

U.S.-Japan Cooperative Medical Sciences Program (USJCMSP)
19th International Conference on Emerging Infectious Diseases (EID) in the Pacific Rim

February 7-8, 2017
Venue: Novotel Ambassador Seoul Gangnam
130 Bongeunsa ro
Gangnam gu
Seoul, Republic of Korea

MEETING DESCRIPTION

The focus of this conference is on antimicrobial resistance (AMR) of bacterial and parasitic 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.

Tuesday, 7 February 2017

7:30-8:30 Registration

WELCOMING REMARKS

8:30-9:00 Japanese Embassy
 U.S. Embassy - Marc Knapper, Charge de Affairs
 KCDC/Ministry of Health and Welfare
 International Vaccine Institute (IVI)
 Korean Society for Microbiology
 USJCMSP Chairs

9:00-9:10 Break

SHIMAO-TAKEDA LECTURESHIP

Introduced by Aikichi Iwamoto, Agency for Medical Research and Development (AMED), Japan

9:10-9:40 **Masakatsu Shibasaki**, Institute of Microbial Chemistry, Japan

9:40-9:50 Announcement of USJCMSP 2016 Collaborative Awards

9:50-10:00 Break

SESSION 1 Overview of Antimicrobial Resistance

Moderators: **Name**, *Institution, Country (TBD)* **Name**, *Institution, Country (TBD)*

Rapporteurs: **William Petri**, *University of Virginia School of Medicine, U.S.A.*
 Name, *Institution, Japan*

10:00-11:00 Panel Discussion (10 min. talks, followed by discussion)

Topic: U.S. National Action Plan for Combating Antibiotic Resistant Bacteria
Dennis Dixon, *National Institute of Allergy and Infectious Diseases (NIAID), U.S.A.*

Overview of AMR in Japan
Kazuhiro Tateda, *Toho University, Japan*

Overview of AMR in Korea
Seok Hoon Jeong, *Department of Laboratory Medicine and Research Institute of Bacterial Resistance, Yonsei University College of Medicine, Korea*

Time for Discussion (30 min.)

11:00-12:00 Lunch Break and Poster Viewing

SESSION 2		Molecular Epidemiology of Antimicrobial Resistance	
Moderators:	Name, Institution, Country (TBD)	Name, Institution, Country (TBD)	
Rapporteurs:	Robert Hall, NIAID, U.S.A.	Name, Institution, Japan	
12:00-12:20	The Global Spread of Fluoroquinolone Resistant <i>Shigella sonnei</i> Hao Chung The, Oxford University Clinical Research Unit, Vietnam		
12:20-12:40	The reemergence of schistosomiasis in Sichuan, China despite treatment and control: integrating next-generation genomics and field epidemiology Elizabeth Carlton, University of Colorado, Denver, U.S.A.		
12:40-13:00	Genetic approaches to cryptosporidiosis a leading cause of global child mortality Boris Striepen, University of Georgia, Athens, U.S.A.		
13:00-13:20	Molecular and phenotypic surveys for multidrug-resistant tuberculosis in South East Asia Yasuhiko Suzuki, Hokkaido University Research Center for Zoonosis Control, Japan		
13:20-13:40	Topic: NGS technology for molecular typing and DST of M. tuberculosis Jong Seok Lee, International Tuberculosis Research Center, Korea		
13:40- 14:00	Global Epidemiology of AMR in Bacteria Yohei Doi, University of Pittsburg, Japan and U.S.A.		
14:00-14:20	Discussion		
14:20-14:30	Break		
SESSION 3		Genomics and Mechanisms of Antimicrobial Resistance	
Moderators:	Tim Murphy, State University of New York (SUNY) at Buffalo, U.S.A.		
	Name, Institution, Country		
Rapporteurs:	Tim Murphy, SUNY, U.S.A.	Name, Institution, Japan	
14:30-14:50	Mobile genetic elements in the spread of resistance: overview and current work on the mobile element behind the MRSA epidemic Phoebe Rice, University of Chicago, U.S.A.		
14:50-15:10	Topic: Consequences of Drug Resistant Mutations on the Whole Genome and Physiology (Fitness) Yonathan Grad, Harvard School of Public Health, U.S.A.		
15:10-15:30	Reactive Oxygen Species Play an Important Role in the Bactericidal Activity of Quinolone Antibiotics Deepak Nair, Regional Centre for Biotechnology in Faridabad, India		
15:30-15:50	Phenotypic variations of <i>L. donovani</i> in Sri Lanka: Threat of antimony resistance? Nadira Karunaweera, University of Colombo, Sri Lanka		
15:50-16:10	Topic: New PK/PD Strategies to Combat Resistance Brian Tsuji, University at Buffalo, U.S.A.		
16:10 – 16:30	Discussion		

Wednesday, 8 February 2017

8:00-8:30 Registration

LAMONTAGNE-HEILMAN LECTURESHIP

Introduced by Gray Handley, National Institute of Allergy and Infectious Diseases (NIAID), U.S.A.

8:30-9:00 **John Mekalanos**, Harvard Medical School, U.S.A.

SESSION 4 New Developments in Recognition and Technologies for Prevention, Diagnosis and Treatment of AMR – short talks (20 min each)

Moderators: *Name, Institution, Country (TBD)* *Name, Institution, Country (TBD)*

Rapporteurs: *Alison Kraigsley, NIAID, U.S.A.* *Name, Institution, Japan*

9:00-9:20 Efficacy of topical single radio frequency induced heat therapy (RFHT) in treatment of old world SSG-responsive and SSG-refractory CL caused by *L. tropica*
Abhay Satoskar, Ohio State University, U.S.A.

9:20-9:40 Topic: Diagnostic technology
Brigitte Dacosta, bioMérieux, France

9:40-10:00 Topic: GeneXpert MTB/RIF and other genetic based tools for surveys of AMR in bacterial infections
Linda Xie, National Institute of Allergy and Infectious Diseases, U.S.A.

10:00-10:20 Topic: Colistin resistance and mcr-1
Yang Wang, China Agricultural University, China

10:20-10:40 Topic: GHIT-Sponsored US-Japan Program and Other Global TB Alliance Programs to Develop New TB Drugs
Takushi Kaneko, TB Alliance, U.S.A.

10:40-11:00 The microbiome as a tool to prevent transmission and infection due to antimicrobial resistant bacterial pathogens
Melinda Mary Pettigrew, Yale University, U.S.A.

11:00 -11:20 Discussion

11:20-11:30 Break

SESSION 5 Malaria Elimination and AMR

Moderators: *Shigeyuki Kano, National Center for Global Health and Medicine, Japan*

Malla Rao, NIAID, U.S.A

Rapporteurs: *Nadira Karunaweera, University of Colombo, Sri Lanka*

James Kazura, Case Western Reserve University, U.S.A

11:30-12:00 Mass drug administration to eliminate malaria on islands
Akira Kaneko, NIID, Japan

12:0-12:30 Genomics and drug resistance mechanisms in *Plasmodium falciparum* population along the China-Myanmar border
Liwang Cui, Penn State University, U.S.A.

12:30-13:30 Lunch Break and Poster Viewing

13:30-14:00 Artemisinin and drug partner resistance: from phenotype to genotype
Didier Menard, Institut Pasteur in Cambodia, Cambodia

14:00-14:30 Topic: *P. vivax* strains now invading Duffy Negative red cells. Potential threat to malaria elimination.

Guiyun Yan, *University of California, Irvine, U.S.A.*

SESSION 6 Cancer, Infectious Agents, and Antibiotic Resistance

Moderators: **Tohru Kiyono**, *National Cancer Center Research Institute, Japan*
Ted Trimble, *National Cancer Institute, U.S.A.*

Rapporteurs: **Marie Ricciardone**, *National Cancer Institute, U.S.A.* **Name**, *Institution, Japan*

14:30-15:00 Topic: *Helicobacter pylori* and gastric cancer
Masanori Hatakeyama, *University of Tokyo, Japan*

15:00-15:10 Break

15:10-15:40 Topic: *H. pylori* and gastric cancer
Il Ju Choi, *National Cancer Center, Korea*

15:40-16:10 Topic: Microbiome in Gastrointestinal Cancer and AMR
Christian Abnet, *National Cancer Institute, U.S.A.*

16:10-16:40 Topic: Liver flukes and bile duct cancer
Sopit Wongkham, *Khon Kaen University, Thailand*

CLOSING REMARKS

16:40-17:00 **USJCMSP Chairs**