



NTD ASIA 2014

Interdisciplinary Research on Liver Flukes

16-17 September 2014, Pullman Raja Orchid, Khon Kaen, Thailand



The Thailand Research Fund (TRF) and Tropical Disease Research Laboratory cordially invite you all to join the Annual Meeting of the TRF Senior Scholar for the year 2014.

Topics

- Neglected tropical diseases in Greater Mekong Sub-region
- Combating Neglected Tropical Diseases in Southeast Asia: Special Focus on STHs
- Hookworm vaccine trial
- Updates on schistosomiasis in Lao PDR
- Vaccines for schistosomiasis
- Perspectives on *Paragonimus* and human liver flukes
- Gnathostomiasis – Another neglected fish-borne disease
- NTD trematode-mitogenomic database
- TOPIC - Tomsk Opisthorchiasis Consortium
- Genome-wide microsatellite analysis of *Opisthorchis viverrini* and *Clonorchis sinensis*
- *Opisthorchis viverrini* secreted exosomes
- Liver fluke xenobiotic-metabolizing system
- Molecular pathogenesis of liver fluke induced cancer
- Diagnosis of human liver flukes
- Biomarkers for cholangiocarcinoma
- New drug for liver flukes: Clinical trial of tribendimidine for opisthorchiasis
- EcoHealth approach to control liver fluke transmission
- Social network analysis
- Etc.

Key speakers

Paul J. Brindley, PhD

Jeff R. Bethony, PhD

Research Center for Neglected Tropical and Infectious Diseases
The George Washington University, USA

Deputy Editor, PLoS Neglected Tropical Diseases (PLoS NTDs)

Alex Loukas, PhD

James Cook University (Cairns), Australia

Editor-in-Chief, International Journal for Parasitology

Yukifumi Nawa, MD, PhD

Editor-in-Chief, Parasitology International

Kazuhiko Moji, MD, PhD

President, Japanese Society of Tropical Medicine, Nagasaki, Japan

Sung-Jong Hong, DVM, PhD

President, Korean Society of Parasitology, Chung-Ang University, Korea

David Blair, PhD

Associate Editor, PLoS NTDs, James Cook University (Townsville), Australia

Veeranoot Nissapatorn, MD, PhD

Coordinator, Southeast Asia for NTDs, University of Malaya, Malaysia

Viatcheslav A. Mordvinov, PhD

Deputy Director, Institute of Cytology and Genetics SB RAS, Novosibirsk, Russia

Bruce Wilcox, PhD

Tufts University, USA

Peter Odermatt, PhD

Group leader, Swiss Tropical and Public Health

Alan D. Ziegler, PhD

National University of Singapore, Singapore

Le Thanh Hoa, PhD

Institute of Biotechnology, Hanoi, Vietnam

Somphou Sayasone, MD, PhD

National Institute of Public Health, Lao PDR

Organizer:

Tropical Disease Research Laboratory

Chairman: Dr. Banchoob Sripa

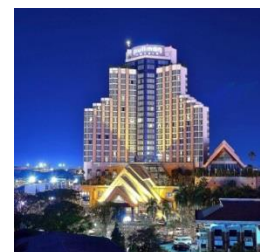
Deputy Editor, PLoS NTDs



WHO Collaborating Centre for
Research and Control of Opisthorchiasis
(Southeast Asian Liver Fluke Disease)

Date: 16-17 September 2014

Venue: Orchid Ballroom 2
Pullman Raja Orchid Hotel
Khon Kaen, Thailand



NTDASIA2014

Interdisciplinary Research on Liver Flukes

16-17 September 2014, Pullman Raja Orchid, Khon Kaen, Thailand

Thailand Research Fund (TRF) Senior Scholar Symposium on Neglected Tropical Diseases in Asia (NTDASIA2014)

“Interdisciplinary Research on Liver Flukes”

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

September 16-17, 2014

Tuesday 16 September 2014

8.30-9.00 Registration

9.00-9.30 Opening Ceremony

Report: Chairman of the NTDASIA2014 Conference

Dr. Banchob Sripa

Welcome Address:

- Dean, Faculty of Medicine

Dr. Charnchai Panthongviriyakul

Opening Address: President of Khon Kaen University

- *Dr. Kittichai Triratanasirichai*

9.30-10.00 *Group photos & Coffee Break*

Session 1 Neglected tropical diseases in Asia 1

Chairperson: Dr. Banchob Sripa

10.00-10.15 Neglected tropical diseases in Greater Mekong Sub-region

Banchob Sripa

10.15-10.30 Combating neglected tropical diseases in Southeast Asia: Special focus on soil-transmitted helminthes

Veeranoot Nissapatorn

10.30-10.45 Integration of WASH for the control and elimination of the soil-transmitted helminthes

Darren Gray

10.45-11.00 Hookworm vaccine trial

Jeff Bethony

11.00-11.15 Controlling and research contributions of NTDs on Vector Borne Disease in Indonesia

Helena Ulliyartha

11.15-11.30 *Schistosoma mekongi* in Laos: current situation and findings relevant for control

Somphou Sayasone

11.30-11.45 Schistosomiasis vaccine development

Alex Loukas

11.45-12.00 Gnathostomiasis – Another neglected fish-borne disease

Yukifumi Nawa

12.00-13.30 Lunch & Poster Presentation

Session 2 Neglected tropical diseases in Asia 2

Chairperson: Dr. David Blair

- 13.30-13.45 Perspectives on *Paragonimus* and human liver flukes
Dr. David Blair
- 13.45-13.55 Epidemiology study of lymphatic filariasis in district of Balangan and Hulu Sungai
Suriyani Tan
- 13.55-14.10 NTD trematode-mitogenomic database with addition of the recent mtDNAs from Heterophyidae, Echinostomatidae, Opisthorchiidae and Fasciolidae for biomedical studies
Le Thanh Hoa
- 14.10-14.20 Genome-wide microsatellite analysis of *Clonorchis sinensis* and *Opisthorchis viverrini*
Thao Thi Bich Nguyen
- 14.20-14.35 SWATH, iTRAQ and exosomes: the search for protein biomarkers in the plasma haystack
Jason Mulvenna
- 14.35-14.50 *Clonorchis sinensis* antigenic proteins and development to serodiagnosis tests
Sung-Jong Hong
- 14.50-15.00 Recombinant *Opisthorchis viverrini* cathepsin F cysteine protease: Opisthorchiasis new diagnostic candidate
Salma Teimoori

15.00-15.15 Coffee break

Session 2 Neglected tropical diseases in Asia 3

Chairperson: Dr. Paul Brindley

- 15.15-15.30 *Opisthorchis felineus*: xenobiotic-metabolizing system
Viatcheslav Mordvinov
- 15.30-15.45 Fluke derived catechol-estrogens and oxysterols and helminth associated cancers
Paul Brindley
- 15.45-16.00 *Clonorchis sinensis* infestation promotes three-dimensional aggregation and invasion of cholangiocarcinoma cells
Jhang Ho Pak
- 16.00-16.10 A granulin growth factor secreted by the carcinogenic liver fluke, *Opisthorchis viverrini*, and its role in wound healing and carcinogenesis
Michael Smout

- 16.10-16.20 Endocytosis of excretory/secretory products of *Opisthorchis viverrini* promote environment of carcinogenesis
Sujittra Chaiyadet
- 16.20-16.30 *Opisthorchis viverrini* secreted microvesicles promote cholangiocytes to adopt a tumorigenic phenotype
Javier Sotillo
- 16.30-16.40 M60-like metallopeptidase, a novel mucinase: virulent factor and diagnostic marker for *Opisthorchis viverrini* infection
Sutas Suttiwapa
- 16.40-16.50 Cloning and characterization fatty acid binding protein of *Opisthorchis viverrini*
Jittiyawadee Sripa
- 16.50-17.00 MiRNA and 8-oxo-dG as biomarkers for cholangiocarcinoma
Jeff Bethony

18.00-21.00 Welcome Dinner

Wednesday 17 September 2014

Session 3 Neglected tropical diseases in Asia 4

Chairperson: Dr. Peter Odermatt

- 8.45-9.00 Treatment of *Opisthorchis viverrini* with Tribendimidine
Peter Odermatt
- 9.00-9.15 *Opisthorchis viverrini* infection in northeastern Thai (Khon Isan) communities in Lower Northern Thailand
Wilawan Pumidonming
- 9.15-9.30 Elucidating liver fluke transmission: moving from a static life-cycle perspective to a dynamic functional approach
Pierre Echaubard
- 9.30-9.45 Mathematical Modeling of Liver Fluke Transmission Dynamics in Aquaculture Systems
Tomas Leon
- 9.45-10.00 A social ecological investigation of *Opisthorchis viverrini* infections in snails and fish in Lawa Lake, a highly endemic wetland ecosystem in Northeast Thailand
Christina Sunyoung Kim

10.00-10.30 Coffee Break

Session 4 *Neglected tropical diseases in Asia 5*

Chairperson: Dr. Kazuhiko Moji

- 10.30-10.45 Ecosystem Approaches to NTDs & Foodborne trematodiasis
Bruce Wilcox
- 10.45-11.00 The inquiry of a successful 'intuitive' surveillance and control of
Opisthorchis viverrini in northeast Thailand
Panomsak Promburom
- 11.00-11.15 Ecohealth approach to control liver fluke transmission in Savannakhet,
Lao. PDR
Kazuhiko Moji
- 11.15-11.30 Participatory epidemiology of parasitic infection in *Macaca fascicularis*
in the opisthorchiasis endemic area: a preliminary report
Sirikachorn Tangkawattana
- 11.30-11.45 Pattern of fresh-water fish sharing for household consumption using
participatory epidemiology and social network in 10 villages of Lawa
Lake, Thailand
Waraphon Phimpraphai

11.45-13.00 Lunch & Poster Presentation

Session 5 *Neglected tropical diseases in Asia 6*

13.00-15.00 ***Symposium on "Needs, Challenges and Approaches to
Interdisciplinarity for NTDs and Liver Fluke Research"***

Chairperson: Dr. Bruce Wilcox

Panel Banchob Sripa
 Alan R. Ziegler
 Darren Gray

15.00-15.15 Coffee Break

Session 4 *Neglected tropical diseases in Asia 7*

Chairperson: Dr. Banchob Sripa

15.15-16.30 Way forwards

- Future collaboration in Asian NTDs
- Asian NTDs Consortium
- TOPIC - Tomsk Opisthorchiasis Consortium
- Asian Neglected Tropical Diseases Conference

Closing Remark

Dr. Banchob Sripa