

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 Thaung², 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

Room A

April 16 (Sun)

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)

Room A

April 16 (Sun)

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 (¹Institute of Tropical Medicine (NEKKEN), Nagasaki University · ²Health & 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, ²Rakuno 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)

Room A

April 16 (Sun)

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 Ooishi⁵
(¹Japan Environmental Sanitation Center, ²National Institute of Infectious Diseases, ³University of Hyogo, ⁴Hyogo Prefecture, ⁵Toyooka City)

13:30 Open Session: How to treat common medically important animals

Moderator: Hitoshi Kawada

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)

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 Kajiware (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)

Room B

April 16 (Sun)

9:50 B206 Emerging relapsing fever : Is important as the differential diagnosis of SFTS ?

○Hiroki Kawabata¹, Kozue Sato¹, Yumi Kumagai¹, Shuetsu Fukushima¹, 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, ² Department of Bacteriology II, ³ Tokyo Saiseikai Central Hospital, National Institute of Infectious Diseases, ⁴ Infectious 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 Murakami¹, Yosaburo Oikawa¹, Kiyoshi Kamimura² (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

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○Kuwata R¹, Shimoda H¹, Sugiyama H¹, Phichitrasilp T²,
Nuansri N², Khomkrajang S², Srinivat T², Buadok W²,
Prasertsinchaoen 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, Hirotaka 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

Room B

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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., 3 NEKKEN, Nagasaki Univ. 4 LF-NTD, Nagasaki Univ.)