

**U.S.-Japan Cooperative Medical Sciences Program (USJCMSP)
22nd International Conference on Emerging Infectious Diseases in the Pacific Rim**

**February 24-27, 2020
Venue: Faculty of Medicine, Chulalongkorn University
Bangkok, Thailand**

MEETING DESCRIPTION

The focus of this conference is on viral diseases of importance in the Asia-Pacific region. The objectives of this conference are to share current research findings and foster existing and potential international research collaborations that engage investigators and institutions in the Asia-Pacific region and the United States.

If you will be using Twitter or Instagram, please use the hashtag #CMSPEID

Sunday, 23 February 2020

15:00-17:00 Pre-Registration and Speaker Check-in

Monday, 24 February 2020

Location: Yachai Na Songkhla Hall, Fl. 25, The Faculty @ MDCU Building

7:30-8:30 Registration

8:30-9:10 **WELCOME REMARKS**

Master of Ceremony:

Gray Handley, Associate Director for International Research Affairs, National Institute of Allergy and Infectious Diseases (NIAID), U.S.A.

To be determined, Rep(s) from Thailand Ministry of Public Health and/or Chulalongkorn University

To be determined, Representative from Embassy of Japan in Thailand

To be determined, Representative from Embassy of the U.S.A. in Thailand

Ichiro Kurane, Former Director-General, National Institute of Infectious Diseases (NIID), Japan / Japanese Delegation Chair, USJCMSP

Diane E. Griffin, University Distinguished Service Professor, Johns Hopkins Bloomberg School of Public Health, U.S.A. / U.S. Delegation Chair, USJCMSP

9:10-9:40 **Shimao-Takeda Lectureship**
Introduced by Ichiro Kurane, Japan
Usa Thisyakorn, Chulalongkorn University, Thailand

9:40-10:10 **La Montagne-Heilman Lectureship**
Introduced by Gray Handley, NIAID, U.S.A.
Erica Ollmann Sapphire, La Jolla Institute for Immunology, U.S.A.

10:10-10:30 Coffee/Tea Break

Overall EID theme: Pathogenesis, Prevention, and Treatment of Viral Diseases

SESSION 1: New approaches to vaccine development and clinical trials

Moderators: Florian Krammer, Icahn School of Medicine at Mount Sinai, U.S.A. and Ken Ishii, The University of Tokyo, Japan

Rapporteurs: Kristina T. Lu, NIAID, U.S.A. and Takuya Yamamoto, National Institutes of Biomedical Innovation, Health, and Nutrition, Japan

10:30-10:50 Influenza vaccine trials; Universal flu vaccine
Florian Krammer, Icahn School of Medicine at Mount Sinai, U.S.A.

10:50-10:55 Q&A

10:55-11:15 SFTSV vaccines
Jae Jung, University of Southern California, U.S.A

11:15-11:20 Q&A

11:20-11:40 Dengue vaccine trials
Terapong Tantawichien, Chulalongkorn University, Thailand

11:40-11:45 Q&A

11:45-12:50 LUNCH BREAK AND POSTER SESSION

12:50-13:10 HIV vaccine trial in Thailand
Nelson L. Michael, Center for Infectious Diseases Research, Walter Reed Army Institute of Research, U.S.A.

13:10-13:15 Q&A

13:15-13:35 Viral Diseases Topic - anti-saliva vaccine
Jessica Manning, NIAID, U.S.A.

13:35-13:40 Q&A

13:40-14:00 Broadly protective antibodies and vaccines
Yoshimasa Takahashi, NIID, Japan

14:00-14:05 Q&A

14:05-14:25 CoV – therapeutic targets for vaccine design
Susan Baker, Loyola University, U.S.A.

14:25-14:30 Q&A

SESSION 2: New diagnostics and therapeutic trials (including antivirals)

Moderators: Tetsuro Matano, The University of Tokyo, Japan and Name, Institution, Country
Rapporteurs: Stacy Ferguson, NIAID, U.S.A. and Wei Li, Toho University, Japan

- 14:30-14:50 Antivirals against HIV infection
Kiat Ruxrungtham, Chulalongkorn University, Thailand
- 14:50-14:55 Q&A
- 14:55-15:15 HBV therapy clinical trials in Asia and Europe
Sheikh Mohammad Fazle Akbar, Ehime University, Japan
- 15:15-15:20 Q&A
- 15:20-15:35 Coffee/tea Break
- 15:35-15:55 Containment of MERS - CoV : Thailand experience
Tanarak Pliapat, Department of Diseases Control, Ministry of Public Health, Thailand
- 15:55-16:00 Q&A
- 16:00-16:20 CRISPR based sensitive differential diagnostics
James Broughton, Mammoth Biosciences, U.S.A.
- 16:20-16:25 Q&A
- 16:25-16:45 Therapeutic targeting of fucosyltransferase-2 for human norovirus infection
Kazuhiko Katayama, Kitasato University, Japan
- 16:45-16:50 Q&A

FLASH TALK SESSION: 2019 USJCMSP Collaborative Awards (5 min. presentation and 2 min. Q&A each)

- 16:50-17:00 Presentations from Recipients of 2019 USJCMSP Collaborative Awards
Introduced by Yasuko Yokota, AMED, Japan
Moderator: Name, Institution, Country
Rapporteur: Marissa Tan, Johns Hopkins University/NIAID, U.S.A.
- 17:00-17:07 Gnidimacrin and its derivatives against HIV-1 latency
Li Huang, Duke University, U.S.A.
Wei Li, Toho University, Japan
- 17:08 -17:15 High-throughput analysis of human memory B cells and antibodies against flavivirus E protein in Asia-Pacific regions
Yoshimasa Takahashi, National Institute of Infectious Diseases, Japan
Rebecca Sadun, Duke University, U.S.A.
Ganajan Lertmemongkolchai, Khon Kaen University, Thailand

- 17:16-17:23 Investigation of immunologic factors associated with differential disease outcomes in Zika virus infection, Vietnam
Meng Ling Moi, Nagasaki University, Japan
Mai Thi Quynh Le, National Institute of Hygiene and Epidemiology, Vietnam
- 17:24-17:31 Molecular biological analysis of hantavirus relating to chronic kidney disease by unknown etiology (CKDu) in Sri Lanka
Kumiko Yoshimatsu-Morimatsu, Hokkaido University, Japan
- 17:32-17:39 Evaluating broadly neutralizing antibodies for targeted ADCC cure strategies in the Asia Pacific region
Takuya Yamamoto, National Institutes of Biomedical Innovation, Health, and Nutrition, Japan
- 17:40-17:47 Intrahepatic persistence of hepatitis A virus post viremia and fecal shedding
Asuka Hirai-Yuki, National Institute of Infectious Diseases, Japan
David McGivern, University of North Carolina Chapel Hill
- 17:48-17:55 Identification of host factors that support replication of hepatitis B virus for development of novel therapy
Hiromi Chayama, Hiroshima University, Japan
- 17:55-18:00 Announcements
- 18:15-21:30 Evening Session: Discussions toward future research collaboration (US, Thai and Japan)@Crown Plaza

Tuesday, 25 February 2020

Location: Yachai Na Songkhla Hall, Fl. 25, The Faculty @ MDCU building

SESSION 3: Transmission and pathogenesis of viral infections (including vector and neurological complications)

Moderators: Jurai Wongsawat, MoPH, Thailand and Akira Nishizono, Oita University, Japan

Rapporteurs: Rajen Koshy and Eun-Chung Park, NIAID, U.S.A. and Meng Ling Moi, Nagasaki University and Kumiko Yoshimatsu Hokkaido University, Japan

- 8:00-8:20 HIV transmission
Tom Hope, Northwestern University, U.S.A.
- 8:20-8:25 Q&A
- 8:25-8:45 Influenza transmission and surveillance in Indonesia (H5N1)
Vivi Setiawaty, National Institute of Health Research and Development, Ministry of Health, Indonesia
- 8:45-8:50 Q&A
- 8:50-9:10 Hepatitis C Virus (novel rodent models of HCV infection, specifically on mechanisms of immunity and viral persistence in mouse and rat models)
Amit Kapoor, Nationwide Children's, U.S.A.
- 9:10-9:15 Q&A

- 9:15-9:35 Hepatitis E Virus pathogenesis and neurologic complications (GBS)
Chris Walker, Nationwide Children's, U.S.A.
- 9:35-9:40 Q&A
- 9:40-10:00 Coffee/Tea Break
- 10:00-10:20 Emerging CoV and the Wuhan outbreak
Linfa Wang, Duke-NUS, Singapore
- 10:20-10:25 Q&A
- 10:25-10:45 Zika virus transmission in mosquitos
Padet Siriyasatien, Chulalongkorn University, Thailand
- 10:45-10:50 Q&A
- 10:50-11:10 Rabies neuropathogenesis
Thiravat Hemachudha, Chulalongkorn University, Thailand
- 11:10-11:15 Q&A
- 11:15-11:35 Unexpected failure of an HCV vaccine in a phase II clinical trial
Andrea Cox, Johns Hopkins University, U.S.A.
- 11:35-11:40 Q&A
- 11:40-12:45 Lunch Break and Poster Session
- SESSION 4: Biology, Natural History and Prevention of Oncogenic Infections and their Associated Cancers**
Moderators: Tohru Kiyono, National Cancer Center, Japan and Name, Institution, Country
Rapporteurs: Marie Ricciardone, National Cancer Institute, U.S.A. and Hiromi Chayama, Hiroshima University, Japan
- 12:45-13:05 Biological Underpinnings of Human Papillomavirus Virus-Like Particle Vaccines
John Schiller, National Cancer Institute, U.S.A.
- 13:05-13:10 Q&A
- 13:10-13:30 Population Level Impact of HPV Vaccination in Australia
Julia Brotherton, VCS Foundation, Australia
- 13:30-13:35 Q&A
- 13:35-13:55 EBV-based screening combined with improved disease detection methods to reduce NPC burden in high-risk populations
Ann D. King, Chinese University of Hong Kong, China
- 13:55-14:00 Q&A

14:00-14:20 The Promise of EBV-based Interventions to Reduce Nasopharyngeal Carcinoma (NPC) Morbidity and Mortality in NPC High-Risk Populations
Allan Hildesheim, National Cancer Institute, U.S.A.

14:20-14:25 Q&A

14:25-14:45 HCC development after SVR in DAA treated CHC patients
Masayuki Kurosaki, Musashino Red Cross Hospital, Japan

14:45-14:50 Q&A

14:50-15:10 HTLV-1
Toshiki Watanabe, University of Tokyo, Japan

15:10-15:15 Q&A

15:15-15:35 Coffee/Tea Break

SESSION 5: Microbiome, virome, and viral pathogenesis

Moderators: Takaji Wakita, NIID, Japan and Name, Institution, Country

Rapporteurs: David McDonald, NIAID, U.S.A. and Asuka Hirai-Yuki, NIID, Japan

15:35-15:55 Host Genetic Determinants of the Vaginal Microbiome and Bacterial Vaginosis in Kenyan Women
Supriya D. Mehta, University of Illinois at Chicago School of Public Health, U.S.A.

15:55-16:00 Q&A

16:00-16:20 Impact of Microbiome in Liver Fibrosis mouse model
Masaya Sugiyama, National Center for Global Health and Medicine, Japan

16:20-16:25 Q&A

16:25-16:45 Chikungunya microbiome
Kenneth Stapleford, New York University, U.S.A.

16:45-16:50 Q&A

16:50-17:10 Defective Viral Genomes as Drivers of Cell Fate During RSV pathogenesis
Carolina Lopez, University of Pennsylvania, U.S.A.

17:10-17:15 Q&A

17:15-17:30 CLOSING REMARKS

Aikichi Iwamoto, Managing Director, Department of Research Promotion, AMED / Former Japanese Delegation Chair, USJCMSP

Name, Institution, Thailand

Name, Institution, U.S.A.

17:30-17:35 Acknowledgement of Appreciation/Adjournment

Wednesday, 26 February 2020

Location: Aor Por Ror Building

Concurrent USJCMSP Panel/Board Meetings

8:00-17:00 Acute Viral Respiratory Infections Panel Meeting
Room D at Fl. M

8:00-17:00 AIDS Panel Meeting
Room C at Fl. 3

8:00-17:00 Cancer Panel Meeting
Room E at Fl. 6

8:00-17:00 Joint Hepatitis Panel and Immunology Board Meeting
Room B at Fl. 3

8:00-17:00 Viral Diseases Panel Meeting
Room A at Fl. 3

Thursday, 27 February 2020

Location: Aor Por Ror Building

Concurrent USJCMSP Panel/Board Meetings

8:00-12:00 Acute Viral Respiratory Infections Panel Meeting
Room D at Fl. M

8:00-17:00 AIDS Panel Meeting
Room C at Fl. 3

8:00-12:00 Cancer Panel Meeting
Room E at Fl. 6

8:00-17:00 Hepatitis Panel Meeting
Room B at Fl. 3

8:00-12:00 Immunology Board Meeting
Room F at Fl. 4, Library building

8:00-17:00 Viral Diseases Panel Meeting
Room A at Fl. 3

9:00-12:00 Joint Committee Meeting (CLOSED SESSION)
Location: The Faculty @ MDCU – Fl. 7A Room 7/4

14:00-18:00 Optional Site Tour – Bamrasnaradura Infectious Disease Institute (BIDI), Nonthaburi
[Limited to 30 participants]