a comprehensive analysis by decade of use"	13:30-13:50 O105. Hans Merzendorfer- KEY "Chitin biosynthesis: an attractive target for eco-friendly insecticides" WITHDRAWN
13:50-14:10 O83. Mamadou Kane Mboup- KEY "How to extend fungicides effective life without broad-spectrum fungicides"	14:00-14:20 O89. Aviv Dombrovsky- KEY "Disinfection efficacy of Tobamovirus-contaminated soil and developing a novel platform for root protection applies"	13:50-14:10 O93. Jacob Malone- KEY "Polysaccharide biosynthesis and its contribution to <i>Pseudomonas syringae</i> plant infection"	13:50-14:10 O100. Russell Groves- KEY "The dynamic emergence phenology of the Colorado potato beetle (<i>Leptinotarsa decemlineata</i>); implications for resistance and pest management"	13:50-14:10 O106. Gianluca Tettamanti- KEY "The circular economy in the agri-food sector: The contribution of black soldier fly"
14:10-14:30 O84. Dolores Fernández Ortuño- KEY "An overview of the fungicide resistance situation of the cucurbit powdery mildew, <i>Podosphaera xanthii</i> , in Spain"	14:20-14:40 O90. Kook-Hyung Kim- KEY "Characterization of Rsv3 gene and understanding Rsv3-mediated resistance mechanism in soybean mosaic virus-soybean pathosystem"	14:10-14:20 O94. Damla Ertimurtaş-STU "Genetic diversity of <i>Xanthomonas arboricola</i> pv. <i>juglandis</i> strains affecting walnuts in Türkiye revealed by rep-PCR and MLSA"	14:10-14:30 O101. Daniel R. Swale- KEY "Inhibition of inward rectifier potassium (Kir) channels in the salivary gland prevents plant feeding and pathogen transmission by the cotton aphid, <i>Aphis gossypii</i> "	14:10-14:30 O107. Ronald Kühnlein- KEY "Functional analysis of sterol and steryl ester metabolism in the <i>Drosophila melanogaster</i> insect model"
14:30-14:40 O85. Gamze Erdurmuş "Fenhexamide resistance and molecular species identification of <i>Botrytis</i> spp. isolates"		14:30-14:40 O96. Edanur Öksüz-STU "Hybrid genome assembly and annotation of <i>Xanthomonas arboricola</i> pathovar <i>corylina</i> NTM-B-28 strain isolated from hazelnut tree in Türkiye"	14:30-14:40 O102. Mustafa Murat Yeşilirmak-STU "Determination of sodium channel kdr mutations and biochemical mechanism detection in <i>Cydia pomonella</i> populations from Eğirdir/Isparta in the lakes region of Türkiye"	14:30-14:40 O108. Maria Yakimova-STU "High quality genome assembly of major pest of boreal forests, <i>Dendrolimus sibiricus</i> Tschetv. (Lepidoptera; Lasiocampidae)"
14:40-14:50 O86. Tuğba Teker-STU "Screening of tebuconazole, carbendazim, and fludioxonil resistance in <i>Fusarium</i> spp., the causal agent of cereal diseases in Türkiye"	14:40-15:00 O91. Elizabeth Fontes- KEY "A signaling hub coordinating antiviral immunity and growth-promoting events"	14:40-14:50 O97. Didem Canik Orel "Gene regions comparison for identification of bacterial pathogens in terms of Lettuce pathogens"	14:40-14:50 O103. Burcu Yaman-STU "Determination of spiromesifen+abamectin resistance and detoxification enzymes of <i>Panonychus ulmi</i> koch (Acari: Tetranychidae) populations collected from apple orchards in Isparta Province"	14:40-14:50 O109. İnci Şahin Negiş "Using ITS region DNA barcoding to distinguish between <i>Kakothrips priesneri</i> Pelikan"
14:50-15:00 O87. Omar Al-Sudairy-STU "Newly synthesized benzimidazole-2-carbamate molecules show suppressive activities against plant pathogenic fungi and oomycetes"		14:50-15:00 O98. Murat Öztürk "Molecular characterization of <i>Pectobacterium atrosepticum</i> isolates causing potato blackleg and soft rot disease"	14:50-15:00 O104. Esengül Özdemir "Incidence and spread of pyrethroid resistance mutations in <i>Varrua destructor</i> populations in Türkiye"	14:50-15:00 O110. Romana İftikhar "Mitochondrial genetic diversity of <i>Thrips tabaci</i> (Thysanoptera: Thripidae) in onion growing regions of the USA"

	15:30-16:20 PLANT VIROLOGY 5 SESSION 21 Hall 2 “Emerging plant viruses” Moderators: Aiming Wang Elizabeth Fontes	15:30-16:50 PLANT NEMATOLOGY 2 SESSION 22 Hall 3 Moderators: Pierre Abad Godielieve Gheysen	15:30-16:50 ENTOMOLOGY 6 SESSION 23 Hall 4 Moderators: Francesco Pennacchio Salvador Herrero	15:30-16:50 ENTOMOLOGY 7 SESSION 24 Main Hall Moderators: Steve Whyard Ken Narva
	15:30-15:50 O111. Jeanmarie Verchot-KEY “Emerging viruses and using global host transcriptomics to differentiate pathways underlying disease”	15:30-15:50 O114. Sophie Mantelin-KEY “Host Imprint on plant perception in the root-knot nematode <i>Meloidogyne incognita</i> ”	15:30-15:50 O120. Rebekah Kelly-KEY “Biological-based insecticides for pest management”	15:30-15:50 O126. Neena Mitter-KEY “RNA based biopesticides for sustainable crop protection – Bio Clay technology”
	15:50-16:10 O112. Nobuhiro Suzuki-KEY “Yadokari/yadonushi nature: A virus in a virus in a fungus in a plant”	15:50-16:10 O115. Shinichiro Sawa-KEY “Root-knot nematode modulates plant CLE3-CLV1 signaling as a long-distance signal for successful infection”	15:50-16:10 O121. Michael Kanost-KEY “Fungal cell wall β -1,3-glucan stimulates immune cascades and is a target of an antifungal peptide in <i>Manduca sexta</i> ”	15:50-16:10 O127. Wendy Maddelaine-KEY “RNAi as a biocontrol solution for soy stink bugs” WITHDRAWN
	16:10-16:30 O113. Francisco Ochoa-Corona-KEY “Multiple detection of 33 Poaceae infecting viruses by e-probe diagnostic nucleic acid analysis” WITHDRAWN	16:10-16:20 O116. Gamze Aksay-STU “In vitro nematicidal activity of arugula (<i>Eruca sativa</i> L.) against stem and bulb nematode (<i>Ditylenchus dipsaci</i> Kühn, 1857)”	16:10-16:20 O122. Musa Kırışık “Molecular identification of entomopathogenic fungi from western flower thrips [<i>Frankliniella occidentalis</i> (Pergande)]”	16:10-16:30 O128. Ameer Shakeel-KEY “AgroSpheres manufacturing and delivery technology to address field stability and targeted delivery of dsRNA to enable efficient RNAi in lepidoptera”
		16:20-16:30 O117. Taylan Çakmak “New host plant report of root-knot nematode <i>Meloidogyne</i> (Goeldi, 1892) species, from Türkiye”	16:20-16:30 O123. Funda Şahin-STU “Isolation and identification of entomopathogenic fungi from coastal districts of Ordu province, Türkiye”	
	16:10-16:20 Closing remarks	16:30-16:40 O118. Elif Yavuzaslanoglu “Effect of extraction conditions on in vitro nematicidal activity of brown mustard (<i>Brassica juncea</i> L.) against stem and bulb nematode (<i>Ditylenchus dipsaci</i> Kühn, 1857)”	16:30-16:40 O124. Ardahan Eski “Efficacy of indigenous entomopathogenic bacteria and fungi against the Western flower thrip, <i>Frankliniella occidentalis</i> (Pergande) (Thysanoptera: Thripidae)”	16:30-16:50 O129. Steve Meyer-KEY “Low-cost, scalable dsRNA manufacturing through microbial fermentation solves decade-long challenge and unlocks commercial potential of RNAi BioSolutions”
		16:40-16:50 O119. Gülsüm Uysal-STU “Dosage effect of pepper carrying N and Me1 genes to <i>Meloidogyne incognita</i> ”	16:40-16:50 O125. Dürdane Yanar “Biocontrol potential of some entomopathogenic fungal isolates against <i>Myzus persicae</i> (Sulzer) (Hemiptera: Aphididae)”	
17:30 DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)				
19:30 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)				
21:30 FINAL DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)				

18 MAY 2023 THURSDAY				
07:30 DEPARTURE FROM HOTELS TO CONGRESS CENTER 				
08:00 FINAL DEPARTURE FROM HOTELS TO CONGRESS CENTER 				
08:30-09:50 PLANT MYCOLOGY 5 SESSION 25 <i>Hall 2</i> Moderators: Massimo Reverberi Semra Hasaebi			08:30-09:50 ENTOMOLOGY 8 SESSION 26 <i>Hall 4</i> Moderators: David Mota-Sanchez Pam Marrone	08:30-10:00 ENTOMOLOGY 9 SESSION 27 <i>Main Hall</i> Moderators: Marek Jindra Michael Kanost
08:30-08:50 O130. Dwayne Hegedus-KEY "Receptor-like kinases BAK1 and SOBIR1 are required for necrotizing activity of <i>Sclerotinia sclerotiorum</i> necrosis-inducing effectors"			08:30-08:50 O136. Neil Crickmore-KEY "Challenges and potential solutions for overcoming insect resistance to <i>Bacillus thuringiensis</i> based biopesticides"	08:30-08:50 O142. Subba Reddy Palli-KEY "Development of genomics-based approaches for control of fall armyworm"
08:50-09:10 O131. Kevin Ashford-KEY "Laminarin innovation pathways"			08:50-09:10 O137. Ping Wang-KEY "Bt resistance in <i>Trichoplusia ni</i> : mechanisms of resistance to multiple Bt toxins in a generalist insect"	08:50-09:10 O143. Xavier Bellés-KEY "Major developmental transitions during insect ontogeny are associated with dramatic changes in the network architecture of miRNA-mRNA interactions"
09:10-09:20 O132. Deniz akar "Determination of vc and mating types of <i>Cryphonectria parasitica</i> isolates by multiplex PCR, obtained from thirteen chestnut growing provinces of Trkiye"			09:10-09:20 O138. Gzde Bşra Erođlu "Isolation and molecular identification of local entomopathogenic bacteria from <i>Pieris brassicae</i> "	09:10-09:30 O144. Kostas D Mathiopoulos-KEY "The use of lncRNAs in insect control. Lessons from the tiger mosquito"
09:20-09:30 O133. lk Baykal "Characterization of barcode sequences from complete nuclear rRNA sequences of the hazelnut (<i>Corylus avellana</i>) powdery mildew fungus <i>Erysiphe corylacearum</i> "			09:20-09:30 O139. Vildan Bozkurt "Isolation and diagnosis of potentially entomopathogenic bacteria from larvae of Asian walnut moth <i>Erschoviella musculana</i> Erschoff (Lepidoptera: Nolidae)"	
09:30-09:40 O134. Durmuş Erdurmuş "Characterization of <i>Trichoderma</i> spp. obtained from Sakarya plateaus, Trkiye and efficiency of these isolates as biocontrol agents against <i>Neopetalotiopsis rosae</i> in strawberry"			09:30-09:40 O140. Anna Subbotina-STU "Sex specificity in defense mechanisms of <i>Lymantria dispar</i> against <i>Bacillus thuringiensis</i> "	09:30-09:50 O145. Kun Yan Zhu-KEY "Breaking down the barriers: Strategies to enhance RNAi efficiency in insects"
09:40-09:50 O135. Osman Telli "Effect of light on the life cycle, development and pathogenicity of <i>Hyaloperonospora arabidopsidis</i> "			09:40-09:50 O141. Betl Yilmaz-STU "Formulation and characterization of a local <i>Bacillus thuringiensis</i> ssp. <i>israelensis</i> : A Promising alternative to chemical control of <i>Culex pipiens</i> (Diptera: Culicidae)"	09:50-10:00 O146. Shuhei Hashiro "Development of dsRNA production technology using <i>Corynebacterium glutamicum</i> for RNAi-based pesticides"

10:00-10:30 COFFEE BREAK 				
10:30-11:50 PLANT MYCOLOGY 6 SESSION 28 Hall 2 Moderators: Li-Jun Ma Mark Belmonte		10:30-11:50 PLANT BACTERIOLOGY 4 SESSION 29 Hall 3 Moderators: Mine Saraçoğlu Jacob Malone	10:30-11:30 ENTOMOLOGY 10 SESSION 30 Hall 4 Moderators: Neena Mitter Glenn F. King	10:50-11:50 ENTOMOLOGY 11 SESSION 31 Main Hall Moderators: Neil Crickmore Elaine Fitches
10:30-10:50 O147. Massimo Reverberi-KEY "Natural compounds from mushrooms to challenge plant pathogens"		10:30-10:50 O152. Assunta Bertaccini-KEY "Phytoplasmas and plant diseases: a transkingdom relationship"	10:30-10:50 O158. Salvador Herrero-KEY "Plant volatiles as mediators of the insect interaction with baculovirus"	10:30-10:50 O163. Marek Jindra-KEY "Species-selective agonists of juvenile hormone receptor – en route to eco-friendly IGRs" (MOVED FROM THIS SESSION TO SESSION 15)
10:50-11:10 O148. Mahmut Tör-KEY "Translational research on pulse downy mildews: Deploying resistance genes, pathogenomics and microbial biocontrol"		10:50-11:10 O153. Michael Kube-KEY "Insights into pathogen-host interactions from phytoplasma genomes"	10:50-11:00 O159. Dönüş Gencer "Isolation and Identification of a new Cypovirus from <i>Dasychira pudibunda</i> (Lepidoptera, Lymantriidae) in Türkiye" 11:00-11:10 O160. Vyacheslav Martemyanov "New <i>Dendrolimus sibiricus</i> cypovirus-1: from molecular features to field bioassay"	10:50-11:10 O164. Marc F. Schetelig-KEY "Zero pesticide pest control - genetic markers for efficient SIT programs in agriculture"
11:10-11:30 O149. Hailing Jin-KEY "Voyage of fungal pathogen small RNAs into plants"		11:10-11:20 O154. Filiz Randa Zelyüt "Multilocus sequence typing of 'candidatus <i>Phytoplasma solani</i> ' infecting cucurbits from Türkiye"	11:10-11:20 O161. Mahmut Mete Karaca-STU Effects of tetracycline treatments on biological parameters and endosymbionts of <i>Bemisia tabaci</i> MEAM1"	11:10-11:30 O165. Francesco Pennacchio-KEY "Insect multitrophic interactions for bioinspired plant protection"
		11:20-11:30 O155. Barbaros Mülayim-STU "Comparative genome analysis of phytoplasma in plants with different fruit types"	11:20-11:30 O162. Dilşan Boylu-STU "Quantitative Real Time PCR (qRT-PCR) analysis of <i>Wolbachia</i> infection in different developmental stages of <i>Tuta absoluta</i> populations from Antalya"	
11:30-11:40 O150. Bayram Kansu "The pathogenic and phylogenetic relationships of endophytic <i>Lecanicillium</i> spp. isolates from turfgrass seeds"		11:30-11:40 O156. Yiğit Sabri Ünlü-STU "Molecular detection of phytoplasma associated disease in Türkiye"		11:30-11:40 O166. David Sedlak "High-throughput discovery of species-selective juvenile hormone receptor agonists" (MOVED FROM THIS SESSION TO SESSION 15)
11:40-11:50 O151. Merve Yiğit "Determination of <i>Fusarium</i> wilt (<i>Fusarium oxysporum</i> schlecht. F. sp. <i>melongenae</i>) resistance using molecular marker in double haploid eggplant populations"		11:40-11:50 O157. Abdullah Al-Sadi "Exotic plant disease outbreaks in the Arabian Peninsula: Challenges and opportunities"		11:40-11:50 O167. Bahram Naseri "Effect of pyriproxyfen, a juvenile hormone analog, on diapausing larvae of <i>Ephesia kuehniella</i> (Zeller) (Lepidoptera: Pyralidae)"
12:00-13:30 LUNCH 				
12:15 DEPARTURE FROM CONGRESS CENTER TO HOTELS  (Detour)				
14:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER  (Detour)				
13:30-15:30 POSTER SESSION Exhibition Hall <i>All presenting poster authors should be present at their posters.</i>				
15:30-16:00 CLOSING SESSION Main Hall				
16:00 DEPARTURE FROM CONGRESS CENTER TO HOTELS 				

16:30 DEPARTURE FROM CONGRESS CENTER TO HOTELS 
17:00 DEPARTURE FROM HOTELS TO GALA DINNER 
17:30 DEPARTURE FROM HOTELS TO GALA DINNER 
18:00 DEPARTURE FROM CONGRESS CENTER TO HOTELS 
18:30 DEPARTURE FROM CONGRESS CENTER TO HOTELS 
19:00 DEPARTURE FROM HOTELS TO CONGRESS CENTER 
19:30 FINAL DEPARTURE FROM HOTELS TO CONGRESS CENTER 
19:30-00:30 GALA DINNER  <i>Hektaş Ballroom</i>
22:30 DEPARTURE FROM GALA DINNER TO HOTELS 
23:30 DEPARTURE FROM GALA DINNER TO HOTELS 
00:30 DEPARTURE FROM GALA DINNER TO HOTELS 
01:00 FINAL DEPARTURE FROM GALA DINNER TO HOTELS 

KEY: Keynote speech

STU : Student speech

POSTER SESSION (18 MAY 2023 THURSDAY-13:30-15:30)

- *All poster should should be attached to the boards by 16 MAY 2023 TUESDAY, 08:30-17:30.*
- *All presenting poster authors should be present at their posters on 18 MAY 2023 THURSDAY, 13:30-15:30.*

P1. Bahram Naseri Physicochemical traits of sugarcane cultivars affected digestive enzymatic profile of *Sesamia nonagrioides* (Lefebvre) (Lepidoptera: Noctuidae) larvae

P2. Javad Salmani-Moghanlou Effect of different wheat cultivars on digestive enzymes activity of *Trogoderma granarium* (Everts) (Coleoptera: Dermestidae) larvae

P3. Seda Biryol Mycoformulation developed using *Metarhizium anisopliae* (Ascomycota: Hypocreales) based on solid-state fermentation method against *Myzus persicae* (Hemiptera: Aphididae)

P4. Shinichiro Sawa Chemotaxic manipulation as a strategy to protect crop plants from root-knot nematode infections

P5. İsmail Demir Effects of some entomopathogenic fungi on the citrus longhorned beetle, *Anoplophora chinensis* (Coleoptera: Cerambycidae)

P6. STU Ceren Doğan Molecular genetic basis of pesticide resistance in phytoseids as biological control agents

P7. STU Nihan Güneş Molecular characterization of Tomato spotted wilt virus (TSWV) and Cucumber mosaic virus (CMV) affecting tomato and pepper crops in Izmir Province

P8. Merve Kara Molecular identification of powdery mildew disease agent *Golovinomyces orontii* onperiwinkle (*Vinca major*) plants growing in Türkiye

P9. STU Iva Rosić Population dynamics of *Bacillus amyloliquefaciens* SS-38.4 in the phyllosphere of sugar beet and its biocontrol activity against *Pseudomonas syringae* pv. *aptata* P21

P10. STU Marina Anteljević Phylogenetic analysis of *Pseudomonas syringae* isolates from the Danube River Basin revealed association with past epidemics in Serbia

P11. Dilay Hazal Ayhan Distinct genetic differences between plant and human pathogenic isolates of *Fusarium oxysporum*

P12. Selma Ülgentürk Investigation of the efficacy of some biopesticides against oleander scale, *Aspidiotus nerii* in laboratory conditions

P13. Randy Kutcher Detection and differentiation of *Xanthomonas translucens* pv. *translucens* and pv. *undulosa* from wheat and barley by duplex quantitative PCR

P14. STU Utku Şanver Molecular analysis of copper tolerance and genetic diversity in *Pseudomonas syringae* pv. *syringae*, the causal agent of cherry bacterial canker disease

- P15. Marek Jindra** Unique peptidic agonists of a juvenile hormone receptor with species-specific effects on insect development and reproduction
- P16. STU Anna Subbotina** Molecular diagnostics of *Dendrolimus sibiricus* cypovirus-1 in alternative host
- P17. STU Hakkı Taşdelen** Molecular methods for the identification of *Amaranthus* species
- P18. STU Fadime Yetis** The molecular characterization of viruses found in honeybee colonies infested with *Varroa destructor* in Türkiye
- P19. STU Halim Can Kayikci** The role of ncRNAs in parasitic plant infection and some strategies of struggling in tomato breeding
- P20. Massimo Reverberi** Biocontrol treatments confer protection against *Phytophthora infestans* infection of potato by inducing defense hormone biosynthesis
- P21. İrem Altın** Proteomic characterization of bacteriophage peptides of pathogenic *Xanthomonas arboricola* pv. *juglandis* using Matrix-Assisted Laser Desorption Ionization-Time-of-Flight Mass Spectrometry
- P22. STU Tuğba Uslu** Detection and molecular characterization of viruses infecting tomatoes grown in greenhouses in the highlands of inner western Anatolia
- P23. STU Gamze Mertoğlu** Recent studies on molecular identification of *Phytoseiidae* species (Acari: Mesostigmata) in Türkiye
- P24. David Sedlak** Action of species-selective juvenile hormone receptor agonists on insect development
- P25. İbrahim Mistanoğlu** Genetic characterization of *Meloidogyne incognita* isolates using KASP markers
- P26. STU İslam Yıldız** Development of a Local *Bacillus thuringiensis* ssp. *kurstaki*-Based Biopesticide Effective on the Lepidopteran Pests
- P27. Tevfik Özalp** Molecular identification of root-knot nematodes in banana growing areas of Antalya province
- P28. Serpil Erilmez** First report of Tomato brown rugose fruit virus infecting greenhouse tomato in the Aegean Region of Türkiye
- P29. STU Mahmut Mete Karaca** Effects of *Wolbachia* infection status on parasitism performance of *Encarsia lutea* on the silverleaf whitefly *Bemisia tabaci* MEAM1
- P30. Deniz Göl** Gene knockdown in *Arabidopsis* downy mildew using small RNA duplexes to assess gene functions
- P31. STU Oğuzhan Yeni** Detection of the sunflower pathogen *Plasmopara halstedii* by loop-mediated isothermal amplification
- P32. STU Büşra Kara** Comparative genomic analysis of *Spiroplasma citri* in naturally infected citrus samples and in vitro cultures in Türkiye
- P33. Damla Ulusoy** Eradication processes of Tomato brown rugose fruit virus on tomato seeds

- P34. Jack Bell** Using AlphaFold2 to aid the early design of protein-based bioinsecticides.
- P35. STU Mehmet Arslan** Investigation of thiram-induced cellular responses in *Fusarium* reference strains
- P36. STU Berkay Erdur** Investigation and classification of fungal pathogens isolated from olive orchard in Türkiye
- P37. Havva Nur Cayak** Development of multiplex primer and probe against Tomato brown rugose fruit virus (ToBRFV), Tomato spotted wilt virus (TSWV) and Pepino mosaic virus (PepMV) disease factors in tomato and pepper plants
- P38. Bihter Aysar** An investigation of disease resistance genes in *Corylus avellana* cv. Tombul by resistance gene enrichment sequencing (RenSeq) method
- P39. STU İlkem Tutku Türkmen** Agrobacterium-mediated transformation of tomato with the coat protein gene of tomato brown rugose fruit virus
- P40. Ali Mehrvar** Diversity of indigenous Actinomycetota of Iran and assays of their culture extracts toxicity on some plant pests
- P41. Ali Mehrvar** Brine shrimp nauplii play a rapid biomarker role in the chemical screening investigations
- P42. STU Martyna Jonak** NAD⁺ involvement in the virulence of *Pseudomonas syringae* effector HopAG1
- P43. M. Sait Adak** Importance of crop wild relatives as potential source for resistance to biotic stress factors in plant breeding
- P44. STU Hatice Sevde Yüceler** Use of plant viruses and VLPs in vaccine production
- P45. STU Şevket Ölmez** Emerging fungal threat for cotton production in Türkiye
- P46. Emrullah Güldemir** Field screening of Anthracnose resistance in watermelon breeding lines under Bursa- Türkiye conditions
- P47. Ayşe Şeker** Determination of disease resistance using molecular markers among tomato breeding lines from diverse origin
- P48. Osman Telli** In vitro analysis of the antagonistic effects of beneficial endophytic bacteria isolated from olive leaves against *Phytophthora infestans* and *Monilinia laxa*
- P49. STU Metin Burak Tatlises** Comparison of 3D protein structures of fungal effector candidates with defined effectors
- P50. STU Alperen Dilekli** RNAi mediated functional analysis of wheat yellow rust (*Puccinia Striiformis* f. sp. *tritici*) effector candidate gene
- P51. STU Pınar Öztekin** Spider venoms: Exploring their potential as bioinsecticides
- P52. STU Nesrin Ormanoğlu** A Novel approach to control stored product pests: RNA interference
- P53. STU Nesrin Ormanoğlu** Mechanism of phosphine resistance in stored product pests