



CHEMICAL ECOLOGY AND SUSTAINABLE DEVELOPMENT

ISCE Posters 2021

Poster Session 1

Tuesday 7 Sept 12:55 - 14:40 UTC

Poster Session 2

Tuesday 7 Sept 15:10 - 15:55 UTC

Poster Session 3

Wednesday 8 Sept 10:10 - 10:55 UTC

Poster Session 4

Wednesday 8 Sept 12:55 - 14:40 UTC

Chemical ecology of disease vectors: from fundamental to applied research (Poster Session 1)

Federico Galassi

Head Louse Feces: Chemical and Behavioural Analysis

Daniel Leybourne

Landscape-Vector-Virus Interactions: Do farms surrounded by diverse landscapes benefit from enhanced virus suppression?

Haozhe Wang

Repellent and acaricidal effects of basil essential oil and rock dust on ticks

Chemical ecology of marine holobionts (Poster Session 1)

Alexia Lourtie

Does the chemical environment impact the survival of a host-specific symbiont? A transcriptomic approach of a "host-separation syndrome"

Emily Claereboudt

Distinct saponin profile drives an olfactory-mediated aggregation in *Holothuria scabra* (Holothuroidea)

Eusocial Insects: chemical ecology of social organisation at the genetic, behavioural and ecological levels (Poster Session 1)

Rocío Lajad

Avoidance response to low-quality pollen in foraging honeybees

Anne-Geneviève Bagnères-Urbany

Heterogeneous chemical profiles of *Vespa velutina nigrithorax* alarm pheromone

Insect-microbe interactions (Poster Session 1)

Keamogetswe Maswanganyi

Stressed-induced changes in the microbial community of *Populus nigra*

Emily Puckett

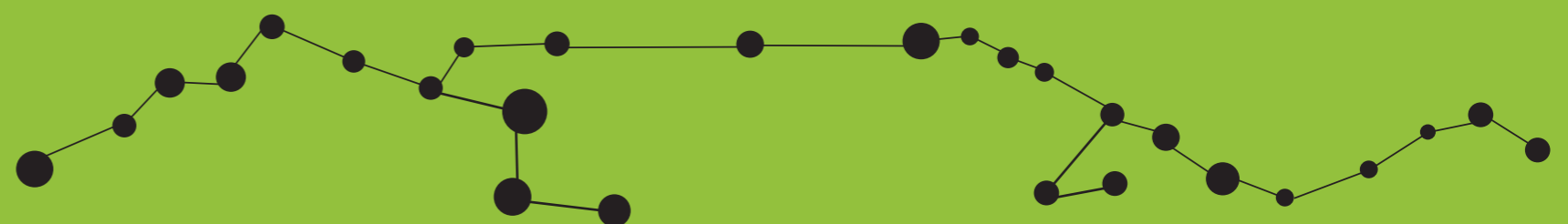
Exploring the potential nutritional symbiosis between *Ips typographus* and its fungal associates

Laima Blazyte-Cereskiene

Behavioural responses of *Rhagoletis cerasi* flies to volatiles from the yeasts populating cherry berries

Rosa Knoppersen

The role of the gut microbiome in overcoming the chemical defenses of *Eucalyptus* species in the *Eucalyptus* snout beetle, *Goniapterus* sp. n. 2



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Using chemical ecology in push-pull control of insect pests: from theory to implementation (Poster session 1)

Bruna Sartório de Castro	Chemical profile of non-volatile compounds from seeds, leaves and roots of <i>Crotalaria spectabilis</i>
Magdolna Szelényi	Olfactory background of stimulo-deterrent pest management strategy in the sugarcane-borer <i>Eldana saccharina</i>

Chemical Mimicry (Poster session 1)

Melanie McClure	Can colour pattern be a “magic” trait in transparent aposematic and mimetic butterflies?
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Insect Olfactory Neuroethology (Poster session 2)

Gaëlle Ramiaranjatovo	Shared volatile compounds among the various host-fruits drive fruit flies olfactory system (Diptera:Tephritidae)
Vincent Jacob	Three-point electroantennography: a setup to exhaustively explore the olfactory sensitivity of bulbous antennae
Yiftach Golov	Integrated effect of biological and physical factors on chemo-sexual communication in moths
Neil Hillier	Blend reception and plasticity in moth olfaction
Marla Hassemer	<i>Alphitobius diaperinus</i> (Coleoptera: Tenebrionidae) antennal sensilla related to pheromone reception
Sarah Koerte	Investigating the semiochemistry underlying host selection and oviposition of <i>Mythimna unipuncta</i>
Ally Harari	A smell of copulation- a possible new pheromone in moths
Twinkle Biswas	Characterization of olfactory sensory neurons in <i>Trypodendron lineatum</i>

Commemorating Prof. Kenji Mori - Synthesis and Chemical Ecology (Poster session 2)

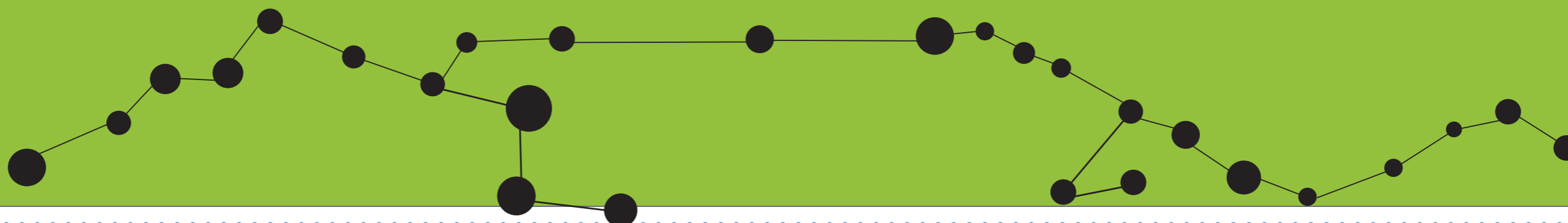
Moritz Gerbaulet	Identification of Methyl Branched 1-Methoxyalkanes from Tetragnatha Spiders, Potential Species Recognition Signals
Rajarajan Ramakrishnan	Understanding pheromone biosynthesis in spruce forest vital pest <i>Ips typographus</i> .

Evolution of Plant Chemical Defenses (Poster session 2)

Barbora Stříbrská	Forest edge induced physiological and chemical changes increases the susceptibility of Norway spruce (<i>Picea abies</i>) to bark beetle (<i>Ips typographus</i>) attack.
Fernanda Moreira Andrade	Neutral effect of multiple herbivory by prey and non-prey on indirect defense of coffee plants
Maria Fernanda Peñaflor	Transgenerational effects of maternal herbivory by a sap-sucking insect on plant resistance

Sexual Communication in the Hymenoptera (Poster session 2)

Nils Schöfer	Sublethal effects of insecticides on partner and host finding of <i>Nasonia vitripennis</i>
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Plant-pollinator interactions (Poster session 3)

Danny Kessler	Attraction and defense - The dual role of floral scent compounds in <i>Nicotiana attenuata</i>
Kim Heuel	Full of impatience - nectar scents in <i>Impatiens</i> flowers visited by <i>Bombus impatiens</i>
LI CAO	Phylogenetic constraints on the evolution of floral scents in a nursery pollination mutualism
Olabimpe Okosun	Interactions of insect pest pheromones and insect pollinators

Recent discoveries and new approaches to the study of plant volatiles and their roles in plant communication (Poster session 3)

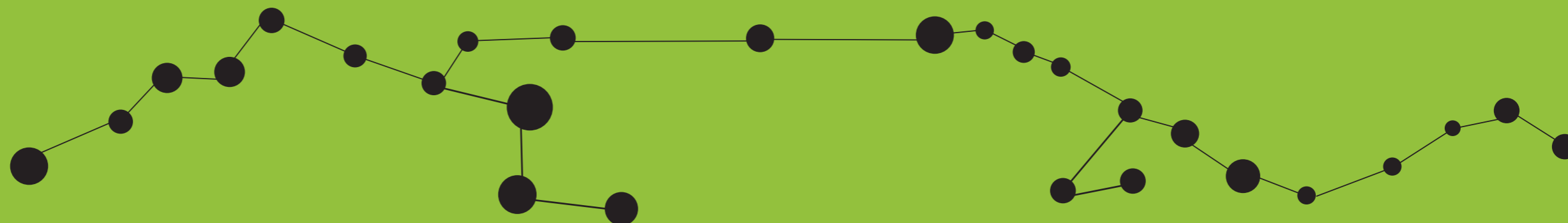
Amanuel Tamiru	Direct and Indirect Defense Induction on Maize by Neighbouring Molasses Grass
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Insect physiological responses to plant toxins (Poster session 3)

Carmen Rossini	Preference of the bronze bug <i>Thaumastocoris peregrinus</i> (Hemiptera: Thaumastocoridae) for eucalyptus species: correlation with its secondary chemistry
Guillermo Bragunde	Effect of essential oils on young honeybee gustatory response

Chemical ecology in the Anthropocene (Poster session 3)

Sílvia Borrull and Conxita Avila	Climate change and chemical ecology: Determination of natural products in an Antarctic and a Mediterranean bryozoan species
Lente van Zyl	Production of defensive metabolites by <i>Pinus patula</i> x <i>Pinus tecunumanii</i> hybrids in response to <i>Fusarium circinatum</i> infection
Paula Schirrmacher	Structural and Functional Comparison of 2-Phenylethylamine and Dopamine as Infochemicals for Hermit Crabs under Climate Change
Gemma Llàcer	Natural products in Antarctic sponges: the case of <i>Mycale acerata</i>
Pere Monràs	The effect of temperature in the chemical defense of the nudibranch <i>Doris kerguelensis</i> (Mollusca: Heterobranchia)





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Insect pest management (Poster session 4)

Aletta van Tonder	TV PheroLure®: The influence of a semiochemical lure on the volatile profile of a commercial tomato field
Anna Burgueño	Oviposition cues for the Asian citrus psyllid, <i>Diaphorina citri</i> (Hemiptera: Liviidae)
Khasim Cali	Development of Odorant Binding Protein based Biosensor for early detection of Red Palm Weevil
Binu Antony	A novel olfactory protein-based concept for the Red Palm Weevil early detection and control.
Federico Rodrigo	<i>Trialeurodes vaporariorum</i> settlement preference and its relationship with the volatiles emitted by the tomato plant
Luki-Marié Scheepers	The major pheromone component identity of the Pine Emperor moth, <i>Nudaurelia clarki</i> (Lepidoptera: Saturniidae)
Jennifer Ferreira	The hydrocarbon footprints profiles of three predaceous Coccinellidae (Coleoptera) are species and gender-specific.
Maria Fernanda Peñaflor	How does the combined use of humic substances and beneficial bacterial affect coffee plant resistance to mealybugs?
Marilene Fancelli	Host selection responses of Asian citrus psyllid (<i>Diaphorina citri</i>) to salinity stressed and unstressed citrus seedlings
María Amorós	Trapping of <i>Retrachydes thoracicus thoracicus</i> and other South American cerambycid beetles in combined pheromone and plant kairomone traps
Nataly De la Pava Suárez	Behavioral responses to specific preys by predator coccinellids
Paul Himmighofen	Plants detect and respond to the third trophic level
Yonggen Lou	Controlling insect pests in rice by manipulating defense responses using chemical elicitors
Santiago Masagué	Behavioral response of <i>Sirex noctilio</i> towards its symbiotic fungus <i>Amylostereum areolatum</i> grown on different substrates

