

PROGRAMME 74th ISCP - 21 May 2024

Schedule (CEST)

08:00	REGISTRATION (building E, ground floor, Agora)
09:30-10:40	PLENARY SESSION (building E, first floor, room 1.002)
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, first floor)
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 Oude Vismijn, hall "Eau'rangerie" Sint-Veerleplein 5 9000 GHENT

Plenary Session

Chair **M. HÖFTE** (Ghent University, Ghent, Belgium)

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

Room: E1.002 (OEHOE)

09:30 **B. TORTO** (International Centre of Insect Physiology and Ecology, Nairobi, Kenya)

- Nature-based solutions for selected Solanaceae crop pests

10:05 **M. HÖFTE AND P. SPANOGHE** (Ghent University, Ghent, Belgium)

- 75 years of crop protection

10:40 **Coffee Break**

PRELIMINARY PROGRAMME

Special Session
Innovative crop protection systems

Chair:

Vice-chair:

Secretary:

Room: E1.002 (OEHOE)

11:10 **WASEEM MUSHTAQ, CAROLINE DE CLERCK, MARIE-LAURE FAUCONNIER** (University of Liège, Gembloux, Belgium)

- Assessment of induced allelopathy in crop-weed co-culture using the rye-pigweed model

11:30 **HARY RAZAFINDRALAMBO, MAJID MOUNIR, SONAGNON KOUHOUNDE, KIFOULI ADEOTI, PHILIPPE JACQUES** (University of Liège, Gembloux, Belgium; ProBioLab, Namur, Belgium.)

- Synbiotics for sustainable African farms

11:50 **DARDOURI TAREK, SARLES LANDRY, LEPIK ENE** (Agriodor, Rennes, France)

- Control of sugar beet yellows viruses by behavioural manipulation of aphid vectors in the field via volatiles

12:10 **PHILIPPE JACQUES, EMMA DUTILLOY, JEAN-YVES PARFAIT** (University of Liège, Gembloux, Belgium)

- Promoting Sustainable Farming: Walloon Network for Digital and Biocontrol Integration

Special session
Innovative crop protection systems

Chair:

Vice-chair:

Secretary:

Room: E1.002 (OEHOE)

15:00 **JENNIFER BYRNE, LAEL WALSH, FIONA THORNE AND ROB LILLYWHITE** (Teagasc, Carlow, Ireland; University of Warwick, Coventry, UK)

- Towards a Metric for Integrated Pest Management in Irish Horticulture

15:20 **KAREN DE KOCK, PIERFRANCESCO MOTTI, EVA DEGROOTE, MAAIKE PERNEEL, BRUNO CAMMUE, MONICA HÖFTE, KRISTOF DEMEESTERE, SVEN MANGELINCKX, DANNY GEELEN, TINA KYNDT** (Ghent University, Ghent, Belgium)

- Fennel and other Apiaceae waste extracts as novel inducers of plant immunity

15:40 **M.L. FAUCONNIER, M. GENVA, C. BURGEON** (University of Liège, Gembloux, Belgium)

- Botanicals: A Sustainable strategy in crop protection?

16:00 **M. HOUBRAKEN, T. DE MULDER, C. KLANK, G. BOSSUYT, S. VANDENABEELE, M. RICCI, I. VERCAUTEREN** (Apeha.Bio nv, Zwijnaarde, Belgium)

- VALORIA and VIRTUOSA - two novel biofungicides for cereals and fruit & vegetables

16:20 **FIFFANI B., DELVIGNE F., PHALIP V., DUTILLOY E., DENEYER G., COLLOT N., DELAPLACE P. AND JACQUES P.** (University of Liège, Gembloux, Belgium)

- Development of a new biostimulant based on *Trichoderma harzianum*, *Bacillus velezensis* and nitrate

16:40 **HEANG MADLENER S., ROCHEX A., BRICOUT A., PELUS A., MORRIS C., BARDIN M., NICOT P., SIAH A., TISSERAND B., DUBAN M., JACQUES P., LECLERE V., LECOUTURIER D.** (Université de Lille, Université de Liège, UMRt BioEcoAgro 1158-INRAE, Lille, France)

- Potential of lipopeptide-producing *Pseudomonas syringae* strains for biocontrol

17:00 **JARI TEMMERMANS, J.T., MARIE LEGEIN, M.L., ILARIA CHECCHIA, I.C., WENKE SMETS, W.S., REET KARISE, R.S., SARAH LEBEER, S.L.** (Antwerp University, Antwerp, Belgium)

- Common cultivation practices drastically shape the strawberry flower microbiome

Session
Phytopathology: control

Chair:

Vice-chair:

Secretary:

Room:

11:10 **E. GEUKENS, L. LEUS, E. SMOLDERS, K. HEUNGENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle; KU Leuven, Leuven, Belgium)

- Black root rot resistance screening in *Ilex crenata*

11:30 **KORNIICHUK M., VAN CUTSEM E., VAN AUBEL G., MÉTILLON G., VAN CUTSEM P.** (Fytofend S.A., les Isnes, Belgium)

- Resilient Sugar Beets: Oligosaccharide Elicitors for Cercospora Leaf Spot Control

11:50 **MONTANARI, S., NESLER, A., LONGA, C. M. O., PERAZZOLLI, M.** (University of Trento, Trento; Research and Innovation Centre, Fondazione Edmund Mach, Trento, Italy)

- Efficacy of a new fungicide against tomato grey mold

12:10 **LENA PESENTI, CLAUDE BRAGARD** (UCLouvain, Earth and Life Institute, Louvain-la-Neuve, Belgium)

- Exploring Salicaceae xylem endophytes interplay with *Xylella fastidiosa* or *Brenneria salicis*

Session
Phytopathology: control

Chair:

Vice-chair:

Secretary:

Room:

- 15:00 **LIESE VLASSELAER, SAM CRAUWELS, BART LIEVENS AND BARBARA DE CONINCK** (KU Leuven, Leuven, Belgium)
- A Microbiome Study on Healthy and Phytophthora cryptogea-Inoculated Lettuce
- 15:20 **KILIAN VAN LOOKE, JASMINE DE ROP, MONICA HÖFTE, BARBARA DE CONINCK** (Ghent University, Ghent, Belgium)
- *Harnessing Bacillus spp. for Phytophthora cryptogea* biocontrol in hydroponic lettuce
- 15:40 **H. MESTDAGH, A. HAEGEMAN, T. DOCKX, J. VAN MULLEM, A. DECOMBEL, I. VANDEVELDE, K. HEUNGENS, M. HÖFTE** (Ghent University, Ghent, Belgium)
- *Fusarium oxysporum* f.sp. *lactucae* pathotypes: genotyping and alternative hosts
- 16:00 **DELAETER M., LUCAU A., MAGNIN-ROBERT M., RANDOUX B., LOUNES-HADJ SAHRAOUI A.** (Bi-PA (Université du Littoral Côte d'Opale, Calais cedex, France)
- Mycorrhizal inoculation modulates wheat leaf transcriptome and resistance to Septoria Tritici Blotch
- 16:20 **KENFAOUI JIHANE, DUBAN MATTHIEU, LE GUILLOUZER SERVANE, LECLÈRE VALÉRIE, AIT BARKA ESSAID AND ESMAEEL QASSIM** (Université de Reims Champagne Ardenne, Reims, France)
- Heterologous Expression of Cyclic Lipopeptides for Grapevine Protection
- 16:40 **A. RAZACK SARE, M. HAISSAM JIJAKLI AND S. MASSART** (University of Liège, Gembloux, Belgium)
- Highlighting the complexity of pathogenesis: the host microbiota impacts disease development on apple fruit and is a cornerstone for its biocontrol
- 17:00 **CÉLINE DE PESSEMIER, MICHEL VANDECASTEELE, KELLY HAMONTS, DANIEL VAN DAMME & SOFIE GOORMACHTIG** (VIB-UGent, Center of Plant Systems Biology, Zwijnaarde, Belgium)
- Unravelling mode-of-action of biocontrol agents to combat fungal diseases in wheat

Session
Phytopathology: characterisation

Chair:

Vice-chair:

Secretary:

Room:

11:10 **SHIRLEY MARCOU, INNE KERSTENS, ROOS BEX, JULIE MOYSE, OLIVIER LEROUX, ANTHONY QUÉRO, KATHY STEPPE, MONICA HÖFTE** (Ghent University, Ghent, Belgium)

- Plant xylem metabolite and starch dynamics in the *V. dahliae* – pepper interaction

11:30 **LISA HERMAN, RANI MERTENS, EVELIEN AUSSEMS, RIK CLYMANS, KURT HEUNGENS** (Research station for vegetable production, Sint-Katelijne-Waver, Belgium)

- Characterization of *Fusarium* isolates involved in a new wilting disease in sweet pepper

11:50 **E. PAUWELYN, M. AMEYE, T. ARNOUITS, I. VANDEVELDE, N. DECLERCK, L. VERGOTE, S. VERHELST, A. DECOMBEL, E. TARDY** (Inagro vzw, Rumbeke, Belgium)

- *Berkeleyomyces rouxiae* causes Black Root Rot on lamb's lettuce in Flanders

12:10 **INE DEWITTE, ELIEN GULDENTOPS, MAAIKE HEYNEMAN, YOIKA FOUCART, KRIS DE JONGHE, STEFAAN P.O. WERBROUCK** (Flanders Research Institute for Agricultural Fisheries and Food, Merelbeke (ILVO); Ghent University, Ghent, Belgium)

- Detection of plant viruses with high-throughput sequencing and in vitro elimination of detected viruses

**Session
Nematology**

Chair:

Vice-chair:

Secretary:

Room:

- 11:10 **PRICE, J.A., ALI, M.F., MAJOR, L.L., SMITH, T.K. & JONES, J.T** (The James Hutton Institute, Dundee, Scotland)
- The molecular basis of the potato cyst nematode hatching cascade
- 11:30 **JUNWEI HU, UMMEHANI HASSI, MESFIN TSEGAYE GEBREMIKAEL, KENNETH DUMACK, TOM DE SWAEF, WIM WESEMAEL, STEVEN SLEUTEL, STEFAAN DE NEVE** (Ghent University, Ghent, Belgium)
- Root traits explain multitrophic interactions of belowground nematodes on soil nitrogen mineralization and plant productivity
- 11:50 **BRINKMAN P., KURM V., VISSER J., KORTHALS G.** (Wageningen University and Research – Field Crops, Lelystad , the Netherlands)
- Effects of agricultural system and soil measures on nematodes
- 12:10 **TANING L.M., AUDENAERT, J. , DELCOUR, I., KYNDT, T. AND WESEMAEL, W.M.L.** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- Effectiveness of (biological) agents against plant-parasitic nematodes under field conditions in tree nurseries

**Session
Nematology**

Chair:

Vice-chair:

Secretary:

Room:

15:00 **RICHARD A. SIKORA** (University of Bonn, Bonn, Germany)

- Improving root health in crop production systems in Sub Saharan Africa, using new technologies for integrated nematode management.

15:20 **JOSEPH MAOSA, DENIS GITONGA, ZIPPORAH GITHINJI, HUU TIEN NGUYEN, MARJOLEIN COUVREUR, LAURA CORTADA, CELESTINE ODUOR, DANNY COYNE & WIM BERT** (Ghent University, Ghent, Belgium)

- Challenges and prospects of nematode identification, with a spotlight on coffee nematodes in Kenya

15:40 **FARZANA HAQUE TUMPA, MD ATIQR RAHMAN KHOKON, SATISH NAMDEO CHAVAN, TINA KYNDT** (Ghent University, Ghent, Belgium)

- Comprehensive Investigation on Rice Root-Knot Nematodes in Bangladesh: Molecular Profiling, Pathogenicity Assessment, and Resistant Variety Screening

16:00 **MOLENDIJK L.P.G.** (Wageningen University and Research - Open Fields, Lelystad, the Netherlands)

- Integrated Nematode Management (INM) as part of Integrated Crop Management (ICM)

16:20 **KEITH G DAVIES** (University of Hertfordshire, Hatfield, UK)

- The Origin of the Cuticle Surface Coat: lessons from *Caenorhabditis elegans* Applied to Phytonematodes

Session
Formulation and Application Technology

Chair:

Vice-chair:

Secretary:

Room:

11:10 **HOENDERVANGERS P., SPANOGHE P., ROUSSEAU D.P.L., CIRNE D.** (Ghent University, Ghent, Belgium)

- Benchmarking and integrating nature-based solutions and engineered technologies for enhanced pesticide removal

11:30 **JULIE MOELANTS, LIEN BOSMANS** (Proefcentrum Hoogstraten, Meerle, Belgium)

- Repeated UV-C treatments to control powdery mildew in tomato and side effect on *Aculops Lycopersici*.

11:50 **T. ANDARGIE ZEWDIE, I. ZWERTVAEGHER, D. NUYTTENS, J. VANWIJNSBERGHE, S. DE RYCK, B. DE CAUWER & P. VERBOVEN** (KU Leuven, Leuven, Belgium)

- Selecting optimal spray application techniques using a CFD modelling

12:10 **JAN VANWIJNSBERGHE, INGRID ZWERTVAEGHER, BENNY DE CAUWER, SANDER DE RYCK, EWODROS ANDARGIE ZEWDIE, PIETER VERBOVEN, DAVID NUYTTENS** (Inagro vzw, Rumbeke, Belgium)

- Coverage and deposition of spray application techniques in potato

Session
Pesticide Residues: Toxicology and Ecotoxicology

Chair:

Vice-chair:

Secretary:

Room:

16:40 **MICHAEL RAIMONDI, PIETER SPANOGHE, LAURA PEETERS, WIM REYBROECK, FEMKE DE VIS, DANY BYLEMANS, JEROEN BUYSSE, BENNY DE CAUWER** (Ghent University, Ghent, Belgium)

- A holistic approach to PPP withdrawal: integrating human and environmental risks

17:00 **BOUKHALFA H.H., GUEHILIZ N., DEGHTOUCHE K.** (Mohamed Khider University of Biskra, Biskra, Algeria)

- Assessment of Phytosanitary Challenges in Cereal Cultivation within an Arid Zone of Algeria

Session
Agricultural Entomology and Acarology

Chair:

Vice-chair:

Secretary:

Room:

- 15:00 **VANTHOURNOUT B., GOSSEYE J., TEMMERMAN F., CAUWELIER E., FLEERAKKERS S., DE ROISSART A.** (AgroFoodNature, University College Ghent, Ghent, Belgium)
- The use of bankerplants to recruit natural enemies in organic cabbage crops
- 15:20 **MARET D., NORGROVE L., SUTTER L.** (Bern University of Applied Sciences, Zollikofen, Switzerland)
- Weekly pollen optimises control of the tomato russet mite by *Pronematus ubiquitous*
- 15:40 **FAUVE MAERTENS, MAAIKE HEYNEMAN, ANNELIES HAEGEMAN, JOHAN WITTERS, JOCHEM BONTE, LISA HEYMAN, SASKIA BUYSSENS, KRIS DE JONGHE, WANNES DERMAUW** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- High-throughput sequencing surveillance of Bemisia tabaci: detecting plant viruses and insecticide resistance mutations
- 16:00 **ANDREA CHACON HURTADO, FANNY RUHLAND, ANTOINE BOULLIS & FRANÇOIS J. VERHEGGEN** (Université de Liège, Gembloux, Belgium)
- Beyond the smell: evaluation of wireworm potato varietal preference associated with tuber volatile emissions, palatability, and larval fitness
- 16:20 **IBTISSEM BEN FEKIH, MARCELLIN C. COKOLA, KENZA DESSAUVAGES, KOUANDA NONGAMANÉGRÉ, LALLIE GLACET, ATHANASE BADOLO, FRÉDÉRIC FRANCIS** (Université de Liège, Gembloux, Belgium)
- Biocontrol with Endophytic Entomopathogenic Fungi of the order Hypocreales
- 16:40 **I. CALLEWAERT, A. STAES, K.GEVAERT, A. HENDRIX AND K. DE SCHUTTER** (Ghent University, Ghent, Belgium)
- Characterisation of extracellular vesicles in insect cells
- 17:00 **MARIE FROYEN, WAN-YI LIAO, ELLEN PEETERS, JOACHIM AUDENAERT, RUTH VERHOEVEN, BRUNO GOBIN, PATRICK DE CLERCQ** (Ghent University, Ghent, Belgium)
- Biological Control of the Rhododendron Aphid using *Micromus angulatus*

**Session
Herbology**

Chair:

Vice-chair:

Secretary:

Room:

15:00 **VALÉRIE CLAEYS, JOOS LATRÉ, EVA WAMBACQ, SOFIE LANDSCHOOT, KEVIN DEWITTE, VEERLE DERYCKE AND GEERT HAESAERT** (University for Applied Sciences and Arts of Ghent, Bottelare; Ghent University, Ghent, Belgium)

- Weed control in intercropping maize with climbing beans in Flanders

15:20 **DUTORDOIR J., STEPPE K., VANHOUTTE B., REMY S., VERJANS W., GOMAND A., BELIËN T., THYS T., ODEURS W., VERELLEN J., DE CAUWER B.** (Ghent University, Ghent, Belgium)

- Challenges and opportunities for integrated weed management in pome fruit

15:40 **DENDAUW E., BODYN J., BUYSSENS S.** (PCG vzw, Kruishoutem, Belgium)

- Research in weed management in minor crops in Flanders

16:00 **JEROEN FEYS, DIRK REHEUL, WOLF DE SMET, SHANA CLERCX), SANDER PALMANS, GERT VAN DE VEN, BENNY DE CAUWER** (Ghent University, Ghent, Belgium))

- Effect of anaerobic soil disinfestation on tuber vitality of *Cyperus esculentus*

16:20 **HENRIET F., RABIER F. AND CREVITS C.** (Centre wallon de Recherches agronomiques (CRA-W), Gembloux, Belgium)

- Selectivity of several herbicides in sunflower (*Helianthus annuus*)

16:40 **S. DE RYCK, I. ZWERTVAEGHER, D. NUYTTENS, J. VANWIJNSBERGHE, T. ANDARGIE ZEWDIE, P. VERBOVEN & B. DE CAUWER** (Ghent University, Ghent, Belgium)

- Optispray: Performance of drift-reducing nozzles for controlling small weeds with foliar herbicides

Special session: Innovative Crop Protection Systems

S-01 **LUCA ROSSINI, NICOLAS BONO ROSSELLO, STEFANO SPERANZA, MARIO CONTARINI, EMANUELE GARONE** (Université libre de Bruxelles, Brussels, Belgium)

- PestFinder, a Marie Curie European fellowship on insect pest modelling: partial results

S-02 **BENETTI LORENZO, CIVOLANI STEFANO, BOSCOLO DAVIDE, OSTI RICCARDO, GARDINALI FILIPPO, BERNACCHIA GIOVANNI** (University of Ferrara, Ferrara, Italy)

- dsRNA-nanoparticles association enhances gene downregulation in *Halyomorpha halys*

S-03 **FARAH BOUBSI, CATHERINE CHEMOTTI, MAGALI DELEU, MARC ONGENA AND PHILIPPE JACQUES** (University of Liège, Gembloux, Belgium)

- Towards Sustainable Agriculture: screening methods to unveil new antifungals and biomolecules inducing plant systemic resistance

S-04 **C. BURGEON, A. SEGERS, P. JACQUES, M.-L. FAUCONNIER, M. H. JIJAKLI, F. FRANCIS** (University of Liège, Gembloux, Belgium)

- ADOPT-IPM : EU-China joint action to increase development and adoption of IPM tools

S-05 **C. BURGEON, M. DELEU, M.-L. FAUCONNIER, M. H. JIJAKLI** (University of Liège, Gembloux, Belgium)

- CERCOIL: Combatting Cercospora leaf spot disease using essential oil-based fungicides.

S-06 **K.F KAWTAR FARIH, H.R HARY RAZAFINDRALAMBO, M.M MAJID MOUNIR, P.J PHILIPPE JACQUES** (University of Liège, Gembloux, Belgium)

- Biocontrol potential of native citrus bacteria against *Penicillium* sp.

S-07 **MAROUANE MOHADDAB, MALIKA FAKIRI, YOUNES EL-GOUMI, MANON GENVA AND MARIE-LAURE FAUCONNIER** (University of Liège, Gembloux, Belgium)

- In vitro production of secondary metabolites by *Capparis spinosa* callus culture

S-08 **PIERRE LEONEL K. TAFOKEU TAGUIMJEU, MANON GENVA, FLORA MER AND MARIE-LAURE FAUCONNIER** (University of Liège, Gembloux, Belgium)

- EXTRABARK PROJECT: Towards a reinforced circular economy valorization of wood bark by-products by the extraction of valuable molecules as an alternative to synthetic products in agronomy and wood protection.

Posters

- S-09 **VAN DEN BERGHE LÉOPOLD, BURGEON CLÉMENT, JIJAKLI HAÏSSAM** (University of Liège, Gembloux, Belgium)
- TAVOIL: how to develop an essential oil-based fungicide against apple scab
- S-10 **M. HOUBRAKEN, M. RICCI, S. VANDENABEELE** (Apeha.bio nv, Zwijnaarde, Belgium)
- Apeha.Bio: an innovative approach to research and develop plant biostimulant and plant protection products
- S-11 **T. DE MULDER, M. RICCI, S. VANDENABEELE** (Apeha.bio nv, Zwijnaarde, Belgium)
- APEX, a revolutionary pipeline of microbial solutions
- S-12 **SEYED MEHDI JAZAYERI, LAURENT URBAN, JAWAD AAROUF AND FÉLICIE LAURI** (Avignon Université, Avignon, France)
- Flashes of UV-C light : a plant resistance inducer and biostimulant
- S-13 **BRIANNE NEWMAN, WENKE SMETS, SARAH LEBEER** (University of Antwerp, Antwerp, Belgium)
- SOS: Save our Strawberries. Understanding the strawberry phyllosphere and its potential in biocontrol
- S-14 **SAKHO, A., DIAGNE, A., DIOP, M.B., BA, A.S.A., GUEYE, M.T., GENVA, M., FRANCIS, F., AZADI, H. and FAUCONNIER, M.L.** (Université Gaston Berger, Saint Louis, Senegal)
- Post-harvest loss management initiative in Senegal using bio-pesticides derived from essential oils of indigenous plants for sustainability and food security
- S-15 **ETIENNE AKOUTOU MVONDOA, CAMILLE ULRICH DZOKOUO DZOYEM, MÉLAINE BISSOHON, LUCIEN BIDZANGA NOMO, BELLA MANGA FAUSTIN, ZACHÉE AMBANG, CHRISTIAN CILAS, EUNICE GOLDA DANIELE NDO** (Institute of Agricultural Research for Development (IRAD), Yaoundé, Cameroon)
- Microclimatic variations in cocoa-based agroforestry systems affect citrus Phytophthora foot rot disease intensity
- S-16 **BROES LAEKEMAN, WANNES DERMAUW, JOCHEM BONTE, ANNELIES CHRISTIAENS, LISE DE CLERCK, BRUNO GOBIN, JOHAN VAN HUYLENBROECK, EMMY DHOOGHE & PETER LOOTENS** (Ghent University, Ghent; Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Melle, Belgium)
- AI-based detection of thrips and whitefly species on sticky traps in greenhouses and vertical farms
- S-17 **FAITH NJERU, WILLEM DESMEDT, OLIVIER ZWAENEPOEL, GEERT HAESAERT, JAN GETTEMANS, GERALD MISINZO, TRANG TRAN MINH, KRIS DE JONGHE, AND KRIS AUDENAERT** (Sokoine University of Agriculture, Morogoro, Tanzania)
- Nanobodies as an innovative tool for the management of maize lethal necrosis disease

Posters

Phytopathology

- P-01 **DANIEL LEGESSE, AXELLE WAVRANT, FLORIANE OSZUST, THOMAS MASSY, LAURENCE MERCIER, SOPHIE LEPORINI, AMANDINE HAHN, NAJAT NASSR, FLORENCE FONTAINE, CÉDRIC JACQUARD, ESSAID AIT BARKA, LISA SANCHEZ, AND QASSIM ESMAEEL** (Université de Reims Champagne Ardenne, INRAE, RIBP USC 1488, Reims, France)
- Exploring Phyllosphere and Carposphere Microbiota of the Primary Grapevine Cultivars in the Champagne Region, France and PGP potential of some PGPR against Fusarium wilt of chickpea
- P-02 **SALMA BENCHLIH; RACHID LAHLALI; KAMAL ABERKANI; ESSAID AIT BARKA; AND QASSIM ESMAEEL** (Université de Reims Champagne Ardenne, INRAE, France ; Ecole Nationale d'Agriculture de Meknès, Meknes; University Mohammed Premier, Oujda, Morocco)
- Plant Growth-Promoting Bacteria: A Natural Defense Against *Clavibacter michiganensis* subsp. *michiganensis*, the Causative Agent of Bacterial Canker in Tomatoes
- P-03 **ALEXANDER GOVIN- SANJUDO, MARCIA M. ROJAS- BADIA, CÉDRIC JACQUARD, QASSIM ESMAEEL** (Université de Reims Champagne Ardenne, INRAE, RIBP USC 1488, Reims, France; University of Havana, Havana, Cuba)
- Bacillus isolated from Cuban wheat accessions: unveiling biocontrol mechanisms and drought tolerance through antagonistic activity and stress response
- P-04 **RIVIÈRE, JOHN; MOULIN, MEGANNE; SERNEELS, FRANÇOIS; BONNAVE, MAXIME; LANTERBECQ, DÉBORAH** (Haute Ecole Provinciale de Hainaut – Condorcet, Mons; Centre pour l'agronomie et l'agro-industrie de la Province de Hainaut, Ath, Belgium)
- Evaluation of the impact of fungicide application on microbial populations in potato crop
- P-05 **GAŠPAROVSKI J. JOZEF, LOC Č. MARTA, BUDAKOV B. DRAGANA, DUDAŠ N. TATJANA, PETREŠ J. MLADEN, KOVAČEVIĆ N. DOBRILA, GRAHOVAC S. MILA** (University of Novi Sad, Novi Sad, Serbia)
- Toxigenic potential of *Fusarium* sp. originating from sweet corn seeds
- P-06 **MESELDŽIJA N. MILICA , KOVAČEVIĆ N. DOBRILA , MIHALJFI J. TEODORA, PETREŠ J. MLADEN, GRAHOVAC S. MILA, STOJŠIN B. VERA, BUDAKOV B. DRAGANA** (University of Novi Sad, Novi Sad, Serbia)
- Pathogenicity assay of *Alternaria* spp. on apple fruits
- P-07 **TEODORA J. MIHALJFI, DOBRILA N. KOVAČEVIĆ, MILICA N. MESELDŽIJA, ALEKSANDRA KONJEVIĆ, MILA S. GRAHOVAC, TATJANA DUDAŠ, DRAGANA B. BUDAKOV** (University of Novi Sad, Novi Sad, Serbia)
- Mycopopulation of hazelnut kernel in Serbia

Posters

- P-08 **CHRISTIANE THEN, YAO AIME CONSTANT GBANGBO, CLÉMENCE BRAUN, ARNAUD TROFINO, FRÉDÉRIC FRANCIS** (University of Liège, Gembloux, Belgium)
- Selection of resistant sugar beet varieties for viral transmission by aphids
- P-09 **M. QUIÉVREUX, M. ONGENA, P. JACQUES, C. DE CLERCK, S. MASSART, P. DELAPLACE** (University of Liège, Gembloux, Belgium)
- RootBoost: towards a robust stimulation of plant root growth
- P-10 **C. TEMPLE, A. BLOUIN, D. BOEZEN, M. BOTERMANS, L. DURANT, K. DE JONGHE, P. DE KONING, T. GOEDEFROIT, L. MINET, S. STEYER, E. VERDIN, M.K ZWART, AND S. MASSART** (University of Liège, Gembloux, Belgium)
- Biological characterization of Physostegia chlorotic mottle virus, an emergent virus infecting vegetables
- P-11 **MARTINI F., GONTIER E., JIJAKLI M. H., FAUCONNIER M.-L., MUCHEMBLED J.** (University of Liège, Gembloux, Belgium)
- Anti-oomycete activities of essential oils on 3 genotypes of *Phytophthora infestans*
- P-12 **MANON GENVA, GAËLLE RACE, LOUISE VILAIN, MAGALI DELEU, MARC ONGENA AND MARIE-LAURE FAUCONNIER** (University of Liège, Gembloux, Belgium)
- Unravelling the functions of esterified oxylipins in plant stress responses
- P-13 **ALI-AROUS S, DJELOUAH K, HOUARI A, ALABI OJ, S'ETAMOU M, SANZANI SM** (University of Hassiba Ben Bouali, Chlef, Algeria)
- First report of *Neodidymelliopsis ranunculi* causing foliar black spot on citrus leaves in orchards of Algeria
- P-14 **RYM CHAOUCH, ZAYNEB KTHIRI, SAFA RFAI AND WALID HAMADA** (Carthage University, Tunis, Tunisia)
- Enhanced resistance of tomato against pathogenic fungi using microalgae extracts
- P-15 **ZAYNEB KTHIRI, MAISSA BEN JABEUR, MANEL KHALDI, WALID HAMADA** (Carthage University, National Institute of Agronomy of Tunisia, Tunis, Tunisia)
- *Trichoderma* spp. induce the systemic defense response in tomato against *Sclerotinia sclerotiorum*
- P-16 **ZAYNEB KTHIRI, WALID HAMADA** (Carthage University, National Institute of Agronomy of Tunisia, Tunis, Tunisia)
- The yeast *Meyerozyma* applied on tomato improve tolerance against fungal pathogens

Posters

- P-17 **AN DECOMBEL, ELLEN PAUWELYN, JANE DEBODE, KRISTOF MAENHOUT, ISABEL VANDEVELDE, TINNE DOCKX, JEROEN VAN MULLEM, KATHELIJNE FERKET AND MAARTEN AMEYE** (Inagro, Rumbeke-Beitem, Belgium)
- Insufficient efficacy of soil application of BCAs: Insights from qPCR used in field trials
- P-18 **BRAM VERVISCH, JONAS CLAEYS, DORIEN VANDERVEKEN, VEERLE DERYCKE** (Inagro, Rumbeke-Beitem, Belgium)
- Striving for optimal winter wheat production systems in Flanders
- P-19 **FAUVE MAERTENS, LAVENA VAN CRANENBROECK, MAAIKE HEYNEMAN, MATTHIAS PRAET, NURIA FONTDEVILA PARETA, LORIS CAILLAT-MIOUSSE, KRIS DE JONGHE, SÉBASTIEN MASSART** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke)
- VITIBEL: Boosting Belgian viticulture with phytosanitary knowledge and diagnostics
- P-20 **FAUVE MAERTENS, ELLEN EVERAERT, MAAIKE HEYNEMAN, ISABELLE KELLENBERGER, OLIVIER SCHUMPP, KRIS DE JONGHE** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke)
- Validation of NA extraction internal control procedures for diagnosis
- P-21 **WARD BOVEN, BARBARA DE CONINCK, MICHELLE HOLTAPPELS** (KU Leuven, Leuven, Belgium)
- A global approach to control pear scab
- P-22 **MACHARIS K., NEWMAN B., VLASSELAER L., SMETS W., LEBEER S., DE CONINCK B.** (KU Leuven, Leuven, Belgium)
- Microbiome-based biocontrol technologies against fungal diseases on strawberries
- P-23 **EVERAERT, E., HEYNEMAN, M., GOEDFROIT, T., STOCKMANS, I., WAUTERS, A., ROJAS-PRECIADO, N., LIEVENS, B., JACQUEMYN, H., AND DE JONGHE, K.** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- Tracking yellowing viruses and aphid vectors in sugar beets
- P-24 **M. FROYEN, J. AUDENAERT, R. VERHOEVEN, K. HEUNGENS** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke; Ghent University, Ghent, Belgium)
- Screening sustainable control measures against *Phytophthora* in rhododendron culture
- P-25 **CHEN XIAN, LIU FENGQUAN** (Institute of Plant Protection, Jiangsu Academy of Agricultural Sciences, Nanjing, China; Ghent University, Ghent, Belgium)
- Zinc Thiazole: role in protecting rice against Bacterial Leaf Streak

Posters

- P-26 **BISHNU PRASAD MARAHATTA, JASMINE DE ROP, MIHAEL SPACAPAN, VITTORIO VENTURI, MONICA HÖFTE** (Ghent University, Ghent, Belgium)
- Cyclic-Lipopeptide mediated biocontrol in the *Pseudomonas asplenii* subgroup
- P-27 **JASMINE DE ROP, MONICA HÖFTE, PIETER SPANOGHE** (Ghent University, Ghent, Belgium)
- Temperature dependency of cyclic lipopeptide production and antifungal activity against *Rhizoctonia solani* AG 1-IA and AG 2-2 in *Pseudomonas asplenii*
- P-28 **BEX R., MARCOU S., LEROUX O., STEPPE K., HÖFTE M.** (Ghent University, Ghent, Belgium)
- Ethylene-inducing enzymes in the *Verticillium dahliae*-pepper interaction
- P-29 **SEPPE TOP, LUK DE MAEYER, MARIJN RYMENANTS, WILLEM ABTS, KATHY STEPPE** (Ghent University, Ghent, Belgium)
- Internal leaf pH changes in apple linked to ontogenetic scab resistance
- P-30 **ALIZADEH, H., SALARI, N., RUODBARI, Z.** (University of Jiroft, Jiroft, Iran)
- Pretreatments of cucumber seeds with Benzothiadiazole (BTH) induced resistance against damping-off caused by *Pythium aphanidermatum*
- P-31 **RACHID LAHLALI, ISMAHANE CHAIR, SAFAE GOUIT, ZINEB BELABESS, ABDESSALEM TAHIRI, ABERRAHIM LAZRAQ** (Ecole Nationale d'Agriculture de Meknès, Meknès, Morocco)
- Exploring the potential of endophytic *Trichoderma* spp. strains for biological control of apple scab (*Venturia inaequalis*)
- P-32 **TAOUSSI M., RADI M., LEGRIFI I, EZZOUGGARI R., HAMIM A., BELENZAR A., LAHLALI R.** (Ecole Nationale d'Agriculture de Meknès, Meknès, Morocco)
- Unveiling the growth-promoting and biocontrol potential of rhizospheric bacterial isolates against oomycete pathogens in strawberry
- P-33 **EZZOUGGARI R., BAHHOU J., LAHLALI R.** (Ecole Nationale d'Agriculture de Meknès, Meknès, Morocco)
- The potential of epiphytic yeasts for citrus green mold control: isolation, characterization, and in vitro and in vivo assessment
- P-34 **VAHID RAHJOO, PARISA HEMMATI, MOHAMMAD ALI TAJICK GHANBARY, BEHZAD AHMADI AND VALIOLLAH BABAEIZAD** (Agricultural Research, Education and Extension Organization (AREEO), Karaj, Iran)
- Gene expression analysis of ZmCCoAOMT2 and ZmCYP450 genes in maize (*Zea mays* L.) ears infected by *Fusarium verticillioides*

Posters

Nematology

- N-01 **L. WAEYENBERGE, N. EBRAHIMI, A. HAEGEMAN & R. ZORNOZA BELMONTE** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- BIOserviceS: linking soil biodiversity with ecosystem functions and services
- N-02 **TOLGA KAYA** (Bayer, Bursa, Turkey)
- Host plant genome-wide association analysis (gwas) of chickpea genotype using snp markers and phenotypic reaction to *Pratylenchus thornei* and *P. neglectus*
- N-03 **LAASLI S.E., LAHLALI R., DABABAT A.A., PAULITZ T., MOKRINI F.** (Ecole Nationale d'Agriculture de Meknès, Meknès, Morocco)
- Dynamics of terrestrial nematodes influencing soil health processes in olive agroecosystems
- N-04 **ABBAS SALAH ARDAKANI, SEYED ABBAS HOSEYNINEGAD, ZAHRA MAJD TAHERI AND FARHAD SAEIDI NAEINI** (Agricultural Research Education and Extension Organization (AREEO), Tehran, Iran)
- The in-vitro and in-vivo activity of seed extract from *Anamirta cocculus* L. against *Meloidogyne incognita* in tomato

Formulation and Application Technology Pesticide Residues, Toxicology and Ecotoxicology

- A-01 **BABA-AISSA K., MOUSSAOUI K., VERDEGUER M., DJAZOULI Z.** (Saad Dahleb University of Blida, Blida, Algeria)
- Biocidal effect of a formulated essential oil and a chemical insecticide on the larvae of *Tuta absoluta* (Meyrick, 1917)
- A-02 **MOUSSAOUI K., BABA-AISSA K., VERDEGUER M. and DJAZOULI Z.** (Saad Dahleb University of Blida, Blida, Algeria)
- Evaluation of the effect of an essential oil formulated from *Cupressus arizona* on the germination of durum wheat *Triticum durum* and white mustard *Sinapis alba*
- A-03 **HAMIDREZA ALIZADEH, MINA AMIGHI, MAHBOOBEB ZAHEDIFAR, MARYAM PAYANDEH** (University of Jiroft, Jiroft, Iran)
- Encapsulation of *Nepeta hormozganica* and *Nepeta dschuprensis* extracts in chitosan NPs for improvement of antifungal activity

Posters

A-04 **HAMDI HIBA, JOEL EYER AND SALWA ABID-ESSEFI** (University of Monastir, Monastir, Tunisia; Université d'Angers, Angers, France)

- Epoxiconazole-induced apoptosis and autophagy through oxidative stress-mediated mitochondrial dysfunction in sh-sy5y cells

A-05 **BOUKHALFA H.H., GUEHILIZ N., DEGHNOCHE K.** (Mohamed Khider University of Biskra, Biskra, Algeria)

- Impact of cereal farming phytosanitary pressure on sheep exposure to pesticides

A-06 **S. OTHMANI, K. TOUMI, N. SOUDANI, J. LAURE, S. FATTOUCH** (University of Carthage, Tunisia)

- Mothers' attitudes toward infant diet and risk of pesticide residues exposure

A-07 **BOUSSABBEH M., BEN AHMED S., CHAABANI H., M'NASRI A., RICH S., ABID ESSEFI S.** (Fattouma Borguiba University Hospital; Monastir University, Monastir, Tunisia)

- Mitigating fungicide outcome: quercetin's protective role in HCT-116 cells

Herbology

H-01 **D. CALLENS, J. VANWIJNSBERGHE, L. DELANOTE, H. DHUYVETTER** (Inagro, Rumbeke, Belgium)

- Comparing mechanical and chemical weed control in vegetable crops

H-02 **M.L. YAZIDI, S. BEN KAAB AND M.H. JIJAKLI** (University of Liège, Gembloux, Belgium)

- Exploring *Cynara cardunculus* L. as a botanical alternative to chemical herbicides for weed management

Agricultural Entomology and Acarology

E-01 **JEREMY BERDY; FLORENT BONDEKWE; PAPY N'SEVOLO; HOSSEIN AZADI; FRÉDÉRIC FRANCIS; MARIE-LAURE FAUCONNIER** (University of Liège, Gembloux, Belgium)

- Ethnobotanical strategies for insect pest management in stored rice and maize, Isangi, Tshopo, DRC

Posters

- E-02 **MARCELLIN C. COKOLA, MARC KENIS, GRÉGOIRE NOËL, RUDY CAPARROS MEGIDO, LÉNA DUROCHER-GRANGER, ESPOIR B. BISIMWA, FRÉDÉRIC FRANCIS** (University of Liège, Gembloux, Belgium; Université Evangélique en Afrique, Bukavu, DR Congo)
- Fall armyworm and associated insect natural enemies in eastern DR Congo
- E-03 **XIAOMING MAN, NIANWAN YANG, WANXUE LIU, FRANCIS FRÉDÉRIC** (University of Liège, Gembloux, Belgium)
- Oviposition decision-making mechanism of heteronomous hyperparasitoid *Encarsia sophia*
- E-04 **GRÉGOIRE NOËL, LALLIE GLACET, LAURA HULOT & FRÉDÉRIC FRANCIS** (University of Liège, Gembloux, Belgium)
- Investigating hoverfly responses to chemical cues and honeydew in agro-ecosystems
- E-05 **ARNAUD SEGERS, IBTISSEM BEN FEKIH, LALLIE GLACET, MARC ONGENA, JACQUES PHILLIPE, FRANCIS FRÉDÉRIC** (University of Liège, Gembloux, Belgium)
- Effect of beneficial microbes on wheat associated insect pests and their predators
- E-06 **FANNY RUHLAND, CLÉMENT MARTIN & FRANÇOIS J. VERHEGGEN** (University of Liège, Gembloux, Belgium)
- Finding my way – characterization of maize roots volatiles that guide wireworms
- E-07 **S. MOSTOVIK, V. POPROTSKA, A. BEREZOVSKIY** (Uman National University of Horticulture, Uman, Ukraine)
- Main phytophages of *Fragaria x ananassa* Duch. in the conditions of the right-bank forest-steppe of Ukraine
- E-08 **ROMERO, H., PLANELLÓ, R., DE LA PEÑA, E.** (Instituto de Hortifruticultura Subtropical y Mediterránea la Mayora, Malaga, Spain; Ghent University, Ghent, Belgium)
- Diversity of phytophagous insects associated with custard apples, *Annona* species (Annonaceae)
- E-09 **UTKU YÜKSELBABA & ISSE HASSAN ALI** (Akdeniz University, Antalya, Türkiye)
- Lethal and sublethal effect of flupyradifurone on eggs of predator *Orius niger*
- E-10 **MERVE DOĞAÇ, MEHMET SALIH ÖZGÖKÇE, HILMI KARA** (Van Yüzüncü Yil University, Van, Türkiye)
- Molecular phylogeny and population structure of *Eurygaster integriceps* in Southeastern Anatolia of Türkiye
- E-11 **WATCHALAWALEE BOONMEE AND WEN-BIN YEH** (National Chung Hsing University, Taiwan)
- Application of the DNA microarray technology in the identification of simultaneous thrips species

- E-12 **PRAKRITI REGMI, KAO-WEI LIN, YI-YUAN CHUANG & WEN-BIN YEH** (National Chung Hsing University, Taiwan)
- Post-harvest cold treatment of cherry tomatoes to disinfest them against fruit flies (Diptera: Tephritidae)
- E-13 **BENRIMA A., GUIRAA F., ABDALLAH K., CHETTAH B., DJEMAI I., DJIDEL A., MAHDJOUBI Dj., OUTTAR F., LAZAR M., BELLATRECHE M., ARABI A.** (University of Ghardaia, Ghardaia, Algeria)
- Fluctuation of Desert Locust populations in southern Algeria depending on rainfall
- E-14 **BENRIMA A., GUIRAA F., ABDALLAH K., CHETTAH B., DJEMAI I., MAHDJOUBI DJ., OUTTAR F., LAZAR M., BELLATRECHE M., ARABI A.** (University of Ghardaia, Ghardaia, Algeria)
- The Influence of the development of Saharan agriculture on the presence and gregarization of the desert locust *Schistocerca gregaria* (Forskål, 1775) (Insecta, Orthoptera) in the Adrar region (central Sahara (Algeria))
- E-15 **GOEDEFROIT T, EBRAHIMI N, LIPPENS L, VERBRUGGEN L, DE MEY J, BERKVENS N, DERMAUW W, BONTE J** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- Improving the prediction accuracy of *Thrips tabaci* activity using deep learning modelling
- E-16 **WANNES DERMAUW, PABLO DESCHEPPER, SAM VANBERGEN, JAN VAN AUTREVE, VERA HUYSHAUWER, MASSIMILIANO VIRGILIO, MARC DE MEYER, JOCHEM BONTE** (Flanders Research Institute for Agriculture, Fisheries and Food (ILVO), Merelbeke, Belgium)
- Multiple simultaneous occurrences of *Bactrocera dorsalis* in Belgium: coincidence, or a pattern?
- E-17 **RANI MERTENS AND LIEN BOSMANS** (Proefcentrum Hoogstraten, Meerle, Belgium)
- The potential of *Podisus maculiventris* to establish in bell pepper and to control *Nezara viridula*
- E-18 **OLOROUNTO A. O., AHOLOUKPE H. N. S., OROBIYI A., BADOU A., GOERGEN G., BOKONON-GANTA A. H.** (Centre de Recherches Agricoles Plantes Pérennes de l'Institut National des Recherches Agricoles du Bénin (CRAPP/INRAB), Cotonou, Benin)
- The important oil palm defoliating caterpillars in Benin: description and damages
- E-19 **YIMENG CHEN AND KRISTOF DE SCHUTTER** (Ghent University, Ghent, Belgium)
- Biosafety aspects of RNAi-based pests control: Nutrition chain exposure
- E-20 **JANNAT-E-TAJKIA, KATHERINE R. GOODRICH, LUIZ FONSECA, A.K.M. ZAKIR HOSSAIN, LARS CHATROU** (Bangladesh Agricultural University, Mymensingh, Bangladesh; Ghent University, Ghent, Belgium)
- Scented secrets: characterising the unique volatile organic compounds of annonaceae plants and their implications for pollination and protection
- E-21 **VANTHOURNOUT B., GOSSEYE J., DARWICH S., DENDAUF E., FLEERAKKERS S., TEMMERMAN F., VAN DEN EYNDE R., DE ROISSART A.** (University College Ghent, Ghent, Belgium)
- Integrated pest management of Cabbage root fly (*Delia radicum*)

Posters

E-22 **QUN YANG AND KRISTOF DE SCHUTTER** (Ghent University, Ghent, Belgium)

- The indispensable role of FucT6 in *Nilaparvata lugens*

E-23 **BUYDENS, L., KELLER, A., ALAUX, C., BUTSCHKAU, S., FILIPIAK, M., LEROY, C., PARRENO, M.A., PIOT, N., LEONHARDT, S.D. AND MEEUS, I.** (Ghent University, Ghent, Belgium)

- Bee pathogen prevalence in relation to local and regional characteristics

PRELIMINARY PROGRAMME