

Program

April 15 (Saturday)

Room A

Moderator: Noboru Minakawa

- 9:00 **A101 Recent invasion of *Aedes albopictus* into Aomori Prefecture, Japan**
○Kobayashi M.¹, Maekawa Y.¹, Komagata O.¹, Ishida K.², Fujii S.², Okuyama H.², Shiono Y.², Sawabe K.¹ (¹National Institute of Infectious Diseases, ²Sendai Quarantine Station)
- 9:10 **A102 The 2016 surveillance result of disease-transmitting mosquitoes in Tokyo**
○Kumiko Takahashi, Tomoyoshi Iguchi, Takeshi Ishikami, Yukiko Tabei, Yuu Sakai, Takumi Kobayashi, Yoshika Wakebe, Kazumichi Yano, Yoko Nadaoka. Toshinari Suzuki, Mitsugu Hosaka (Tokyo Metropolitan Institute of Public Health)
- 9:20 **A103 The 2016 surveillance results of disease-transmitting mosquito larvae in Tokyo**
○Tomoyoshi Iguchi, Kumiko Takahashi, Takeshi Ishikami, Yukiko Tabei, Kimiyo Watanabe, Chieko Hatami, Tsuyoshi Igarashi, Yuki Kosugi, Tomoko Okubo, Yuu Sakai, Takumi Kobayashi, Mika Wakebe, Kazumichi Yano, Hiroyuki Konishi, Yoko Nadaoka. Toshinari Suzuki, Mitsugu Hosaka (Tokyo Metropolitan Institute of Public Health)

Moderator: Mutsuo Kobayashi

- 9:30 **A104 Adult density and larval habitats of *Aedes albopictus* at public facilities and a residential area in Okayama City, Japan in 2015 and 2016.**
○Tsuda, Y.¹, Maekawa, Y.¹, Kasai, S.¹, Minagawa, K.², Kazuma, T.², Horiguchi, T. Yamauchi, T.³ and Sawabe, K.¹ (¹National Institute of Infectious Diseases, ²Japan Environmental Sanitation Center, ³University of Hyogo)
- 9:40 **A105 Movement of *Aedes albopictus* released from a cemetery locating at the base of a small hill.**
○Yoshihide Maekawa¹, Yoshio Tsuda¹, Takeo Yamauchi², Masato Igarashi³, Toru Kazuma⁴, Yuzo Satou⁵, Ryuichi Kanayama⁵, and Kyoko Sawabe¹ (¹National Institute of Infectious disease, ²University of Hyogo, ³Hohto Shoji Co., Ltd., ⁴Japan Environmental Sanitation Center, ⁵SC Environmental Science Co., Ltd.)
- 9:50 **A106 Mosquito control in a university campus**
○Toshihiko Sunahara (Institute of Tropical Medicine, Nagasaki University)
- 10:00 **(Break)**

Moderator: Kazunori Ohashi

- 10:10 **A107 The approach to mosquito-borne viral disease, dengue, control by using *Sympetrum frequens* larvae.**
○Jinguji, H. and Kumagai, T. (Miyagi University)
- 10:20 **A108 Habitation risk map of *Aedes albopictus* in Iwate Prefecture by generalized linear mixed model**
○Takashi Satou¹, Naoko Nihei², Mutsuo Kobayashi² (¹Department of Earth Science, Iwate Prefectural Research Institute for Environmental Sciences and Public Health, ²Department of Medical Entomology, National Institute of Infectious Diseases)
- 10:30 **A109 Mosquito surveillance in the disaster area of Kumamoto Earthquake**
○Yonejima, M.¹, Watanabe, M.², Watanabe, H.³, Muramatsu, Y.⁴, Higashida, K.⁴, Kobayashi, M.² and Sawabe, K.² (¹Kumamoto University, ²National Institute of Infectious Disease, ³Toyama-city, ⁴Kumamoto Pest Control Association)
- 10:40 **A110 Difference in occurrence of the mosquito in the disaster area of Kumamoto Earthquake and the Great East Japan Earthquake.**
○Watanabe, M.¹, Watanabe, H.², Yonejima, M.³, Sawabe, K.¹ (¹National Institute of Infectious Disease, ²Toyama-shi, ³Kumamoto University)

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Moderator: Yoshio Tsuda

- 10:50 **A111 Continual monitoring for mosquito using BG-centinel (2) in a shrine in Takatsuki-city, Osaka.**
○Kakurou Kanno, Yukio Adachi, Koji Maeda, Yoshihiro Ishikawa, Katsuyuki Miura, Junichiro Katayama
- 11:00 **A112 Mosquito surveillance using three methods: the human-baiting method, the CDC-type trap with dry-ice, and BG-sentinel 2 trap.**
○Fukuura, Y. and Nakajima, S. (Kyoto Prefectural Institute of Public Health and Environment, Environmental Health Division)
- 11:10 **(Break)**
- 11:20 **A113 Overwintering of *Aedes aegypti* eggs under outdoor conditions in Nagasaki City from October 2015 to March 2016.**
○Yukiko Higa¹, Chiaki Tsurukawa¹, Nozomi Imanishi¹, Yoshio Tsuda², Kyoko Sawabe²
(¹NEKKEN, Nagasaki University, ²Department of Medical Entomology, NIID)
- Moderator: Osamu Komagata
- 11:30 **A114 Dissecting the molecular mechanism of sensation of ATP, a phagostimulant for the blood sucking behavior**
○Chisako Sakuma, Hirotaka Kanuka (Department of Tropical Medicine, Center for Medical Entomology, The Jikei University School of Medicine, Tokyo, Japan)
- 11:40 **A115 *Wolbachia* tropism in *Aedes aegypti***
○Manabu Ote^{1,2}, Hirotaka Kanuka^{1,2} (¹Department of Tropical Medicine, ²Center for Medical Entomology, The Jikei University School of Medicine)
- 11:50 **A116 Molecular mechanism of host recognition in dengue vector mosquito**
○Hidetoshi Ichimura^{1,2}, Chisako Sakuma^{1,2}, Chun-Hong Chen³, Hirotaka Kanuka^{1,2}
(¹Department of Tropical Medicine, ²Center for Medical Entomology, The Jikei University School of Medicine, Japan ³National Health Research Institutes, Taiwan)
- 12:00 **A117 Analysis of transgenic *Anopheles stephensi* inducing a cell death in the testis.**
○Daisuke S. Yamamoto¹, Megumi Sumitani², Katsumi Kasashima³, Hideki Sezutsu², Hiroyuki Matsuoka¹, Hirotomo Kato¹ (¹Division of Medical Zoology, Jichi Medical University, ²Transgenic Silkworm Research Unit, NARO, ³Division of Functional Biochemistry, Jichi Medical University)
- 13:30 Annual General Meeting
- Moderator: Yoshio Tsuda
- 14:10 Prize of Society and Sasa Prize Giving Ceremony
Sasa Prize: A nationwide survey on distribution of mosquitoes in Japan / DNA barcoding for molecular identification of Japanese mosquitoes
○Yoshihide Maekawa (National Institute of Infectious Diseases)
Prize of Society: Studies on control of vector and vector-borne diseases in Japan
○Kyoko Sawabe (National Institute of Infectious Diseases)
- Moderator: Noboru Minakawa
- 15:20 Symposium
S1 Intra-specific diversity of bacteria in *Anopheles* mosquito midgut defines *Plasmodium* transmission capacity
○Hirotaka Kanuka (Department of Tropical Medicine, Center for Medical Entomology, The Jikei University School of Medicine)
S2 Surveillance and effective control of vector mosquitoes of dengue and zika virus in Japan
○Yoshio Tsuda (National Institute of Infectious Diseases)

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S3 Tick-borne viruses

○Daisuke Hayasaka (Department of Virology, Institute of Tropical Medicine, Nagasaki University)

S4 Control of schistosomiasis in sub-Saharan Africa: what role is left for medical malacology?

○J. Russell Stothard (Liverpool School of Tropical Medicine)

Room B

Moderator: Yasushi Otsuka

9:00 **B101 Water hyacinth floating on Lake Victoria and migration of possible intermediate host snails of *Schistosoma*.**

○Kyoko Futami, Mihoko Kikuchi, Fumie Hara, Jinping Hu, Noboru Minakawa, Shinjiro Hamano (Institute of Tropical Medicine, Nagasaki University)

9:10 **B102 Analysis of the genetic structure of *Aedes aegypti* found in Narita and Haneda Airport**

○Jinping Hu¹ Kentaro Itokawa² Kyoko Futami¹ Yukiko Higa¹ Kyoko Sawabe² Noboru Minakawa¹ (¹ Nekken, Nagasaki University ² National Institute of Infectious Diseases)

9:20 **B103 Global warming suppresses population growth of *Hyphantria cunea***

○Nobuko Tuno (Kanazawa University)

Moderator: Chizu Sanjoba

9:30 **B104 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—Surveys in 2015~2016—.**

○Mitsuhiro Iwasa, Kôsuke Sato (Obihiro University of Agriculture & Veterinary Medicine)

9:40 **B105 Occurrence of Chironomid Midges from an Indoor Swimming Pool and Plans for their Control.**

○Hirabayashi, K. (Shinshu University)

9:50 **B106 Seasonal abundance and daily flying activity of black flies attracted to human baits in Amami-oshima, Japan**

○Yasushi Otsuka¹, Masako Fukuda², Hiroyuki Takaoka³ (¹Kagoshima Univ. ²Oita Univ. ³Univ. of Malaya)

10:00 **(Break)**

10:10 **B107 Collections of adult black flies attracted to wild boar in Oita, Japan.**

○Masako Fukuda¹, Yasushi Otsuka², Hiroyuki Takaoka³ (¹Oita Univ. ²Kagoshima Univ. ³Univ. of Malaya)

Moderator: Noriyuki Komatsu

10:20 **B108 The pattern of going out from a wood-hole harborage in a forest population of the smoky brown cockroach**

○Hideakira Tsuji (KSK Institute for Environmental Biology)

10:30 **B109 Duration of survival of the smoky-brown cockroach, *Periplaneta fuliginosa*, in the starvation state**

○Yasuhiro Tomioka, Kazuyuki Tanaka, Goro Kimura, Tsutomu Tanikawa (Technical Research Laboratory, Ikari Shodoku Co., Ltd.)

Moderator: Mitsuhiro Iwasa

10:40 **B110 Detection of a hybrid *Leishmania* from *Lutzomyia tejadai* in Peru**

○Hiroto Kato (Div. of Med. Zool., Jichi Medical Univ.), Abraham G. Cáceres (Lab. de Entomol., Instituto Nacional de Salud, Peru), Yoshihisa Hashiguchi (Dept. de Parasitol. y Med. Trop., Univ. Católica de Santiago de Guayaquil, Ecuador)

10:50 **B111 The first record of Phlebotomine Sand fly (Diptera: Psychodidae, Phlebotominae) from Tokyo, Japan.**

○Chizu Sanjoba, Satoko Omachi, Kai Sato, Yoshitsugu Matsumoto (Graduate School of Agricultural and Life Science, Univ. of Tokyo)

11:00 **B112 Female genitalia of some tabanids inhabiting Hokkaido, Japan (Diptera: Tabanidae)**

○CHAO YANG · Sasaki Hitoshi (Rakuno Gakuen University)

11:10 (Break)

11:20 B113 The deer brought tabanid fly

○Watanabe M. (Department of Medical Entomology, NIID)

Moderator: Nobuko Tuno

11:30 B114 A newly recorded species of the subfamily Pseudophyllodromiinae (Blattodea) from Iriomote Island.

○Noriyuki Komatsu¹, Hong- Kean Ooi², Naoki Bando³, Akihiko Uchida⁴ (¹Civil International Corporation, ²Azabu Univ., ³Super Buddies. ⁴Yamazaki Gakuen Univ.)

11:40 B115 On the Japanese name for *Culex tritaeniorhynchus*, the principal vector of Japanese encephalitis in Japan.

○Kiyoshi Kamimura (Marusan Pharma Biotech Co.)

11:50 B116 Implication for three distinct groups of *Anopheles lindesayi* in Japan by morphological and genetic analyses.

○Nozomi Imanishi¹, Yukiko Higa², Hwa Jen Teng³, Toshihiko Sunahara², Noboru Minakawa² (¹Biomedical Science, Nagasaki University, ²NEKKEN, Nagasaki University, ³CDC, Taiwan)

12:00 B117 Blood feeding related behavior of *Culex tritaeniorhynchus* around cow sheds

○Masahiro Takagi¹, Akira Sugiyama², Katsumi Maruyama³ (¹ Omura, Nagasaki Pref., ² Nagoya Woman's Univ., ³ Suzuka, Mie Pref.)

Room C

Moderator: Takeo Yamauchi

9:00 C101 Acari-borne infectious diseases recently found from Hokuriku to Kinki Districts; their endemic factors are common each other?

○Nobuhiro Takada^{1,3}, Masaru Natsuaki² (¹Facul. Med. Sci., Univ. Fukui, ²Hyogo Coll. Med., ³MFSS)

9:10 C102 Consideration on the species of human bite ticks—Referring to the cases in Noto district, Ishikawa Prefect.

○Yosaburo Oikawa and Manabu Murakami (Dept. Medical Zoology, Kanazawa Medical Univ.)

9:20 C103 Six cases of tick bites infested in foreign countries

○Masaru Natsuaki¹, Yasuhiro Yano², Nobuhiro Takada², Takuya Ito³ (¹Department of Dermatology, Hyogo College of Medicine, ²Faculty of Medical Sciences, University of Fukui, ³ Hokkaido Institute of Public Health)

Moderator: Yasuhiro Yano

9:30 C104 An evaluation on removal of tick on patient: usefulness of tick twist method

○Fumihiko Mahara^{1,2}, Hiromi Fujita² (¹Mahara hospital, ²Mahara Institute of Medical Acarology)

9:40 C105 Trombiculid mite and tick species parasitized on green snakes of the genus *Cyclophiops* in Japan

○Mamoru Takahashi, Hitoko Misumi (Saitama Med. Univ.)

9:50 C106 Cross-sectional observation of tick with Focused Ion Beam Scanning Electron Microscope

○Hideki MATSUSHIMA, Syunzo KONDO, Toshiaki SUZUKI (JEOL Ltd.)

10:00 (Break)

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Moderator: Mamoru Takahashi

- 10:10 **C107 Crown length of maxillary molar row and body size indicated: environmental factors caused small mass in Norway rats (*Rattus norvegicus*) on the Hahajima Islands**
○Tatsuo YABE¹, Kazuo HORIKOSHI² and Takuma HASHIMOTO³ (¹Tropical Rat-Control Committee, ²Institute of Boninology, ³Japan Wildlife Research Center)
- 10:20 **C108 The inquiries on Masked palm civet in Tokyo and Japan pest control association**
○Tanikawa T.^{1,2}, Tamada A.¹ and Hirao M.²(¹Tokyo Pest Control Association, ²Japan Pest Control Association)
- 10:30 **C109 *Hemiclepsis marginata* (Hirudinida: Glossiphoniidae) obtained from a breeding Japanese giant salamander (*Andrias japonicus*) in a zoological garden**
Sachina Tanaka¹, Yuki Taguchi², Ayako Noda², Nonoue Noriyuki², ○Mitsuhiko Asakawa¹
(¹School of Veterinary Medicine, Rakuno Gakuen University, ²Hiroshima City Asa Zoological Park)

Moderator: Yoshihide Maekawa

- 10:40 **C110 Effect of light trap size and location on capturing of Cigarette beetle, *Lasioderma serricorne* (F.) (Coleoptera: Anobiidae)**
○Shingo Waguri¹, Shoma Ogino², Yasuki Kitashima², Tetsuo Gotoh² (¹Fuji Environmental Service Co., Ltd., ²Faculty of Agriculture, Ibaraki University)
- 10:50 **C111 Observation of mosquito skin penetration and blood suction using laboratory animal and inverted microscope**
Haruki Yamamoto¹, Tomokazu Takahashi¹, Masato Suzuki¹, ○Seiji Aoyagi¹, Tomoyuki Hikitsuchi², Yumi Kawajiri², Koji Nakayama² (¹Kansai Univewrsity, ²Dainihon Jochugiku Co., Ltd.)
- 11:00 **C112 Development of the bioassay device for evaluating mosquito repellency. (1) - Carbon dioxide as the improvement factors for blood feeding of *Aedes albopictus*.**
○Kanya Kuramoto¹, Takuya Mitsuhashi¹, Yoshiko Takahashi¹, Akiko Watanabe¹, Chiaki Tsurukawa², Hitoshi Kawada² (¹KAKEN TEST CENTER General Incorporated Foundation, ²Institute of tropical medicine, Nagasaki University)
- 11:10 **(Break)**

Moderator: Kimio Hirabayashi

- 11:20 **C113 Attraction of *Aedes aegypti* to physical and chemical factors to develop an autocidal ovitrap**
○Takashi Tsunoda¹, Nguyen Thi Dung¹, Vi Quynh Trang¹, Tran Vu Phong³, Noboru Minakawa¹
(¹Institute of Tropical Medicine, Nagasaki University, ²Vietnam Research Station, Nagasaki University, ³National Institute of Hygiene and Epidemiology, Vietnam)
- 11:30 **C114 Investigational production of redback spider (*Latrodectus hasseltii*) antivenom in Japan.**
○Kyoko Sawabe¹, Reona Mashiko², Yoshihide Maekawa¹, Kohei Ogawa¹, Kentaro Itokawa^{1,3}, Tomomi Sato^{1,4}, Haruhiko Isawa¹, Yoshio Tsuda¹, Mutsuo Kobayashi¹, Takayuki Matsumura⁵, Manabu Ato⁵, Akihiko Yamamoto⁶, Toru Hifumi⁷ (¹Department of Medical Entomology, NIID, ²Meiji University, ³Japan Agency for Medical Research and development, ⁴Graduate School of Agriculture, Meiji University, ⁵Department of Immunology, NIID, ⁶Division of Biosafety Control and Research, NIID, ⁷Emergency Medical Center, Kagawa University Hospital)

Moderator: Tomoyuki Hashimoto

- 11:40 **C115 Measures against insect stings in Fukushima prefecture decontamination areas (the 1st report)**
○Shinya Mukae, Hiroki Sugioka, Sayaka Kikuta, Yukiko Miki, Ryoko Niwa, Taiji Ono, Tomoyuki Hikitsuchi, Yumi Kawajiri, Koji Nakayama (Dainihon Jochugiku Co., Ltd.)

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11:50 C116 Measures against insect stings in Fukushima prefecture decontamination areas (the 2nd report)

○Hiroki Sugioka, Shinya Mukae, Ryoko Niwa, Taiji Ono, Tomoyuki Hikitsuchi, Yumi Kawajiri, Koji Nakayama (Dainihon Jochugiku Co., Ltd.)

12:00 C117 Repellent effects of insect repellents containing Icaridin as an active ingredient.

○Sayaka Kikuta, Yoko Kobayashi, Taiji Ono, Tomoyuki Hikitsuchi, Yumi Kawajiri, Koji Nakayama (Dainihon Jochugiku Co., Ltd.)

April 16 (Sunday)

Room A

Moderator: Takashi Tomita

- 9:00 **A201 A cluster randomized controlled trial to assess the effectiveness of covering house eave gaps and ceilings with Olyset® Net for reducing risk of *Plasmodium falciparum* infection**
○ Noboru Minakawa¹, James O Kongere², George O. Sonye³, Beatrice Awuor³, Jinping Hu¹, Peter A. Lutiali², Mercy Mwanja², Hitoshi Kawada¹, Kyoko Futami¹, Sammy M. Njenga⁴ (¹NEKKEN, Nagasaki University, ²NUITM-KEMRI Project, NEKKEN, Nagasaki University, ³ASK Project, Mbita, Kenya, ⁴Eastern and Southern Africa Centre of International Parasite Control, Kenya Medical Research Institute)
- 9:10 **A202 Large scale field trial on malaria control using Metofluthrin devices in Malawi. (1) A study on the density-reduction effect of Metofluthrin strips to the malaria vector mosquitoes and their effect on the *Plasmodium falciparum* positive rates in children.**
○ Hitoshi Kawada¹, Shusuke Nakazawa¹, Kozue Shimabukuro², Kazunori Ohashi³, Eggrey Aisha Kambewa⁴, Dylo Foster Pemba⁴. (¹Nagasaki University, ²Nagano College of Nursing, ³Sumitomo Chemical Co., Ltd., ⁴Department of Biology, Chancellor College, University of Malawi)
- 9:20 **A203 The effectiveness of newly formulated pyriproxyfen (Sumilarv® 2 MR) against *Aedes* mosquitoes found in school compounds in Yangon, Myanmar**
○ Sai Zaw Min Oo^{1,2}, Noboru Minakawa¹, Yan Naung Maung Maung², Sein Thau², Khin Myo Aye², Zar Zar Aung², Hlaing Myat Thu², Khin Yupar Soe³ and Kyaw Zin Thant² (¹Institute of Tropical Medicine, Nagasaki University, Japan, ²Department of Medical Research, Ministry of Health, Myanmar, ³Department of Medical Services, Ministry of Health, Myanmar)

Moderator: Hitoshi Kawada

- 9:30 **A204 Insecticide susceptibility status of *Aedes albopictus* collected in Japan 2015**
○ Takashi Tomita¹, Shinji Kasai¹, Osamu Komagata¹, Kentaro Itokawa¹, Hideyoshi Maekawa¹, Yoshio Tsuda¹, Noboru Yaguchi², Kazuki Ogata³ (¹Natl Inst Infect Dis, ²Ikebukuro PHC, Toshima-ku Tokyo, ³Jpn Env Sanit Ctr)
- 9:40 **A205 Pyrethroid resistance and knockdown resistance genes in *Aedes* mosquitoes collected from Vietnam**
○ Shinji Kasai¹, Takashi Tsunoda², Yoshihide Maekawa¹, Kentaro Itokawa^{1,3}, Katsunori Murota^{1,3}, Osamu Komagata¹, Tran Chi Cuong⁴, Tran Vu Phong⁴, Nguyen Thi Yen⁴, Vu Sinh Nam⁴, Noboru Minakawa², Kyoko Sawabe¹, Takashi Tomita¹ (¹Department of Medical Entomology, National Institute of Infectious Diseases, ²Institute of Tropical Medicine, Nagasaki University, ³Japan Agency for Medical Research and Development (AMED), ⁴National Institute of Hygiene and Epidemiology, Vietnam)
- 9:50 **A206 Field efficacy test using adulticides of lower dosage with various formulations to *Aedes albopictus*.**
○ Keiko Minagawa¹, Atsuhiko Muto¹, Tomoyuki Hashimoto¹, Tohru Kazuma¹, Tomohiro Horiguchi¹, Yoshio Tsuda², Yoshihide Maekawa², Kyoko Sawabe² (¹Japan Environmental Sanitation Center, ²National Institute of Infectious Diseases)
- 10:00 **(Break)**

Moderator: Shinji Kasai

- 10:10 **A207 Pyriproxyfen Adsorption to A-PET and Humic Acid Sodium Salts in Water**
○ KOMAGATA Osamu, ITOKAWA Kentaro, KASAI Shinji, TOMITA Takashi (Department of Medical Entomology, National Institute of Infectious Diseases)
- 10:20 **A208 Control of mosquito larvae inhabiting in catch basin using pyriproxyfen and the mechanisms contributing its biological efficacy**
○ Kazunori Ohashi (Sumitomo Chemical Co., Ltd.)

- 10:30 **A209 A genetic study of pyriproxyfen-resistance in *Culex pipiens* form *molestus***
○Kentaro Itokawa¹, Osamu Komagata¹, Shinji Kasai¹, Takashi Tomita¹ (¹Natl Inst Infect Dis, ²AMED)

Moderator: Masaaki Sugiura

- 10:40 **A210 Mode of entry of a vaporized pyrethroid knockdown agent into the body of the housefly, *Musca domestica* (Diptera: Muscidae)**
○Yusuke Sumita^{1,2}, Hitoshi Kawada¹, Noboru Minakawa¹ (¹ Institute of Tropical Medicine (NEKKEN), Nagasaki University · ² Health & Crop Sciences Research Laboratory, Sumitomo Chemical Company Limited)
- 10:50 **A211 Resin net impregnated with Permethrin have an inhibition efficacy against invasion of the biting midges into a hog-pen.**
Kanasugi, Takao¹, Narumi, Shun², ○Sasaki, Hitoshi² (¹Gunma Insect World, ² Rakuno Gakuen University)
- 11:00 **A212 Evaluation of ethofenprox on *Leptoconops* (*Leptoconops*) *taiwanensis* adult.**
○Goro Kimura¹, Akira Nakamoto², Tomomitsu Uezu³, Takao Kanasugi⁴ (¹Ikari Shodoku Co., Ltd. ²Ikari Shodoku Okinawa Co., Ltd. ³Kumejima town hall ⁴Gunma Insect World)
- 11:10 **(Break)**

Moderator: Goro Kimura

- 11:20 **A213 Factors of insecticidal resistance reduction of resistant strain insect by continuous breeding**
○Masaaki Sugiura (Fumakilla Limited)
- 11:30 **A214 Development of cockroach repellent with Japanese mint oil**
○Natsuki Sugano, Cho ho, Akira Nitto (Earth Chemical Co., Ltd.)
- 11:40 **A215 Effect of surfactant on human body louse, *Pediculus humanus corporis*.**
○Naoko Ikeda, Hiroyuki Inami, Yoshiaki Yoshioka (Osaka Pharmaceutical Co.,Ltd.)
- 11:50 **A216 Field evaluation of 4 acaricides on ticks in the confined space**
○Tomoyuki Hashimoto¹, Keiko Minagawa¹, Tohru Kazuma¹, Atsuhiko Muto¹, Shinji Kasai², Yoshihide Maekawa², Mamoru Watanabe², Takashi Tomita², Osamu Komagata², Kyoko Sawabe², Takeo Yamauchi³, Miyako Shiraishi⁴, Hideaki Oishi⁵ (¹Japan Environmental Sanitation Center, ³National Institute of Infectious Diseases, ³University of Hyogo, ⁴Hyogo Prefecture, ⁵Toyooka City)

Moderator: Hitoshi Kawada

- 13:30 **Open Session: How to treat common medically important animals**
- O1 Acari**
○Takashi Tsunoda (Institute of Tropical Medicine, Vietnam Research Station, Nagasaki University)
- O2 Cockroaches**
○Masaaki Sugiura (Fumakilla Limited)
- O3 How to reduce common mosquitoes**
○Toshihiko Sunahara (Institute of Tropical Medicine, Nagasaki University)
- O4 How to use insecticide**
○Tsutomu Tanikawa (Technical Research Laboratory, Ikari Shodoku Co., Ltd)

Room B

Moderator: Hiroki Kawabata

- 9:00 **B201 Survey of SFTS virus and spotted fever group rickettsia in tick recovered from pets in Fukuoka**
 ○Yuki Ashizuka, Takayuki Kobayashi, Hideaki Yoshitomi, Asako Nakamura, Jumboku Kajiwara (Fukuoka Institute of Health and Environmental Sciences)
- 9:10 **B202 Transmission cycle of tick-borne viral diseases in Japan**
 ○Shimoda H, Mizuno J, Nguyen van D, Yonemitsu K, Minami S, Nagata N, Kuwata R, Takano A, Maeda K (Yamaguchi University)
- 9:20 **B203 Molecular detection of *Anaplasma phagocytophilum* from peripheral blood of a dog with fever and thrombocytopenia**
 ○ Mako Morikawa ¹, Mizuki Anraku ¹, Yuichi Fukui ², Hisashi Inokuma ¹ (¹Department of Clinical Veterinary Science, Obihiro University of Agriculture & Veterinary Medicine, ² Komachi Animal Hospital)
- 9:30 **B204 Molecular and serological survey of *Anaplasma phagocytophilum* infection of dogs and ticks in Tsukuba, Ibaraki Prefecture, where a canine clinical case of *A.phagocytophilum* infection had occurred.**
 ○ Mizuki Anraku ¹, Mako Morikawa ¹, Yuichi Fukui ², Hisashi Inokuma ¹ (¹ Department of Clinical Veterinary Science, Obihiro University of Agriculture & Veterinary Medicine, ² Komachi Animal Hospital)

Moderator: Nobuhiro Takada

- 9:40 **B205 Investigation of new antigen for serodiagnosis system on *Borrelia miyamotoi* disease.**
 ○Kozue Sato¹, Yumi Kumagai¹, Kimiaki Yamano², Makoto Ohnishi¹, Hiroki Kawabata¹ (National Institute of Infectious Diseases¹, Hokkaido Institute of Public Health²)
- 9:50 **B206 Emerging relapsing fever : Is important as the differential diagnosis of SFTS ?**
 ○Hiroki Kawabata¹, Kozue Sato¹, Yumi Kumagai¹, Shuetsu Fukushi¹, Masayuki Shimojima¹, Masayuki Saijo¹, Kimiaki Yamano², Makoto Ohnishi¹ (National Institute of Infectious Diseases¹, Hokkaido Institute of Public Health²)

10:00 **(Break)**

- 10:10 **B207 Inference of the infection time from the situation of pathogens in ticks**
 ○Y. Yano (Faculty of Medical Sciences, University of Fukui)
- 10:20 **B208 Acinetobacter from body lice in homeless people**
 ○Toshinori Sasaki¹, Mayumi Kubota², Kazuto Itoh³, Takuya Yamagishi⁴, Maki Kawasaki³, Daisuke Jubishi³, Maki Hirao³, Haruhiko Isawa¹, Tomohide Adachi³, Kazunori Oishi⁴, Keigo Shibayama², Kyoko Sawabe¹ (¹Department of Medical Entomology, National Institute of Infectious Diseases, ²Department of Bacteriology II, ³Tokyo Saiseikai Central Hospital, National Institute of Infectious Diseases, ⁴Infectious Disease Surveillance Center, National Institute of Infectious Diseases)

Moderator: Kyoko Sawabe

- 10:30 **B209 What reason bring under control of the Japanese encephalitis in Japan?**
 ○Kamimura, K. (Marusan Pharma Biotech Co.)
- 10:40 **B210 Investigation of mosquito situation around the pigpen in Ishikawa prefecture, and JE virus distribution (2010-2016).**
 ○Manabu Murakami ¹, Yosaburo Oikawa ¹, Kiyoshi Kamimura ² (¹ Medical Zoology, Kanazawa Medical University, ² Marusan Pharma Biotech Corporation)

10:50 B211 Sero-surveillance of Japanese encephalitis and Getah viruses infection in Wild boar in Japan

○Kuwata R¹, Shimoda H¹, Sugiyama H¹, Phichitrasilp T², Nuansri N², Khomkrajang S², Srinivat T², Buadok W², Prasertsincharoen N², Jittapalapong S², Rerkamnuaychoke W², Maeda K¹ (¹Yamaguchi University, ²Kasetsart University)

Moderator: Ryusei Kuwata

11:00 B212 Vector competence of *Culex tritaeniorhynchus* for Akabane virus

○Tohru Yanase, Tomoko Kato, Hiroataka Horiwaki, Hiroaki Shirafuji, Shogo Tanaka (National Institute of Animal Health, NARO)

11:10 (Break)

11:20 B213 Analysis of viruses isolated from *Aedes* mosquitoes in Vietnam

○Katsunori Murota^{1,2}, Daisuke Kobayashi^{2,3}, Ryosuke Fujita^{1,2}, Kentaro Itokawa^{1,2}, Yoshihide Maekawa¹, Shinji Kasai¹, Takashi Tsunoda⁴, Noboru Minakawa⁴, Tran Chi Cuong⁵, Tran Vu Phong⁵, Nguyen Thi Yen⁵, Vu Sinh Nam⁵, Haruhiko Isawa¹, Kyoko Sawabe¹ (¹Department of Medical Entomology, National Institute of Infectious Diseases, ²Japan Agency for Medical Research and Development (AMED), ³Department of Environmental Parasitology, Tokyo Medical and Dental University, ⁴Institute of Tropical Medicine, Nagasaki University, ⁵National Institute of Hygiene and Epidemiology, Vietnam)

11:30 B214 Entomological surveillance and analysis of arbovirus infections in Ghana in 2016

○Daisuke Kobayashi^{1,2,3}, Shohei Kimura¹, Haruhiko Isawa², Kentaro Itokawa^{2,4}, Katsunori Murota^{2,4}, Ryosuke Fujita^{2,4}, Nana Antwi⁵, Deborah Pratt⁵, Esinam Agbosu⁵, Mitsuko Ohashi¹, Kofi Bonney⁵, Samuel Dadzie⁵, Kyoko Sawabe², Nobuo Ohta¹ (¹Department of Environmental Parasitology, Tokyo Medical and Dental University, ²Department of Medical Entomology, National Institute of Infectious Diseases, ³JSPS Research Fellow DC1, ⁴AMED, ⁵NMIMR, University of Ghana)

Moderator: Masahiro Takagi

11:40 B215 Study of mosquito larval behavior for teaching materials of science I. behavior and life history trait

○Shin-ya Ohba and Mitsuru Noine (Faculty of Education, Nagasaki University)

11:50 B216 Study of mosquito larval behavior for teaching materials of science II. Establishment of simple observation method for students

○Shin-ya Ohba and Mitsuru Noine (Faculty of Education, Nagasaki University)

12:00 B217 Activities for mosquito-borne diseases education: report on “World Mosquito Day: let’s learn about mosquito and mosquito-borne diseases”

○IMANISHI Nozomi^{1,2}, MORIYASU Taeko^{1,2}, SHIMADA Satoshi^{1,2}, FUJIOKA Atsushi^{1,2}, YOSHIHARA Keisuke^{1,2}, KEGAWA Yuto^{1,2}, ISHIZAKI Takahiro^{1,2}, BABA Yukiko^{1,4}, SUNAHARA Toshihiko^{1,3}, ICHIMORI Kazuyo^{1,4} (¹ Executive Committee of World Mosquito Day, Nagasaki Univ. ² Biomedical Sciences, Nagasaki Univ., ³NEKKEN, Nagasaki Univ. ⁴ LF-NTD, Nagasaki Univ.)