

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    Keynote

Quicke, Donald (Department of Biology, Chukalongkorn University, Thailand)  
Global patterns in ichneumonoid wasp diversity, dispersal and speciation rates

10:00    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    Thiel, Andra (Institute of Ecology, University of Bremen, Germany)

Characteristics of diploid vs. haploid males

10:30    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    Keynote

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

Insect natural enemies as indicator organisms in rice paddies

11:30    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    Sagadai, Manickavasagam (Department of Entomology, Faculty of Agriculture, Annamalai University, 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    Keynote

Kraaijeveld, Ken (Ecological Science, Vrije Universiteit Amsterdam, Netherlands)  
TBA

- 14:00 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 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 Ellers, Jacintha (Department of Ecological Sciences, VU University Amsterdam, Netherlands)  
Genomic and regulatory basis of learning ability in parasitoid wasp selection lines
- 14:45 Abe, Jun (Meijigakuin University, Japan)  
Cooperatively female-biased sex ratios and cheating sex ratios in the parasitoid wasp *Melittobia*
- 15:00 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 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 Pirotte, Jennifer (Earth and Life Institute, Biodiversity Research Centre, Université catholique de Louvain, Belgium)  
Quality of aphid parasitoids emerging from aphid morphs: does wing buds matter?
- 15:45 Break
- 16:00 Aoyama, Haruka (Department of Life and Environmental Sciences, Kyoto Prefectural University, Japan)  
Changes in mine forms shelter leaf miners from their parasitoids
- 16:15 Segoli, Michal (The Mitrani Department of Desert Ecology, The Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev, Sede Boqer Campus, Israel)  
What limits the reproductive success of insect parasitoids in the field?
- 16:30 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 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 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 Keynote  
Mita, Toshiharu (Faculty of Agriculture, Kyushu University, Japan)  
The impact of host dispersal on the genetic diversity of parasitoid wasps
- 09:30 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 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 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 Keynote  
Ode, Paul (Colorado State Univ, USA)  
TBA
- 11:00 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 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 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 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 Takasu, Keiji (Faculty of Agriculture, Kyushu University, Japan)  
Ovipositional success of a parasitoid attacking egg masses
- 13:45 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 Wajnberg, Eric (I.N.R.A., France)  
Evolutionary constraints on polyembryony in parasitic wasps: A simulation model
- 14:15 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 Matsubara, Satoru (Kobe University, Japan)  
Change in defensive strategies of daikon leaf beetles
- 14:45 van baaren, joan (Université de Rennes 1, 263 avenue du général Leclerc, France)  
Grain aphid coloration; experimental insights and ecological perspectives in the field
- 15:00 Luong, Tuyet Thi Anh (Phu Yen University, Vietnam)  
Egg cannibalism in *Helicoverpa armigera* (Hübner) (Lepidoptera: Noctuidae) larvae: overcoming the plant establishment hurdle
- 15:15 Voigt, Dagmar (Institute for Botany, Technische Universität Dresden, Deutschland)  
Predatory bugs benefit from reliable foothold on plant surfaces: biomechanical insights into plant-insect interactions
- 15:30 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
- 15:45 Break
- 16:00 Bressac, Christophe (Research Institute for Insect Biology, University of Tours, France)  
*Cotesia congregata* (Hymenoptera braconidae) has the world's shortest sperm
- 16:15 Ramadan, Mohsen Mohamad (Hawaii Department of Agriculture, Division of Plant Industry, USA)  
Breech posture and emergence behavior in fruit fly *Endoparasitoids* (Hymenoptera: Braconidae, Eucolidae)
- 16:30 Abram, Paul (Agassiz Research and Development Centre, Agriculture and Agri-Food Canada, Canada)  
Insect sleep and biological control
- 16:45 Nakamura, Satoshi (Japan International Research Center for Agricultural Sciences, Japan)  
Where are you hiding in a host? : Comparisons between two species of microtype tachinids escaping from the host immune response
- 17:00 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)?
- 17:15 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 Rostas, Michael (Bio-Protection Research Centre, New Zealand)  
Indirect effects of environmental and biotic factors on parasitoid host finding behaviour
- 09:30 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 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 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 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 Conti, Eric (Department of Agricultural, Food and Environmental Sciences, University of Perugia, Italy)  
Plant's direct and indirect defenses induced by invasive *Halyomorpha halys*
- 11:00 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 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 Nakashima, Yoshitaka (Center for Ecological Research, Kyoto University, Japan)  
Field evaluation of synthetic aphid sex pheromone in enhancing suppression of aphid abundance by their natural enemies
- 11:45 Lunch

## Session 5. Biological Control

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

- 13:15 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 Collatz, Jana (Biosafety group, Agroecology and Environment, Agroscope, Switzerland)  
Parasitoids and predators as natural enemies of *Drosophila suzukii* in Europe
- 14:00 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 Stahl, Judith (CABI Switzerland, Switzerland)  
Field performance and non-target parasitism of the parasitoid *Anastatus bifasciatus* released against the brown marmorated stink bug
- 14:30 Martel, Véronique (Natural Resources Canada, Canadian Forest Service, Canada)  
Biological control of the spruce budworm using the egg parasitoid *Trichogramma*: trichocards vs. drone releases
- 14:45 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 Takagi, Masami (Institute of Biological Control, Faculty of Agriculture, Kyushu University, Japan)  
Biological control of the alfalfa weevil in Japan
- 15:15 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 Plouvier, Wouter (INRA Sophia Agrobiotech, France)  
Improving pest control efficiency: a modelling approach
- 16:00 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 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 Mitsunaga, Takayuki (Central Region Agricultural Research Center, NARO , Japan)  
A simultaneous release program for two aphid parasitoids using a banker plant system in Japan
- 16:45 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 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 Yano, Eizi (Center for Ecological Research, Kyoto University, Japan)  
Characteristics of predation by *Nesidiocoris tenuis* on *Bemisia tabaci* and *Thrips palmi*
- 17:30 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

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

- 09:00 Wahyuni, Sri (Agriculture, University of Flores, Ende)  
Biological and demographic parameter of *Opius dissitus* Muesebeck parasitoid (Hymenoptera : Brachonidae) on leafminer flies *Liriomyza* spp. (Diptera : Agromyzidae)
- 09:15 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 Shaltiel - Harpaz , Liora (migel) (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 Macfadyen, Sarina (CSIRO, Australia)  
Linking temporal patterns in landscapes at multiple scales for pest and natural enemy populations
- 10:30 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
- 10:45 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 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 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 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 Gray, Hannah (University of Minnesota, USA)  
Plant diversity and predation rates in brassica crops: A tropical-temperate comparison

- 12:00 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)
- 12:15 Pires Paula, Debora (Brazilian Enterprise for Agricultural Research (EMBRAPA), Brazil)  
Revealing predator diets through marker-free DNA shotgun sequencing of gut contents
- 12:30 Andow, David (University of Minnesota, USA)  
Sensitivity and elimination of false prey identifications from predator gut contents detected by DNA methods
- 12:45 –14:00 Closing