

# First International Conference on Tropical Medicine & Infectious Diseases: "Current Trends, Challenges & Issues"

4th - 7th December 2012 Impiana Hotel, Ipoh, Perak

Officiated By
Y.B Datuk Dr Adham Baba

Organised by:

Faculty of Medicine

Universiti Kuala Lumpur - Royal College of Medicine Perak





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I am pleased to know that the Faculty of Medicine, University Kuala Lumpur Royal College of Medicine Perak is organizing the First International Conference on Tropical Medicine and Infectious Diseases: Current Trends and Challenges on 4<sup>th</sup> to 7<sup>th</sup> December 2012 at Impiana Hotel, Ipoh, Perak.

Infectious diseases have long been associated with significant levels of human illness and death. Commendable scientific discoveries in the last century have provided some form of control in containing infectious diseases. More recently, however, due to increased human mobility, deforestation and urbanization infectious diseases like malaria, hepatitis, Japanese encephalitis, dengue and chickungunya have resurfaced, posing serious threats to public health. This challenge is further exacerbated by a seamless world where air travel has become cheaper and thus more accessible for the masses. As human move, so do pathogens and their vectors, seeking new hosts in a global environment.

Given the magnitude of the challenge in dealing with infectious diseases, this conference is indeed timely and relevant. It is envisaged that the flow of knowledge and sharing of expertise by distinguished scientists would lead to an impactful and beneficial exchange of ideas. The conference provides a platform for the distinguished participants to cooperate and collaborate in the management of tropical and infectious diseases.

I am confident that considerable insights on how tropical medicine can be used to manage infectious diseases will be reaped in this conference. The huge tropical forests of Malaysia provide many opportunities for development of tropical medicines and interest in this research area has increased significantly in the last few decades. The presence of foreign and local scientists, veterinarians and medical practitioner in this conference attests to the increasing importance and hope placed in the use of tropical medicine to treat infectious diseases. This conference is another step forward for us to make the world a better place.

I would like to congratulate the organizers and wish everyone a fruitful deliberation.

YANG BERHORMAT DATUK DR. ADHAM BABA Chairman

Universiti Kuala Lumpur Malaysia



It gives me great pleasure to convey this message on the occasion of the First International Conference on Tropical Medicine and Infectious Diseases with the theme "Current Trends, Challenges and Issues" organized by the Faculty of Medicine, Universiti Kuala Lumpur Royal College of Medicine, Perak. I hear your University is celebrating its 10<sup>th</sup> Anniversary and it is only fitting that you are holding a conference of this stature.

I am happy to note that you have chosen a theme that is very appropriate and timely as tropical medicine and infectious diseases as a whole is important to the Ministry of Health.

More than six deadly infectious diseases such as diarrhoeal diseases, acute respiratory infections, malaria, measles and more recently HIV/AIDS, account for half of all premature deaths, killing mostly children and young adults all over the world. Fortunately, many of the resurgent and emerging infectious disease outbreaks are under control in this country.

International travel and commerce have made it possible for pathogens to be quickly transported from one side of the globe to the other side and we must be vigilant and take preventive measures to control the spread of these diseases. Health and socio-economic well being of the people is the key to success and prosperity.

It is hoped that your conference will be able to identify new areas of study in tropical medicine and infectious diseases for the improvement of health and welfare of the people. The presence of foreign and local participants in this common pursuit attests to the importance and practical need for such areas of research.

I sincerely wish the Conference every success. I am confident that the participants will find it useful and stimulating in the discussion.

Thank you.

DATUK DR LOKMAN HAKIM BIN SULAIMAN

Deputy Director General of Health (Public Health) Ministry of Health Malaysia



On behalf of Universiti Kuala Lumpur Royal College of Medicine Perak, I would like to extend a warm welcome to all the delegates especially those who have come from abroad on the occasion of the First International Conference on Tropical Medicine and Infectious Diseases: Current Trends, Challenges and Issues. This is our 10<sup>th</sup> Anniversary and also the year when our first cohort of Universiti Kuala Lumpur Royal College of Medicine Perak students graduated with MBBS degree. As Malaysia is going through a period of rapid growth and development in its bid to reach the goal of a developed country by the year 2020, I am happy to note that the scientific capacity in this country is increasing but the scientists and physicians of the developed world still have a major role to play with regards to some of the most neglected diseases.

I believe that organizing conferences such as this will help to produce better scientists, researchers and teachers. Research works is essential to our teaching courses in bringing new knowledge to our students. Aside from the above reasons, we would like our university to develop closer cooperation among research scientists from different parts of the world.

I am happy to state that the University has always supported and encouraged various groups of academicians and scientists who are interested in research and development especially in tropical medicine, infectious diseases and public health. I am sure your discussions will bring us closer to solutions to overcome problems of tropical and infectious diseases. I wish you good luck and it is my fervent hope that your discussions will pave the way towards the eventual solutions to the problems we are facing. I hope that the participants including those from overseas will enjoy their stay in Ipoh in particular and Malaysia in general. May your deliberations be rewarded with success.

Yours sincerely

#### DATO' MOHAMED HISHAM ABD. GHANI

Head of Campus & Chief Executive Officer Universiti Kuala Lumpur Royal College of Medicine Perak, Ipoh, Malaysia



nswers.



I wish to thank the Organizing Committee for giving me the opportunity to pen a few words.

The First International Conference on Tropical Medicine and Infectious Diseases: Current Trends, Challenges and Issues... it is not a dream but reality.

First and foremost, I would like to congratulate the Chairman and Committee Members for all the effort and untiring hard work in organizing this conference. With the number of participants from the various parts of the country and region, it is proven that the conference is significantly important to everybody. It is also as a channel to share their knowledge, problems and to hear views from the expertise.

In conjunction with the 10<sup>th</sup> Anniversary of Universiti Kuala Lumpur, it is such an appropriate time for the conference been organized and it helps to boost the university globally. Universiti Kuala Lumpur Royal College of Medicine Perak (UniKL RCMP) is renowned as an arch to the world of medicine with an objective to provide affordable medical education, as well as to provide facilities for continuing professional development for medical practitioners. Tropical diseases are still major issues in many developing countries in term of its occurrence, prevention and control. It is timely for RCMP to revisit the trends and new challenges in the areas especially the neglected tropical diseases such as STH, leprosy, schistosomiasis, dengue, yaws, filariasis etc. RCMP also has set up the niche area of research in Tropical Medicine to boost the research effort in these areas.

In doing so, we have laid one of the foundations for UniKLRCMP to be a centre of academic excellence in medical related studies and research especially in the areas of tropical diseases.

Well done and congratulation once again.

PROF. DR. OSMAN BIN ALI

Dean Faculty of Medicine Royal College of Medicine Perak, Ipoh, Malaysia Universiti Kuala Lumpur



On behalf of the Organising Committee it gives me great pleasure to extend a warm welcome to all participants attending "First International Conference on Tropical Medicine and Infectious Diseases: Current Trends, Challenges and Issues". A topic that is timely and of great interest to medical profession, providers of health care and educationists. In today's era of globalization and modern transportation, diseases that were confined to the tropics have spread geographically and played a significant role in global resurgence of tropical and infectious diseases. As a result of this, research on tropical medicine and medical microbiology research has become significantly important in the past two decades. This conference I hope will provide a unique opportunity for people from various parts of the world and from various disciplines to meet, to share problems and ideas, to give mutual support and encouragement, and to hear the views of some of the leading experts in the field of tropical medicine and infectious diseases.

On behalf of the Organizing committee, I wish to record my gratitude to the Chief Executive Officer and Head of Campus and the Dean, Universiti Kuala Lumpur Royal College of Medicine Perak for their support in organizing the conference. I thank all guest speakers and chairpersons for their wholehearted support. I thank all the sponsors for their generous support to help make this conference a success.

Last but not least, I appreciate the assistance and support of the Organizing committee members for their untiring efforts towards the success of this conference. To participants from abroad, "Selamat Datang ke Malaysia" (welcome to Malaysia) and hope you have a very pleasant and memorable stay in Malaysia.

#### PROF DR B. SINNIAH

Organising Chairman

1st International Conference on Tropical Medicine and Infectious Diseases
Faculty of Medicine
Royal College of Medicine Perak, Ipoh, Malaysia
Universiti Kuala Lumpur

#### ORGANISING COMMITTEE

FIRST INTERNATIONAL CONFERENCE ON TROPICAL MEDICINE AND INFECTIOUS DISEASES: CURRENT TRENDS, CHALLENGES AND ISSUES

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Prof Dr B Sinniah

#### Organising Co-Chairman

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#### **Accomodation & Hotel Arrangements**

Ms Nikki Amura Zainal Abidin Chairperson

#### Artist

Mr Mohd Zachary Othman

Cover and Poster Design

#### **Photographer**

Mr Azrul Nasir Zahir





# 2<sup>nd</sup> Pre Conference Workshop

# DETECTION OF INFECTIOUS PATHOGENS USING DEPLOYABLE MOLECULAR TECHNIQUES

3<sup>rd</sup> - 4<sup>th</sup> December 2012

#### VENUE:

RCMP Campus,
UNIVERSITI KUALA LUMPUR
Ipoh, Perak Darul Ridzuan

# Pre-conference Workshop Organizing Committee

Advisor	Prof. Osman Ali
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Laboratory Facilitators	Assoc. Prof. Dr. Gopalakrishnan Dr. Nalina Chin Pui See Ong Gaik Bei Nurul Asyikin Zulkipli
Photographer	Azrul Nazir Bin Zahir
Secretariat	Nikki Amura Bt Zainal Abidin

It is my pleasure to welcome participants to the "2<sup>nd</sup> Workshop on Deployable Detection of Infectious Pathogens Using Molecular Techniques" in UNIKL RCMP. I am grateful to have distinguish medical microbiologists, Prof Dr Tim Inglis from the PathWest and University of Western Australia and Prof Dr Rani Bahaman from Universiti Putra Malaysia to conduct the workshop. Both trainers are experts in the field medical microbiology especially in melioidosis and leptospirosis respectively.

The workshop aims to update participants on the current methods of detection of infectious pathogen that requires rapid detection encountered in the emergence and re-emergence of infectious diseases in the communities and hospitals. Early detection of infectious pathogens is important to treat the infection, control the spread of infectious disease and for further preventive measures that needs to be undertaken. The workshop will be a good opportunity for the participants to practice in the procedures of molecular detection techniques and to discuss on current methods of pathogen detections with the trainers. There is a current need to improve methods of pathogen detections by the use of molecular methods in the field during disease outbreak and environmental surveillance during natural disasters and in the hospital.

I look forward that the workshop will foster good professional relationship among the participants, experience sharing and promote collaboration between institutions.

I wish the participants a pleasant and fruitful deliberation in the workshop and to take time off to visit Perak during your stay.

I wish to thanks the CEO, the Dean and committee members for their effort in putting this workshop together.

Assoc Prof Dr Abdul Karim Russ Hassan

Workshop Organising Chaiman

# Programme

DAY 1	3 <sup>RD</sup> DECEMBER 2012
8.00am - 8.30am	Registration of participants
8.40am - 8.50am	Welcoming Speech
8.50am – 9.00am	Launching by Datuk (Dr) Zamani Md Noor, UNIKL RCMP Chairman
9.00am – 9.30am	Introduction on aims, outline methods Prof Tim JJ Inglis
9.30am - 10.00am	TEA BREAK
10.15am – 11.00am	Speaker 1: Prof Dr Tim JJ Inglis PRACTICAL CLASS I: Extraction 1. Blood cultures 2. EDTA bloods for viruese
11.00am - 12.00pm	PRACTICAL CLASS 2: Bacterial target amplification  1. Blood culture panel set up & run, conventional  2. Blood culture set up and run, real time
12.00pm – 1.00pm	LWW lecture
1.00pm – 2.00pm	LUNCH
2.00pm - 3.00pm	PRACTICAL CLASS 3: Viral target amplification Dengue & other arboviruses, real time
3.00pm – 3.40pm	DISCUSSION: Data interpretation & problem solving
3.40pm - 4.00pm	TEA BREAK
4.00pm – 5.00pm	Talk- How to deploy a PCR assay

DAY 2	4 <sup>TH</sup> DECEMBER 2012	
8.00am - 9.00am	Speaker 2: Prof Rani Bahaman	
9.00am - 10.30am	Laboratory session	
10.30am - 11.00am	TEA BREAK	
11.30am - 1.00pm	Speaker 3: Assoc. Prof. Dr. Abdul Karim Russ Hassan	
1.00pm - 2.00pm	LUNCH	
2.00pm - 3.40pm	Workshop	
3.40pm - 4.00pm	TEA BREAK	
4.00pm - 5.00pm	Workshop	
5.00pm - 6.00pm	CLOSING CEREMONY	





# Official Opening

1<sup>ST</sup> INTERNATIONAL CONFERENCE ON TROPICAL MEDICINE AND INFECTIOUS DISEASES: CURRENT TRENDS, CHALLENGES AND ISSUES

VENUE: BALLROOM, IMPIANA HOTEL, IPOH, PERAK, MALAYSIA

DATE: TUESDAY 4TH DECEMBER 2012

TIME	PROGRAMME
1600	Registration of Participants
1930	Arrival of Invited Guests
1950	Arrival of Special Guests
1955	Arrival of Special Guest of Honour
2000	Welcome Cultural Dance
2015	Address by Organising Chairman  Prof Dr B Sinniah  Faculty of Medicine, Royal College of Medicine Perak, Ipoh, Malaysia Universiti Kuala Lumpur
2020	Address by Dean, Faculty of Medicine, Royal College of Medicine Perak, Universiti Kuala Lumpur and Advisor to the Conference Prof Dr Osman Ali
2030	Speech and Official Opening of Conference Special Guest of Honour Chairman Universiti Kuala Lumpur Y.Bhg. Dato Dr Adham Baba
2045	Dinner and Cultural Show





# Programme

DAY 2: THURSDAY 6<sup>TH</sup> DECEMBER 2012 VENUE: BALLROOM, IMPIANA HOTEL, IPOH, MALAYSIA

TIME	ORAL PRESENTATIONS
1400-1530	SESSION 8A: THEME: Malarial Parasites Chairperson: Assoc Prof Dr Myint Myint Soe Co-Chairperson: Dr Sabaridah Ismail
1400-1415 OP5-1	Spatial distribution of malaria in Peninsular Malaysia from 2000-2009.  Haridah Alias
1415-1430 0P5-2	System dynamics model in controlling malaria in east Java province – Indonesia.  R. Azizah
1430-1445 OP5-3	Proposal on Estimating Burden of Acquired Epilepsy due to Neurocysticercosis in Malaysia: Need, Strategy and Challenges.  Priyadarshi Soumyaranjan Sahu
1445-1500 0P5-4	Malaria Vulnerability Index (MVI) as Models of Malaria Risk Analyze of Dynamics Vector in Purworejo, Indonesia Mursid R
1500-1515 OP5-5	Investigation of Strongyloides stercoralis infection among cancer patients at Hospital Universiti Sains Malaysia using molecular, serological and parasitological techniques.  Zueter AM
1515-1530 375-6	Prevalence of pediculosis capitis and determination of risk factors in primary-school children in Myandarod in Sari, Mazandaran Province, 2011-2012.  Farzad Motevalli Haghi
1530-1600	Tea Break
1600-1730	SESSION 9A: THEME: Viral and Fungal Infections Chairperson: Assoc Prof Dr V. Gopalakrishnan Co-Chairperson: Dr Ibrahim Zubil
1600-1615 0P6-1	A system model which predicts potency of dengue in Central Jakarta, Indonesia, using global information system technology as the basic development of dengue early warning system.  Tazkia RAK
0P6-2	Dengue, temperature and rainfall: A lethal collusion?  Nur Sabrina CS
630-1645 0P6-3	First molecular characterization of imported dengue viruses into Nepal.  Shyam Prakash Dumre
645-1700 0P6-4	Investigation of Hepatitis A Outbreaks at SMKN 2 Depok, West Java on October 2011.  Muammar Musli
1700-1715 0P6-5	In vitro inhibitory activity of selected medicinal plants against Chikungunya virus infection.  Chan Sze Mun
0100	Secreted aspartyl proteinase (SAP) activity of <i>Candida tropicalis</i> isolated from immuno- compromised patients.  Nalina K