

US–Japan Cooperative Medical Sciences Program
Parasitic Diseases Panel Meeting (PDP)
Tentative Agenda

Day 1

10:30 – 10:40

Opening Remarks

Shigeyuki Kano / Shinjiro Hamano / Malla Rao

Session 1: Molecular Mechanisms of Protozoan Parasites

Chair: Sebastian Lourido / Eizo Takashima

Rapporteur: Jean Popovici / Mai Nakashima

10:40 – 11:00

Sebastian Lourido (MIT)

Scalable methods to uncover the molecular interactions that drive infection

11:00 – 11:20

Nishith Gupta (BITS Hyderabad)

Molecular basis of parasitism in the most successful zoonotic pathogen, *Toxoplasma gondii*

11:20 – 11:40

Fumi Murakoshi (Tokyo University of Agriculture and Technology, Japan)

Impact of leishmania RNA virus on parasite pathogenicity

11:40 – 12:00

Mai Nakashima (JIHS, Japan)

Heterochromatin regulates sexual development in human malaria parasite

12:00 – 12:20

Junpei Fukumoto (Ehime University, Japan)

Ultrastructure expansion microscopy (U-ExM) enables high-resolution protein localization across the *Plasmodium vivax* life cycle

12:20 – 13:30

Lunch Break

Session 2: Vaccine Immunology and Leishmaniasis Translational Research

Chair: Chiju Sanjoba / Abhay Satoskar

Rapporteur: Sebastian Lourido / Shara Bakytbek

13:30 – 13:50

Abhay Satoskar (Ohio State University)

Development of a vaccine for leishmaniasis: Folk medicine to clinic

13:50 – 14:10

Hermali DeSilva

Leishmaniasis in Sri Lanka: Insights from a predominantly dermatropic, *Leishmania donovani* prominent setting

14:10 – 14:30

Chiju Sanjoba (The University of Tokyo, Japan)

Integrated control strategy of leishmaniasis in Turkey

14:30 – 14:50

Shin-ichi Inouec (Nagasaki University, Japan)

An observational study to test the potency of GLP-grade phenol-free lyophilized leishmanin antigen formulation

14:50 – 15:00

Break

Session 3: Diagnostics and Surveillance Strategies

Chair: Shinjiro Hamano / Nishith Gupta

Rapporteur: Sitara Rao / Rattanaporn Rojrung

15:00 – 15:20

Cindy Chu (Oxford University)

8-aminoquinolines for *Plasmodium vivax* radical cure: understanding the past to go forward

15:20 – 15:40

Shara Bakytbek (The University of Tokyo, Japan)

T-Cell immunogenicity of AI-predicted malaria vaccine elements assessed by IFN- γ enzyme-linked immunospot assay

15:40 – 16:00

Rattanaporn Rojrung (Ehime University, Japan)

Multiplex immunoassay-based detection of *Plasmodium* lactate dehydrogenase

16:00 – 16:20

Eizo Takashima (Ehime University, Japan)

Genome-wide malaria serological profiling of Burkina Faso samples

16:20 – 16:40

Shigeyuki Kano (JIHS, Japan)

Find and treat LDPC: Reactive LAMP surveillance for the last mile of malaria elimination in Palawan

16:40 – 17:00

General Discussion

Day 2

Session 4: Environmental Surveillance, Vector Biology and Transmission Ecology

Chair: Noboru Inoue / Sitara Rao

Rapporteur: Nantha Kumar Jeyaprakasam / Keisuke Suganuma

10:30 – 10:50

Sitara Rao (Christian Medical College)

Environmental and wastewater surveillance strategies to evaluate MDA impact on STH in endemic communities

10:50 – 11:10

Jetsumon Prachumsri (Mahidol University)

P. knowlesi reported cases and vector surveillance from Thailand

11:10 – 11:30

Nantha Kumar Jeyaprakasam (Universiti Kebangsaan Malaysia)

Anthropogenic land-use change and its influence on *Anopheles* mosquito bionomics in zoonotic malaria transmission

11:30 – 11:50

Kanako Minagawa (The University of Tokyo, Japan)

Symbiotic bacteria in sand flies, vectors of leishmaniasis

11:50 – 12:10

Keisuke Suganuma (Obihiro University of Agriculture and Veterinary Medicine, Japan)

Ecology of horse flies in agricultural area, Hokkaido, Japan

12:10 – 12:30

Jean Popovici (Institut Pasteur, Cambodia)

MaRNAV-1 infection of *Plasmodium vivax* malaria parasite: impact on parasite transmission and clinical presentation

12:30 – 13:30

Lunch Break

Session 5: Control Strategies and One Health

Chair: Malla Rao / Naotoshi Tsuji

Rapporteur: Hermali DeSilva / Noboru Inoue

13:30 – 13:50

Kofi Dadzie Kwofie (Kitasato University School of Medicine, Japan)

Exploring stage-targeted strategies against *Schistosoma mansoni* using Ōmura-derived redox-active naphthoquinones

13:50 – 14:10

Sithar Dorjee (Khesar Gyalpo University of Medical Sciences of Bhutan)

The one health imperative: Preventing and controlling parasitic zoonoses – Insights from leishmaniasis in Bhutan

14:10 – 14:30

Noboru Inoue (Obihiro University of Agriculture and Veterinary Medicine, Japan)

Dourine control in Mongolia

14:30 – 14:50

Naotoshi Tsuji (Kitasato University School of Medicine, Japan)

Development of a co-creation-based schistosomiasis control package in Ghana

14:50 – 15:00

Break

15:00 – 16:00

Final Panel Discussion

Chair: Shinjiro Hamano / Shigeyuki Kano / Malla Rao

Future directions for integrated control of parasitic diseases