

**Programme for the 19th meeting of the IOBC Working Group on
Integrated Control in Oilseed Crops
10-11 September 2024**

**Technische Universität Dresden, Bergstraße 66 (Faculty of Chemistry,
lecture hall S89, registration rooms 183/184), Dresden, Germany**

Day 1: 10 September 2024

	09:30	10:30	Registration & Coffee
J1.1	10:30	10:45	Welcome by Jutta, Sam and Gosia, explanation of ballot on Day 2
J1.2	10:45	11:00	Introduction to IOBC - Hanna Friberg
J1.3	11:00	11:30	Plenary invited Talk - Birger Koopmann
J1.4	11:30	12:00	Plenary Invited Talk - Michael Rostás
	12:00	13:30	Group photo, then Lunch
J1.5	13:30	14:10	Plenary Invited Talk - Dilantha Fernando
J1.6	14:10	14:50	Plenary Invited Talk - Boyd Mori
	14:50	15:15	Coffee + Posters then split to 2 subgroups
P/E1	15:15	17:00	Pathology session 1/Entomology session 1
	17:00	18:30	A bit of sightseeing of Dresden
	18:30	22:00	Joint Social evening in the Feldschlösschen brewery

Day 2: 11 September 2024

P/E2	09:00	10:30	Pathology session 2/Entomology session 2
	10:30	11:00	Coffee + posters
P/E3	11:00	12:30	Pathology session 3/Entomology session 3
	12:30	13:45	lunch
J2	13:45	15:30	Joint session 2: Video Abstracts & presentations relating to pathology & entomology
J3	15:30	16:00	Joint session 3 Summary of the sessions, Pest Management Science Special Issue, Website, Next meeting & Farewell
	16:00	16:30	Coffee, dismantling of posters, farewell
	16:30	21:00	Optional sightseeing & social

Day 1: 10 September 2024

	09:30	10:30	Registration & Coffee
J1.1	10:30	10:45	Welcome by Jutta, Sam and Gosia, explanation of ballot on Day 2
J1.2	10:45	11:00	Introduction to IOBC - Hanna Friberg
J1.3	11:00	11:30	Plenary invited Talk - Birger Koopmann
J1.4	11:30	12:00	Plenary Invited Talk - Michael Rostás
	12:00	13:30	Group photo, then Lunch
J1.5	13:30	14:10	Plenary Invited Talk - Dilantha Fernando
J1.6	14:10	14:50	Plenary Invited Talk - Boyd Mori
	14:50	15:15	Coffee + Posters then split to 2 subgroups
P/E1	15:15	17:00	Pathology session 1/Entomology session 1
	17:00	18:30	A bit of sightseeing of Dresden
	18:30	22:00	Joint Social evening in the Feldschlösschen brewery

Plenary Session 1 (Joint) (10:30 – 15:15)

J1.1	10:30	10:45	Finally live! Welcome to the 19 th meeting of the Integrated Control in Oilseed Crops Working Group <u>Małgorzata Jędrzycka, Samantha M. Cook, Jutta Ludwig-Müller</u>
J1.2	10:45	11:00	An Introduction to IOBC and the Integrated Control in Oilseed Crops Working Group on the occasion of its 19th meeting <u>Hanna Friberg, Małgorzata Jędrzycka, Samantha M. Cook</u>
J1.3	11:00	11:30	Plenary Invited Talk: Research on oilseed rape diseases in Göttingen – highlights from more than twenty years <u>Birger Koopmann, Andreas von Tiedemann</u>
J1.4	11:30	12:00	Plenary Invited Talk: Recent advances in research towards IPM of oilseed rape pest insects Michael Rostás
	12:00	13:30	Group photo, then Lunch
J1.5	13:30	14:10	Plenary Invited Talk: Genetics in Host-Pathogen Interactions: a way for sustainable agriculture and the Future. Do genes <i>Hijack, Mask, and play Hide and Seek?</i> Dissecting "designer" genes for crop improvement. <u>Dilantha Fernando</u>
J1.6	14:10	14:50	Exploring the biology and ecology of Contarinia (Diptera: Cecidomyiidae) pests of canola in North America <u>Boyd A Mori</u> , Kyle Van Camp, Daniel P. Bray, Meghan A. Vankosky, Dwayne D. Hegedus
	14:50	15:15	Coffee + Posters then split to 2 subgroups
P/E1	15:15	17:00	Pathology session 1/Entomology session 1
	17:00	18:30	A bit of sightseeing of Dresden
	18:30	22:00	Joint Social evening in the Feldschlösschen brewery

Pathology Session 1: Blackleg & Verticillium stripe (15:15-17:00)

- P1.1 15:15 15:30 Phytohormones from the other side: Can *Leptosphaeria maculans* produced hormones contribute to the pathogens virulence on *Brassica napus*?
Hana Leontovyčová, Lucie Trdá, Petre Dobrev, Tetiana Kalachova, Barbora Jindřichová and Lenka Burketová
- P1.2 15:30 15:40 Twenty years of monitoring spore concentrations of *Plenodomus lingam* and *P. biglobosus* in Poland
Joanna Kaczmarek, Magdalena Wójcik, Beata Żuraw, Aneta Sulborska-Różycka, Zbigniew Karolewski, Idalia Kasprzyk, Leszek Menzel, Andrzej Brachaczek & Małgorzata Jędrzycka
- P1.3 15:40 15:50 Blackleg in winter oilseed rape - a study of the causal pathogens *Plenodomus lingam* and *Plenodomus biglobosus* in Sweden
Zahra Omer, Isak Brånstrand, Anna Berlin & Ann-Charlotte Wallenhammar
- P1.4 15:50 16:05 Emerging oilseed rape pathogens and the importance of robust molecular diagnostics
Kevin M. King, Gail G. M. Canning & Jonathan S. West
- P1.5 16:05 16:15 High-throughput identification of novel molecular markers for the detection of blackleg (*Leptosphaeria* spp.) resistance genes in rapeseed
Janetta Niemann, Justyna Szwarz, Ewa Starosta, Tomasz Jamruszka, Joanna Kaczmarek & Małgorzata Jędrzycka
- P1.6 16:15 16:35 Verticillium stripe pathogen: the new kid on the block challenging \$30 Billion Canadian Canola
Dilantha Fernando
- P1.7 16:35 16:50 Co-regulation by soil bacteria and root exudates in the germination of *Verticillium longisporum* microsclerotia
Sarenqimuge Sarenqimuge, Birger Koopmann & Andreas von Tiedemann
- P1.8 16:50 16:55 Bioproducts and their potential in protection of *Brassica napus* L. against *Verticillium longisporum*
Eva Zusková, Veronika Konradyová, Pavel Ryšánek & Jan Kazda
- P1.9 16:55 17:00 Resistance of Polish oilseed rape breeding materials to Verticillium wilt
Joanna Kaczmarek & Małgorzata Jędrzycka

Entomology Session 1: Monitoring, Decision Support & Control (15:15-17:00)

- E1.1 15:15 15:30 Invited Presentation: Revising economic injury levels for *Lygus* sp. in Canadian Canola: The value of historical yield and insect data to improve decision making
Keith Gabert
- E1.2 15:30 15:45 Feature engineering to predict first flight of rapeseed insect pests by AI (random forest)
Jean Fontaine Felix Briem, Manuela Schieler, Juliane Schmitt, Lisa Steinhaus, Alicia Winkler & Benno Kleinhenz
- E1.3 15:45 15:55 The potential for RNA interference-based management of oilseed rape pests
Triin Kallavus, Jonathan M. Willow, L. Soonvald, Silva Vilumets, Riina Kaasik & Eve Veromann
- E1.4 15:55 16:05 Exploring the potential of dsRNA for controlling a weevil pest of oilseed rape
Apurva Sabnis, Triin Kallavus, Silva Vilumets, Riina Kaasik, K. De Schutter & Eve Veromann
- E1.5 16:05 16:20 Identification of effective target genes for RNA interference-based management of the cabbage stem flea beetle
Doga Cedden, Gözde Güney, Xavier Debaisieux, Stefan Scholten, Michael Rostás & Gregor Bucher
- E1.6 16:20 16:35 Mode of action of proteasome targeting insecticidal dsRNA in the cabbage stem flea beetle
Gözde Güney, Michael Rostás, Stefan Scholten & Doga Cedden
- E1.7 16:35 16:50 Characterization of odors to predict their behavioral effects on the cabbage stem flea beetle, *Psylliodes chrysocephala*, for pest management applications.
Margot Tixeront, Fabienne Dupuy, Anne Marie Cortesero & Maxime R. Hervé
- E1.8 16:50 17:05 Potential of entomopathogenic nematodes to control the oilseed pest *Psylliodes chrysocephala*
Giulia Godina, Bart Vandenbossche, Carlos Molina & Ralf-Udo Ehlers
- E1.9 POSTER: The impact of insecticides application on larvae of pollen beetles (*Brassicogethes* Audisio & Cline, 2009)
Jaroslav Šafář, Marek Seidenglanz, Eva Plachká & Jaroslav Kořínek
- E1.10 POSTER: Susceptibility of cabbage stem weevil (*Ceutorhynchus pallidactylus*) populations against lambda-cyhalothrin and acetamiprid insecticides in Czechia
Jaroslav Kořínek Marek Seidenglanz, Pavel Kolařík, Eva Hrudová, Lukáš Blažek, J. Šafář & Eva Plachká

E1.11 POSTER: Pyrethroid resistance monitoring in French coleoptera populations in oilseed rape
Laurent Ruck, Céline Robert & Antoine Lauvernay

E1.12 POSTER: Pyrethroid and carbamate resistance in Czech populations of *Myzus persicae* (Sulzer) from oilseed rape
Jitka Stará, Tereza Horská, Pavla Pabišková & František Kocourek

E1.13 POSTER: The potential of using natural synergists in integrated pest management of Cabbage stem flea beetle (*Psylliodes chrysocephala*)
Patricia Ortega-Ramos, Graham D. Moores & Samantha M. Cook

E1.14 POSTER Research & Development program to find operational alternative strategies to manage coleopteran pests of oilseed rape (Phosmet exit plan)
Laurine Brillault

E1.15 POSTER Announcement of a new project: Improving the prediction of abundance and possible damage caused by rape winter stem weevil
Larissa Michaelis

E1.16 POSTER Effect of autochthonous isolates of *Beauveria bassiana* on adult forms of pollen beetles
Ivan Juran, Vedran Grozdanić, Maja Čačija & Katarina Martinko

Day 2: 11 September 2024

P/E2	09:00	10:30	Pathology session 2/Entomology session 2
	10:30	11:00	Coffee + posters
P/E3	11:00	12:30	Pathology session 3/Entomology session 3
	12:30	13:45	lunch
J2	13:45	15:30	Joint session 2: Video Abstracts & presentations relating to pathology & entomology
J3	15:30	16:00	Joint session 3 Summary of the sessions, Pest Management Science Special Issue, Website, Next meeting & Farewell
	16:00	16:30	Coffee, dismantling of posters, farewell
	16:30	21:00	<u>Optional</u> sightseeing & social

Pathology Session 2: Sclerotinia (9:00-10:30)

P2.1	09:00	09:15	Assessment of environmental factors and pathogen virulence influencing the forecasting model for managing Sclerotinia stem rot in oilseed rape <u>Nazanin Zamani-Noor</u> , Anto Raja Dominic, Vera Krause, Lena Müller, Kathleen Kohrs, Julianne Schmidt & Benno Kleinhenz
P2.2	9:15	9:20	Enhancing Sclerotinia risk forecasting model for winter oilseed rape in Germany: Integrating crop phenology and disease development into a Decision Support System <u>Vera Krause</u> , Nazanin Zamani-Noor, Lena Müller, Kathleen Kohrs, Juliane Schmitt & Anto Raja Dominic
P2.3	9:20	9:25	Validation of a decision support system for predicting the carpogenic germination and infection risk of Sclerotinia sclerotiorum on winter oilseed rape (<i>Brassica napus</i> L.) <u>Lena Müller</u> , Kathleen Kohrs, Anto Raja Dominic, Vera Krause, Nazanin Zamani-Noor, Juliane Schmitt & Benno Kleinhenz
P2.4	9:25	9:30	The pathogenic potential and fungicide response of <i>Sclerotinia</i> spp. isolates associated with Sclerotinia stem rot in oilseed rape cultivation in Germany <u>Nazanin Zamani-Noor</u> & Beatrice Berger
P2.5	9:30	9:45	Sclerotinia disease severity and sclerotia formation in various cover crops, flower strips, and weed species inoculated with diverse isolates of <i>Sclerotinia sclerotiorum</i> <u>Nazanin Zamani-Noor</u> & Hans-Peter Söchting
P2.6	9:45	10:00	Genome-wide association analysis identified loci and candidate genes linked to Sclerotinia stem rot resistance in turnip rape <u>Kibrom B. Abreha</u> , Jagadeesh Sundaramoorthy, Mulatu Geleta, Ferdi Agil & Anders S. Carlsson
P2.7	10:00	10:15	Disease support for risk assessment of Sclerotinia stem rot in winter oilseed rape supported by DNA-analysis <u>Ann-Charlotte Wallenhammar</u> & Maria Algerin
P2.8	10:15	10:30	Advancements in phenotyping of WOSR infected by Sclerotinia Jan Piekarczyk, Jakub Ceglarek, Joanna Kaczmarek & <u>Małgorzata Jedryczka</u>

Coffee and posters

Entomology Session 2: Breeding oilseeds for resistance to insect pests (9:00-10:30)

- E2.1 09:00 9:10 Introgression of resistance to pollen beetle (*Brassicoglyphus aeneus*) from *Sinapis alba* and *Eruca sativa* into *Brassica napus*
10'
Elke Diederichsen, Nadine Austel, N. Gollinge, F. Hee, R. Paul, A. Mason & M. Baez, Torsten Meiners
- E2.2 9:10 09:25 From lab to field: resistance screening against feeding pollen beetles using intergeneric hybrids
15'
Nadine Austel, Sarah Awater-Salendo, Torsten Meiners & Elke Diederichsen
- E2.3 09:25 09:40 BRING IT ON: white mustard resistance to pollen beetle unveiled
15'
Laura Bellec, Maxime Hervé, Adrien Fior, Clotilde Claudel, Maryam Hashemi, Anne-Marie Cortesero & Sébastien Faure
- E2.4 9:40 9:55 RESALT - Genetic resistance as a lever to manage cabbage stem flea beetles: development of phenotyping tools and research into genetic and metabolic factors.
15'
Mathieu Tiret, Pauline Le Boulch, Damien Rollandez, Christine Lariagon, Clarisse, Blandin, Antoine Lauvernay, Quentin Bazerque, Cyril Falentin, Mathieu Rousseau-Gueutin, Alain Bouchereau, Maria Manzanares-Dauleux, Céline Robert, Sébastien Faure & Antoine Gravot.
- E2.5 09:55 10:10 Towards understanding the genetic mechanism of *Brassica napus* resistance to Cabbage Stem Flea Beetle (CSFB)
15'
Emmanuel A. Solomon, Ryan Brock, Steve Penfield & Rachel Wells
- E2.6 10:10 10:20 Can we discriminate rapeseed varieties on their pest insect tolerance?
10'
Laurie Magnin, Eve-Anne Laurent, Romane Thaize, Stève Breitenmoser, Ivan Hiltbold & Alice Baux
- E2.7 10:20 10:30 Is oilseed rape specific glucosinolates content a key cue for larval infestation of *Psylliodes chrysocephala* in field conditions?
10'
Laurie Magnin, Alexandra Jullien, Alice Baux & Ivan Hiltbold
- E2.8 POSTER: Development of a field screening methodology for resistance to cabbage stem flea beetle larvae in oilseed rape and application to a large elite panel
Emilie Sitnikow, Céline Robert, Sébastien Faure & Antoine Gravot
- E2.9 POSTER: Olfactory response of *Psylliodes chrysocephala* to Brassicaceae and single plant compounds
Daniel Rüde, Samantha M. Cook, Bernd Ulber & Michael Rostás

Coffee and posters

Pathology session 3: Clubroot (11:00-12:30)

- P3.1 11:00 11:15 Exploring pathotyping systems and pathotypes of *Plasmodiophora brassicae* –
15' advancing towards the best classification
min Małgorzata Jędrzycka & Nazanin Zamani-Noor
- P3.2 11:15 11:30 Effectiveness of biocontrol agents against the clubroot disease of Brassica species
15' Susann Auer & Jutta Ludwig-Müller
- P3.3 11:30 11:45 How to bio-control clubroot disease in oilseed rape
15' Jutta Ludwig-Müller, Yamen Mahfoud & Sabine Rößler
- P3.4 11:45 12:00 Influence of pathogen virulence on the pathogenicity, host spectrum, and reproductive
15' dynamics of *Plasmodiophora brassicae*, the causal agent of clubroot disease
Nazanin Zamani-Noor & Hans-Peter Söchting
- P3.5 12:00 12:15 Integrated management of clubroot in winter oilseed rape based on soil-DNA analyses-
15' on farm experiences
Ann-Charlotte Wallenhammar, Zahra Omer, Eva Edin, Thomas Persson & Anders
Jonsson
- P3.6 12:15 12:30 Let's get started: the sequencing of the pathotypes of *Plasmodiophora brassicae* from
15' Poland
Agnieszka Pszczółkowska, Adam Okorski, Łukasz Paukszto & Małgorzata Jędrzycka
- P3.7: POSTER: Effects of Seed Treatments against Clubroot Disease in Various
Oilseed Rape Hybrids
Michael Klueken

Lunch

Entomology session 3: Crop and habitat management for pest prevention (11:00-12:30)

- E3.1 11:00 11:15 Companion cropping to control *Psylliodes chrysocephala* in oilseed rape
15'
min
Larissa Michaelis & Meike Brandes
- E3.2 11:15 11:22 Influence of frost-susceptible companion plants on abundance of *Psylliodes chrysocephala* and its antagonists in winter oilseed rape
7'
Marek Seidenglanz, Lukáš Blažek, Michaela Ludvíková & Jaroslav Šafář
- E3.3 11:23 11:30 Effect of the oilseed rape – faba beans mixed cropping system on OSR insect pest cohort
7'
Laurie Magnin, Ivan Hiltbold, Alexandra Jullien & Alice Baux
- E3.4 11:30 11:45 Impact of faba bean on oilseed rape glucosinolates profile and cabbage stem flea beetle foraging behaviour.
15'
Léa Bolis, Sergio Rasmann & Ivan Hiltbold
- E3.5 11:45 12:00 Integrated Pest Management strategies for controlling cabbage stem flea beetle: An update on four-years of field trials.
15'
Duncan Coston, Tom Wilkinson, Steve Ellis, Tom Pope & Sacha White
- E3.6 12:00 12:15 Camera traps reveal unexpected predator communities in oilseed rape
15'
Gaëtan Seimandi-Corda, Toke Thomas Høye, Thomas Hood, Matthew Hampson, Todd Jenkins, Daniel Blumgart, Jamie Hall & Samantha M. Cook
- E3.7 12:15 12:22 The level of predation of sentinel prey indicates high pest removal rate in winter oilseed rape fields in Estonia regardless of the field bordering semi-natural habitat type
7'
Riina Kaasik, Silva Vilumets & Eve Veromann
- E3.8 12:23 12:30 Balancing biodiversity and *Brassicoglyphus aeneus* management: insights from oilseed rape field studies
15'
Silva Vilumets, Riina Kaasik & Eve Veromann

E3.9 POSTER: “Raps-OP”: three years of nurse crops in oilseed rape to avoid *Psylliodes chrysocephala* and *Ceutorhynchus* ssp.

Lukas Schulte-Filthaut, Nils Rehkop & Verena Haberlah-Korr

E3.10 POSTER: Development of a new strategy to manage cabbage stem flea beetle on a territorial scale.

Céline Robert, Emilie Sitnikow & Michael Geloën

E3.11 The behaviour and ecology of cabbage stem flea beetle and the parasitoid of its adult stage: prospects for conservation biological control

Patricia Ortega-Ramos & Samantha M. Cook

E 3.12 POSTER: Is Regenerative Agriculture the Key to Resilient Mustard Farming?

Charlotte Robb, Alice L. Mauchline, Kelly Jowett, Colin Peters & Samantha M. Cook

Lunch

Joint Session 2 (13:45-15:30)

J2.1	13:45	14:15	The Why, What and How of Video Abstracts Laura Mansier, Theodore Simmons, Rachel Nichols, Trinity Ndlovu & <u>Alastair Simmons</u>
J2.2	14:15	14:30	Identification of glucosinolate exporters has the potential to make rapeseed a key crop in the green transition Deyang Xu, Jakob Skytte Thorsen & <u>Barbara Ann Halkier</u>
J2.3	14:30	14:45	Does fungal infection increase the palatability of oilseed rape to insects? <u>Barbora Jindřichová</u> , Nikoleta Rubil, Jan Rezek, Morgane Ourry, Thure Pavlo Hauser & Lenka Burketová
J2.4	14:45	15:00	Impact of crop diversity on the distribution of insect pests and fungi diseases in winter oilseed rape Marek Seidenglanz, Lukáš Blažek, María Muñoz Arbeález & Jaroslav Šafář
J2.5	15:00	15:15	Protozoa for the control of pest slugs <u>Helen Billman-Jacobe</u> & Ruth Haites
J2.6	15:15	15:25	Role of <i>Lumbricus terrestris</i> in reducing clubroot incidence in oilseed rape farming <u>Nazanin Zamani-Noor</u> , Tanja Schütte & Friederike Meyer-Wolfarth
	15:25	15:30	Discussion

J2.7 POSTER: Can transport engineering technology generate more resistant rapeseed?
Deyang Xu, Jakob Skytte Thorsen, Elena Pupi & Barbara Ann Halkier

J2.8 POSTER: Is *Metarhizium brunneum* ovicidal against grey field slug (*Deroceras reticulatum*) eggs?
Suleiman Mustapha, Joel Loveridge, Samanta M. Cook, Patricia Ortega-Ramos, Jozsef Vuts, & Tariq Butt

J2.9 POSTER: Current and potential pest threats for canola in the Canadian Prairies
Keith Gabert

J2.10 POSTER Influence of frost-susceptible accompanying plants on dicotyledon weeds density and diversity in winter oilseed rape
Lukáš Blažek, Marek Seidenglanz & Petra Hanáková Bečvářová

Joint Session 3: Summary and Farewell

15:30	16:00	Summary of the sessions, Pest Management Science Special Issue, Website, Next meeting & Farewell <u>Małgorzata Jędrzycka, Samantha M. Cook, Jutta Ludwig-Müller & Hanna Friberg</u>
16:00	16:30	Coffee, dismantling of posters & Extended farewell!
16:30	21:00	Optional sightseeing & social

LIST OF POSTERS

P3

P3.7 POSTER: Effects of Seed Treatments against Clubroot Disease in Various Oilseed Rape Hybrids
Michael Klueken

E1

E1.9 POSTER: The impact of insecticides application on larvae of pollen beetles (*Brassicogethes* Audisio & Cline, 2009)

Šafář Jaroslav, Seidenglanz Marek, Plachká Eva, Kořínek Jaroslav

E1.10 POSTER: Susceptibility of cabbage stem weevil (*Ceutorhynchus pallidactylus*) populations against lambda-cyhalothrin and acetamiprid insecticides in Czechia

Jaroslav Kořínek Marek Seidenglanz, Pavel Kolařík, Eva Hrudová, Lukáš Blažek, J. Šafář, Eva Plachká

E1.11 POSTER: Pyrethroid resistance monitoring in French coleoptera populations in oilseed rape

Laurent Ruck, Céline Robert, A. Lauvernay

E1.12 POSTER: Pyrethroid and carbamate resistance in Czech populations of *Myzus persicae* (Sulzer) from oilseed rape

Jitka Stará, Tereza Horská, Pavla Pabišková, František Kocourek

E1.13 POSTER: The potential of using natural synergists in integrated pest management of Cabbage stem flea beetle (*Psylliodes chrysocephala*)

Patricia Ortega-Ramos, Graham D. Moores, Samantha M. Cook

E1.14 POSTER Research & Development program to find operational alternative strategies to manage coleopteran pests of oilseed rape (Phosmet exit plan)

Laurine Brillault

E1.15 POSTER: Announcement of a new project: Improving the prediction of abundance and possible damage caused by rape winter stem weevil in winter oilseed rape

Larissa Michaelis, Johannes Hausmann, Meike Brandes

E1.16 POSTER: Effect of autochthonous isolates of *Beauvaeria bassiana* on adult forms of pollen beetles

Ivan Juran, Vedran Grozdanić, Maja Čaćija, Katarina Martinko

E2

E2.8 POSTER: Development of a field screening methodology for resistance to cabbage stem flea beetle larvae in oilseed rape and application to a large elite panel

Emilie Sitnikow, Céline Robert, Sebastien Faure, Antoine Gravot

E2.9 POSTER: Olfactory response of *Psylliodes chrysocephala* to Brassicaceae and single plant compounds

Daniel Rüde, Samantha M. Cook, Bernd Ulber, Michael Rostás

E3

E3.9 POSTER: “Raps-OP”: three years of nurse crops in oilseed rape to avoid *Psylliodes chrysocephala* and *Ceutorhynchus* ssp.

Lukas Schulte-Filthaut, Nils Rehkop, Verena Haberlah-Korr

E3.10 POSTER: Development of a new strategy to manage cabbage stem flea beetle on a territorial scale.

Céline Robert, Emilie Sitnikow, Michael Geloen

E3.11 POSTER: The behaviour and ecology of cabbage stem flea beetle and the parasitoid of its adult stage: prospects for conservation biological control

Patricia Ortega-Ramos, Samantha M. Cook

E 3.12 POSTER: Is Regenerative Agriculture the Key to Resilient Mustard Farming?

Charlotte Robb, Alice L. Mauchline, Kelly Jowett, Colin Peters, Samantha M. Cook

Joint Session 2

J2.7 POSTER: Can transport engineering technology generate more resistant rapeseed?

Deyang Xu, Jakob Skytte Thorsen, Elena Pupi, Barbara Ann Halkier

J2.8 POSTER: Is *Metarhizium brunneum* ovicidal against grey field slug (*Deroceras reticulatum*) eggs?

Suleiman Mustapha, Joel Loveridge, Samanta M. Cook, Patricia Ortega-Ramos, Jozsef Vuts, Tariq Butt

J2.9 POSTER: Current and potential pest threats for canola in the Canadian Prairies

Keith Gabert

J2.10 POSTER: Influence of frost-susceptible accompanying plants on dicotyledon weeds density and diversity in winter oilseed rape

Lukáš Blažek, Marek Seidenglanz, Petra Hanáková Bečvářová