

Oral Presentations

Oct 17 (Tue)

09:00 – 09:30 Opening

Session 3-1. Systematics, Biodiversity and Bionomics

Organizer: Kaoru Maeto (Kobe Univ., Japan) and Takatoshi Ueno (Kyushu Univ., Japan)

09:30 **17-01K** **Keynote 3-1**

Quicke, Donald (Department of Biology, Chukalongkorn University, Thailand)

Global patterns in ichneumonoid wasp diversity, dispersal and speciation rates

10:00 **17-02R** Fernandez-Triana, Jose (Agriculture and Agri-Food Canada, Canada)

Systematics and biodiversity of Microgastrinae parasitoid wasps, and its importance in the biological control of pest caterpillars

10:15 **17-03R** Thiel, Andra (Institute of Ecology, University of Bremen, Germany)

Characteristics of diploid vs. haploid males

10:30 **17-04R** Chiel, Elad (Biology and Environment, University of Haifa-Oranim, Israel)

Bacterial symbionts in three species of filth fly parasitoids: Identification, characterization and effects

10:45 Break

11:00 **17-05K** **Keynote 3-2**

Ueno, Takatoshi (Institute of Biological Control, Faculty of Agriculture, Kyushu University, Japan)

Insect natural enemies as indicator organisms in rice paddies

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- 11:30 **17-06R** I Wayan, Supartha (Laboratory of Integrated Pest management, Indonesia)
Community dynamics of the egg parasitoids (Hymenoptera) of yellow rice stem borer, *Scirpopaga incertulas* Walker (Lepidoptera; Pyralidae) on rice paddy crop treated with several different concentrations of insecticides
- 11:45 **17-07R** Sagadai, Manickavasagam (Department of Entomology, Faculty of Agriculture, Annamalai Universit, India)
Diversity of entomophages of mealy bugs of Tamil Nadu, India
- 12:00 Lunch

Session 4. Evolution, Genetics and Physiology

Organizer: Ken Kraaijeveld (Vrije Universiteit Amsterdam, the Netherlands) and Jun Abe (Meijigakuin Univ., Japan)

- 13:30 **17-08K** **Keynote 4**
Kraaijeveld, Ken (Ecological Science, Vrije Universiteit Amsterdam, Netherlands)
What makes a parasitoid? Insights from comparative genomics
- 14:00 **17-09S** Renoz, François (Earth and Life Institute, Catholic University of Louvain, Belgium)
Insects, bacteria and viruses: *Serratia symbiotica*, a new candidate mediating defensive mutualism in the microbial symbiosis?
- 14:15 **17-10R** Poirie, Marylene (Institut Sophia Agrobiotech, Inra PACA, FRANCE)
A two-level mechanism of specificity? venom molecules per se and their vesicular transport? likely determines the *Drosophila* host range of the parasitoid *Leptopilina boulardi*
- 14:30 **17-11R** Ellers, Jacintha (Department of Ecological Sciences, VU University Amsterdam, Netherlands)
Genomic and regulatory basis of learning ability in parasitoid wasp selection lines
- 14:45 **17-12R** Abe, Jun (Meijigakuin University, Japan)
Cooperatively female-biased sex ratios and cheating sex ratios in the parasitoid wasp *Melittobia*

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- 15:00 **17-13R** Lammers, Mark (Department of Ecological Science, Vrije Universiteit Amsterdam, Netherlands)
The power of regulatory changes: complete loss of lipogenesis due to specific transcriptomic modifications
- 15:15 **17-14S** Keinan, Yael (Evolutionary and Environmental Biology, University of Haifa, Israel)
Pre-adult egg maturation in a parasitoid is enhanced by host starvation and high larval density
- 15:30 **17-15S** Pirotte, Jennifer (Earth and Life Institute, Biodiversity Research Centre, Université catholique de Louvain, Belgium)
Quality of aphid parasitoids emerging from aphid morphs: do wing buds matter?
- 15:45 **Break**
- 16:00 **17-16S** Aoyama, Haruka (Department of Life and Environmental Sciences, Kyoto Prefectural University, Japan)
Changes in mine forms shelter leaf miners from their parasitoids
- 16:15 **17-17R** Segoli, Michal (Mitrani Department of Desert Ecology, Ben-Gurion University of the Negev, Israel)
What limits the reproductive success of insect parasitoids in the field?
- 16:30 **17-18S** Iltis, Corentin (Université Bourgogne Franche-Comté, France)
Does warmer mean weaker? Increasing temperatures reduce the behavioural and immune defences face with parasitoid attack in a grapevine pest
- 16:45 **17-19R** Guzmán, Celeste (Estación Experimental de Zonas Áridas (EEZA-CSIC) (Experimental Station of Arid Zones), Spain)
Predator intra-specific diversity dampens a trophic cascade
- 17:00 **17-20R** Ferguson, Kim (Laboratory of Genetics, Wageningen University and Research, The Netherlands)
Effective applications of genome projects: a tale of three biocontrol species

17:15 – 19:00 **Poster Session 1**

Oct 18 (Wed)

Session 3-2. Systematics, Biodiversity and Bionomics

Organizer: Kaoru Maeto (Kobe Univ., Japan) and Takatoshi Ueno (Kyushu Univ., Japan)

09:00 **18-01K** **Keynote 3-3**

Mita, Toshiharu (Faculty of Agriculture, Kyushu University, Japan)

The impact of host dispersal on the genetic diversity of parasitoid wasps

09:30 **18-02R** Abe, Yoshihisa (Faculty of Social and Cultural Studies, Kyushu University, Japan)

Egg-pupal and larval-pupal parasitism in the leafminer parasitoid *Gronotoma micromorpha* (Hymenoptera: Figitidae: Eucoilinae)

09:45 **18-03R** Takasuka, Keizo (Institute for Advanced Biosciences, Keio University, Japan)

Host web manipulation by an ichneumonid koinobiont ectoparasitoid of spiders taking advantage of preprogrammed web-building behaviour

10:00 **18-04S** Chattington, Sophie (Population and Evolutionary Ecology, University of Bremen, Germany)

The effect of different parameters on life-history traits in *Trichogramma*? an extensive meta-analysis

10:15 Break

Session 1. Behavioral Ecology

Organizer: Paul Ode (Colorado State Univ., USA) and Keiji Takasu (Kyushu Univ., Japan)

10:30 **18-05K** **Keynote 1**

Ode, Paul (Colorado State Univ, USA)

More than the (non-linear) sum of its parts: effects of environmental variance on herbivore and parasitoid performance

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- 11:00 **18-06S** Vyas, Dhaval (Bioagricultural Sciences and Pest Management, USA)
Foraging efficiency and its role in the displacement of *Cotesia glomerata* by *C. rubecula* in North America
- 11:15 **18-07R** Peri, Ezio (Department of Agricultural, Food and Forest Sciences, University of Palermo, Italy)
Foraging behaviour of a scelionid egg parasitoid exploiting chemical footprints from associated and non-associated host
- 11:30 **18-08R** Hance, Thierry (Earth and Life Institute, Biodiversity section, Université catholique de Louvain, Belgique)
Detectability and density: influence of aphid densities and conspecific presence on host colony choice of *Aphidius ervi* (Haliday)
- 11:45 **18-09S** Herlin, Weri (Graduate school of Bioresources, Mie University, JAPAN)
Superparasitism strategy of a semisolitary parasitoid, *Echthrodelphax fairchildii*: in the case of the 4th-instar host which rarely produces two parasitoid adults
- 12:00 Lunch
- 13:30 **18-10R** Takasu, Keiji (Faculty of Agriculture, Kyushu University, Japan)
Ovipositional success of a parasitoid attacking egg masses
- 13:45 **18-11R** Parent, Jean-Philippe (London Research and Development Centre - Vineland, Agriculture and Agri-Food Canada, Canada)
Impact of travel temperature on perceived durations for a parasitoid
- 14:00 **18-12R** Wajnberg, Eric (I.N.R.A., France)
Evolutionary constraints on polyembryony in parasitic wasps: A simulation model
- 14:15 **18-13S** Augustin, Julie (Université de Montréal (UdeM), Agriculture et Agroalimentaire Canada (AAC), Canada)
A wasp's quest?: Dynamic programming as a way to include behaviors in an insect life cycle model
- 14:30 **18-14S** Matsubara, Satoru (Kobe University, Japan)
Change in defensive strategies of daikon leaf beetles

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- 14:45 **18-15R** van Baaren, Joan (Université de Rennes 1, France)
Grain aphid coloration; experimental insights and ecological perspectives in the field
- 15:00 **18-16R** Voigt, Dagmar (Institute for Botany, Technische Universität Dresden, Deutschland)
Predatory bugs benefit from reliable foothold on plant surfaces: biomechanical insights into plant-insect interactions
- 15:15 **18-17S** Chinchilla-Ramirez, Milena (Instituto Valenciano de Investigaciones Agrarias (IVIA), Unidad de Entomología UJI-IVIA, Spain)
Behavioral and mechanical characterization of the feeding activity of two zoophytophagous mirid bugs
- 15:30 **Break**
- 15:45 **18-18R** Bressac, Christophe (Research Institute for Insect Biology, University of Tours, France)
Cotesia congregata (Hymenoptera braconidae) has the world's shortest sperm
- 16:00 **18-19R** Ramadan, Mohsen Mohamad (Hawaii Department of Agriculture, Division of Plant Industry, USA)
Breech posture and emergence behavior in fruit fly *Endoparasitoids* (Hymenoptera: Braconidae, Eucolidae)
- 16:15 **18-20R** Abram, Paul (Agassiz Research and Development Centre, Agriculture and Agri-Food Canada, Canada)
Insect sleep and biological control
- 16:30 **18-21R** Nakamura, Satoshi (Japan International Research Center for Agricultural Sciences, Japan)
Where are they hiding in a host? Comparison between two microtype tachinid species escaping from their host's immune responses
- 16:45 **18-22S** Nicolas, Aurore (Earth and life Institute, Biodiversity Research Centre, Université catholique de Louvain, Belgium)
Longer is better or the importance of males' antennae for mating in *Aphidoletes aphidimyza* (Diptera, Cecidomyiidae)?

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17:00 **18-23S** Yoshimura, Hideto (Graduate school of bioresources, Mie University, Japan)

Caste differentiation occurs mainly after adult emergence in a paper wasp: day length and adult size critical factors

19:00 – 21:00 Banquet

Oct 19 (Thu)

Session 2. Chemical Ecology

Organizer: Stefano Colazza (Università degli Studi di Palermo, Italy)
and Yooichi Kainoh (Tsukuba Univ., Japan)

- 09:00 **19-01K** **Keynote 2**
- Rostas, Michael (Bio-Protection Research Centre, New Zealand)
Indirect effects of environmental and biotic factors on parasitoid host finding behaviour
- 09:30 **19-02R** Ismail, Mohannad (Key Laboratory of Aquatic Botany and Watershed Ecology, Wuhan Botanical Garden, Chinese Academy of Sciences, China)
Tritrophic interactions of plant origin-herbivore insect-natural enemy
- 09:45 **19-03R** Yoneya, Kinuyo (Department of Agriculture, Kindai University, Japan)
Plant-species specific responses of parasitoids *Cotesia vestalis* to host-infested plant volatiles through experience
- 10:00 **19-04R** Takabayashi, Junji (Center for Ecological Research, Kyoto University, Japan)
A novel enzyme from feeding silkworms hampers oviposition behavior of a parasitoid fly on a mulberry leaf
- 10:15 **Break**
- 10:30 **19-05R** Janssen, Arne (Department of Population Biology, IBED, University of Amsterdam, The Netherlands)
Ethylene mediates attraction and accessibility of tulip bulbs to enemies of their herbivores
- 10:45 **19-06R** Conti, Eric (Department of Agricultural, Food and Environmental Sciences, University of Perugia, Italy)
Plant's direct and indirect defenses induced by invasive *Halyomorpha halys*

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- 11:00 **19-07S** Kuramitsu, Kazumu (University of Tsukuba, Japan)
Indirect effects of host plant species of the herbivorous caterpillar *Mythimna separata* (Lepidoptera: Noctuidae) on the performance of its parasitoid *Cotesia kariyai* (Hymenoptera: Braconidae)
- 11:15 **19-08R** Foti, Maria Cristina (Dipartimento di Scienze Agrarie, Alimentari e Forestali, Università degli Studi di Palermo, Italy)
Contrasting behavioural responses of two egg parasitoids to buckwheat floral scent is reflected in field parasitism rates
- 11:30 **19-09R** Nakashima, Yoshitaka (Center for Ecological Research, Kyoto University, Japan)
Does synthetic aphid sex pheromone enhance biological control in the field?
- 11:45 Lunch

Session 5. Biological Control

Organizer: Eric Wajnberg (INRA, France) and Eizi Yano (Kinki Univ., Japan)

- 13:15 **19-10K** **Keynote 5**

Heimpel, George (University of Minnesota, USA)
Biological control as a conservation science: biological control of an invasive fly attacking Darwin's finches in the Galapagos Islands
- 13:45 **19-11R** Collatz, Jana (Biosafety group, Agroecology and Environment, Agroscope, Switzerland)
Parasitoids and predators as natural enemies of *Drosophila suzukii* in Europe
- 14:00 **19-12R** Keasar, Tamar (Dept. of Biology and Environment, University of Haifa - Oranim, Israel)
Crop pests and parasitoids differ in habitat use in a Mediterranean vineyard agro-ecosystem
- 14:15 **19-13S** Stahl, Judith (CABI Switzerland, Switzerland)
Field performance and non-target parasitism of the parasitoid *Anastatus bifasciatus* released against the brown marmorated stink bug

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- 14:30 **19-14R** Martel, Véronique (Natural Resources Canada, Canadian Forest Service, Canada)
Biological control of the spruce budworm using the egg parasitoid *Trichogramma*: tricho-cards vs. drone releases
- 14:45 **19-15R** Ferracini, Chiara (Dipartimento di Scienze Agrarie, Forestali e Alimentari (DISAFA), Italia)
Reproductive traits and assessment of the non-target impacts of *Torymus sinensis*, biocontrol agent of the Asian chestnut gall wasp
- 15:00 **19-16R** Takagi, Masami (Institute of Biological Control, Faculty of Agriculture, Kyushu University, Japan)
Biological control of the alfalfa weevil in Japan
- 15:15 **19-17R** Tokuda, Makoto (Faculty of Agriculture, Saga University, Japan)
Life history, host range and adult behavior of a predacious gall midge *Diadiplosis hirticornis* (Diptera: Cecidomyiidae), a native natural enemy of *Planococcus kraunhiae* (Hemiptera: Pseudococcidae)
- 15:30 **Break**
- 15:45 **19-18S** Plouvier, Wouter (INRA Sophia Agrobiotech, France)
Improving pest control efficiency: a modelling approach
- 16:00 **19-19S** Le Hesran, Sophie (Koppert Biological Systems and Wageningen University (Entomology Department), The Netherlands)
Selective breeding of a drought-resistant predatory mite, *Phytoseiulus persimilis*
- 16:15 **19-20S** Paspati, Angeliki (Instituto Valenciano de Investigaciones Agrarias, Spain)
The impact of tomato trichomes on the establishment of the predatory mite *Amblyseius swirskii* Athias-Henriot (Acari: Phytoseiidae).
- 16:30 **19-21R** Mitsunaga, Takayuki (Central Region Agricultural Research Center, NARO, Japan)
A simultaneous release program for two aphid parasitoids using a banker plant system in Japan

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- 16:45 **19-22R** Ohta, Izumi (Institute of Vegetable and Floriculture Science, NARO, Japan)
Biological control of foxglove aphids, *Aulacorthum solani* by using an indigenous aphid parasitoid, *Aphidius gifuensis* in sweet pepper greenhouses
- 17:00 **19-23R** Zappalà, Lucia (Department of Agriculture, Food and Environment, University of Catania, Italy)
Nesidiocoris tenuis-tomato plant interactions: two sides of the same coin
- 17:15 **19-24R** Yano, Eizi (Center for Ecological Research, Kyoto University, Japan)
Characteristics of predation by *Nesidiocoris tenuis* on *Bemisia tabaci* and *Thrips palmi*
- 17:30 **19-25S** Gasangwa, Ivan (Institute of Biological control, Kyushu university, Japan)
Synergy or snag; the role of fruits (non-prey foods) for minute pirate bug (Anthocoridae: *Orius strigicollis*) fitness

17:45 – 19:00 Poster session 2

Oct 20 (Fri)

Session 5. Biological Control (*continued*)

Organizer: Eric Wajnberg (INRA, France) and Eizi Yano (Kinki Univ., Japan)

- 09:00 **20-01R** Wahyuni, Sri (Agriculture, University of Flores, Indonesia)
Biological and demographic parameter of *Opius dissitus* Muesebeck parasitoid (Hymenoptera : Brachonidae) on leafminer flies *Liriomyza* spp. (Diptera : Agromyzidae)
- 09:15 **20-02R** Nguyen, Chau Ngoc Bao (Faculty of Biotechnology, Ho Chi Minh City Open University, Viet Nam)
Effects of convenient diets on development and reproduction of big-eyed bug, *Geocoris ochropterus*, for mass rearing
- 09:30 **20-03R** Shaltiel - Harpaz , Liora (migal) (Migal, Tel-Hai, Israel)
Post harvest utilization of the Black soldier fly BSF (Diptera: Stratiomyidae : *Hermetia illucens*) to reduce pest populations from agricultural wastes

09:45 Break

Session 6. Population, Community and Landscape Ecology

Organizer: Jacques Brodeur (Univ. Montreal, Canada)
and Yoshitaka Nakashima (Kyoto Univ., Japan)

- 10:00 **20-04K** **Keynote 6**
Macfadyen, Sarina (CSIRO, Australia)
Linking temporal patterns in landscapes at multiple scales for pest and natural enemy populations
- 10:30 **20-05R** Tabuchi, Ken (Tohoku Agricultural Research Center, NARO, Japan)
The land use and functional spatial scale on determining the abundance of an egg parasitoid and *Orius* spp. in agricultural landscape in central Japan

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- 10:45 **20-06R** Herz, Annette (Julius Kühn-Institut, Federal Research Centre for Cultivated Plants, Institute for Biological Control, Germany)
Black berry hedges in the agricultural landscape - boon or bane?
- 11:00 **20-07R** Saskya, van Nouhuys (Biosciences, University of Helsinki, Finland)
The consequences of increased fluctuation of host population size for a natural hyperparasitoid population with complementary sex determination
- 11:15 **20-08S** Kishinevsky, Miriam (Evolutionary and Environmental Biology, University of Haifa, Israel)
Are parasitoid wasps limited by sugar sources in agricultural areas? Pomegranate orchards as a case study
- 11:30 **20-09R** Rondoni, Gabriele (Department of Agricultural, Food and Environmental Sciences - University of Perugia, Italy)
Trophic interactions and competition among aphidophagous Coccinellidae that share prey resources
- 11:45 **20-10S** Gray, Hannah (University of Minnesota, USA)
Plant diversity and predation rates in brassica crops: A tropical-temperate comparison
- 12:00 **20-11R** Hidaka, Kazumasa (Ehime University, Japan)
Natural enemies associate with obligate insect parasite, *Agamermis unka* for IPM of rice plant hopper population
- 12:15 **20-12R** Ramadan, Mohsen Mohamad (Hawaii Department of Agriculture, Division of Plant Industry, USA)
Parasitoids gone bad in the Hawaiian Islands: Parasitism reduces success of flowerhead feeder, *Acinia picturata* (Diptera: Tephritidae), biocontrol agent of sourbush, *Pluchea carolinensis* (Asteraceae)
- 12:30 –13:30 Closing