

# PROGRAMME AT A GLANCE

Day 1: Sunday, September 8	Day 2: Monday, September 9	Day 3: Tuesday, September 10	Day 4: Wednesday, September 11
	08:30 <b>Registration</b>	9:30 <b>LECTURE 2</b> <b>RNAi-based pesticides</b> Richard Billington	9:30 <b>SESSION 5- Soil Pests</b> <b>Keynote</b> Dietrich Stephan <b>4 Oral Presentations</b>
	09:30 <b>Opening ceremony</b>	10:15 <b>SESSION 4-Nematodes (2)</b> <b>Keynote</b> Ralf-Udo Ehlers <b>1 Oral Presentation</b>	
	10:00 <b>IOBC/WPRS Report</b>		
	10:30 <b>Coffee Break</b>	10:45 <b>Coffee Break</b>	10:45 <b>Coffee Break</b>
	10:50 <b>SESSION 1- Fungi (1)</b> <b>Keynote</b> Enrique Quesada-Moraga <b>6 Oral Presentations</b>	11:05 <b>SESSION 4 (cont.)</b> <b>3 Oral Presentations</b> 11:50 <b>Flash Poster Session</b> <b>12 short presentations</b>	11:05 <b>SESSION 5- (cont.)</b> <b>Keynote</b> Giselher Grabenweger <b>5 Oral Presentations</b>
	12:40 <b>Lunch</b>	13:05 <b>Lunch</b>	12:30 <b>Lunch</b>
	14:00 <b>LECTURE 1</b> <b>Insecticidal peptides</b> Daniel C. Peck	13:30 <b>Football Match</b>	14:00 <b>SESSION 6- Fungi (2)</b> <b>Keynote</b> Cezary Tkaczuk <b>8 Oral Presentations</b>
	14:45 <b>SESSION 2 - Nematodes (1)</b> <b>Keynote</b> Vladimír Půža <b>6 Oral Presentations</b>	14:30 - 17:00 <b>Whale Watching</b>	
	16:05 <b>Coffee Break</b>		16:05 <b>Coffee Break</b>
	16:40 <b>SESSION 3 – Virus</b> <b>Keynote</b> Miguel López-Ferber <b>4 Oral Presentations</b>		16:25 <b>SESSION 7- Bacteria and Slugs</b> <b>Keynote</b> Jiří Nermuť <b>3 Oral Presentations</b>
18:00 - 20:00 <b>Welcome Reception / Registration</b>			17:30 <b>IOBC information</b> 17:45 <b>CLOSING SECTION</b>
	18:00 - 19:30 <b>Visit to Pineapple Plantation</b>	20:00 - 23:00 <b>CONGRESS DINNER</b> <b>“À Terra Restaurant”</b>	18:30 - 19:00 <b>Networking and wine taste</b>

# DETAILED PROGRAMME

## DAY 1: SUNDAY, SEPTEMBER 8

- 17:30 **Welcome Reception / Registration**  
*Place: Alto da Mãe de Deus, Address: R. da Mãe de Deus, 9500-321 Ponta Delgada*

## Day 2: Monday, September 9

- 08:30 **Registration**  
*Auditorium of the University of the Azores, Ponta Delgada Campus*
- 09:30 **Opening ceremony and Welcome**  
Opening local organizers and the Official entities  
OP – “Biological Control in the Azores”
- 09:30 **IOBC/WPRS Working Group Microbial and Nematode Control of Invertebrate reports**
- 10:30 **Coffee Break**
- SESSION 1- FUNGI (1)**  
Chairpersons: Enrique Quesada-Moraga and Hermann Strasser
- 10:50 **KN1- Entomopathogenic ascomycetes as multipurpose microorganisms for sustainable agriculture**  
[Enrique Quesada-Moraga](#)
- 11:10 **OP1 - Exploiting the versatile lifestyle of *Metarhizium brunneum* for the control of *Asproparthenis punctiventris***  
[Maria Zottele](#), Chiara Cattani, Martina Dokal, Jürg Enkerli, Hermann Strasser
- 11:25 **OP2 - Impact of melon colonization by *Beauveria bassiana* on the chemical ecology of a multitrophic system involving an aphid pest and a generalist predator**  
María Cuenca-Medina, José Manuel Moreno-Rojas, Raquel Rodríguez-Solana, Rafael Alcalá-Herrera, Enrique Quesada-Moraga, [Natalia González-Más](#)
- 11:40 **OP3 - Preventive and curative strategies for controlling *Tuta absoluta* (Meyrick) using *Metarhizium brunneum* (Hypocreales: Clavicipitaceae)**  
Esther Aguilera Cuenca, Enrique Quesada Moraga, María José García del Rosal, [Meelad Yousef Yousef](#)
- 11:55 **OP4 - Gene expression profiling of *Aphis gossypii* Glover after feeding on *Beauveria bassiana* (Balsamo) Vuill. endophytically colonized melon plants**  
María Cuenca-Medina, José Die, Adrián Pérez-Rial, Enrique Quesada-Moraga, [Natalia González-Mas](#)
- 12:10 **OP5 - Testing the persistence of spores in forest soil after natural *Beauveria pseudobassiana* treatment against Oak Lace Bug**  
[Ilan Pernek](#), Marta Kovač
- 12:25 **OP6 - Strategic options for managing *Xylella fastidiosa* vectors with entomopathogenic ascomycetes.**  
[Enrique Quesada-Moraga](#)
- 12:40 **Lunch and Posters session** (all posters, please check Posters Section)
- 14:00 **LECTURE 1 - Insecticidal peptides**  
[Daniel C. Peck](#)
- SESSION 2 - ENTOMOPATHOGENIC NEMATODES (1)**  
Chairpersons: Vladimír Půža and Nelson Simões
- 14:45 **KN2 - Potential of *Xenorhabdus* bacteria metabolites for control of the Colorado potato beetle (*Leptinotarsa decemlineata*)**  
[Vladimír Půža](#), Jiří Nermet, Helge B. Bode, Oxana Skoková Habušťová

- 15:05 **OP7 - Parameters defining success of EPN applications**  
[Ralf-Udo Ehlers](#)
- 15:20 **OP8 - Biorational control of aphids *Myzus persicae* and *Phorodon Humuli* based on bacterial metabolites**  
[Jiří Nermuť](#), Oxana Habušťová Skoková, Vladimír Půža
- 15:35 **OP9 - Biodiversity of Entomoparasitic & Entomopathogenic Nematodes in Italy**  
[Eustachio Tarasco](#), Elena Fanelli, Alberto Troccoli, Giulia Torrini, Alessio Vovlas, Giovanna Curto, Leonardo Marianelli, Mirella Clausi, Diego Leone, Giancarlo, Rappazzo, Francesca De Luca.
- 15:50 **OP10 - Assessment of climatic parameters for the successful use of entomopathogenic nematodes on plant surfaces**  
[Bart Vandenbossche](#), Verena Dörfler, Mike Barg, Betty Nyangwire, Tjark Scholvin, Hartmut Kaiser, Nikolina Grabovac, Thorsten Rocks, Ralf-Udo Ehlers.
- 16:05 **OP11 - From the laboratory success to the field challenges: Azorean native isolates of *Heterorhabditis bacteriophora* for the biocontrol of *Popillia japonica***  
[Anna Garriga Oliveras](#), Hugo R. Monteiro, Rubén Riquelme, Duarte Toubarro, Nelson Simões.

## 16:20 Coffee Break

### SESSION 3 – VIRUS

Chairpersons: Miguel López-Ferber and António Onofre Soares

- 16:40 **KN3 - Introducing complexity in the development of virus-based biocontrol agents: opportunities and challenges on baculoviruses**  
[Miguel López-Ferber](#), Christine Blachère-López
- 17:00 **OP12 - A new *Cydia pomonella* colony resistant to multiple *Cydia pomonella* granulovirus isolates.**  
[Léa Gingueneau](#), Bertrand Gauffre, Miguel López-Ferber, Sandrine Maugin, Christine Blachère-López, Sofian Renoult, Samantha Besse, Myriam Siegwart.
- 17:15 **OP13 - Examining baculovirus ecology for enhancing microbiological control strategies against *Cydalima perspectalis*.**  
[J. Goicoechea](#), P. Bengoa, F. Otamendi, I. Ruiz de Escudero, R. Murillo
- 17:30 **OP14 - Dynamics of CpGV Resistance of Codling Moth in the Field and in Laboratory Selection Experiments.**  
[Johannes Jehle](#), Eva Fritsch, Karin Undorf-Spahn, Sarah Biganski
- 17:45 **OP15 - Innovative Pest Management: Challenges and Opportunities in Baculovirus Product Development.**  
[Jérémy Gonthier](#), Marcel Tanner, Heiri Wandeler

## 18:00 Visit to Pineapple Plantation

## Day 3: Tuesday, September 10

- 9:30 **LECTURE 2 - RNAi-based pesticides**  
[Richard Billington](#)
- SESSION 4 - ENTOMOPATHOGENIC NEMATODES (2)**  
 Chairpersons: Ralf-Udo Ehlers and Duarte Toubarro
- 10:15 **KN 4 - Domestication of the entomopathogenic nematodes *Heterorhabditis bacteriophora* for biological management of insect pests.**  
[Ralf-Udo Ehlers](#)

10:30 **OP16 - Establishing novel quality parameters for production and performance of EPNs: Beyond counting DJs and insects**  
[Carlos Molina](#), Nontarak Huong, Maria Touceda, Bart Vandenbossche, Ralf-Udo Ehlers

10:45 **Coffee Break**

11:05 **OP17 - Impact of activation materials on *Heterorhabditis bacteriophora* excreted/secreted products**  
[Sara Šreibr](#), Jana Ilgová, Pavel Dobeš, Jacek Marciniak, Jiří Vorel, Jana Hurychová, Duarte Toubarro, Nelson Simões, Martin Kašný, Pavel Hyršl

11:20 **OP18 - Unveiling molecular strategies of *Heterorhabditis bacteriophora*: a comparative analysis of *in vitro* activation and *in vivo* infection dynamics.**  
[Jana Ilgová](#), Sara Šreibr, Pavel Dobeš, Jiří Vorel, Jana Hurychová, Jacek Marciniak, Martin Kašný, Pavel Hyršl

11:35 **OP19 - Advances in research on virulence factors of *H. bacteriophora***  
[Duarte Toubarro](#); Jorge Frias; Nelson Simões

## FLASH POSTER

Chairpersons: Carlos Molina and Maria Luísa Oliveira

11:50 **FP1 - ShK a family of toxic domains expressed and released by *S. carpocapsae***  
[Tiago Paiva](#), Duarte Toubarro, Jorge Frias, Nelson Simões

11:56 **FP2 - Potential of selected nematode species for slug control**  
[Božena Kordan](#), Beata Gabryś

12:02 **FP3 - Dose response of entomopathogenic nematodes in controlling fall armyworm and preventing maize damage**  
Kajuga N.J., Waweru B.W., Nyombayire A., Mutumwinka M., Hategekimana A., Ndereyimana A., Umulisa C., Ishimwe P.M., Bazagwira D., Bigirimana V.P., Cadeau G., Fallet P., Turlings T.C.J., Xun Y., Rui Tang, [Toepfer S.](#)

12:08 **FP4 - The Entomopathogenic Fungus *Metarhizium Brunneum* Petch For The Control Of Whiteflies In Protected Cultivation**  
[Suma Pompeo](#), Marco Di Domenico, Alessia Farina, Carmelo Rapisarda

12:14 **FP5 - Exploring indigenous entomopathogens for sustainable management of the invasive Box Tree Moth**  
Bengoa, P., Santesteban, X., Molina, C, Murillo, R., Ruiz de Escudero, I.

12:20 **FP6 - Effects of soil-deployed entomopathogenic and other beneficial fungi on strawberry canopy arthropods.**  
[Jaka Razinger](#), Igor Nekrep, Morgane Ourry, Nika Cvelbar Weber, Špela Modic, Eva Praprotnik, Hans-Josef Schroers, Primož Žigon, Nicolai Vitt Meyling

12:26 **FP7 - Improvement of desiccation tolerance of entomopathogenic *M. brunneum* blastospores by hypotonic trehalose treatment.**  
[Ehsan Asgahri](#)

12:32 **FP8 - Preliminary studies of pathogens present in Latvian outbreak population of the European spruce bark beetle (*Ips typographus* L).**  
[Liga Jankevica](#), Ilze Dubova, Agnis Šmits

12:38 **FP9 - Exploring *Bacillus thuringiensis* Cry proteins potential and new strains characterization for the Invasive Box Tree Moth (*Cydalima perspectalis*) control.**  
Júlia Unzué, Felix Otamendi, Miguel Mena, Paul Bengoa, Rosa Murillo, [Iñigo Ruiz de Escudero](#)

12:44 **FP10 - The diversity of *Bacillus thuringiensis* isolated in the Azores against Lepidoptera, Coleoptera, and Diptera pests.**  
[Mário Teixeira](#), Ricardo Ferreira, Teresa Novo, Carla Cabral, Paulo Almeida, Nelson Simões

12:50 **FP11 - Comparative Study of the Mycobiome in High and Low-Density Populations of *Popillia japonica* from the Azores**  
Jorge Frias, Anna Garriga, Ángel Peñalver, Mário Teixeira, Rubén Beltrí, Margarida Borges, [Hugo R. Monteiro](#), Duarte Toubarro, Nelson Simões

12:56

**FP12 - De novo assembly and annotation of *Popillia japonica*'s genome with initial clues to its potential as an invasive pest**

[Rebecca Funari](#), Claudio Cucini, Sara Boschi, Elena Cardaioli, Nicola Iannotti, Giovanni Marturano, Francesco Paoli, Mirella Bruttini, Antonio Carapelli, Francesco Frati, Francesco Nardi.

**13:05 Lunch and Posters session** (all posters, please check Posters at page 8 and 9 for details)

**13:30 Football Match**

**14:30 Whale Watching**

**20:00 – CONGRESS DINNER**

**23:00 “À Terra Restaurant”** – at Octant Hotel - Ponta Delgada (Avenida Doutor João Bosco Mota Amaral, 4 9500-765 Ponta Delgada)

## Day 4: Wednesday, September 11

### SESSION 5 - SOIL INSECT PESTS

Chairpersons: Dietrich Stephan and Giselher Grabenweger

**9:30 KN 5 - The AgriMet project - Challenges of wireworm control with the entomopathogenic fungus *Metarhizium brunneum***

Eckhard Immenroth, Jörn Lehmus, Maximilian Paluch, Tanja Seib, [Dietrich Stephan](#)

**9:50 OP20 - Entomopathogenic nematodes can transport conidia of *Metarhizium brunneum* (Petch.) through simultaneous application against soil-dwelling stages of *Spodoptera littoralis***

[Meelad Yousef Yousef](#), Julien Brillard

**10:05 OP21 - Microbiome dynamics in different wireworm species and implications for their biocontrol**

[Adrian Wolfgang](#), Nora Temme, Ralf Tilcher, Mario Schumann, Gabrielle Berg

**10:20 OP22 - Autodissemination of *Metharizium brunneum* to biologically control adult Japanese beetles**

[Magdalena Wey](#), Hanna Neuenschwander, Etienne Hösli, Monika Maurhofer, Giselher Grabenweger

**10:35 OP23 - An integrated approach to managing agricultural pests: bioagents and hormone treatments in laboratory trials.**

[Oxana Skoková Habušťová](#), Daniela Hlávková, Dalibor Kodrik, Vladimír Půža, Jiří Nermet, Jana Konopická

**10:45 Coffee Break**

**11:05 KN6 - H2020 IPM-Popillia Project**

[Giselher Grabenweger](#)

**11:25 OP24 – From the H2020 IPM-Popillia Project: an ongoing field experiment with entomopathogenic fungi and nematodes**

[Gian Paolo Barzanti](#), Claudia Benvenuti, Immacolata Iovinella, Agotino Strangi, Chiara Sciandra, Francesco Barbieri, Tanja Graf, Leonardo Marianelli

**11:45 OP25 - The fungal genus *Beauveria* is the dominant entomopathogen of adult *Popillia japonica* invading northern Italy and southern Switzerland**

[Noëmi Küng](#), Denise Baur, Klaus Schläppi, Franco Widmer, Jürg Enkerli

**12:00 OP26 – Uncovering Genetic Mechanisms Underlying the Success of *Popillia japonica* Populations Across Azorean Islands**

[Jorge Frias](#), Duarte Toubarro, Hugo Monteiro, Mário Teixeira, Nelson Simões.

**12:15 OP27 – A novel bioinsecticide strategy for a coleopteran pest using RNA interference**

[Trevor Grigg](#)

**12:30 Lunch and Posters session** (all posters, please check Posters at page 8 and 9 for details)

## **SESSION 6- FUNGI (2)**

Chairpersons: Jürg Enkerli and Cezary Tkaczuk.

**14: 00 KN -7 - Diversity and infective potential of fungal pathogens of mites in Poland**

[Cezary Tkaczuk](#)

**14: 20 OP28 - Compatibility of entomopathogenic fungi and bioinsecticides**

[I. Garrido-Jurado](#), I. Bouketta, A.A. Caballero-Aranda, E Quesada-Moraga

**14:35 OP29 - Evaluating the Pathogenicity of Native Entomopathogenic Fungi on Brown Marmorated Stink Bug - *Halyomorpha halys* (Stål, 1855) (*Heteroptera: Pentatomidae*) in population of Georgia**

Natalia Kharabadze, Nino Tsiklauri, Tea Abramishvili, [Medea Burjanadze](#).

**14:50 OP30 - Exploring Fungal Formulations and Host-Pathogen Dynamics in *Beauveria spp.* and *Melolontha melolontha***

[Hannah Embleton](#), Maria Zottele, Jürg Enkerli, Ulrich J. Griesser, Hermann Strasser

**15:05 OP31 - Biodiversity Soil Resilience (BSR): A new index to assess resilience in environmentally stressed ecosystems by including entomopathogenic fungi & nematodes**

[Eustachio Tarasco](#), Josefina Garrido, Alcides Moino Junior, Cezary Tkaczuk, Salustiano Mato, Giambattista Maria Altieri, Giuseppe Bari, Vito Santarcangelo.

**15:20 OP3 - A novel strain of *Akanthomyces muscarius* as a promising biological control agent against *Toumeyella parvicornis*.**

Nicolò Di Sora, Silvia Turco, Federico Brugneti, Luca Rossini, Mario Contarini, Stefano Speranza, [Angelo Mazzaglia](#)

**15:35 OP33 - A *Beauveria bassiana* (Balsamo) Vuill. genotype behaves unexpectedly in a Dehesa oak forest ecosystem**

[María Fernandez-Bravo](#), Inmaculada Garrido-Jurado, Jürg Enkerli, Enrique Quesada-Moraga

**15:50 OP34 - The Realized Niche of Entomopathogenic Fungi in Soil: Global and Local Aspects**

[Adrian Wolfgang](#), Samuel Bickel, Wisnu Adi Wicaksono, Gabriele Berg.

**16:05 Coffee Break**

## **SESSION 7 - ENTOMOPATHOGENIC BACTERIA; SLUGS and SNAILS**

Chairpersons: Jiří Nermuť and Pavel Dobeš

**16:25 KN8 - Biological control of slugs: Any chance for better future?**

[Jiří Nermuť](#)

**16:45 OP35 - Competitors or allies? Co-infection of insects by entomopathogenic pseudomonads, nematodes and fungi**

[Monika Maurhofer](#), Maria Zwysig, Anna Spescha, Jürg Enkerli, Christoph Keel, Raquel Campos-Herrera, Giselher Grabenweger

**17:00 OP36 – Unravelling the Biological Functions of *Photorhabdus lectins*: Insights into Pathogenicity and Symbiotic Relationships**

[Pavel Dobeš](#), Eva Paulenová, Filip Melicher, Marek Korsák, Josef Houser, Pavel Hyršl, Michaela Wimmerová.

**17:15 OP37 – Probiotic bacteria as a tool for improving honey bee health**

[Pavel Hyršl](#), Pavel Dobeš, Saetbyeol Lee, Jiří Killer, Jana Hurychová, Sara Šreibr, Jacek Marciniak, Dalibor Titěra, Jaroslav Havlík

17:30

## CLOSING SESSION

IOBC/WPRS reports (Director of DRCTI, Representant of IOBC/WPRS, Representant of organizers)

18:00

Networking and wine taste

## POSTERS

(sections during lunchtime on September 9, 10, and 11)

### ENTOMOPATHOGENIC NEMATODES

- P1\*** Dose response of entomopathogenic nematodes in controlling fall armyworm and preventing maize damage  
Kajuga N.J., Waweru B.W., Nyombayire A., Mutumwinka M., Hategekimana A., Ndereyimana A., Umulisa C., Ishimwe P.M., Bazagwira D., Bigirimana V.P., Cadeau G., Fallet P., Turlings T.C.J., Xun Y., Rui Tang, [Toepfer S.](#)
- P2** Do entomotoxic protease inhibitors and lectins from higher fungi affect entomopathogenic nematodes?  
[Stefan Toepfer](#), Jerica Sabotič
- P3** Beyond infection: Unveiling the response of *Drosophila suzukii* to entomopathogenic nematodes  
[Anna Garriga Oliveras](#), Ana Morton, Duarte Toubarro, Nelson Simões, Maurizio F. Brivio, Fernando García del Pino
- P4** *Steinernema carpocapsae* and *Heterorhabditis bacteriophora* Elicit Distinct Responses in *Popillia japonica*  
Duarte Toubarro, Tiago Paiva, Jorge Frias, [Nelson Simões](#).
- P5** Nanoformulation of Entomopathogenic Nematode Venom Proteins for Insect Pest Control: A Proof-of-Concept Study  
[Jorge Frias](#), Duarte Toubarro, Nelson Simões.
- P6\*** ShK a family of toxic domains expressed and released by *S. carpocapsae*  
[Tiago Paiva](#), Duarte Toubarro, Jorge Frias, Nelson Simões.

### FUNGI

- P7\*** Preliminary studies of pathogens present in Latvian outbreak population of the European spruce bark beetle (*Ips typographus* L)  
[Liga Jankevica](#), Ilze Dubova, Agnis Šmits
- P8** Entomopathogenic fungi and nematodes Isolated from soil of blueberry orchids in Georgia  
[Medea Burjanadze](#), Oleg Gorgadze, Natalia Kharabadze, Nino Manvelidze
- P9** Entomopathogenic strains as biological tool in the containment of *Philaenus spumarius*, the main vector of *Xylella fastidiosa* in Europe  
Francesco Volpe, Nicola Bodino, Vincenzo Sasso, Stefano Demichelis, Riccardo Barbera, Domenico Bosco, [Paola Dolci](#)
- P10\*** The Entomopathogenic Fungus *Metarhizium Brunneum* Petch for the Control of Whiteflies in Protected Cultivation  
[Suma Pompeo](#), Marco Di Domenico, Alessia Farina, Carmelo Rapisarda

**P11\* Exploring indigenous entomopathogens for sustainable management of the invasive Box Tree Moth (*Cydalima perspectalis*)**

Bengoa, P., Santesteban, X., Molina, C., [Murillo, R.](#), Ruiz de Escudero, I

**P12\* Hypotonicity-induced trehalose uptake improves Desiccation Tolerance in *Metarhizium brunneum* Blastospores**

[Ehsan Asgahri](#)

**P13\* Effects of soil-deployed entomopathogenic and other beneficial fungi on strawberry canopy arthropods**

[Jaka Razinger](#), Igor Nekrep, Morgane Ourry, Nika Cvelbar Weber, Špela Modic, Eva Praprotnik, Hans-Josef Schroers, Primož Žigon, Nicolai Vitt Meyling

**P14 Integrated pest management against *Scaphoideus titanus*: MICOTI project and fungal-based strategies**

[Paola Dolci](#), Marika Rossi, Marta Vallino, Riccardo Barbera, Domenico Bosco, Simona Abbà

**P15 The possibility of using pheromone traps and entomopathogenic fungi in controlling *Agrilus* species responsible for spreading bacterial disease on *Quercus ilex***

[Milan Pernek](#), Marta Kovač

## SOIL PEST POPILLIA

**P16\* De novo assembly and annotation of *Popillia japonica*'s genome with initial clues to its potential as an invasive pest**

[Rebecca Funari](#), Claudio Cucini, Sara Boschi, Elena Cardaioli, Nicola Iannotti, Giovanni Marturano, Francesco Paoli, Mirella Bruttini, Antonio Carapelli, Francesco Frati, Francesco Nardi

**P17\* Comparative Study of the Mycobiome in High and Low-Density Populations of *Popillia japonica* from the Azores**

Jorge Frias, Anna Garriga, Ángel Peñalver, Mário Teixeira, Rubén Beltrí, Margarida Borges, [Hugo R. Monteiro](#), Duarte Toubarro, Nelson Simões

**P18 Gut Microbiome Influence on Japanese Beetle Fitness: Evidence from Reciprocal Transfer Experiments from two populations**

[Hugo R. Monteiro](#), Ángel Peñalver, Mar Calvet, Jorge Frias, Anna Garriga, Mário Teixeira, Duarte Toubarro, Nelson Simões

**P19 Soil microbiome modulates the transcriptome profile of *Popillia japonica* larvae**

Duarte Toubarro, Jorge Frias, Marina Oliveira, Hugo Monteiro, [Nelson Simões](#)

**P20 A New Natural Enemy of Japanese Beetle Larvae: Field-Discovered Bacterial Agent Shows Efficacy Against *Popillia japonica***

[Daniel C. Ladeira](#), Hugo R Monteiro, Jorge Frias, Mário Teixeira, Carla Cabral, Duarte Toubarro, Nelson Simões

**P21 Entomopathogenic fungi: Persistence of conidiospores on blackberry leaves and subsequent virulence against adult Japanese beetles**

[Magdalena Wey](#), Lara Wyser, Etienne Hösli, Monika Maurhofer, Giselher Grabenweger

**P22 Biocontrol potential of insect soil assemblages associated with *Popillia japonica* in the Azorean crop fields**

[Mário Teixeira](#), António O. Soares, Paulo A. V. Borges, Hugo Monteiro, Jorge Frias, Nelson Simões.

## SLUGS AND SNAILS

**P23\*** Potential of selected nematode species for slug control

[Bożena Kordan](#), Beata Gabryś

## VIRUSES

**P24** *Leucoma salicis nucleopolyhedrovirus (LesaNPV)* genome sequence shed new light on the origin of the *Alphabaculovirus orpseudotsugatae* species

[Bogusław Szewczyk](#), Martyna Krejmer-Rabalska, Lukasz Rabalski, Iwona Skrzecz, Jadwiga Ziemnicka

## ENTOMOPATHOGENIC BACTERIA

**P25\*** Exploring *Bacillus thuringiensis* Cry proteins potential and new strains characterization for the Invasive Box Tree Moth (*Cydalima perspectalis*) control

Unzué, Júlia, Otamendi, Felix, Mena, Miguel, Bengoa, Paul, Murillo, Rosa, [Ruiz de Escudero, Iñigo](#)

**P26\*** The diversity of *Bacillus thuringiensis* isolated in the Azores against Lepidoptera, Coleoptera, and Diptera pests

[Mário Teixeira](#), Ricardo Ferreira, Teresa Novo, Carla Cabral, Paulo Almeida, Nelson Simões

*\*Posters selected to be presented in the Flash Poster Presentation section*