

# International Joint Forum on Infectious Diseases

Date: September 16 (Wed) & 17 (Thu), 2009

Venue: Siam City Hotel, Bangkok, Thailand

## PROGRAM

### Sept. 15 (Tue)

17:00-19:00 Registration

19:00-21:00 Welcome Reception

### Sept. 16 (Wed)

8:30-18:30 Registration

9:30-9:40 Opening Remarks

**Manit Teeratantikanont**, *Director General, Department of Medical Sciences, Thailand*

**Hitoshi Kikutani**, *Director, Research Institute for Microbial Diseases, Osaka University, Japan*

9:40-10:00 Introduction

Chair: Tetsuya Iida, *Research Institute for Microbial Diseases, Osaka University, Japan*

**Yoshiyuki Nagai**, *Director, Center of Research Network for Infectious Diseases, RIKEN, Japan*

**An introduction: Preliminary experiment of Japan conducted over these five years (05~09) to create an Asian-African research network for infectious diseases**

10:00-10:30 Activity Reports from Research Centers I

Chair: Tetsuya Iida, *Research Institute for Microbial Diseases, Osaka University, Japan*

**A1. Yoshitake Nishimune**, *Thailand-Japan Research Collaboration Center on Emerging and Re-emerging Infections (RCC-ERI), Thailand*

**Thailand-Osaka University Research Center**

**A2. Tetsu Yamashiro**, *National Institute of Hygiene and Epidemiology-Nagasaki University Friendship Laboratory, Vietnam*

**Vietnam-Nagasaki University Research Center**

10:30-10:50 Coffee Break

**10:50-11:40 Activity Reports from Research Centers II**

Chair: Tetsuya Iida, *Research Institute for Microbial Diseases, Osaka University, Japan*

**A3. Yoshifumi Takeda**, *Collaborative Research Center of Okayama University for Infectious Diseases in India, India*  
**India-Okayama University Research Center**

**A4. Yoshitake Hayashi**, *Center for Infectious Diseases, Kobe University Graduate School of Medicine, Japan*  
**Indonesia-Kobe University Research Center**

**A5. Remigio Olveda**, *Research Institute for Tropical Medicine, Philippines*  
**Hitoshi Oshitani**, *Tohoku University Graduate School of Medicine, Japan*  
**Philippines-Tohoku University Research Center**

**11:40-12:40 Lunch and Poster Viewing**

**12:40-14:50 Hot Topics from Research Centers**

Chair: Koya Ariyoshi, *Institute of Tropical Medicine, Nagasaki University, Japan*  
Remigio Olveda, *Research Institute for Tropical Medicine, Philippines*

**H1. Masanori Kameoka**, *RCC-ERI, Thailand*

**A single glycosylation site in V2 region of HIV-1 Env gp120 regulates susceptibility of CRF01\_AE viruses to the CD4-binding domain antibody**

**H2. Le Quynh Mai**, *National Institute of Hygiene and Epidemiology, Vietnam*

**Monitoring on antiviral resistance of influenza viruses in Vietnam**

**H3. Yoshifumi Takeda**, *Collaborative Research Center of Okayama University for Infectious Diseases in India, India*

**A hospital based active surveillance of acute diarrheal diseases in Kolkata, India**

**H4. Masaoki Yamaoka**, *Indonesia-Japan Collaborative Research Center for Emerging and Re-emerging Infectious Diseases (CRC-ERID), Institute of Tropical Disease, Airlangga University, Indonesia*

**Surveillance of H5N1 highly pathogenic avian influenza viruses in Indonesia from 2008 to 2009**

**H5. Socorro Lupisan**, *Research Institute for Tropical Medicine, Philippines*

**Etiology of childhood pneumonia in the Eastern Visayas Regional Medical Center**

**14:50-15:10 Coffee Break**

**15:10-16:40 Special Session: Networks of Infectious Disease Research in Asia I**

Chair: Yoshiyuki Nagai, *Center of Research Network for Infectious Diseases, RIKEN, Japan*  
Paul Brey, *Institut Pasteur du Laos, Laos*

**S1. Leonard Peruski, *US Centers for Disease Control and Prevention, Thailand***

**Enhancing microbiology laboratory capacity for public health missions: Invasive pneumococcal disease, pathogen discovery, and developing collaborative networks**

**S2. Paul Brey, *Institut Pasteur du Laos, Laos***

**118 years of infectious disease research: Evolution of the Institut Pasteur international network in Asia in the 21<sup>st</sup> Century**

**S3. Richard Coker, *London School of Hygiene and Tropical Medicine, Thailand***

**Pandemic influenza: Health system challenges**

**16:40-17:00 Break**

**17:00-18:00 Special Session: Networks of Infectious Disease Research in Asia II**

Chair: Yoshiyuki Nagai, *Center of Research Network for Infectious Diseases, RIKEN, Japan*  
Paul Brey, *Institut Pasteur du Laos, Laos*

**S4. Tatsuo Miyamura, *National Institute of Infectious Diseases, Japan***

**International cooperation activities of the National Institute of Infectious Diseases**

**S5. Aikichi Iwamoto, *Institute of Medical Sciences, The University of Tokyo, Japan***

**Japan-China collaboration on emerging and reemerging infectious diseases: Establishment of high-end biomedical research collaboration between Beijing, Harbin and Tokyo in the first 5 years**

**18:00-19:00 Poster Session**

**19:00-21:00 Banquet**

**Sept. 17 (Thu)**

8:30-15:00 Registration

9:00-10:10 **Oral Presentation I**

Chair: Shigeyuki Hamada, *RCC-ERI, Thailand*

Mamta Chawla-Sarkar, *National Institute of Cholera and Enteric Diseases, India*

**O1. Itaru Hirai**, *1: Osaka University Graduate School of Medicine, Japan, 2: International Center for Medical Research and Treatment, Kobe University School of Medicine, Japan*

**Sequence analysis of the virulence factor gene *cagA* of *Helicobacter pylori* obtained from asymptomatic healthy individuals**

**O2. Kazunori Oishi**, *Research Institute for Microbial Diseases, Osaka University, Japan*

**Clinical and microbiological features of *Streptococcus suis* infections in humans living in Thailand**

**O3. Mitsutoshi Senoh**, *Collaborative Research Center of Okayama University for Infectious Diseases in India, India*

**Co-culture with eucaryotic cells converts viable but nonculturable *Vibrio cholerae* O139 to culturable**

**O4. Toshiro Shirakawa**, *Center for Infectious Diseases, Kobe University Graduate School of Medicine, Japan*

**Emergence of fluoroquinolone-resistant strain of *Salmonella enterica* serovar Typhi in Surabaya, Indonesia**

**O5. Sandipan Ganguly**, *National Institute of Cholera and Enteric Diseases, India*

**A novel oxidative stress regulatory cell death signaling pathway in facultative anaerobe *Giardia lamblia***

10:10-10:30 Coffee Break

10:30-11:40 **Oral Presentation II**

Chair: Sandipan Ganguly, *National Institute of Cholera and Enteric Diseases, India*

Tetsu Yamashiro, *National Institute of Hygiene and Epidemiology-Nagasaki University Friendship Laboratory, Vietnam*

**O6. Benjawan Phetsuksiri**, *National Institute of Health, Department of Medical Sciences, Thailand*

**Detecting *Mycobacterium tuberculosis* in sputum and in Bactec MGIT 960 cultures by loop mediated isothermal amplification (LAMP)**

**O7. Yasuihiko Suzuki**, *Research Center for Zoonosis Control, Hokkaido University, Japan*

**Characterization of a new mycobacterial species belonging to *Mycobacterium tuberculosis* complex**

**O8. Dang Duc Anh**, *National Institute of Hygiene and Epidemiology, Vietnam*

**Viral pathogens associated with acute respiratory infections in Central Vietnamese children**

**O9. Jun Ryan Orbina**, *Research Institute for Tropical Medicine, Philippines*

**Molecular epidemiology of rabies in the Philippines**

**O10. Takeshi Nabeshima**, *Institute of Tropical Medicine, Nagasaki University, Japan*

**Frequent introductions of Japanese encephalitis virus from Southeast Asia and continental East Asia to Japan**

11:40-13:10 **Lunch and Poster Viewing**

13:10-14:20 **Oral Presentation III**

Chair: Masaoki Yamaoka, *CRC-ERID, Indonesia*

Naokazu Takeda, *RCC-ERI, Thailand*

**O11. Mariko Saito**, *Tohoku University Graduate School of Medicine, Japan*

**Optimization of IgG-ELISA and molecular analysis of Reston-ebolavirus among swine in the Philippines**

**O12. Takako Utsumi**, *CRC-ERID, Airlangga University, Indonesia*

**Characteristics of hepatitis B virus infection in school children in east Java, Indonesia and hepatitis B surface antigen mutant**

**O13. Mamta Chawla-Sarkar**, *National Institute of Cholera and Enteric Diseases, India*

**Evasion of cellular responses: multifunctional role of rotavirus nonstructural protein-1**

**O14. Atsushi Yamanaka**, *CRC-ERID, Airlangga University, Indonesia*

**Relationship between complement activity and disease severity in dengue fever and dengue hemorrhagic fever patients in Indonesia**

**O15. Takeshi Kurosu**, *1: Research Institute for Microbial Diseases, Osaka University, Japan, 2: RCC-ERI, Thailand*

**The difference between primary and secondary infections of dengue virus quasispecies**

14:20-14:50 **Coffee Break**

**14:50-16:00 Oral Presentation IV**

Chair: Hitoshi Oshitani, *Tohoku University Graduate School of Medicine, Japan*  
Takako Utsumi, *CRC-ERID, Airlangga University, Indonesia*

**O16. Hiroki Takakuwa**, *Avian Influenza Research Centre, Kyoto Sangyo University, Japan*  
**Infection of H5N1 avian influenza viruses in healthy ducks on farms in northern Vietnam**

**O17. Yong-Gang Li**, *1: RCC-ERI, Thailand, 2: Research Institute for Microbial Diseases, Osaka University, Japan*  
**Characterization of H5N1 influenza viruses isolated in humans in Thailand**

**O18. Masaoki Yamaoka**, *CRC-ERID, Airlangga University, Indonesia*  
**Surveillance of seasonal influenza viruses in Indonesia from 2008 to 2009**

**O19. Yuta Kanai**, *RCC-ERI, Thailand*  
**Sero-epidemiological study of H1N1 influenza in Thailand in 2009**

**O20. Jin Takasaki**, *International Medical Center of Japan, Japan*  
**Application of sputum inducing method for diagnosis of A/H5N1 as a tool of comprehensive therapy for human H5**

**16:00-16:05 Closing Remarks**

**Pathom Sawanpanyalert**, *Director, National Institute of Health, Department of Medical Sciences, Thailand*

**POSTER SESSION**

- P1. Tomo Daidoji**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**One-step immunochromatographic assay for asian H5N1 detection**
- P2. Kozue Hotta**, *Institute of Tropical Medicine, Nagasaki University, Japan*  
**Prevalence of influenza A viruses among poultry and pigs reared in close range in a village in Hanoi, 2009**
- P3. Emma Qurnianingsih**, *Avian Influenza Laboratory, Airlangga University, Indonesia*  
**Serosurvey: Antibodies against H1, H3, and H5 subtypes of influenza virus in healthy blood donors in Indonesia**
- P4. Mia I. Dewisavitry**, *CRC-ERID, Airlangga University, Indonesia*  
**Surveillance: H1, H3, and H5 subtypes of influenza viruses and antibodies in Indonesian pigs**
- P5. Mayo Ueda**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**Extracellular Ca<sup>2+</sup> influx induces apoptosis in avian cells infected with H5N1 highly pathogenic avian influenza virus**
- P6. Kadek Rachmawati**, *Avian Influenza Laboratory, Airlangga University, Indonesia*  
**Passive surveillance of H5N1 avian influenza virus in Indonesian poultry: An update**
- P7. Reviany V. Nidom**, *CRC-ERID, Airlangga University, Indonesia*  
**Antiviral activity of five Indonesian herbal plants against H5N1 avian influenza virus**
- P8. Gui-Rong Bai**, *RCC-ERI, Thailand*  
**The appearance of amantadine- and oseltamivir-resistant variants of the influenza A virus in Thailand**
- P9. Kazuyoshi Ikuta**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**Broad neutralizing human monoclonal antibodies against influenza virus from vaccinated healthy donors**
- P10. Akifumi Yamashita**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**Human neutralization epitope on hemagglutinin of influenza A viruses H3N2, H1N1 and H5N1: A possible target for alternative vaccine development**
- P11. Ayumu Ohno**, *Tohoku University Graduate School of Medicine, Japan*  
**Respiratory syncytial virus among severe childhood pneumonia in Tacloban, Philippines**
- P12. Naoko Fuji**, *Tohoku University Graduate School of Medicine, Japan*  
**High prevalence of rhinovirus C among children diagnosed as severe pneumonia in the Philippines**

- P13. Soegeng S**, *CRC-ERID, Airlangga University, Indonesia*  
**The changing level of granulocyte macrophage-colony stimulating factor (GM-CSF) and tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ) in children suffered from dengue hemorrhagic fever grade I and II who had received Psidium folium extract**
- P14. Uamporn Siripanyaphinyo**, *RCC-ERI, Thailand*  
**Prevalence of genotype 3 hepatitis E virus infection in pigs in Thailand**
- P15. Maria I. Lusida**, *CRC-ERID, Airlangga University, Indonesia*  
**High frequency of HCV coinfection among HIV infected IVDU in Indonesia and characterization of HCV genotypes**
- P16. Maria I. Lusida**, *CRC-ERID, Airlangga University, Indonesia*  
**A unique hepatitis B virus cluster from Papuan blood donors in Jayapura, Indonesia**
- P17. Takako Utsumi**, *CRC-ERID, Airlangga University, Indonesia*  
**Genetic characterization of hepatitis B virus in Indonesia**
- P18. Yoshifumi Masago**, *Department of Civil and Environmental Engineering, Tohoku University, Japan*  
**Possible seasonality in prevalence of viral gastroenteritis in Metro-Manila, the Philippines**
- P19. Triveni Krishnan**, *National Institute of Cholera and Enteric Diseases, India*  
**Recombinant norovirus strains and other etiological agents of viral diarrhea in Kolkata, India**
- P20. Lea Necitas Apostol**, *1: Tohoku University Graduate School of Medicine, Japan, 2: Research Institute for Tropical Medicine, Philippines*  
**Molecular epidemiology of enterovirus 71 associated with acute flaccid paralysis in the Philippines**
- P21. Bongkot Soonthornsata**, *RCC-ERI, Thailand*  
**Evaluation of antiretroviral peptides corresponding to the heptad repeat 2 (HR2) region of HIV-1 envelope glycoprotein gp41**
- P22. Toungporn Boonchawalit**, *RCC-ERI, Thailand*  
**Sustained appearance of protease inhibitor (PI) resistance-associated mutations among HIV-1-infected, PI treatment-naïve patients residing in northern Thailand**
- P23. Naphatsawan Boonsathorn**, *National Institute of Health, Department of Medical Sciences, Thailand*  
**Genotypic characterization of HIV-1 *env* gp160 sequences from three regions in Thailand**
- P24. Ngo Tuan Cuong**, *National Institute of Hygiene and Epidemiology, Vietnam*  
**Etiologic agents of acute diarrhoea requiring hospitalization among children less than 5 years of age in Vietnam**

- P25. Kazuhisa Okada**, *RCC-ERI, Thailand*  
**A new attempt of prevention and control for propagation of cholera: Practical use of loop-mediated isothermal amplification method**
- P26. Siriporn Chantaroj**, *National Institute of Health, Department of Medical Sciences, Thailand*  
**Isolation and identification of *Vibrio cholerae* from patient, carrier, water and other environment samples in areas of Thai-Myanmar border**
- P27. Shigeaki Matsuda**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**Association of *Vibrio parahaemolyticus* thermostable direct hemolysin with lipid rafts is essential for cytotoxicity but not hemolytic activity**
- P28. Tsuyoshi Takahashi**, *Collaborative Research Center of Okayama University for Infectious Diseases in India, India*  
**Cytotoxicity of hemolysin produced by *Vibrio fluvialis***
- P29. Shunsuke Fukakusa**, *Graduate school of Pharmaceutical Sciences, Osaka University, Japan*  
**Crystal structure of CofJ, an essential molecule for adhesive function of ETEC colonization factor antigen III**
- P30. Hemanta Koley**, *National Institute of Cholera and Enteric Diseases, India*  
**Homologous protection of infection by heat-killed *Shigella* strains in guinea pig model**
- P31. Karun Suthivarakom**, *National Institute of Health, Department of Medical Sciences, Thailand*  
**Molecular techniques for identification *Helicobacter pylori* infection in gastric cancer patients and healthy persons of Thailand**
- P32. Supansa Junya**, *Faculty of Veterinary Medicine, Chiangmai University, Thailand*  
**Incidence and virulence factors of *Streptococcus suis* infection in Chiangmai slaughtered pigs**
- P33. Anusak Kerdsin**, *National Institute of Health, Department of Medical Sciences, Thailand*  
**Development of multiplex PCR for serotyping of *Streptococcus pneumoniae***
- P34. Benjawan Phetsuksiri**, *National Institute of Health, Department of Medical Sciences, Thailand*  
**Utility of 16-locus mycobacterial intersperse repetitive unit typing for discriminating clinical isolates of *Mycobacterium avium* subs *hominissuis* collected in Thailand**
- P35. Luu Thi Lien**, *Hanoi Tuberculosis and Lung Disease Hospital, Vietnam*  
**Prevalence and risk factors for tuberculosis infection among hospital workers in Hanoi, Viet Nam**
- P36. Ryuichi Uchida**, *RCC-ERI, Thailand*  
**An interim report of clinical and microbiological study on acute lower respiratory infection among children in Bangkok**
- P37. Nobuko Arisue**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**The SERA gene family: Important clues from several *Plasmodium* species**

**P38. Nirianne M. Q. Palacpac**, *Research Institute for Microbial Diseases, Osaka University, Japan*  
**Comparative analysis of human vivax malaria infections in different endemic areas**

**P39. Xuenan Xuan**, *National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Japan*

**Seroprevalence of *Cryptosporidium parvum* infection of dairy cows in three northern provinces of Thailand determined by enzyme-linked immunosorbent assay using recombinant antigen CpP23**

**P40. Futoshi Hasebe**, *Institute of Tropical Medicine, Nagasaki University, Japan*  
**2009 Bats Survey in Vietnam – Bats are important reservoir hosts of arboviruses –**

**P41. Takashi Tsunoda**, *Institute of Tropical Medicine, Nagasaki University, Japan*  
**Winter activity of *Aedes albopictus* in northern Vietnam**

**P42. Hiroshi Yoshino**, *Institute of Tropical Medicine, Nagasaki University, Japan*  
**Birth cohort study in Khanh Hoa province, Vietnam**