

# Program

**The 68<sup>th</sup> Annual Meeting  
of  
the Japan Society  
of  
Medical Entomology and Zoology**

15 April (Friday)

- 12:45 – Registration
- 13:00 – 16:00 Insecticide Group Meeting
- 13:00 – 15:30 Tick and Mite Group Meeting
- 13:00 – 16:30 Tabanid fly Group Meeting
- 13:30 – 16:00 Physiology Molecular Biology Group Meeting
- 16:00 – 18:00 Executive Board Meeting

16 April (Saturday)

- 8:40 – Registration
- 9:00 – Opening of the meeting
- 9:00 – 12:00 General Presentations
- 12:00 – 13:00 (Editorial committee meeting)
- 13:00 – 13:40 Plenary Session
- 13:40 – 14:00 The Prize Giving Ceremony of the Society Award and the Sasa Award
- 14:00 – 15:10 Prize Winners' Presentations
- 15:10 – 15:30 President's Lecture
- 15:40 – 17:30 Symposium
- 17:40 – Special Lecture (Zika virus infection)
- 19:00 – 21:00 Reception

17 April (Sunday)

- 9:00 – 12:10 General Presentations
- 13:00 – 14:30 Special Lectures
- 14:40 – 16:10 Dr. Sasa Memorial Seminar

**15 – 17 April, 2016  
Utsunomiya, Tochigi, JAPAN**

16<sup>th</sup> April (Sat.)

Hall-A

Moderator: Tomoyoshi Iguchi

- 9:00 A01 Mosquito surveillance using dry-ice traps and human bait method.  
○Yusuke Fukuura, Satoko Nakajima, Tetsuro Katayama, Emi Fundo, Katsuya Harada
- 9:10 A02 Result of mosquito collection from international aircrafts and airport area at Narita International Airport, Japan from 2006 to 2015.  
○Nayu Sukehiro, Hiroshi Ishihara, Nori Kida, Naoki Takahashi, Norihisa Hara, Yoshio Tsuda
- 9:20 A03 Detection of avian malaria parasites from mosquitoes collected in eastern Tottori prefecture and Hiruzen, Okayama prefecture.  
○KyeongSoon Kim, Yoshio Tsuda

Moderator: Kyeong Soon Kim

- 9:30 A04 A report on *Anopheles belenrae* and *Culiseta kanayamensis* collected in a mosquito surveillance in Hokkaido.  
○Nozomi Imanishi, Yukiko Higa, Leopoldo M. Rueda, Noboru Minakawa, Kyoko Sawabe
- 9:40 A05 Occurrence of vector mosquitoes at Tsunami disaster areas of the Great East Japan Earthquake in 2011 to 2015.  
○Mamoru Watanabe, Haruna Watanabe, Kyoko Sawabe
- 9:50 A06 Captured of *Tabanus iyoensis* by folding horsefly trap.  
○Mamoru Watanabe, Akihiko Shiraishi

Moderator: Toshinori Sasaki

- 10:00 A07 Mosquito surveillance in the cowshed.  
○Ryusei Kuwata, Hiroki Sugiyama, Kenzo Yonemitsu, Hiroshi Shimoda, Ken Maeda
- 10:10 A08 Investigation of mosquito situation around the pigpen in Ishikawa prefecture, and JE virus distribution (2010-2015).  
○Manabu Murakami, Yosaburo Oikawa, Kiyoshi Kamimura
- 10:20 A09 Distribution of *Culex tritaeniorhynchus* Asian type in the north of Kyushu District, Japan.  
○Kyoko Sawabe, Yoshihide Maekawa, Nozomi Imanishi, Daisuke Kobayashi, Yoshio Tsuda

(Break time)

**Moderator: Yukiko Higa**

- 10:40 A10 How to prevent development of the resistance in dengue vector control: a model study.  
○Toshihiko Sunahara
- 10:50 A11 Control of dengue fever vector mosquitoes in Pingelap Island of the Federated States of Micronesia.  
○Yasushi Otsuka, Sota Yamamoto, Motohiro Kawanishi, Shinichi Noda
- 11:00 A12 Small scale field trial on malaria control using Metofluthrin devices in Malawi. (2) A study on the density-reduction effect of Metofluthrin strips to the malaria vector mosquitoes.  
○Hitoshi Kawada, Shusuke Nakazawa, Kozue Shimabukuro, Dylo Foster Pemba.

**Moderator: Daisuke Yamamoto**

- 11:10 A13 Vector control using long-lasting insecticidal nets against visceral leishmaniasis in Bangladesh.  
○Chizu Sanjoba, Yusuf Ozbek, Bunpei Tojo, Yasutaka Osada, Eisei Noiri, Yoshitsugu Matsumoto
- 11:20 A14 Genetic divergence in populations of *Lutzomyia ayacuchensis*, a vector of Andean-type cutaneous leishmaniasis.  
○Hirotomo Kato, Abraham G. Cáceres, Eduardo A. Gomez, Tatsuyuki Mimori, Hiroshi Uezato, Yoshihisa Hashiguchi

**Moderator: Satoru Kawai**

- 11:30 A15 Analysis of transgenic *Anopheles stephensi* inducing a cell death in the salivary glands.  
○Daisuke S. Yamamoto, Megumi Sumitani, Katsumi Kasashima, Hideki Sezutsu, Hiroyuki Matsuoka
- 11:40 A16 Protective efficacy for rodent malaria by active immunization of anopheles salivary proteins.  
○Mitsuhiro Iyori, Shigeto Yoshida
- 11:50 A17 Anti-viral mechanism in *Aedes aegypti* against Japanese encephalitis virus.  
○Toshinori Sasaki, Ryusei Kuwata, Keita Hoshino, Haruhiko Isawa, Kyoko Sawabe, Mutsuo Kobayashi

## Hall-B

**Moderator: Andoh Masako**

- 9:00 B01 Severe Fever with Thrombocytopenia Syndrome Virus antibody investigation among domestic bovine transported to slaughterhouse in Shimane Prefecture, Japan.  
○Kenji Tabara, Hiromi Fujita, and Daisuke Hayasaka
- 9:10 B02 Species of ticks and their viruses in Wakayama and Yamaguchi prefectures.  
Junko Mizuno, Hiroshi Shimoda, Ryusei Kuwata, Ai Takano, Kazuo Suzuki, ○Ken Maeda
- 9:20 B03 Survey on vectors and pathogens of Japanese spotted fever and severe fever with thrombocytopenia syndrome in Fukui Prefecture.  
○Yano Y., Ishiguro F., Hirano E., Ohmura K., Fujita H., Fujita N., Takada N.
- 9:30 B04 Feature of the tick fauna in Shika town, Ishikawa prefecture, Noto peninsula, where a SFTS patient was accepted for the first time in Hokuriku district.  
○Yosaburo Oikawa, Manabu Murakami, Yasuhiro Yano, Nobuhiro Takada

**Moderator: Yosaburo Oikawa**

- 9:40 B05 Endemic survey of SFTS found in northern part of Hyogo Prefecture; viral checking on field rats and ticks.  
○N. Takada, M. Natsuaki, D. Hayasaka, A. Uda, Y. Yano, Y. Takada
- 9:50 B06 Bloodmeal analysis of *Haemaphysalis longicornis* ticks collected in an SFTS-endemic area in Japan.  
○Tomomi Sato, Haruhiko Isawa, Mamoru Watanabe, Takeo Yamauchi, Ryosuke Fujita, Kentaro Itokawa, Kyo Itoyama, Kyoko Sawabe
- 10:00 B07 Species composition of ticks in the coastal area of Iyonada of Ehime Prefecture and consideration in the transmission cycle of SFTSV.  
○Mutsuo Kobayashi, Yoshihide Maekawa, Tateo Yamauchi, Ryusei Kuwata, Toshiya Kimura, Toshihiro Ohkura, Hiroto Shinomiya, Ken Maeda, Kyoto Sawabe
- 10:10 B08 Vertical transmission of severe fever with thrombocytopenia syndrome virus in hard tick.  
○Kayoko Yamaji, Hirotaka Kanuka

(Break time)

**Moderator: Shinji Kasai**

- 10:30 B09 Evaluation across several classes of commercially available acaricides against sexually reproducing *Haemaphysalis longicornis*.  
○Ayako Okuda, Kaori Waseda, Kazunori Ohashi, Shigeru Saito, Fumio Nishioka

10:40 B10 Biological evaluation of a new synthetic pyrethroid “momfluorothrin” against house fly, *Musca domestica*.

○Yoshito Tanaka, Masahiro Yamada, Yoshinori Shono, Fumio Nishioka

10:50 B11 Effects of two neem formulations on pupation and emergence of two species of *Aedes* mosquitoes (Diptera: Culicidae).

○Minori Ochiai, Mitsuhiro Iwasa

**Moderator: Keiko Minagawa**

11:00 B12 Development of new attaching methods of insecticide impregnated tags for pasturing cattle.

○Yutaka Terada, Hiroo Shimura, Toshihiko Oomori, Yasuko Togamura, Kiyoshi Hirano, Katsushi Kanehira

11:10 B13 Studies on aerosol insecticides for wasp control.

○Hiroki Sugioka, Yuya Harada, Taiji Ono, Tomoyuki Hikitsuchi, Yumi Kawajiri, Koji Nakayama

11:20 B14 Developments of resin-based emanators containing pyrethroidal components as active ingredient and their effectiveness against flying insects.

○Yukio Kikuta, Hiroko Yoshinaka, Ryoko Niwa, Taiji Ono, Tomoyuki Hikitsuchi, Yumi Kawajiri, Koji Nakayama

**Moderator: Osamu Komagata**

11:30 B15 Radiocesium contamination and transportation of cesium through feeding and metamorphosis in dipterous flies (Muscidae, Calliphoridae) in radioactive polluted area near the Fukushima Nuclear Power Plant.

○Mitsuhiro Iwasa, Kôsuke Sato

11:40 B16 A new approach to maggot debridement therapy by improving larvae of the green bottle fly, *Lucilia sericata*.

○Takuma Yoshida, Hiroka Aonuma, Takeshi Miyawaki, Hirotaka Kanuka

11:50 B17 Spectral preference and flight behavior of dipterous insects in light emitting diodes (LED).

○Kanoko Watanabe, Mitsuhiro Iwasa

## Hall-C

**Moderator: Yoshihide Maekawa**

9:00 C01 Characteristic of female genitalia of *Tabanus* spp. (Diptera:Tabanidae) inhabiting in Hokkaido.

○Chao Yang, Hitoshi Sasaki

9:10 C02 New synonym of *Tabanus yakuensis* Ouchi, 1943 (Diptera: Tabanidae).

○Hitoshi Sasaki , Chao Yang

- 9:20 C03 Sucking lice belonging to the family Echinophthiriidae from a harbor seal, Hokkaido Japan.  
Miku Kido, Ryo Mizushima, ○Mitsuhiko Asakawa

**Moderator: Hitoshi Sasaki**

- 9:30 C04 A new species of *Isomyia* Walker from Malaysia (Diptera: Calliphoridae).  
○Hiromu Kurahashi, Siew Hwa Tan, Moi Ung Leh
- 9:40 C05 On the list of the new species described by Dr. Manabu Sasa.  
○Kiyoshi Kamimura, Tadashi Kobayashi, Kimio Hirabayashi, Jun-ichi Aoki, Takeo Yamauchi
- 9:50 C06 Development of DNA barcodes for molecular taxonomy of Japanese mosquitoes.  
○Yoshihide Maekawa, Kohei Ogawa, Osamu Komagata, Yoshio Tsuda, Kyoko Sawabe

**Moderator: Mitsuhiko Asakawa**

- 10:00 C07 Molecular phylogeography of *Geothelphusa dehaani*, the second intermediate host of *Paragonimus*, in southwestern Japan.  
Weerachai Sajuntha, Yaeko Furuya, Jun Yamaoka, Takashi Obuta, Yoko Iwashiro, ○Takeshi Agatsuma
- 10:10 C08 Trombiculid mite and tick species parasitized on tree lizards collected from Japan and Taiwan.  
○Mamoru Takahashi, Hitoko Misumi
- 10:20 C09 Trombiculid mites in Kinki District; findings of *Leptotrombidium scutellare* and *L. palpale* along Kizu River, and southern half of Kii Peninsula, and also Shimokoshi type *Orientia tsutsugamushi* antibody in field rats there.  
○Nobuhiro Takada, Mamoru Takahashi, Tomoko Nakajima, Yukiko Tamaki, Masaru Natsuaki, Yumiko Takada

(Break time)

**Moderator: Takeshi Agatsuma**

- 10:40 C10 Population genetics of *Bithynia* sp, the intermediate host of *Opisthorchis viverrini*, in southeast Asia.  
○Weerachai Saijuntha, Takeshi Agatsuma
- 10:50 C11 Active recruitment in summer and winter in Norway rat population.  
○Tatsuo Yabe, Tadao Otomo, Toshimitsu Harashima, Hiroshi Shigeoka, Kenjiro Yamaguchi
- 11:00 C12 First record of *Reithrodontomys megalotis* in Japan.  
○Tsutomu Tanikawa, Atsushi Endo, Kazuyuki Tanaka, Yoshimori Murai, Kimiyuki Tsuchiya

**Moderator: Masaru Natsuaki**

- 11:10 C13 The cases of human infestation by the swallow bug *Oeciacus hirundinis* (Hemiptera: Cimicidae).  
○Noriyuki Komatsu, Noboru Nakamura, Takeo Yamaguchi
- 11:20 C14 New record of *Dermatophagoides siboney* detected from okonomiyaki mix.  
○Tomoyuki Hashimoto, Mototaka Koto, Naoyuki Higashi
- 11:30 C15 A case of tsutsugamushi disease experienced in the year 2015 in our dermatology clinic.  
○Hideo Takenoshita, Fujita Hiromi

**Moderator: Yuichi Chigusa**

- 11:40 C16 Recent incidence of tularemia detected in serodiagnosis of acari-borne infectious disease in Japan.  
○Hiromi Fujita, Nobuko Fujita
- 11:50 C17 Tick bites in Hyogo prefecture and Japanese spotted fever around Rokko mountains.  
○Masaru Natsuaki , Kiyofumi Yamanishi, Nobuhiro Takada

### **Sub Hall**

- 13:00 – 13:40 Plenary Session
- 13:40 – 14:00 The Prize Giving Ceremony of the Society Award and the Sasa Award
- 14:00 – 15:10 Prize Winners' Presentations

**Moderator: Yoshio Tsuda**

#### **Sasa Prize 1**

Hybridization between sympatric populations of *Culex pipiens pallens* and *Culex pipiens f. molestus* (Diptera: Culicidae) in Nagasaki, Japan.

○Kazunori Ohashi

#### **Sasa Prize 2**

Retrospective study of Shimokoshi-type tsutsugamushi disease in Akita Prefecture, Japan.

○Hiroko Sato

#### **Prize of Society**

Improvement and application of techniques for epidemiological studies on acari-borne infectious diseases

○Hiromi Fujita

15:10 – 18:30 President's Lecture

**Moderator: Michiaki Masuda**

Medical zoology education in medical school in Japan

○Yuichi Chigusa

15:50 – 17:30 Symposium

**Moderators: Mitsuhiro Iwasa, Hitoshi Takase**

“Beneficial aspects of flies”

S01 Our commercialization process of medical maggots

○Hitoshi Takase et al.,

S02 Maggot therapy for limb salvage (Medical aseptic maggot debridement therapy)

○Masaaki Miyamoto et al.,

S03 Carrion flies are beneficially important as pollinators (Diptera: Calliphoridae and Sarcophagidae)

○Hiromu Kurahashi

S04 The diagnosis based on the forensic entomology

○Masahito Hitosugi

S05 Estimation of postmortem interval in the remains stage using fly larvae found in bones – Possibility and limit on the forensic entomology –

○Mitsuhiro Iwasa and Mai Okura

S06 Advantages and disadvantages of fly outbreaks in the Great East Japan Earthquake in 2011

○Mutsuo Kobayashi

17:40– Special Lecture I “Zika virus infection”

○Jose Mauro Peralta, MD, PhD

(Federal University of Rio de Janeiro, BRAZIL)

**Utsunomiya Tobu Hotel Grande**

19:00 – 21:00 Reception

17<sup>th</sup> April (Sun.)

Hall-A

**Moderator: Tomoyuki Hashimoto**

- 9:00 A18 Development of a genotyping method for pyrethroid resistance-associated sodium channel mutations in *Aedes aegypti*.  
○Takashi Tomita, Osamu Komagata, Kentaro Itokawa, Kohei Ogawa, Shinji Kasai, Tien-Huang Chen, Hwa-Jen Teng
- 9:10 A19 Detection of adulticide resistance against dengue vector, *Aedes albopictus* Skuse obtained from Sarawak, Malaysia.  
○Koon Weng Lau, Chee Dhang Chen, Han Lim Lee, Mohd Sofian-Azirun
- 9:20 A20 Mechanisms of pyrethroid resistance in yellow fever mosquito (IV).  
○Shinji Kasai, Kohei Ogawa, Kentaro Itokawa, Osamu Komagata, Takashi Tomita

**Moderator: Takashi Tomita**

- 9:30 A21 Validating a causal relationship between a detoxification enzyme and insecticide resistance using the genome editing technologies.  
○Kentaro Itokawa, Osamu Komagata, Shinji Kasai, Kohei Ogawa, Takashi Tomita
- 9:40 A22 Semi-field evaluation of insecticidal efficacy of 14 formulations against the adult of *Aedes albopictus*.  
○Keiko Minagawa, Atsuhiko Muto, Tomoyuki Hashimoto, Tohru Kazuma
- 9:50 A23 The prevention of mosquito bites with permethrin treated mesh clothes.  
○Mizuho Shimada, Teruo Yamaguchi, Daisuke S. Yamamoto, Hiroyuki Matsuoka

**Moderator: Toshihiko Sunahara**

- 10:00 A24 Bloodsucking behavioral pattern of *Aedes albopictus* during summer in Nagano Prefecture.  
○Kimio Hirabayashi
- 10:10 A25 Prediction of beginning of biting by *Aedes albopictus* using monthly mean temperature in the spring of Japan.  
○Osamu Komagata, Yukiko Higa, Atsushi Muto, Kimio Hirabayashi, Masahiro Yoshida, Takashi Sato, Naoko Nihei, Kyoko Sawabe, Mutsuo Kobayashi
- 10:20 A26 Distribution expansion of *Aedes albopictus* in Iwate Prefecture and the transition of habitation probability by generalized linear mixed model.  
○Takashi Satou, Hideyo Koizumi, Naoko Nihei, Mutsuo Kobayashi

(Break time)

**Moderator: Kyoko Sawabe**

- 10:40 A27 Adult density, larval habitats and effective control of *Aedes albopictus* in Okayama City, Japan: Results of larval survey in 2015.  
○Maekawa, Y., Tsuda, Y., Kasai, S., Minagawa, K., Kazuma, T., Yamauchi, T., Sawabe, K.
- 10:50 A28 Adult density, larval habitats and effective control of *Aedes albopictus* in Okayama City, Japan: Results of adult survey in 2015.  
○Tsuda, Y., Maekawa, Y., Kasai, S., Minagawa, K., Kazuma, T., Yamauchi, T., Sawabe, K.
- 11:00 A29 The 2015 surveillance result of disease-transmitting adult mosquitoes in Tokyo.  
○Kumiko Takahashi, Tomoyoshi Iguchi, Takeshi Ishikami, Yukiko Tabei, Takumi Kobayashi, Mika Wakebe, Kazumichi Yano, Yoko Nadaoka, Toshinari Suzuki, Mitsugu Hosaka
- 11:10 A30 The 2015 surveillance result of disease-transmitting mosquito larvae in Tokyo.  
○Tomoyoshi Iguchi, Kumiko Takahashi, Yukiko Tabei, Kazumichi Yano, Takeshi Ishikami, Yoshika Wakebe, Takumi Kobayashi, Kimiyo Watanabe, Yoko Nadaoka, Toshinari Suzuki, Mitsugu Hosaka

**Moderator: Nobuko Tuno**

- 11:20 A31 Aquatic habitats of *Aedes* mosquitoes found in schools in Yangon, Myanmar.  
○Sai Zaw Min Oo, Noboru Minakawa, Yan Naung Maung Maung, Sein Thaug, Khin Myo Aye, Zar Zar Aung, Hlaing Myat Thu, Khin Yupar Soe, Kyaw Zin Thant
- 11:30 A32 Species composition and insecticide resistance of *Aedes* mosquitoes collected from high and low Dengue risk areas in Hanoi.  
○Takashi Tsunoda, Nguyen Hong Huong, Nguyen Thi Dung, Vu Trong Duoc, Tran Vu Phong, Masahiro Takagi
- 11:40 A33 Population structure of *Aedes aegypti*: Asian type distributing in east African coast.  
○K. Futami, E. Fonzi, J. Hu, Y. Higa, A. Abílio, M. Lázaro, S. Gowelo, D. Pemba, S. Ngonda, A. Mweene, H. Sawa, M. Zimba, N. Minakawa

**Moderator: Hirotomo Kato**

- 11:50 A34 Analysis of Negevirus isolated from mosquitoes in Phillipines.  
○Ryosuke Fujita, Ryusei Kuwata, Arlene G. Bertuso, Yukiko Higa, Daisuke Kobayashi, Toshinori Sasaki, Haruhiko Isawa, Kyoko Sawabe
- 12:00 A35 Endogenous viral elements in mosquitoes' genome.  
○Ryusei Kuwata, Haruhiko Isawa, Kentaro Itokawa, Toshinori Sasaki, Osamu Komagata, Shinji Kasai, Takashi Tomita, Yoshio Tsuda, Mutsuo Kobayashi, Ken Maeda, Kyoko Sawabe

(Break time)

13:00 – 14:30 Special Lecture II

**Moderators: Hiroyuki Matsuoka, Yoshiteru Seo**

“Fundamental of identifications in the field of medical zoology”

S07 When you encounter unfamiliar creatures  
○Masashi Kirinoki

S08 Mite and tick identification guide  
○Teruki Kadosaka

S09 The filth flies  
○Satoshi Shinonaga

S10 How to identify mosquitoes  
○Yukiko Higa

14:40 – 16:10 Sasa Memorial Seminar

**Moderators: Kiyoshi Kamimura, Mizuho Shimada**

“Toward the future of Medical Zoology and Entomology”

S11 Advances in tsutsugamushi disease Research  
○Teruki Kadosaka

S12 Studies on Chironomidae: current status and future prospects  
○Kimio Hirabayashi

S13 Recent development of ecological studies on mosquitoes and its contribution to vector control  
○Toshihiko Sunahara

## Hall-B

**Moderator: Yasuhiro Yano**

9:00 B18 A novel tick-borne flavivirus identified in Honshu island, Japan.  
○Hiroshi Shimoda, Junko Mizuno, Kenzo Yonemitsu, Shohei Minami, Ryusei Kuwata, Kentaro Yoshii, Daisuke Hayasaka, Ken Maeda

9:10 B19 Genetic analysis of *Rickettsia* sp. HKT-1 isolated from *Haemaphysalis kitaokai* collected in Yakushima Island, Kagoshima.  
○Masako Andoh, Toshiro Honda, Mutsuyo Gokuden, Hiromi Fujita, Yasuhiro Yano, Tatsunori Masatani, Tetsuya Tanaka, Tomohide Matsuo, Yasuyuki Endo, Shuji Ando, Hiroki Kawabata

- 9:20 B20 Rapid and comprehensive identification of viruses in hematophagous arthropod vectors by next-generation sequencing.  
○Haruhiko Isawa, Ryosuke Fujita, Daisuke Kobayashi, Hiroko Ejiri, Kentaro Itokawa, Takeo Yamauchi, Horotomo Kato, Chizu Sanjoba, Mutsuo Kobayashi, Toshinori Sasaki, Kyoko Sawabe
- 9:30 B21 Entomological surveillance for arbovirus infection in Accra, Ghana in 2015.  
○Daisuke Kobayashi, Haruhiko Isawa, Ryosuke Fujita, Kentaro Itokawa, Joseph HN Osei, Millicent Opoku, Alfred Agbekudzi, Jay Joannides, Esinam Agbosu, Samuel Dadzie, Kofi Bonney, Toshinori Sasaki, Kyoko Sawabe, Mitsuko Ohashi, Nobuo Ohta

**Moderator: Shuji Ohhira**

- 9:40 B22 Survey of tick fauna associated with domestic animals in Mindoro and Luzon, the Philippines.  
○Takeo Yamauchi, Yukiko Higa, Arlene Garcia Bertuso, Kyoko Sawabe
- 9:50 B23 Seroepidemiological survey of tick-borne infection and tsutsugamushi disease with residents in Katsuura town Tokushima prefecture Japan.  
○Noriyasu Kondo, Takashi Hiraga, Yasunori Konishi, Hiromi Fujita, Nobuko Fujita
- 10:00 B24 A survey on abundance and distribution of mites in the bedding of common homes.  
○Kayako Shoji, Hiroki Kamezaki, Satoshi Koukata, Shinichiro Uemura

**Moderator: Marcello Otake Sato**

- 10:10 B25 Molecular identification of blood meals ingested by female *Simulium bidentatum* caught in a wild boar shed, Oita, Japan.  
○Masako Fukuda, Yasushi Otsuka, Hiroyuki Takaoka
- 10:20 B26 Breeding habitat preference of preimaginal black flies (Diptera: Simuliidae) in tropical streams of Peninsular Malaysia.  
○Zubaidah Ya'cob, Hiroyuki Takaoka, Pairot Pramual, Van Lun Low, Chee Dhang Chen, Mohd Sofian-Azirun
- 10:30 B27 Phylogenetic relationships of the *Simulium asakoe* and *Simulium ceylonicum* species groups (Diptera: Simuliidae) in Malaysia.  
○Van Lun Low, Hiroyuki Takaoka, Peter H Adler, Zubaidah Ya'cob, Yusoff Norma-Rashid, Chee Dhang Chen, Mohd Sofian-Azirun

(Break time)

**Moderator: Hitoshi Kawada**

- 10:50 B28 Insecticide susceptibility status of black fly, *Simulium nobile* (Diptera: Simuliidae) against DDT, dieldrin, propoxur, malathion and permethrin in Malaysia.  
○Chee Dhang Chen, Koon Weng Lau, Hiroyuki Takaoka, Poh Ruey Tan, Ai Chdon Chin, Van Lun Low, Yusoff Norma-Rashid, Zubaidah Ya'cob, Mohd Sofian-Azirun
- 11:00 B29 Expression of *Cimex lectularius* acetylcholinesterases in *Escherichia coli*.  
○KOMAGATA Osamu, MASHIKO Reona, ITOKAWA Kentaro, ITOYAMA Kyo, KASAI Shinji, TOMITA Takashi
- 11:10 B30 Resistance to fipronil in several Japanese populations of the German Cockroach.  
○Yasuhiro Tomioka, Goro Kimura, Tsutomu Tanikawa
- 11:20 B31 Preliminary screening test for acaricide resistance in the blue tick, *Rhipicephalus decoloratus*, collected in Kenya with a SNP typing.  
○Takeshi Hatta, Martin D. Muinde, Aboge G. Oluga, David O. Odongo, Akio Takenaka, Esther W. Ngethe, Naotoshi Tsuji

**Moderator: Kimio Hirabayashi**

- 11:30 B32 Biting midges, genus *Culicoides*, collected at Ozegahara, Central Honshu, Japan (Diptera: Ceratopogonidae).  
○Takao Kanasugi
- 11:40 B33 Massive occurrence of *Leptoconops* (*Leptoconops*) *taiwanensis* (Diptera: Ceratopogonidae) at Kume Island, Japan.  
○Goro Kimura, Takao Kanasugi, Tomomitsu Uezu, Akira Nakamoto
- 11:50 B34 Species composition of *Culicoides* biting midges collected at cattle sheds and a poultry house in Amami Oshima.  
○Tohru Yanase, Shogo Ikeda, Shogo Sakakihara, Hirotaka Horiwaki, Hiroaki Shirafuji, Tomoko Kato, Koji Setoguchi