

# The U.S.-Japan Cooperative Medical Sciences Program

## Cholera and Other Bacterial Enteric Infections Agenda

February 9-10, 2017


Novotel Ambassador Seoul Gangnam Hotel

THURSDAY 2/9/2017 Morning		US-Japan Joint Panel Conference on Cholera and Other Bacterial Enteric Infections	
Cholera Epidemiology			
08:00 --REGISTRATION			
08:30			
1	08:30 – 08:50	John Mekalanos	The role of Type VI secretion in antagonistic interactions between different bacterial species in the small Intestine
2	08:50 – 09:10	Ahmad Yaman Kayali	Oxidation of microbial D-amino acids provides mucosal defense and shapes the intestinal microbiota
3	09:10 – 09:30	Minmin Yen	Impact of virulent bacteriophages on Vibrio cholerae infection and their use in preventing cholera
4	09:30 – 09:50	Sirajul Islam	Interepidemic reservoir, endemicity and seasonality of cholera in Bangladesh
5	09:50 – 10:10	Daryl Domman	High resolution genomic view of cholera within Dhaka city
6	10:10 -- 10:30	Christine Marie George	Genetic relatedness of Vibrio cholerae isolates during outbreaks in Dhaka, Bangladesh
10:30 – 11:00		Coffee Break	COFFEE BREAK
7	11:00 – 11:20	Glenn Morris	Molecular Epidemiology of toxigenic V. cholerae O1 in Haiti: Strain movement between clinical and environmental sources
8	11:20 -- 11:40	Mouhaman Arabi	A spatial analysis of cholera risk in a sahelian urban environment, Case of Maroua, Cameroon
9	11:40 – 12:00	Tetsu Yamashiro	Community based cohort study on diarrheal diseases in an agricultural village in northern Vietnam
10	12:00 – 12:20	Mohammad Ali	Identification of hotspots and risk factors for cholera in India
12:20 -- 13:20		Lunch	LUNCH

THURSDAY 2/9/2017 Afternoon		US-Japan Joint Panel Conference on Cholera and Other Bacterial Enteric Infections	
11	13:20 – 13:40	Shota Nakamura	Type IV pilus structure and assembly of human enterotoxigenic Escherichia coli
12	13:40 – 14:00	Weiping Zhang	MEFA (multiepitope fusion antigen), a novel structure-based design for developing broadly protective vaccines against enterotoxigenic Escherichia coli (ETEC)
13	14:00 – 14:20	Subhra Chakraborty	Impact of host factors in predicting clinical diarrhea outcome after infection with enterotoxigenic E. coli in humans
14	14:20 – 14:40	Hoang Hoai Phuong	Effect of orally administered Cefoperazone (CFP) on intestinal colonization of ESBL-producing Escherichia coli in mice
15	14:40 -- 15:00	Sho Hatayama	The relation of cellular tight junctions formation and Campylobacter jejuni invasion in intestinal epithelial cells
15:00– 15:30 Coffee break			
COFFEE BREAK			
16	15:30 – 15:50	Neelam Taneja	Evolution of Antimicrobial Resistance in Shigella since the Turn of 21st Century, India
17	15:50 – 16:10	Tadashi Shimamoto	Updates of the IMS (immunomagnetic separation)– LAMP (loop-mediated isothermal amplification)–based detection method for enterohaemorrhagic Escherichia coli belonging to 15 O serotypes
18	16:10 – 16:30	Hermanta Koley	Heat-killed multi serotype Shigella immunogens induce Th1 and Th17 cell mediated adaptive immune responses in mice model
19	16:30 -- 16:50	Kimitoshi Ichimura	Nitric oxide-enhanced Shiga toxin production was regulated by Fur and RecA in enterohemorrhagic Escherichia coli O157
20	16:50 -- 17:10	Asish Mukhopadhyah	Pathogenic modulation in El Tor vibrios: evidence from recent Indian strains harbouring Haitian traits
21	17:10 -- 17:30	Eiki Yamasaki	Quantitative detection of Shiga toxins directly from stool specimens of patients associated with an outbreak of Enterohemorrhagic Escherichia coli in Japan
17:30 Adjourn			

FRIDAY 2/10/2017 Conference on Morning Other Bacterial Enteric Infections			US-Japan Joint Panel Cholera and	
22	08:30 -- 08:55	Sharda Prasad Awasthi	Express	ion level of cholix toxin varies among Vibrio cholerae strains
23	08:55 -- 09:20	Stefan Karlsson	Transcr Inaba d	iptome analysis shows differences between isogenic Ogawa and erivatives of O1 Vibrio cholerae
24	09:20 -- 09:45	Hassan Jayedul	Isolatio Provide	n and characterization of cytolethal distending toxin-producing ncia rustigianii from a diarrheal child in Japan
25	09:45 -- 10:10	Shah Faruque	Emerging	diversity of the CRISPR/Cas system in cholera phages
26	10:10 -- 10:35	Matthew Dorman	CRISPR/C cholera	as systems are not detectable in El Tor lineages of Vibrio e
10:30 -- 11:00 Coffee break			COFFEE	
27	11:00 -- 11:20 Bhuiyan	Md Taufiqur Rahman	Single cell	analysis of the plasmablast response to Vibrio cholerae demonstrates expansion of cross-reactive memory B cells
28	11:20 -- 11:40	Richelle Charles		The plasma and mucosal antibody response to the complete Vibrio cholerae O1 protein immunome and O-specific polysaccharide in adults with Inaba or Ogawa cholera in Bangladesh
29	11:40 -- 12:00	Richelle Charles	Plasma (OSP) a among	and memory B cell responses targeting O-specific polysaccharide re associated with protection against Vibrio cholerae O1 infection household contacts of cholera patients in Bangladesh
30	12:00 --12:20	Kamrul Islam	Immune	responses against O-specific polysaccharide (OSP) develop after vaccination with oral cholera vaccine CVD 103-HgR (Vaxchora) and these responses are associated with protection against experimental infection with Vibrio cholerae O1 El Tor Inaba in North American volunteers
31	12:20 -- 12:40	Allyson Nelson	Safety of a killed oral cholera vaccine (Shanchol) in pregnant women in Malawi: An observational cohort study	
12:40 -- 13:40 Lunch			LUNCH	

BREAK

FRIDAY 2/10/2017 Afternoon		US-Japan Joint Panel Conference on Cholera and Other Bacterial Enteric Infections	
32	13:40 14:00	--Raphael Fando	Oral cholera vaccine development in Cuba: advances and challenges
33	14:00 14:20	--Tarun Sharma	Development of affordable single strain oral cholera vaccine
34	14:20 14:40	--Firdausi Qadri	Oral cholera vaccine studies in Bangladesh and the way forward
35	14:40 15:00	--John Clemens	Evaluation of newer generation cholera vaccines: is a new paradigm needed?
36	15:00 15:20	--Moise C. Ngwa	Cultural influences behind cholera transmission in the Far North Region, Republic of Cameroon: a field experience and implications for operational level planning of interventions
15:40 16:10	--Coffee break		COFFEE BREAK
37	16:10 --16:30	Khalid Ali Syed	Study to evaluate safety, tolerability and immunogenicity of two formulations of inactivated (Hikojima serotype) novel Oral Cholera Vaccine, Hillchol.
38	16:30 16:50	--Daniel Leung	Dried blood spots: an alternate tool for the assessment of immune response to cholera infection and vaccine
39	16:50 17:10	--Wataru Yamazaki	Campylobacter prevalence in broiler flocks highly correlates with food poisoning frequency in Japan: assessment in broiler cecal and fecal samples by conventional culture and loopmediated isothermal amplification methods
40	17:10 17:30	--Sean Moore	El Niño and the shifting geography of cholera in Africa
41	17:30 17:50	--Hyonjin Jeon	Incidences in pre-school children in Africa: Results from the Typhoid Surveillance in Africa Program (TSAP) Typhoid and iNTS 
42	17:50 18:10	--Jong-Hoon Kim	The burden and distribution of typhoid fever in Africa
18:10 Adjourn			
Final Words and Adjournment			