SYMPOSIA

Update: June 16, 2014
Update: July 3, 2014
Update: July 8, 2014
Update: July 9, 2014

July 14 (MONDAY) ROOM1

#4-01　Acari descriptive taxonomy: General and additional requirements
Organizer：Farid Faraji

14:00～14:05　Introduction
14:05～14:35　**S4-01-1 Ashley P. G. Dowling**：Molecules, morphology, and cybertaxonomy: bringing the whole toolbox to descriptive mite projects.
14:35～15:05　**S4-01-2 Jennifer J. Beard, Ronald Ochoa, Gary R. Bauchan, and Evan Braswell**：*Brevipalpus phoenicis* Geijskes species complex - resurrection of E. W. Baker' species (Acari: Tenuipalpidae).
15:05～15:35　**S4-01-3 Fabio Bernini**：Basic requirements for species-group and genus-group revisions. Examples from Oribatid mites (Acari, Oribatida).
15:35～16:00　Coffee break
16:00～16:15　**S4-01-4 Jeanette Stålstedt**：Matching adults and larvae with the help of DNA.
16:15～16:30　**S4-01-5 Philipp E. Chetverikov**：Basal divergence of E riophyoidea (Acariformes, Eupodina) inferred from combined partial COI and 28S gene sequences and CLSM comparative genital anatomy.
16:30～16:45　**S4-01-6 Philipp E. Chetverikov**：What is the origin of the genital “flower-shaped” figures rarely observed in genital areas of eriophyoids (Acariformes, Eriophyoidea)?
16:45～17:00　**S4-01-7 Farid Faraji**：Significance of peritremes in describing Phytoseiidae.

17:00～17:05　Closing remarks

July 14 (MONDAY) ROOM2

#1-07　Soil acarine biological control

Organizer：Chuleui Jung

14:00～14:05　Introduction

14:05～14:25　**S1-07-1 Carlos HW Flechtmann**：Two hundred years without the enemy.

14:25～14:45　**S1-07-2 Gilberto Jose de Moraes**：*Lasioseius phytoseioides* species group (Acari: Mesostigmata: Blattisociidae): new characterization, description of a new species and complementary notes on described species.

14:45～15:05　**S1-07-3 Miki Saito**：Composition of predatory mite species in spinach greenhouses and their predatory abilities against *Tyrophagus similis* Volgin.

15:05～15:25　**S1-07-4 Eunsun Keum**：Potential of biological control of bulb mite, *Rhizohlyphus robini* using predatory mites in garlic field.

15:25～15:45　**S1-07-5 Jun Taek Kang**：Multiplication of biocontrol agents to control the soil insect pests in horticulture in Korea.

15:45～16:00　Coffee break

16:00～16:20　**S1-07-6 Yvonne van Houten**：Evaluation of *Euseius gallicus* as biological control agent of western flower thrips and greenhouse whitefly in roses.

16:20～16:40　**S1-07-7 Raul T Villanueva**：Activity of a phytoseiid mite on the population of the potato psyllid in the pubtropical region of Texas.

16:40～17:00　**S1-07-8 Hidenari Kishimoto**：Effects of pollen on the conservation of native phytoseiid populations in fruit orchards.

17:00～17:20　**S1-07-9 Mohamed Abdul Haq**：Organic agriculture through oricultural farming practices.

17:20～17:40　**S1-07-10 Chuleui Jung**：Soil gamasid mites as potential biological control agents in soil agroecosystem.

17:40～18:00　Discussion

July 14 (MONDAY) ROOM3

#4-03　Ecology and Evolution of soil mites in extreme and special habitats

Organizer：Tobias Pfingstl

14:00～14:05　Introduction

14:05～14:30　**S4-03-1 Jiwon Kim**：Diversity of oribatid mites (Acari: Oribatida) in different habitats.

14:30～14:55　**S4-03-2 Maka Murvanidze**：Oribatid mite responses to heavy metal contamination in post-smelting dumps.

14:55～15:20　**S4-03-3 Julia Maria Jagersbacher-Baumann**：Scutacarid mites associated with bumble bees (Scutacaridae, Heterostigmatina; *Bombus*, Hymenoptera).

15:20～15:45　**P3-15 Jaroslav Smrz:** Wellness or sickness of mites related to the accompanied phenomena of digestibility of mite food - the biological and ecological consequences.

15:45～16:05　Coffee break

16:05～16:30　**S4-03-5 Juliana Mendonca dos Santos Lopes**：Mites riding ants: could they be useful for inferences on conservation?

16:30～16:55　**S4-03-6 Natalia V. Lebedeva**：Avian vector of soil mites in the High Arctic.

16:55～17:20　Ekaterina Sidorchuk：Acarine paleodiversity and evolution: mites in the fossil resins

17:20～17:45　**S4-03-8 Valerie Behan-Pelletier**：Multiple independent origins of sexual dimorphism in Oribatida: a response to periodically dry habitats?

17:45～18:10　**S4-03-9 Satoshi Shimano**：Oribatid mites living in detritus on seashore in Japan.

18:10～18:35　**S4-03-10 Tobias Pfingstl**：Living in the marine intertidal: How oribatid mites manage to survive in this periodically changing environment.

18:35～18:40　Closing remar

July 14 (MONDAY) ROOM4

#3-01　Mating and sex allocation strategies in mites

Organizers：Sara Magalhães, Isabelle Olivieri and Keiko Oku

14:00～14:05　Introduction

14:05～14:20　**S3-01-1 Bram Knegt**：Can coadapted gene complexes explain incompatibilities between two types of *Tetranychus evansi*?

14:20～14:35　**S3-01-2 Salomé Clemente**：Asymmetric reproductive interference among two spider mite species.

14:35～14:50　**S3-01-3 Peter Schausberger**：Contrasting patterns of remating, paternity and reproductive success in polyandrous *Neoseiulus californicus* and *Phytoseiulus persimilis*.

14:50～15:05　**S3-01-4 Leonor Rodrigues**：Sperm precedence and potential sexual conflicts in the spider mite *Tetranychus urticae*.

15:05～15:20　**S3-01-5 Tomasz Marquardt**：Observations on the pre-ovipositional and ovipositional behaviour of *Lasioseius ometes* (Oudemans) and *Hypoaspis kargi* Costa (Acari: Dermanyssiae: Ascidae, Laelapidae).

15:20～15:35　**S3-01-6 Yukie Sato**：Alternative male mating tactics in the two-spotted spider mite (*Tetranychus urticae* Koch)：A life history perspective.

15:35～16:05　Coffee break

16:05～16:20　**S3-01-7 Tetsuo Gotoh**：*Wolbachia* and *Cardinium* endosymbionts distort offspring sex ratio of tetranychid mites.

16:20～16:35　**S3-01-8 Flore Zélé**：Endosymbiont diversity in natural populations of *Tetranychus* mites is rapidly lost following laboratory adaptation.

16:35～16:50　**S3-01-9 Alison B Duncan**：Impact of the maternal environment on sex allocation behaviour in the spider mite *Tetranychus urticae* under variable local mate competition.

16:50～17:05　**S3-01-10 Sara Magalhães**：The evolution of sexual conflicts in *Tetranychus urticae.*

17:05～17:20　Discussion

July 15 (TUESDAY) ROOM1

#3-03　Interactions in communities of plant-inhabiting mites

Organizers：Arne Janssen and Yasuyuki Choh

09:45～09:50　Introduction

09:50～10:20　**S3-03-1 Rostislav Zemek**：The effect of coccinellid and chrysopid larvae cues on behaviour of spider mites.

10:20～10:50　**S3-03-2 Takeshi Shimoda**：Flight dispersal of specialist insect predators to exploit patchily distributed spider mites.

10:50～11:20　**S3-03-3 Renato Almeida Sarmento**：Active prey mixing as an explanation for polyphagy in predatory arthropods: synergistic dietary effects on egg production despite a behavioural cost.

11:30～12:00　**S3-03-4 Felipe Lemos**：Host plant affects the quality of *T.evansi* as prey.

12:00～12:30　**S3-03-5 Yasuyuki Choh**：Counterattack by predatory mites with experience with predation.

12:30～12:35　Closing remarks

July 15 (TUESDAY) ROOM2

#1-04　Sustainable control of phytophagous mites

Organizer：Josep A. Jacas and Patrick De Clercq

10:00～10:05　Introduction

10:05～10:30　**S1-04-1 Menelaos Stavrinides**：Conservation of predatory mites in vineyards: ecotoxicology of pesticides and adjuvants.

10:30～10:55　**S1-04-2 María del Mar Fernández, Pilar Medina, Pedro Del Estal, Guy Smagghe, Elisa Viñuela**: Non-target effects of modern pesticides on the predatory mite *Amblyseius swirskii* (Athias-Henriot) (Acari: Phytoseiidae), important biological control agent in horticultural crops of Almeria, Southeastern Spain.

10:55～11:20　Coffee break

11:20～11:45　**S1-04-3 Dominiek Vangansbeke**：Diurnal temperature alternations affect dynamics between the two-spotted spider mite and its phytoseiid predators.

11:45～12:10　**S1-04-4 Ioanna Fragkoudi**：Nitro-oxidative response of *Medicago truncatula* plants to two-spotted spider mite infestation under water stress conditions.

12:10～12:35　**S1-04-5 Eric Palevsky**：Augmentation and conservation biological control of the citrus rust mite in Israel.

12:35～14:00　Lunch

14:00～14:25　**S1-04-6 Norihide Hinomoto**：Evaluation of population structure of *Neoseiulus womersleyi* by using molecular markers for conservation biological control.

14:25～14:50　**S1-04-7 Alicja Chorazy**：Environmental risk assessment of introduction an exotic predatory mite species, *Amblydromalus limonicus* in Poland.

14:50～15:15　**S1-04-8 Josep A Jacas**：Food web engineering to enhance natural regulation of *Tetranychus urticae* in citrus.

15:15～15:20　Closing remarks

July 15 (TUESDAY) ROOM3

#5-01　Recent advance in Acarology in East and South East Asia

Organizers：Yan Xuan Zhang, Zhi Qiang Zhang and Yutaka Saito

09:45～09:55　Introduction

09:55～10:20　**S5-01-1 Yanxuan Zhang**：Recent advance in biological control of mite and insect pests by predacious mites in China.

10:20～10:45　**S5-01-2 Manita Kongchuensin**：Recent advance in biological control of mite pests by predatory mites in Thailand.

10:45～11:10　**S5-01-3 Chuleui Jung**：Recent advance in acarology in Korea.

11:10～11:25　Coffee break

11:25～11:50　**S5-01-4 Gen Takaku**：History and recent advance in Acarology in Japan.

11:50～12:15　**S5-01-5 Lin Jianzhen**：Recent advance in Acarology in China.

12:15～12:35　Discussion

12:35～12:45　Closing remarks

July 15 (TUESDAY) ROOM4

#3-05　Mites Under the Sun

Organizers : Katsura Ito and Masaaki Sudo

09:45～10:10　**S3-05-1 Katsura Ito** : Genetic variation in spider mite diapauses.

10:10～10:30　**S3-05-2 Tomoe Sekido** : Direct and indirect advantages of spider mite diapause on predator avoidance.

10:30～10:55　**S3-05-3 Shin G Goto** : Physiological and genetic dissection of photoperiodism in *Tetranychus urticae*.

10:55～11:25　Cofee break

11:25～11:50　**S3-05-4 Astrid Bryon** : Winter blues in Acari: complete gene expression profiling of *Tetranychus urticae* during diapause.

11:50～12:15　**S3-05-5 Masahiro Osakabe** : The sun and plant-dwelling mites: an overview.

12:15～12:40　**S3-05-6 Yasumasa Murata** : Reciprocity in UV damage and photoreactivaiton of spider mites.

12:40～14:00　Lunch

14:00～14:25　**S3-05-7 Masaaki Sudo** : Solar radiation as a determinant of acarine community assembly and seasonal dynamics.

14:25～14:50　**S3-05-8 Eric Palevsky** : Light induced plant mediated effects on the establishment of spider mites and plant feeding predatory mites.

14:50～15:15　**S3-05-9 Masaya Tanaka** : Physical control of the two-spotted spider mite *Tetranychus urticae* using a combination between ultraviolet-B lamp and reflective sheet in strawberry.

15:15～15:30　General discussion

July 16 (WEDNESDAY) ROOM1

#1-01　Behavior and sensory ecology

Organizers : Takeshi Suzuki and Takeshi Kojima

09:45～09:50　Introduction

09:50～10:10　**S1-01-1 Katarzyna Michalska** : Do eriophyoid mites respond to cues of predation risk?　The case of the eriophyoid *Aculops allotrichus*.

10:10～10:30　**S1-01-2 Guillaume Le Goff** : Effects of silk web on the locomotor activities of spider mites.

10:30～10:50　**S1-01-3 Takeshi Suzuki** : Disappearance of photo-orientation behavior in eye-ablated *Tetranychus urticae*.

10:50～11:10　**S1-01-4 Takeshi Kojima** : Acarian chemotaxis as a model for chemo-orientation studies in acarology.

11:10～11:15　Discussion

July 16 (WEDNESDAY) ROOM1

#3-02　Behavioral ecology of mites

Organizer：Peter Schausberger

14:00～14:20　**S3-02-1 Andreas Walzer**：Sex-specific body size effects on mating behavior of the predatory mites *Phytoseiulus persimilis* and *Neoseiulus californicus*.

14:20～14:40　**S3-02-2 Keiko Oku**：Sex-dependent responses toward predation risk during precopulatory mate guarding in the two-spotted spider mite.

14:40～15:00　**S3-02-3 Hasan Rahmani**：Repeatability of aggressiveness against con- and heterospecific prey in the predatory mite *Neoseiulus californicus* (Acari: Phytoseiidae).

15:00～15:20　**S3-02-4 Shuichi Yano**：Antipredator behaviors of webbing and non-webbing spider mites.

15:20～15:45　Coffee/tea break

15:45～16:10　**S3-02-5 Maurice W. Sabelis**：Evolution of diapause timing in an acarine predator-prey system on apple: a matter of phylogeny or ecology or both?

16:10～16:35　**S3-02-6 Yutaka Saito**：Social lives of *Stigmaeopsis* spp. A short review of spider mite sociality.

16:35～17:00　**S3-02-7 Peter Schausberger**：Family affairs in predatory mites but who is family?

July 16 (WEDNESDAY) ROOM2

#1-06　Prospects for control of Red Palm Mite ten years after its invasion to the Neotropics

Organizers：Daniel Carrillo and Jorge E. Peña

10:00～10:05　Introduction

10:05～10:35　**S1-06-1 Ronald Ochoa**：Revision of the genus *Raoiella* (Acari: Tenuipalpidae) of the world.

10:35～10:45　**S1-06-2 Denise Navia**：The red palm mite *Raoiella indica* in Brazil - status, potential distribution, and control perspectives.

10:45～11:05　**S1-06-3 Gabriel Otero**：Biological attributes of *Raoiella indica* related to its potential as invasive pest.

11:05～11:20　Cofee break

11:20～11:40　**S1-06-4 Bryony Taylor**：Surveys to elucidate the host range and associated natural enemies of *Raoiella indica* (Red Palm Mite) in the Nariva Swamp.

11:40～12:00　**S1-06-5 Edith Estrada**：Management strategies for *Raoiella indica* Hirst (Acari:Tenuipalpidae) in urban and reserved areas in Quintana Roo, Mexico.

12:00～12:25　**S1-06-6 Daniel Carrillo**：Effect of *Amblyseius largoensis* (Acari: Phytoseiidae) on *Raoiella indica* (Acari: Tenuipalpidae) using predator exclusion and predator release techniques.

12:25～12:40　**S1-06-7 Carlos Vazques**：Life cycle of *Raoiella indica* Hirst (Acari: Tenuipalpidae) on ornamental plants, mostly Arecaceae.

12:40～13:00　Discussion & closing remarks

July 16 (WEDNESDAY) ROOM2

#1-03　False spider mites and their impact to global agriculture and trade

Organizers : Jose Carlos V Rodriguez and Jorge E. Peña

14:15～14:20　Short introduction

14:20～14:40　**S1-03-1 Jennifer Beard** : Flat mites of the world.

14:40～15:00　**S1-03-2 Gabriel Otero-Colina** : Citrus leprosis in Mexico and vectors involved.

15:00～15:20　**S1-03-3 Jorge E. Peña** : Biodynamics of *Brevipalpus* sp., in different host plant species.

15:20～15:40　**S1-03-4 Elizeu B Castro** : A study of the species of *Tenuipalpus* (Acari: Tenuipalpidae) deposited in the Smithsonian USNM Insect & Mite Collection.

15:40～16:00　Coffee break

16:00～16:20　**S1-03-5 Isis Carolina Souto de Oliveira** : Molecular systematics for *Brevipalpus* mites - assembling the puzzle.

16:20～16:40　**S1-03-6 Jose Carlos V Rodriguez** : Impact of red palm mite in the Caribbean.

16:40～17:00　Discussion of both #1-03 and #1-06

July 16 (WEDNESDAY) ROOM3

#3-06　Pathogens and other microbial associates of mites and ticks

Organizers : ~~Sreerama Kumar Prakya and~~ Takashi Tsunoda

10:10～10:15　Introduction

~~09:50～10:15　**S3-06-1 Sreerama Kumar Prakya** : Pathogens and other microbial associates of mites and ticks: an introduction to the symposium.~~

10:15～10:40　**S3-06-2 Patrícia S. Gôlo** : Perspectives on the use of entomopathogenic fungi to control ticks.

10:40～11:00　Coffee break

11:00～11:25　**S3-06-3 Mohammad Shaef Ullah** : Pathogenicity of the entomopathogenic fungus, *Beauveria bassiana* on two spotted spider mite *Tetranychus urticae* (Acari: Tetranychidae) at various regimes of humidity.

11:25～11:50　**S3-06-4 Louwrens R Tiedt** : Ectosymbionts on *Nannodromus reveilleti* Fernandez et al., 2014 (Acari: Anystida: Saxidromidae).

11:50～12:15　**S3-06-5 Medea Burjaanadze** : Pathogenicity of Bb 007 for the control of *Panonychus hadzhibejliae* (Acari: Tetranychidae).

12:15～12:45　Discussion and closing remarks

July 16 (WEDNESDAY) ROOM3

#4-02　Mite and invertebrate symbiosis

Organizers：Barry M OConnor and Kimiko Okabe

14:00～14:05　Introduction

14:05～14:35　**S4-02-1 Barry M. OConnor**：Observations on the phylogeny of the family Canestriniidae, mites associated with Coleoptera.

14:35～15:00　**S4-02-2 Kimiko Okabe**：Symbiotic specificity between lucanid beetles and canestriniid mites.

15:00～15:30　**S4-02-3 Masaaki Adachi**：Indirect effects of aphids on spider mites via ants.

15:30～15:50　Coffee break

15:50～16:20　**S4-02-5 Qinghai Fan**：Mites associated with honeybee *Apis mellifera* in New Zealand.

16:20～16:50　**S4-02-6 Pavel Klimov**：Phylogeographic history and diversification of chaetodactylid mites (Chaetodactylidae), intimate associates of long-tongued bees.

16:50～17:00　Discussion & closing

July 16 (WEDNESDAY) ROOM4

#1-02　A genomics view of Plant Mites (I. Host-plant actions and adaptation, II. Crop pest management)

Organizers：Maria Navajas and Thomas Van Leeuwen

09:45～09:55　Introduction

09:55～10:20　**S1-02-1 Blas Agut, Jordi Gamir, Monica A. Hurtado-Ruiz, Josep A. Jacas, Víctor Flors**：*Tetranychus urticae* and Citrus: hijacking or effective defense?

10:20～10:45　**S1-02-2 Rika Ozawa**：Transcriptome analyses of spider mites and predatory mites regarding their temperature and host adaptation.

10:45～11:10　**S1-02-3 Maria J. Navajas**：Adapting to a host plant: trade-offs, genes and mechanisms explaining host range in *Tetranychus urticae*.

11:10～11:30　Coffee break

11:30～11:55　**S1-02-4 Vojislava Grbic**：Reciprocal responses in the interaction between plant and cell-content-feeding chelicerate herbivore.

11:55～12:20　**S1-02-5 Nicky Wybouw**：Cyanide detoxification in mites and moths, a unique metabolic tool transferred from bacteria.

12:20～12:45　**S1-02-6 Mike Grbic**：Whole genome sequencing of spidermites: from genome evolution to biotechnology and new biomaterials.

12:45～14:00　Lunch

14:00～14:25　**S1-02-7 Thomas Van Leeuwen**：Spider mite control and resistance management: does a genome help ?

14:25～14:50　**S1-02-8 Richard M. Clark**：High-resolution genetic mapping with high-throughput sequencing.

14:50～15:15　**S1-02-9 Masahiro Osakabe**：The combination between classical genetic mapping and genomics in the study of acaricide resistance.

15:15～15:40　**S1-02-10 Riga Maria**：Functional analysis of cytochrome P450-based detoxification mechanisms in *Tetranychus urticae*.

15:40～16:00 Coffee break

16:00～16:25 **S1-02-11 Atsushi Yamamoto** : Status of acaricide resistance and recent topics on genome associated research in Japan.

16:25～16:45 Break

16:45～17:10 **S1-02-12 Seung-Yoon Ahn** : Bacterial origin of a diverse family of UDP-glycosyltransferase genes in the *Tetranychus urticae* genome.

17:10～17:35 **S1-02-13 Sabina Bajda** : Transcriptome profiling of resistant and susceptible strains of the European red mite *Panonychus ulmi* using strand-specific paired-end RNA-seq.

17:35～17:45 Discussion/closing

July 17 (THURSDAY) ROOM1

#2-02　Acari-borne cutaneous allergy in Japan

Organizer : Masaru Natsuaki

14:00～14:05　Introduction

14:05～14:25　**S2-02-1 Yosaburo Oikawa** : Mites inducing an atopic dermatitis-like skin lesion in NC mice.

14:25～14:45　**S2-02-2 Tomoyuki Hashimoto** : Anaphylaxis to *Dermatophagoides* mites after ingestion of mite-contaminated food.

14:45～15:05　**S2-02-3 Hiroshi Morita** : Tick bite anaphylaxis in Japan.

15:05～15:25　**S2-02-4 Masaru Natsuaki** : Tick-associated rash illness.

15:25～15:45　**S2-02-5 Yasuo Wada** : Diagnosis and treatment of scabies.

15:45～15:50　Closing remarks

July 17 (THURSDAY) ROOM2

#1-05　Perspectives in mite IPM in agricultural ecosystems under climate change

Organizer：Joon-Ho Lee

14:00～14:05　Introduction

14:05～14:25　**S1-05-1 Joon-Ho Lee**：Predicting changes in population occurrence of *Tetranychus urticae* Koch (Acari: Tetranychidae) and the potential geographic distribution of its predator, *Neoseiulus californicus* (McGregor) (Acari: Phytoseiidae) in Korea with climate change.

14:25～14:45　**S1-05-2 Chuleui Jung**：Climate change and possible change of honeybee and *Varroa* mite interaction.

14:45～15:05　**S1-05-3 Arunkumar Chandrappa Hosamani**：Studies on life and fecundity tables of yellow mite, *Polyphagotarsonemus latus* (Banks) on chilli.

15:05～15:25　**S1-05-4 Sergey Ya. Popov**：Life reproductive tables of the *Tetranychus* spider mite populations under natural conditions.

15:25～15:45　Coffee break

15:45～16:05　**S1-05-5 Sevda Kamburgil**：Effect of temperature on development and fecundity of the predatory mite *Cheletomimus bakeri* (Acari: Cheyletidae) feeding on *Tetranychus cinnabarinus* (Acari: Tetranychidae).

16:05～16:25　**S1-05-6 Mohamed Abdul Haq**：Climatic Upsurge and Population decline in coconut mite - A hope for the future.

16:25～16:45　**S1-05-7 Tomohiro Hori**：Effects of environmental factors on the distribution of predatory mites on plants.

16:45～17:05　Discussion and closing remarks

July 17 (THURSDAY) ROOM3

#3-04　Dispersal in Mites

Organizer：Isabelle Olivieri

14:00～14:30　**S3-04-1 Ophelie Ronce**：Ecological determinants and evolutionary consequences of dispersal in spider mites.

14:30～14:50　**S3-04-2 Masahiro Osakabe**：Aerodynamic advantages of take-off behavior and morphological feature in aerial dispersal of spider mites.

14:50～15:20　**S3-04-3 Maria J. Navajas**：Dispersal pathways of an invasive mite: using genes and models to understand invasion and to predict future spreading of *Tetranychus evansi*.

15:20～15:40　Coffee break

15:40～16:05　**S3-04-4 Ryuji Uesugi**：Difference of gene flow between greenhouse and orchard populations in *Tetranychus urticae* Koch.

16:05～16:35　**S3-04-5 Alexandra Revynthi**：To stay or to disperse: the Milker-Killer dilemma in a predatory mite.

16:35～17:00　**S3-04-6 Hatsune Otsuki**：Lethal and non-lethal effects of predators on spider mite dispersal.

July 17 (THURSDAY) ROOM4

#1-08 Biocontrol of multiple pests with the generalist predator *Amblyseius swirskii*.

Organizer：Arne Janssen and Maurice Sabelis

14:00～14:05 Introduction

14:05～14:55 **S1-08-1 Maurice Sabelis, Yasuyuki Choh, Yvonne van Houten and Arne Janssen**：Simple criteria for pre-selection of phytoseiid mites as biocontrol agents.

14:55～15:25 **S1-08-2 Javier Calvo et al.**：The success history of *Amblyseius swirskii*.

15:25～15:55 **S1-08-3 Duc Tung Nguyen et al.**：Liquid and solid artificial diets support the development and reproduction of the predatory mite *Amblyseius swirskii*.

15:55～16:25 **S1-08-4 Laura Hewitt, Les Shipp, Rose Buitenhuis and Cynthia Scott-Dupree**：Seasonal climatic variations influence the efficacy of predatory mites used for control of western flower thrips in greenhouse ornamental crops.

16:25～16:45 **S1-08-5 Julliette Pijnaker et al.**：Predatory mites as a first line of defense.

16:45～17:15 **S1-08-6 Julie Faucher Delisle, Les Shipp and Jacques Brodeur**：Influence of supplemental food on the biology and control efficacy of two predatory mites, *Amblyseius swirskii* and *Neoseiulus cucumeris* (Acari: Phytoseeiidae) on western flower thrips.

17:15～17:45 **S1-08-7 Karen Munoz et al.**：Apparent competition between an aboveground-herbivore pest and belowground litter-inhabiting detritivores results in better biological control.

17:45～17:55 Discussion and closing remarks

July 18 (FRIDAY) ROOM3

#2-03　Acari-borne infectious diseases in Far East

Organizer：Shuji Ando

09:00～09:05　Introduction

09:05～09:30　**S2-03-3 Naota Monma et al.**：Epidemiology of Tsutsugamushi diseases in the mainland of Japan.

09:30～09:55　**S2-03-4 Tomokazu Kitano**：Characterization of *Orientia tsutsugamushi* Isolated in Ikema island.

09:55～10:20　**S2-03-2 Norio Ohashi et al.**：Tick-associated Anaplasmataceae pathogens in Japan.

10:20～10:45　**S2-03-1 Shuji Ando et al.**：Rickettsial and other pathogens in ticks, Japan.

10:45～10:50　Closing remarks