

Scientific Program

NTDASIA2017

NTDs without Borders: From Bench to Community

8-9 March 2017, Pullman Raja Orchid, Khon Kaen, Thailand

Asian Neglected Tropical Diseases Conference (NTDASIA2017)

Ballroom 2, Pullman Khon Kaen Raja Orchid, Khon Kaen, Thailand

March 8-9, 2017

Wednesday 8 March 2017

- 8.30-9.00 Registration
- 9.00-9.15 Opening Ceremony
Report: Chairman of the NTDASIA2017 Conference
Dr. Banchob Sripa
Welcome Address:
- Dean, Faculty of Medicine
Dr. Charnchai Panthongviriyakul
 - President of the Society of Parasitology and Tropical Medicine of Thailand
Dr. Jitra Waikagul
 - Office of the Higher Education Commission (OHEC), Thailand
Dr. Vichai Boonsaeng
- Opening Address: President of Khon Kaen University**
Dr. Kittichai Triratanasirichai
- 9.15-9.30 *Group photo*
- Session 1** **Keynote speakers**
Chairperson: *Dr. Jitra Waikagul*
- 9.30-10.00 Human fascioliasis, a highly pathogenic disease: From basic knowledge to control, with emphasis on Asia
Santiago Mas-Coma (Valencia University, Spain)
- 10.00-10.15 *Coffee Break*
- Session 2** **NTDs & Foodborne trematodiasis**
Chairperson: Dr. Khin Thet Wai
- 10.15-10.30 Science to policies, strategies and programmes: progress updates on NTDs from the WHO perspective
Aya Yajima, WHO Regional Office for the Western Pacific | Manila, Philippines
- 10.30-10.45 Intensifying responsiveness towards neglected intestinal helminth infections in a resource-constrained setting: epidemiological mapping, advanced diagnostic techniques and research gaps
Kay Thwe Han, Department of Medical Research, Myanmar
- 10.45-11.00 *Opisthorchis felinus* in Shegarsky district, Western Siberia: Preliminary results of a cross-sectional study
Olga Fedorova, Siberian Medical University, Tomsk, Russia
- 11.00-11.15 Research and control on clonorchiasis in China
Men-Bao Qian, National Institute of Parasitic Diseases, PR China

- 11.15-11.30 Pathogenic landscape of helminth *O. viverrini* Infections and contributing physical and social factors
Yi-Chen Wang, National University of Singapore, Singapore
- 11.30-11.45 Predicting the influences of climate on the risk of *Opisthorchis viverrini* infection in Thailand
Pariwate Varnakovid, KMUTT Geospatial Engineering and Innovation Center, Thailand
- 11.45-12.00 Mathematical modelling of transmission dynamics of *Opisthorchis viverrini*
Christine Bürl, Swiss TPH, Switzerland

12.00-13.30 Lunch & Poster Presentation

Session 3 Foodborne trematodiasis
Chairperson: Dr. Banchob Sripa

- 13.30-13.45 Genome of *Opisthorchis felineus*
Maria Pakharukova, Institute of Cytology and Genetics, Novosibirsk, Russia
- 13.45-14.00 Bile and its transporters SBAT and MRPs for *Clonorchis sinensis*
Sung-Jong Hong, Chung-Ang University, Korea
- 14.00-14.15 *Clonorchis sinensis* excretory-secretory product-induced migration and invasion of cholangiocarcinoma cells
JH Pak, Ulsan College of Medicine and Asan Institute for Life Science, Korea
- 14.15-14.30 Application of environmental DNA analysis for the detection of *Opisthorchis viverrini* DNA in water samples
Kazuhiko Moji, Nagasaki University School of Tropical Medicine and Global Health, Japan
- 14.30-14.45 Mammalian reservoirs as risk factors in liver fluke transmission
Sirikachorn Tangkawattana, Faculty of Veterinary Medicine, KKU, Thailand
- 14.45-15.00 Applying PRA/PE on parasitic food borne diseases in Lao: Interdisciplinary challenges and practical guideline
Vannaphone Phouthana, National University of Laos, Lao PDR

15.00-15.20 Coffee break

Session 4 OHEC-Newton Fund - BC Liver fluke research
Chairperson: Dr. Steven W. Edwards

- 15.20-15.35 Newton Fund, UK
TBA
- 15.35-16.00 Neutrophil functions in inflammatory diseases and helminths
Steven W. Edwards, University of Liverpool, UK
- 16.00-16.15 Advanced periductal fibrosis in chronic opisthorchiasis is associated with macrophages with high phagocytic and proteolytic activities
Kanin Salao, TDRC, KKU, Thailand
- 16.15-16.30 Responsiveness of the innate immune system to *Opisthorchis viverrini* excretory/secretory products
Edward M. Spofford, University of Liverpool, UK
- 16.30-16.45 Inflammation in the pathogenesis of cholangiocarcinoma: in vitro activity of neutrophils in response to *Opisthorchis viverrini* excretory-secretory products
Charlotte Price, University of Liverpool, UK

18.00-21.00 Welcome dinner

Thursday 9 March 2017

Session 5

Rabies

Chairperson: Dr. Yukifumi Nawa

- 8.30-8.45 Dynamics of dog bites in rabies transmission to humans in Riau Province Indonesia
Sri Murtini, Faculty Veterinary Medicine, Bogor Agricultural University, Indonesia
- 8.45-9.00 Knowledge, Attitudes and Practices on Rabies Control and Prevention among Residents in Maramag, Bukidnon, Philippines
Jose M. Obedencio Jr, College of Veterinary Medicine, Central Mindanao University, Philippines
- 9.00-9.30 **Honorary speaker:** Human rabies: neuropathogenesis, diagnosis, and management
Professor Thiravat Hemachudha, Chulalongkorn University, Thailand

Session 6

Schistosomiasis

Chairperson: Dr. David Blair

- 9.30-9.45 Blood flukes: Catchy parasites here to stay
David Blair, James Cook University, Townsville Australia
- 9.45-10.00 Pattern analysis of schistosomiasis prevalence by exploring predictive modeling in P.R. China
Shi-Zhu Li, National Institute of Parasitic Diseases, China
- 10.00-10.15 Schistosomiasis in the Philippines: Some Successes and Challenges in Control
Lydia Leonardo, University of the Philippines Manila, Philippines
- 10.15-10.30 Comparison of diagnostic tools for detection of *Schistosoma mekongi* infection in Lao People's Democratic Republic and Cambodia
Somphou Sayasone, NIOPH, Lao PDR
- 10.30-10.45 Transcriptomics analysis of sex-biased genes in *Schistosoma mekongi*
Poom Adisakwattana, Faculty of Tropical Medicine, Mahidol University
- 10.45-11.00 How parasite derived metabolites can be implicated on carcinogenesis associated with parasitic infections? Case-studies: *Schistosoma haematobium* and *Opisthorchis felineus* infections.
Jose Manuel da Costa, University of Porto, Portugal

11.00-11.15

Coffee Break

Session 7

Asian Neglected tropical diseases I

Chairperson: Dr. Peter Odermatt

- 11.15-11.30 *Strongyloides stercoralis* is associated with significant morbidity in rural Cambodia including stunting in children
Peter Odermatt, Swiss TPH, Switzerland
- 11.30-11.45 The comparison of *Microfilaria* density between the linear and circular blood smear method in post therapy lymphatic filariasis
Helena Ulyartha, Ministry of Health Republic, Indonesia
- 11.45-12.00 Prevalence, epidemiology and molecular genetic evidences support fascioliasis caused by *F. hepatica*, *F. gigantica* and the emerging hybrid *Fasciola* species worldwide
Thanh Hoa Le, Institute of Biotechnology, Hanoi, Vietnam
- 12.00-12.15 Human fascioliasis in Iran: current status
Keyhan Ashrafi, Guilan University of Medical Sciences, Iran
- 12.15-12.30 Identification and characterization of two novel inhibitors of thioredoxin glutathione reductase of *Fasciola gigantica*: A step further for structure based drug discovery
Timir Tripathi, North-Eastern Hill University, Shillong, India

12.30-13.30

Lunch & Poster Presentation

Session 8 Asian Neglected tropical diseases II
Chairperson: Dr. Paiboon Sithithaworn

- 13.30-13.45 Biological roles of *Echinococcus multilocularis* antigen B3 at the host-parasite interface
Chun-Seob Ahn, School of Medicine, SKKU, Korea
- 13.45-14.00 Cerebral toxocariasis: Silent progression to neurodegenerative disorders?
Chia-Kwung Fan, Taipei Medical University, Taiwan
- 14.00-14.15 Success story of lymphatic filariasis as a public health problem in Cambodia
Virak Khieu, National Center for Parasitology, Entomology and Malaria Control, Cambodia
- 14.15-14.30 Erythrocyte binding proteins in the host-parasite interface during *Plasmodium vivax* infection
Eun-Taek Han, School of Medicine, Kangwon National University, Korea
- 14.30-14.45 Towards New Drug Target: Identification and Functional Characterization of Putative Drug and Vaccine Targets in the Bacterial Genomes
Imtaiyaz Hassan, Center for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, India
- 14.45-15.00 Urine antigen assay as new tool for diagnosis and mass screening of opisthorchiasis
Paiboon Sithithaworn, Faculty of Medicine, KKU, Thailand
- 15.00-15.15 From CASCAP to Fluke Free Thailand: a comprehensive public health program to combat the liver fluke, *Opisthorchis viverrini* and cholangiocarcinoma
Narong Khuntikeo, Faculty of Medicine, KKU, Thailand

15.15-15.30 Coffee Break

Session 9 Symposium on “Neglected Zoonoses”
Chairperson: Dr. Boripat Siriaroonrat

- 15.30-15.45 Identifying certain animal diseases as neglected
Flavie Goutard, CIRAD, SE Asia
- 15.45-16.00 Interspecific contact rates: a neglected parameter in Neglected Tropical Disease epidemiology
Michel de Garine-Wichatitsky, CIRAD, SE Asia
- 16.00-16.15 Leptospirosis: an animal – human interface
Serge Morand, CIRAD, SE Asia
- 16.15-16.30 Bridging Biodiversity & Health: examples from developing countries
Boripat Siriaroonrat, Zoological Park Organization, Thailand
- 16.30-16.45 Q & A
- 16.45-17.15 **Way forwards:** Future collaboration in Asian NTDs
- Poster award event
 - Announcement of ICOPA2018
 - Announcement of ICTMM2020
 - Closing Remark
- Dr. Banchob Sripa*