

PROGRAMME 74th ISCP - 23 May 2023

Schedule (CEST)

08:00	REGISTRATION (building E, ground floor, Agora)
09:30-10:40	PLENARY SESSION (building E, first floor, room E1)
10:40-11:10	COFFEE BREAK (building E, ground floor, Agora)
11:10-12:30	ORAL SESSIONS (building E)
12:30-13:40	LUNCH (building E, ground floor)
13:40-14:40	POSTER SESSION (building E)
14:40-15:00	COFFEE BREAK (building E, ground floor, Agora)
15:00-17:20	ORAL SESSIONS (building E)
17:20	RECEPTION (building E, ground floor, Agora)
19:30	BANQUET Handelsbeursgebouw – Brasserie Ha Kouter 29 9000 GHENT

THE SYMPOSIUM VENUE

Session	Blok (Building)	Floor	Auditorium No
Plenary Session	E	first	E1 (OEHOE)
Special session: The design and rational use of green and highly selective insecticides	E	first	E2
Phytopathology	E	first	E1 (OEHOE)
Agricultural Entomology and Acarology	E	first	E2
Nematology	E	first	E3
Formulation Technology and Pesticide Residues: Toxicology and Ecotoxicology	E	second	E4
Application Technology	E	second	E4
Herbology	E	second	E5
Poster session	E	first	hallways

Plenary Session

Chair **K. AUDENAERT** (Ghent University, Ghent, Belgium)

Secretary **B. VANDEKERKHOVE** (Ghent University, Ghent, Belgium)

Room E1 (OEHOE)

09:30 **B. MCDONALD** (Institute of Integrative Biology, Zurich (IBZ), Switzerland)

- The evolution of plant pathogens in agricultural ecosystems

10:05 **A.K. MAHLEIN** (Institute of Sugar Beet Research, associated institute at the University of Göttingen, Göttingen, Germany)

- Sensors, robots and artificial intelligence for plant disease detection and integrated pest management

10:40 **Coffee Break**

Special Session

The design and rational use of green and highly selective insecticides

Chair: **J. VONTAS** (IMBB-FORTH, Heraklion; Agricultural University of Athens, Athens, Greece)

Vice-chair: **T. VAN LEEUWEN** (Ghent University, Ghent, Belgium)

Secretary: **M. VANDENHOLE** (Ghent University, Ghent, Belgium)

Room E2

11:10 **K. MAVRIDIS, K.M. PAPAPOSTOLOU, A. ILIAS, M. RIGA, M. STAVRAKAKI, E. RODITAKIS, A. TSAGKARAKOU, C. BASS, T. VAN LEEUWEN & J. VONTAS** (IMBB-FORTH, Heraklion; Agricultural University of Athens, Athens, Greece)

- Molecular diagnostics for resistance monitoring in major agricultural pests

11:30 **L. TALMANN, C. ZIMMER, J. RIVERON, S. JIANG, A. PYM, P. MILNES, D. OLIVER, H. THOMPSON, S. SINGH & A. CROSTHWAITE** (Syngenta Crop Protection, Stein, Switzerland)

- The use of P450 in the rational/selective design of pesticides

11:50 **J. MINA** (Syngenta, Jealott's Hill Research Station, Berkshire, UK)

- Case Study: New Modalities Acting on the Insect nAChR for Pest Control

12:10 **T. VAN LEEUWEN** (Ghent University, Ghent, Belgium)

- The design of highly selective pesticides: lessons from mite-specific acaricides

Session
Agricultural Entomology and Acarology

Chair: **B. GOBIN** (PCA, PCG, Kruishoutem; PCS, Destelbergen, Belgium)

Vice-chair: **M. AMEYE** (Inagro, Rumbeke-Beitem, Belgium)

Secretary: **C. NOPPE** (Ghent University, Ghent, Belgium)

Room E2

15:00 **M.W.J. GEERINCK, S. VAN HEE, G. GLODER, S. CRAUWELS, S. COLAZZA, H. JACQUEMYN, A. CUSUMANO & B. LIEVENS** (KU Leuven, Leuven, Belgium)

- Studying insect egg microbiomes: a first step towards the development of microbial elicitors

15:20 **N. DI SORA, L. ROSSINI, M. CONTARINI, G. MASTRANDREA & S. SPERANZA** (Università degli Studi della Tuscia, Viterbo, Italy)

- Long-term evaluation of endotherapeutic treatment against *Toumeyella parvicornis* Cockerell: comparison among three techniques applied on *Pinus pinea* L.

15:40 **J. CLAERBOUT & M. AMEYE** (Inagro vzw, Rumbeke-Beitem, Belgium)

- Biological control of aphids in strawberry glasshouses: piece of cake or not?

16:00 **G. GLODER, M.E. BOURNE, C. VERRETH, L. WILBERTS, S. BOSSAERT, S. CRAUWELS, M. DICKE, E.H. POELMAN, H. JACQUEMYN & B. LIEVENS** (KU Leuven, Leuven, Belgium)

- Parasitic wasps alter the microbiome of caterpillar hosts

16:20 **B. NGALA, F. MANCEAU & Y. LE HINGRAT** (Inov3PT, Achicourt, France)

- The integration of cover crops and entomopathogenic fungi to manage wireworm pests of potatoes

16:40 **F.A.C. VAN NEERBOS, R. MERTENS, F. WÄCKERS, L. BOSMANS, T. WENSELEERS, H. JACQUEMYN & B. LIEVENS** (KU Leuven, Leuven, Belgium)

- Microbe-based semiochemicals to improve biological control of aphids by parasitoids

17:00 **S. VAN HEE, I. STOCKMANS, H. JACQUEMYN & B. LIEVENS** (KU Leuven, Leuven, Belgium)

- Effects of fertilization on plant growth and herbivore resistance induced by beneficial fungi

Session
Phytopathology

Chair: **A. LEGRÈVE** (UCLouvain, Earth and Life Institute, Louvain-la-Neuve, Belgium)

Vice-chair: **T.M. TRAN** (KU Leuven, Leuven, Belgium)

Secretary: **H. MESTDAGH** (Ghent University, Ghent, Belgium)

Room E1 (OEHOE)

11:10 **F. AIT KOUJANE, M. DUBAN, M. CHOLLET, E. DUSSERT, J. BEHRA, V. LECLERE & F. KRIER** (Université de Lille; Université de Liège, Lille, France)

- A combined approach of genome mining and in vitro evaluation of Biocontrol and Plant Growth-Promoting Bacteria (PGPB) functions of *Pseudomonas* strains

11:30 **E. VAN OOST, L. LEUS, K. VAN LAERE, B. DE RYBEL & K. HEUNGENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle; Ghent University, Ghent, Belgium)

- Diversity of *Phytophthora* isolates from Lavandula to help develop a screening bioassay

11:50 **S. MARCOU, M. WIKSTRÖM, L. PERSSON, S. RAGNARSSON, J. WIKSTRÖM, R. VERDOODT & M. HÖFTE** (Ghent University, Ghent, Belgium)

- Characterization of a new evolving anastomosis subgroup of *R. solani* (AG 5-2) from Sweden

12:10 **J. TAN, N. DE ZUTTER, J. VERWAEREN, M. AMEYE, S. DE SAEGER, M. DE BOEVRE, L. DE TROYER, T. VAN DER LEE, C. WAALWIJK & K. AUDENAERT** (Ghent University, Ghent, Belgium)

- At the crime scene of a cereal killer: Uncovering new insights in the Fusarium Head Blight disease complex in wheat through multispectral imaging

Session
Phytopathology

Chair: **J. DEBODE** (ILVO, Merelbeke; Ghent University, Ghent, Belgium)

Vice-chair: **W. DESMEDT** (Ghent University, Ghent, Belgium)

Secretary: **L. VANDENBULCKE** (Ghent University, Ghent, Belgium)

Room E1 (OEHOE)

- 15:00 **A. CEUSTERMANS, J. FERREIRA, S. LAURIJSEN, P. MELIS, H. REDIERS, B. LIEVENS, W. VAN HEMELRIJCK, M. HOLTAPPELS & D. BYLEMANS** (Research Center for Fruit Growing, Sint-Truiden, Belgium)
- Integrated management strategy of root diseases in strawberry cultivation
- 15:20 **C. CARTON, J-M. DOMON, M. MAGNIN-ROBERT, B. RANDOUX, J. PELLOUX, A. LOUNES - HADJ SAHRAOUI & C. PAU-ROBLLOT** (Université de Picardie, Amiens, France)
- Oligogalacturonide (OG) production - new prospects for plant disease biocontrol and plant health
- 15:40 **L. DE TROYER, S. DE SAEGER, M. DE BOEVRE, F. DUMOULIN, L. DE GELDER & K. AUDENAERT** (Ghent University, Ghent, Belgium)
- Actinobacteria as a multiple modes-of-action biocontrol strategy against Fusarium Head Blight and zearalenone production
- 16:00 **J. GOOSSENS, A. NESLER, A. VERMAETE & J. DE SAEGHER** (Bi-PA (Biological Products for Agriculture), Londerzeel, Belgium)
- New biofungicide with excellent activity against major leaf diseases in rice
- 16:20 **E. DUTILLOY, A. ARGUËLLES ARIAS, N. RICHT, M. DUBAN, V. LECLERE, P. JACQUES, C. CLÉMENT, E. AIT BARKA & Q. ESMAEEL** (Université de Reims Champagne Ardenne, Reims, France)
- Plant-Associated *Bacillus velezensis* BE2 reveals a promising biocontrol effect against Net Blotch Disease in Barley (*Hordeum vulgare*)
- 16:40 **A. KOUSAR, N. DE ZUTTER, P. VANDAMME & K. AUDENAERT** (Ghent University, Ghent, Belgium)
- Biocontrol activity of *Burkholderia* strains against *B. cinerea* infection in tomato and *F. graminearum* infection in wheat
- 17:00 **K. VAN LOOKE, M. HÖFTE & B. DE CONINCK** (KU Leuven, Heverlee; Ghent University, Ghent, Belgium)
- Biocontrol of *Phytophthora cryptogea* in hydroponic lettuce and chicory cultivation

Session
Nematology

Chair: **K. DAVIES** (University of Hertfordshire, Hatfield, UK)

Vice-chair: **L. MOLENDIJK** (Wageningen University and Research, Lelystad, the Netherlands)

Secretary: **L. TANING** (ILVO, Merelbeke; Ghent University, Ghent, Belgium)

Room E3

11:10 **M. GOITOM TEKLU, C.C. VAN SCHAIK & J. VOSSEN** (Wageningen University and Research, Wageningen, The Netherlands)

- Screening resistance of wild potato genotypes to a virulent Dutch potato cyst nematode, *Globodera pallida*

11:30 **S. WAHYUNI, K. SAIKAI, A. GOVERSE, J. VOSSEN & M. GOITOM TEKLU** (Wageningen University and Research, Wageningen, The Netherlands)

- Understanding the mechanism of resistance of wild potato genotypes to a virulent Dutch potato cyst nematode, *Globodera pallida*, in in vitro conditions

11:50 **S. WAHYUNI, K. SAIKAI, A. GOVERSE, J. VOSSEN & M. GOITOM TEKLU** (Wageningen University and Research; Wageningen University, Wageningen, The Netherlands)

- Screening of wild potato genotypes for resistance against *Pratylenchus penetrans* and insights on the mechanism of resistance under in vitro conditions

12:10 **J.H.M. VISSER, L.P.G. MOLENDIJK & W.M.L. WESEMAEL** (Wageningen University and Research - Open Field, Lelystad, the Netherlands)

- Integrated Nematode Control of *Meloidogyne chitwoodi* and *M. fallax* in potato

Session
Nematology

Chair: **K. DAVIES** (University of Hertfordshire, Hatfield, UK)

Vice-chair: **L. MOLENDIJK** (Wageningen University and Research, Lelystad, the Netherlands)

Secretary: **L. TANING** (ILVO, Merelbeke; Ghent University, Ghent, Belgium)

Room E3

15:00 **H. KEFELEGN, B.H. MERESSA, M. COUVREUR, W.M.L. WESEMAEL, M. GOITOM TEKLU & W. BERT** (Jimma University, Jimma, Ethiopia; Ghent University, Ghent, Belgium)

- Diversity and characterization of some plant-parasitic nematodes associated with chickpea in the main cropping areas of Ethiopia

15:20 **C. WANJAU, W. BERT, N. NJIRA PILI, P. MASINDE & G. GHEYSEN** (Meru University of Science and Technology, Meru, Kenya; Ghent University, Ghent, Belgium)

- Plant-parasitic nematodes of finger millet in Kenya and their control by priming plant defense

15:40 **E. DEGROOTE, S. POCKELEE, S. MANGELINCKX & T. KYNDT** (Ghent University, Ghent, Belgium)

- Nefast as an innovative nematicidal product with biostimulant activity on tomato

16:00 **H. BEYZA EREN, G. AYDINLI & S. MENNAN** (Ondokuz Mayıs University, Samsun, Turkey)

- Potential and mechanisms of *Trichoderma* species in the biological control of root-knot nematodes

16:20 **R. PETERS, J.H.M. VISSER & L.P.G. MOLENDIJK** (Wageningen University & Research, Lelystad, the Netherlands)

- Interactions of plant-parasitic nematodes with plant pathogenic soil fungi

16:40 **J.A. PRICE, P. THORPE & J.T. JONES** (The James Hutton Institute, Invergowrie Dundee, Scotland UK)

- A novel nematode surface-coat protein aids host avoidance during infection

17:00 **H.J. WILEMAN, R.N. PERRY & K.G. DAVIES** (University of Hertfordshire, Hatfield, Hertfordshire, UK)

- Preliminary characterisation of the egg protein vitellogenin in *Heterodera schachtii*

Session

Formulation Technology and Pesticide Residues: Toxicology and Ecotoxicology

Chair: **C. DECLERCK** (Gembloux Agro-Bio Tech, ULiege, Belgium)

Vice-chair: **P. SPANOGHE** (Ghent University, Ghent, Belgium)

Secretary: **E. LÓPEZ DÁVILA** (Ghent University, Ghent, Belgium)

Room E4

11:10 **A. DE MAERE** (Minagro, Louvain la Neuve, Belgium)

- Green chemistry and the development of co-formulants to minimize the impact of agro-formulations : case study on in-can preservation in water-based formulations

11:30 **Q. WANG**, (Ingevity, North Charleston, South Carolina, USA)

- How to use easily accessible coformulants to control crystal growth in challenging SC formulations

11:50 **B. GUILLAUME, C. PIRLOT, L. LASSOIS, S. MASSART, A. DEGRÉ & C. DE CLERCK** (Gembloux Agro-Bio Tech, ULiege, Belgium)

- Identification of pesticide-degrading strains of soil bacteria in an innovative cropping system in transition to zero pesticide

12:10 **P. SPANOGHE** (Ghent University, Ghent, Belgium)

- EU-FarmBook, an EU-wide knowledge reservoir for practical solutions also in crop protection

Session
Application Technology

Chair: **P. SPANOGHE** (Ghent University, Ghent, Belgium)

Secretary: **E. EECKHOUT** (Ghent University, Ghent, Belgium)

Room E4

15:00 **E. AUSSEMS, R. CLYMANS, B. VAN HEGHE, L. BOSMANS, J. WITVROUWEN & R. DE VIS** (Proefstation voor de Groenteteelt, Sint Katelijne Waver, Belgium)

- Optimizing spraying technique to enhance the control of *A. lycopersici*

15:20 **I. ZWERTVAEGHER, N. MYLONAS, J-P. DOUZALS, M. GRELLA, A. CAFFINI, E. GIL, L.T. BERGER & D. NUYTTEENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)

- OPTIMA project: Results of 4 years development of innovative spraying technologies

15:40 **L. OLIVEIRA, P. MOURA, T. PINHO, M. VICTORIANO, P. BATISTA, J. PEREIRA, T. NOGUEIRA, F. SOARES, H. VIEIRA, F. PAVÃO & C. REIS** (Institute for Systems and Computer Engineering, Technology and Science, Porto, Portugal)

- Intelligent Monitoring to prevent pests and diseases in Olive Groves

16:00 **S. WANG, X. LI, D. LU, J. VAN BEEK, Y. TANG & D. NUYTTEENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)

- Airflow characteristics of a spray drone and its effect on spray droplet motion and characteristics

16:20 **A. WILLEKENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke; Ghent University, Ghent, Belgium)

- Site-specific spraying: comparison between local perception and task map generation

16:40 **S. POLLET & J. DE MEY** (Inagro vzw, Ieperseweg 87, 8800 Rumbeke-Beitem, Belgium)

- SMARTPROTECT: Thematic Network on smart IPM techniques for vegetable crop protection

**Session
Herbology**

Chair: **H. MENNAN** (Ondokuz Mayıs University, Samsun, Turkey)

Vice-chair: **B. DE CAUWER** (Ghent University, Ghent, Belgium)

Secretary: **S. DE RYCK** (Ghent University, Ghent, Belgium)

Room E5

15:00 **V. DE BLAUWER, K. DEMEULEMEESTER & E. HEYMAN** (Provincial Research and Advice Centre for Agriculture and Horticulture (Inagro vzw), Rumbeke-Beitem, Belgium)

- Mechanical haulm killing

15:20 **J. LATRÉ, V. CLAEYS, E. WAMBACQ, S. LANDSCHOOT, K. DEWITTE, V. DERYCKE & G. HAESAERT** (HOAGENT, University for Applied Sciences and Arts of Ghent, Ghent, Belgium)

- Weed control in maize undersown with grass in Flanders

15:40 **C. LACROIX, M. VAN DEN ABBELE, A. MONTY, C. DE CLERCK & B. DUMONT** (Gembloux Agro-Bio Tech - Uliège, Gembloux, Belgium)

- Effect of rotation in weed: the case of an innovative long-term cropping system in Belgium

16:00 **H. MENNAN, E. KAYA-ALTOP & F. PALA** (Ondokuz Mayıs University, Samsun, Turkey)

- New threats for Turkish agriculture *Amaranthus palmeri*

16:20 **R. DEVLAMYNCK, T. DECOOPMAN, D. CALLENS, J. FEYS, E. MEERS & B. DE CAUWER** (Provincial Research and Advice Centre for Agriculture and Horticulture (Inagro vzw), Roeselare, Belgium)

- Can naturally occurring Lemnaceae treat *Cyperus esculentus* infested fields?

16:40 **J. FEYS, D. REHEUL, C. SCIFFER, S. CLERCX, S. PALMANS & B. DE CAUWER** (Ghent University, Ghent, Belgium)

- Impact of electrocution on shoot and tuber vitality of yellow nutsedge (*Cyperus esculentus*)

Building E

Phytopathology

- P-01 **S. BALTI, M. SOUIHI, I. AMRI & Y. MABROUK** (National Center for Nuclear Sciences and Technologies (CNSTN), Sidi Thabet; Carthage University, Jarzouna, Tunisia)
- Biocontrol and PGP potential of some PGPR against Fusarium wilt of chickpea
- P-02 **V. JEGATHAMBIGAI, A.E. SVINNINGEN & R.S. WILSON WIJERATNAM** (Green Farms Bio A/S, Sandvika, Norway)
- Trichoderma enriched coir-based mushroom substrate for enhancing quality of queen palm, *Livistona rotundifolia*
- P-03 **M. LE GUEN, J. CROVADORE, B. COCHARD, R. CHABLAIS, L. ARMINJON, P-Y. BOVIGNY & F. LEFORT** (University of Applied Sciences and Arts Western Switzerland, Jussy, Switzerland)
- Assays of microbiological control against *Pseudomonas syringae* pathovars causing the bacterial canker of kiwi
- P-04 **B. COCHARD, L. ARMINJON, P-Y. BOVIGNY & F. LEFORT** (University of Applied Sciences and Arts Western Switzerland, Jussy, Switzerland)
- Evaluation of microbial biostimulants in soilless culture of sessile oak (*Quercus petraea*)
- P-05 **K. GASSER, L. ARMINJON, P-Y. BOVIGNY & F. LEFORT** (University of Applied Sciences and Arts Western Switzerland, Jussy, Switzerland)
- Evaluation of biostimulants in soilless glasshouse commercial tomato cultures
- P-06 **M. DELAETER, M. MAGNIN-ROBERT, B. RANDOUX & A. LOUNÈS-HADJ SAHRAOUI** (Université du Littoral Côte d'Opale, Calais, France)
- Protection of wheat against *Zymoseptoria tritici* by mycorrhizal inoculation
- P-07 **C. DUFRANE, K. ANTOONS, W. VANPARIJS, F. HUYTTENS, A. WAUTERS & L. HAUTIER** (IRBAB-KBIVB, Institut Royal Belge pour l'Amélioration de la Betterave, Tienen, Belgium)
- Beet intercropping with barley, a new strategy to control virus yellows?
- P-08 **F. GOUDOT, R. PLATEL, J.T. CORNELIS, A. SIAH & P. JACQUES** (BioEcoAgro, Junia, Université de Lille, Université de Liège, UPJV, Université d'Artois, ULCO, INRAE, Lille, France)
- On the potential of *Pseudomonas*-exuded isopyoverdine to enhance soil phosphorus availability and wheat bioprotection

Posters

- P-09 **L. MORANDINI, S. CAULIER, D. ALBERICO, A. LEGRÈVE, C. BRAGARD & J. MAHILLON** (UCLouvain, Louvain-la-Neuve, Belgium)
- *B. mycooides* antagonistic volatile compounds active against *P. infestans* and *A. solani*
- P-10 **L. VANDENBULCKE, K. AUDENAERT & K. WALGRAEVE** (Ghent University, Ghent, Belgium)
- Biological control of *Phytophthora infestans* in *Solanum tuberosum* by volatile organic compounds and other priming agents
- P-11 **T. VANWALLEGHEM, T. SMETS, W. VAN HEMELRIJCK, M. HOLTAPPELS, T. BELIËN, A. GEERAERD AMERYCKX, V. IEREMIA & D. BYLEMANS** (Research Center for Fruit Growing, Sint-Truiden, Belgium)
- Sustainable Botrytis disease management in *Rubus*
- P-12 **S. MBANJINTWARI, M. MWANGI & V. DE PAUL BIGIRIMANA** (Kenyatta University, Nairobi, Kenya)
- Farmer practices contributing to spread of late blight of potato in Rwanda
- P-13 **E. GEUKENS, L. LEUS, E. SMOLDERS & K. HEUNGENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle; KU Leuven, Leuven; Plant Select NV, Rijkvorsel, Belgium)
- A bio-assay to screen *Ilex crenata* for resistance against *Berkeleyomyces basicola*
- P-14 **P. HELLIN, M. BEELAERT, C. DUFRANE, M. RUH, E. DEMONTY, M. GOORMANS, , A. WAUTERS, S. STEYER & L. HAUTIER** (Centre wallon de Recherches agronomiques, Gembloux, Belgium)
- Monitoring of beet yellows-associated viruses in Wallonia, Belgium (2022)
- P-15 **H. MESTDAGH, K. VAN POUCKE, T. DOCKX, E. DENDAUW, A. DECOMBEL, I. VANDEVELDE, M. HÖFTE & K. HEUNGENS** (Ghent University, Ghent, Belgium)
- *Fusarium oxysporum* f.sp. lactucae, a threat to the lettuce industry
- P-16 **V. JEGATHAMBIGAI, A.E.SVINNINGEN & R.S. WILSON WIJERATNAM** (Green Farms Limited, Marawila, Sri Lanka)
- Optimization of parameters for mass production of selected *Trichoderma* isolates
- P-17 **Y. ZHAO, H. IBRAHIM, B. RIBEIRO, M. HERTOOG, B. NICOLAÏ & B. DE CONINCK** (KU Leuven, Leuven, Belgium)
- Unraveling plant responses triggered by *Botrytis cinerea* in strawberry fruit during ripening

Posters

Nematology

- N-01 **D. APOLÔNIO SILVA DE OLIVEIRA, T. WARBROEK, G. KARSEN, A.S. VAN BRUGGEN & E. VAN HEESE** (Netherlands Institute for Vectors, Invasive Plants and Plant Health (NIVIP) - National Plant Protection Organization, Wageningen, The Netherlands)
- Validation of RT-PCR for mixtures of *Meloidogyne chitwoodi* and *M. fallax*
- N-02 **L.M. TANING, L. CHANN, S. FLEERAKKERS, L. LIPPENS, E. FORMESYN, L. TIRRY & W.M.L. WESEMAEL** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke; Ghent University, Ghent, Belgium)
- Host plant status and damage threshold of Pea (*Pisum sativum*) and Celeriac (*Apium graveolens* var. rapaceum) for the temperate root-knot nematode *Meloidogyne chitwoodi*
- N-03 **F.H. TUMPA, MD. ATIQR RAHMAN KHOKON & T. KYNDT** (Ghent University, Ghent, Belgium)
- Systemic survey and field management of rice root-knot nematode *Meloidogyne graminicola* by using DHA and PA in Bangladesh

Formulation and Application Technology Pesticide Residues, Toxicology and Ecotoxicology

- A-01 **W. THAIMUANGPHOL & P. KASAMESIRI** (Mahasarakham University, Maha Sarakham, Thailand)
- Effect of pesticides on the egg hatchability of fairy shrimps, *Streptocephalus sirindhornae* and *Branchinella thailandensis*
- A-02 **P. HOENDERVANGERS, D. ROUSSEAU, D. CIRNE & P. SPANOGHE** (Ghent University, Ghent, Belgium)
- Benchmarking and the integration of nature-based solutions and engineered technologies for enhanced pesticide removal
- A-03 **A. ANKUR, B. NIDA, B. SANJIV MULLICK & A. ALKA GUPTA** (University of Delhi, New Delhi, India)
- Repellency and insecticidal activity of nano-emulsified formulation of *Eucalyptus citriodora* essential oil against *Spodoptera litura* (Fab.) (Lepidoptera: Noctuidae)
- A-04 **R.A. POLANCZYK, A. BRAVO & J. LUIZ DE OLIVEIRA** (São Paulo State University "Júlio de Mesquita Filho" - Unesp, São Paulo, Brazil)
- Insights on *Bacillus thuringiensis* encapsulated mode of action

Posters

- A-05 **E. EECKHOUT, P. SPANOGHE, G. HAESAERT, W.H. MAES, R. MARTENS, C. VAN CEULEBROECK, L. VOGELS** (Ghent University, Gent, Belgium)
- CLIMABIS: an IPM approach for yellow rust and drought stress in wheat
- A-06 **S. SENGUPTA PAL** (Tea Research Association, Kolkata, India)
- Artificial Intelligence: an emerging concept in Indian agriculture
- A-07 **J. DE ROP, L. DE WITTE, L. VANDENBULCKE, M. HÖFTE & P. SPANOGHE** (Ghent University, Gent, Belgium)
- *Pseudomonas* spp. as biocontrol agents against *Rhizoctonia solani* in seed treatments of beans

Agricultural Entomology and Acarology

- E-01 **M.V.A. DUARTE, D. VANGANSBEKE, S. FRANÇA, A. BENAVENTE, E. DE ROO, R. MOERKENS, J. PIJNAKKER, P. MELIS & F. WÄCKERS** (Biobest N.V., Westerlo, Belgium)
- Potential of *Pronematus ubiquitus* to control powdery mildew in strawberry crop
- E-02 **D. VANGANSBEKE, M. DUARTE, J. MERCKX, H. DEBIE, I. STEVENS, J. PIJNAKKER & F. WÄCKERS** (Biobest N.V., Westerlo, Belgium)
- Potential application of the winterschmidtiid mite *Czenspinksia transversostriata* in biological control
- E-03 **M. BEELAERT, C. DUFRANE, P. HELLIN, S. STEYER, Q. LIMBOURG, M. AKHAMLICH, M. DESGAIN, Q. SEPTEMBER, C. VOSS, M. DELCORPS, M. GOORMANS, E. DEMONTY, K. ANTOONS, W. VANPARIJS, F. HUYTTENS, A. WAUTERS & L. HAUTIER** (Centre wallon de Recherches agronomiques, Gembloux, Belgium)
- A better understanding of the beet yellows dynamics in different landscape contexts
- E-04 **L. BENETTI, M. DE BASTIANI, S. CIVOLANI & G. BERNACCHIA** (University of Ferrara, Ferrara, Italy)
- *Monarda didyma* volatile compounds against the plant pest *Drosophila suzukii*
- E-05 **J. BONTE, A. KUHN, G. SAN MARTIN, S. HASBROUCQ, O. VANHOUTTE, L. HAUTIER, T. BELIËN & J-C. GRÉGOIRE** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- Chasing jewels: developing a trapping strategy for *Agrilus* beetles in Belgium

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- E-06 **F. FOFANA, C. DESCOMBES, L. ARMINJON, P-Y. BOVIGNY & F. LEFORT** (HES-SO University of Applied Sciences and Arts Western Switzerland, Jussy, Switzerland)
- Isolation, identification and evaluation of native entomopathogenic fungi on *Galleria mellonella*
- E-07 **L. MÉRAT, F. RAFFINI, J. CROVADORE, L. ARMINJON, P-Y. BOVIGNY & F. LEFORT** (HES-SO University of Applied Sciences and Arts Western Switzerland, Jussy, Switzerland)
- Evaluation of isolates from three entomopathogenic fungal species against *Drosophila suzukii*
- E-08 **D. TSAKIRELI, M. VANDENHOLE, A.P. SPIROS, M. RIGA, V. BALABANIDOU, S. SINGH, J. RAY, C. ZIMMER, A. CROSSTHWAITE, J. RIVERON, L. TALMANN, T. VAN LEEUWEN & J. VONTAS** (Agricultural University of Athens, Athens; Institute of Molecular Biology and Biotechnology, Foundation for Research and Technology Hellas, Crete, Greece)
- Is the cytochrome P450 CYP392D family a “key player” in metabolic acaricide resistance in *Tetranychus urticae*?
- E-09 **A. DE ROISSART, S. FLEERAKKERS, F. TEMMERMAN, S. DARWICH, A. TACK & J. MOENS** (HOGENT - University of Applied Sciences and Arts, Ghent, Belgium)
- Alternative control of cabbage root fly
- E-10 **D. SANTOS, L. MINGELS, E. VOGEL, L. WANG, O. CHRISTIAENS, K. CAPPELLE, N. WYNANT, Y. GANSEMANS, F. VAN NIEUWERBURGH, G. SMAGGHE, L. SWEVERS & J. VANDEN BROECK** (KU Leuven, Leuven, Belgium)
- Generation of virus- and dsRNA-derived siRNAs with species-dependent length in insects
- E-11 **R. ANTONIO POLANCZYK, E. PETERLINI, F. SANTANA MACHADO, L. LETICIA BARBOSA DE CARVALHO, L. BARBOSA DE LACERDA** (São Paulo State University “Júlio de Mesquita Filho” - Unesp, São Paulo, Brazil)
- Selectivity of *Bacillus thuringiensis* to the parasitoid *Telenomus remus*
- E-12 **K. CRISTINA GONCALVES, R.A. POLANCZYK** (São Paulo State University “Júlio de Mesquita Filho” - Unesp, São Paulo, Brazil)
- Does the in vitro compatibility of pesticides predict the *Chrysodeixis includens* mortality?
- E-13 **K. CRISTINA GONCALVES, R.A. POLANCZYK** (São Paulo State University “Júlio de Mesquita Filho” - Unesp, São Paulo, Brazil)
- Sublethal effects of Bt biopesticides and pesticides on *Chrysodeixis includens*
- E-14 **A. BENRIMA, A. DJIDEL, I. DJEMAI, M. LAZAR, M. BELLATRECHE, A. ARABI, D. MAHDJOURI & F. OUTTAR** (University of Ghardaia, Ghardaia, Algeria)
- Description of plant groups in the gregarization biotopes of the Desert Locust *Schistocerca gregaria* Forsk., 1775 (Insecta, Acrididae) in southern Algeria

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- E-15 **A. BENRIMA, I. DJEMAI, M. LAZAR, M. BELLATRECHE, A. ARABI, D. MAHDJOUBI & F. OUTTAR** (University of Ghardaia, Ghardaia, Algeria)
- Distribution of the Desert Locust *Schistocerca gregaria* Forsk.1775 (Insecta, Acrididae), in southern Algeria, during a recession.
- E-16 **C. NJIRU, C. SAALWAECHTER, O. GUTBROD, S. GEIBEL, N. WYBOUW & T. VAN LEEUWEN** (Ghent University, Ghent, Belgium)
- A H258Y mutation in subunit B of the succinate dehydrogenase complex of the spider mite *Tetranychus urticae* confers resistance to cyenopyrafen and pyflubumide, but likely reinforces cyflumetofen binding and toxicity

Herbology

- H-01 **E. KAYA ALTOP & H. MENNAN** (Ondokuz Mayıs University, Samsun, Turkey)
- Identification of genetic difference of *Lolium rigidum* Gaudin with SSR markers in wheat fields
- H-02 **B. VERVISCH & J. CLAEYS** (Inagro vzw, Roeselare, Belgium)
- Strategic use of herbicides and cultivation techniques against resistant Black Grass (*Alopecurus myosuroides*) in winter grains: Results from the LEADER-project
- H-03 **B. VERVISCH** (Inagro vzw, Roeselare, Belgium)
- Weed reduction in soybean: a comparison between chemical and mechanical weed reduction taking into account plant height and yield effects
- H-04 **J. VANWIJNSBERGHE, L. DELANOTE, D. CALLENS, S. TORFS, J. LATRÉ, E. VAN DE VIJVER, G. VANDEVEN** (Inagro, Rumbeke, Belgium)
- Demonstration of mechanical weed control in different crops

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