



INTROM REPORT 2013 / 2014

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1. INTRODUCTION

Inter-Islamic Network in Tropical Medicine (INTROM) is one of the eight Inter Islamic Network of COMSTECH (COMTECH is a Ministerial Standing Committee on Scientific and Technological Cooperation established under OIC).

INTROM was set up in 1987 and the Institute for Medical Research (representing the Ministry of Health Malaysia) is the focal point and secretariat for INTROM activities. INTROM member countries include Algeria, Egypt, Iraq, Malaysia, Niger, Pakistan, Senegal, Kingdom of Saudi Arabia and Turkey.

The mission of INTROM is in line with the mission of COMSTECH, that is to strengthen the individual and collective capacity of OIC member states in Science and Technology through mutual cooperation, collaboration and networking resources.

1.1 OBJECTIVES OF INTROM:

To promote the exchange of information on tropical medicine among Muslim countries,

To promote and undertake collaborative research projects in tropical medicine and its application for the Muslim world and

To organize, coordinate and collaborate training programs in tropical medicine among member countries and Muslim world.

2. MANAGEMENT

2.1 THE SECRETARIAT:

In 2010, there have been changes in the office bearers of the INTROM Secretariat, Dr. Shahnaz Murad the Director of IMR was the Executive Director of INTROM, taking over from Dr. Amal Nasir Mustafa. Dr. Amal Nasir Mustafa, is still a member of the secretariat as advisor to the secretariat. Dr Noor Rain Abdullah from the Herbal Medicine Research Centre, IMR was appointed as the Head of INTROM.

In 2014, with the promotion of the Director Dr Shahnaz Murad as the Deputy Director General of Health Malaysia, Dr. Zakiah Ismail the Head of Herbal Medicine Research Centre, IMR was appointed as the Acting Director of IMR in February 2014. She automatically assumed the portfolio of the Executive Director of INTROM.

2.2 THE ORGANIZATION OF INTROM IMR:

Executive Director of INTROM	Dr. Shahnaz Murad until February 2014 Dr. Zakiah Ismail from February 2014
Head of INTROM :	Dr. Noor Rain Abdullah
Secretary :	Dr. Nor Asiah Mohamed
Treasurer :	Dr. Noor Rain Abdullah
Members :	Dr. Zakiah Ismail Dr Amal Nasir Mustafa Dr. Nor Aini Abdullah Dr. Masita Arip Mr. Zamtira B Seman Mr. Mohd Zahari

2.3 BUDGET

For INTROM activities and Human Resource Development for the OIC member countries

Budget application / Year approval	Source of Funding	Amount Funding received 2014 RM/USD	Activities for
2013 / 2014	Ministry of Health Malaysia (MOH)	RM 110,000 / USD 34,351.00	INTROM
2013 / 2014	Ministry of Foreign Affairs Malaysia (MOFA), under the Malaysian Technical Cooperation Program (MTCP)	RM 153,000.00 / USD 47,843.10	INTROM
2013/2014	Ministry of Foreign Affairs Malaysia (MOFA), under the Malaysian Technical Cooperation Program (MTCP)	RM340,000.00 / USD 106,178.00	Supporting participation of OIC member countries in Diploma In Applied Parasitology and Entomology (DAP&E), a 5 months Post Graduate Diploma Course (collaborative research (part of INTROM objectives)

3. PROGRAMMES

3.1 INTROM WORKSHOP IN 2014

Title of Workshop : MTCP INTROM IMR COMSTECH WORKSHOP ON TROPICAL MEDICINE : EPIDEMIOLOGY AND IDENTIFICATION OF DENGUE VECTORS AND DETECTION OF THE VIRUS IN THE VECTORS AND IN HUMAN

Date : 8 Syawal 1435 – 22 Syawal 1435
4 August 2014 – 18 August 2014 (15 days)

Venue : Institute for Medical Research, Jalan Pahang, 50588, Kuala Lumpur

Organized by : Institute for Medical Research

Supported by : Ministry of Health Malaysia and Malaysian Technical Cooperation Programme (MTCP), Ministry of Foreign Affairs

3.1.1 INTRODUCTION

Dengue currently poses an increasing threat to over 2.5 billion people in over 100 tropical and sub-tropical countries around the world. The WHO estimates that there may be 50 million dengue infections worldwide resulting in 22,000 deaths each year. Dengue virus is transmitted to humans by the bite of an infected mosquito. The integration of both higher viremias for human and higher transmission rates for mosquitoes would have significant impact on the epidemiology of dengue diseases. Female *Aedes aegypti* mosquitoes are

the main vector involved in the urban transmission cycle of the dengue virus. Female mosquitoes remain infectious for their entire lives and have the potential to transmit virus during each human feeding. Mosquitoes and larvae may be infected by transovarian transmission and maintain the virus in nature. Spread of the mosquito vector and virus has led to a resurgence of dengue fever epidemics and the emergence of dengue haemorrhagic fever. It's believed the virus is maintained in the larval stage, as this can explain the sudden outbreak of dengue in highly urbanised area where primates (natural reservoir host) are totally absent.

Despite extensive research on vaccine development, there are at present no known methods of controlling dengue except by limiting the mosquito vectors. Virological surveillance, which involves the monitoring of dengue virus infection in humans, has been used as an early warning system to predict outbreaks. This approach however, is less effective since the virus is already circulating in the human population. A more effective approach is to detect the virus in the mosquitoes before it is introduced into the human population. This way, preventive vector control measures can be undertaken immediately to offset an outbreak. Furthermore, surveillance of mosquitoes infected with dengue viruses provides an early warning sign for risk of transmission in an area and the specific predominant circulating serotype in the vector population. Control programs can be prioritized and focused more effectively in specific localities.

Early steps should be taken in order to prevent future outbreaks, especially in tropical areas, where vectors are available. RT-PCR can be useful as an early detection warning system to detect infected mosquitoes in epidemic areas. Further characterization of mosquito in the endemic areas and their vector competence for dengue virus could also provide valuable information regarding the potential emergence of the viruses in human population.

The aim of the workshop is to assist participants from OIC member states the techniques / methodologies of identification of dengue vectors and detection of the virus in the vectors. The epidemiology of the vectors will be elaborated by participants in relation to their respective countries. In this way the participants will be able to understand the epidemiology of vectors in different countries. This will develop capacity building in this area and address the learning need and the requirements of managing control program or setting up laboratory capacity to support this needs.

3.1.2 WORKSHOP OBJECTIVES

To disseminate knowledge and create awareness on the different epidemiology of dengue vectors from all over the world (which will be contributed / shared by the participating countries)

To disseminate knowledge and capacity building on the different approaches on the identification of dengue vectors, specimen preservation, processing and shipment from dengue endemic areas to the laboratory for virus isolation and confirmation.

To disseminate knowledge and capacity building on the different approaches / technologies on the detection of dengue virus in the vectors,

To provide forum for participants to exchange knowledge and experiences in the subject. This will be achieved by presentation from each participant on the approached carried out in their respective countries.

To promote collaboration among OIC member countries on identification of dengue vectors and detection of the virus in the vectors.

3.1.3 LEARNING OBJECTIVES

At the end of this workshop, the participants were able to:

1. Identify dengue vectors in the field and in the laboratory,
2. Infecting mosquitoes with dengue virus in the laboratory,
3. Isolate and detect dengue virus from mosquitoes using conventional and molecular techniques,
4. Colonize dengue vectors,
5. Diagnosis of Dengue virus using conventional and molecular techniques,
6. Clinical manifestation of Dengue,
7. The molecular techniques that can be used in diagnosis,
8. Bio-safety and bio-security in dealing with infectious agents.

3.1.4 PARTICIPATION

We received applications from the following countries: Ghana (1), Sudan (5), Yemen (1), Palestine (2), Suriname (1), Somalia (2), Timor Leste (1), Indonesia (2) and Bangladesh (1). The applications were reviewed by review committee consisted of Puan Sharifah Ezneeda (Director of MTCP), Dr NoorRain Abdullah (Head of INTROM) and Dr Rohani Ahmad (Deputy Head of INTROM). The selection was approved by Dr Zakiah Ismail (Acting Director of IMR).

The successful applicants were from the applicants who are working and or have research in related subject of the workshop including public health officers, field entomologist and officers in disease surveillance and disease control. The successful applicants were from Ghana (1), Sudan (1), Suriname (1), Somalia (2), Yemen (1), Bangladesh (1) and Malaysia (4). However, applicant from Yemen cancelled his participation. There were four participants from Malaysia; sponsored by the Ministry of Health Malaysia. One participant from Philippines was sponsored by SEAMEO TROPED Network, Bangkok for the SEAMEO Credit Mobility Programme. The list of participants is in APPENDIX 1. There were also observers from IMR attending the workshop in some lectures related to their research field.

3.1.5 LECTURERS

The lecturers were experts in their areas of work, from Ministry of Health Malaysia. The list of lecturers was as in APPENDIX 2.

3.1.6 AGENDA

The workshop was conducted from 4th August until 18th August 2014 (15 days). The workshop agenda was organised by sessions.

The first session focus on the background (lectures) on related subjects; the Overview of Dengue and Its surveillance. Each of the participants presented their Country Report on Dengue.

The second session focused on the Epidemiology of Dengue: the determinants of disease and the host-agent-environment interactions; and the dynamic of disease transmission.

The third session focused on dengue vectors: the ecology and control of Dengue vectors.

The fourth session focused on the virus: clinical manifestation and diagnosis of Dengue among patients and interpretation of results

The fifth session is hands on practicals and demonstrations on identification of dengue vectors and quality assurance of dengue diagnosis.

The sixth session is demonstrations on molecular techniques used in studying of dengue vectors and detection of virus in the vectors: DNA & RNA extraction and PCR.

The agenda (time table) is as in APPENDIX 3. Pictures taken during the workshop are in APPENDIX 4.

3.1.7 DELIBERATION OF THE WORKSHOP

The workshop was conducted well. The participants and the lecturers discussed and deliberated on related subjects and issues with regards to approaches and tools in surveillance of dengue in their respective countries. The participants and lecturers shared information on policies, methodologies and approaches to surveillance and control of dengue. The lectures, laboratory hands-on and demonstration were carried out from 4th August until 18th August 2014. The organiser, represented by Dr Noor Rain, expressed the needs to maintain close communication for mutual cooperation in science and technology among Islamic countries.

3.2 POSTGRADUATE DIPLOMA COURSES

The Malaysian Government through its Malaysian Technical Cooperation Programme (MTCP), has sponsored OIC member countries participation in Diploma In Applied Parasitology And Entomology (DAP&E), 2013 and 2014.

Title of Courses : DIPLOMA IN APPLIED PARASITOLOGY AND ENTOMOLOGY (DAP&E)

Date of Courses Conducted : 15 July to 13 December 2013

Venue : Institute for Medical Research, Jalan Pahang, 50588, Kuala Lumpur, Malaysia

Organised by : Institute for Medical Research, Jalan Pahang, 50588, Kuala Lumpur.

Sponsors : Malaysian Technical Cooperation Programme (MTCP), Ministry of Foreign Affairs, Malaysia and Ministry of Health Malaysia

3.2.1 DAP&E 2013 (from 15 July to 13 December 2013)



There were fourteen participations from 10 countries, one each from Thailand, Vietnam, Philippines, Vanuatu, Ghana, Mongolia, Jordan, and Fiji, two each from Zimbabwe, Solomon Island, and Malaysia. Six applicants were funded by MTCP and they were from Jordan, Ghana, Mongolia and Zimbabwe, they are as listed in Appendix 5.




During the course, each student conducted a research projects in fulfilment for the Diploma in DAP&E 2014 course. The titles of projects conducted are listed in Appendix 6. All six MTCP students passed the examination and received Diploma of Applied Parasitology and Entomology. Three of them passed with Distinction and they were Ms. Zvifadzo Matsena (Zimbabwe), Mr. Emmanuel Munyaradzi Madzima (Zimbabwe) and Mr. Abass Abdul-Karim (Ghana).

3.2.2 DAP&E 2014 (from 14 July to 12 December 2014)





The Course is still continuing and will end on the 12 December 2014. MTCP sponsors 5 participants as listed in Appendix 7. Pictures Appendix 8.

**MTCP INTROM IMR WORKSHOP ON TROPICAL MEDICINE: EPIDEMIOLOGY AND IDENTIFICATION OF DENGUE
VECTORS AND DETECTION OF THE VIRUS IN THE VECTORS AND IN HUMAN
4 – 18 AUGUST 2014
INSTITUTE FOR MEDICAL RESEARCH KUALA LUMPUR
LIST OF PARTICIPANTS**

NO	NAME	ADDRESS	POSITION	EDUCATION BACKGROUND	PICTURE
1.	ABASS ABDUL-KARIM (GHANA)	Address: Zonal Public Health Laboratory, Tamale Teaching Hospital, P.O.Box TL 16, Tamale, Northern Region, Ghana Email: nanayawkomei@yahoo.com Tel: +233244571559 Passport: H2421718	Senior Biomedical Scientist	Post-Graduate Diploma of Applied Parasitology and Entomology (2013) MPHIL of Community Health (2010-2013) BSc in Microbiology (2005-2008)	
2.	KHALID BABIKER MOHAMMED AHMED (SUDAN)	Address: Ministry of Health South Darfour State, Sudan Email: shaybo1980@gmail.com Tel: +249-0905530792 +249-122632775 (home) Passport: C0063294	Public Health Officer	MSc of Medical Entomology (2012-2014) BSc of Public Health (2001-2005)	

3.	HAMOOD HEZAM QASEM AL-SHAMERI (YEMEN)	Address: General Administration for Disease Control & Surveillance, Ministry of Public Health & Population, Sana'a, Republic of Yemen Email: hhshaeri@yahoo.com Tel: 00967-1-300483 Fax: 00967-1-252234 Passport: YEM05367331	National Coordinator of Dengue Fever	PhD in Haematology & Immunology (2002-2006) BSc in General Medical Laboratories (1980-1984)	
4.	TREYANTI SISMA SOEKHOE (SURINAME)	Address: Rode Kruislaan No.22, Paramaribo, Suriname Email: treyantis@hotmail.com Tel: 00597497978 0059785074638 (Home) Fax: 00597491452 Passport: R1245575	Entomologist Assistant	BSc. Biology Post-Graduate Diploma of Applied Parasitology and Entomology (2010)	
5.	DR SAIF ULLAH MUNSHI (BANGLADESH)	Address: Department of Virology, Block B, Second Floor, Bangabandhu Sheikh Mujib Medical University, Kazi Nazrul Islam Avenue, Sahabag, Dhaka -1000 Bangladesh Email: saifmunshi@yahoo.com Tel: 8802861709 Passport: AE0020868	Associate Professor	PhD. Molecular Biology MPhil. Human Virology M.B.B.S Medicine	

6.	ABDURAHMAN ABDULLAHI IBRAHIM (SOMALIA)	Address: 2 nd Floor, Ex Ministry of Foreign Affairs Office, KM5, Afgoie Road, Mogadishu, Somalia Email: sabirsom@gmail.com Tel: 252-61-5274091 Passport: P00274785	Deputy of National HIV Program	BSc. Microbiology MPhil Medical Microbiology	
7.	QASSIM ABDI JIM'ALE (SOMALIA)	Address: 2 nd Floor, Ex Ministry of Foreign Affairs Office, KM5, Afgoie Road, Mogadishu, Somalia Email: jimaleak@gmail.com Tel: 252-61-8333141 Passport: P00156139	Head of Public Health Laboratory	BSc. Biology MSc. Public Health	
8.	NARCISSUS HENRY SUNDIN (MALAYSIA)	Address: Seksyen Kawalan Penyakit Bawaan Vektor Jabatan Kesihatan Negeri Sarawak Jalan Diplomatik, Off Jalan Bako 93050 Petra Jaya, Kuching Sarawak Email: narcissus_sundin@yahoo.com.my	Science Officer (Entomologist)	BSc	

9.	Ms. LAU SAI MING (MALAYSIA)	Address: Makmal Kawalan Penyakit Bawaan Vektor, Blok C, Jalan Langat, 41200 Bandar Botanik, Klang. Email: flausm@yahoo.com.my or lau.sm@moh.gov.my	Science Officer (Entomologist) Vector Borne Disease Control Laboratory	BSc	
10.	MOHD HISYAMUDIN ABD HAPIS (MALAYSIA)	Address: Pejabat Kesihatan Daerah Seremban, Jalan Lee Sam, 70590 Seremban Email: mhisyamudin@moh.gov.my	Science Officer (Entomologist)	BSc	
11.	FATIMAH BINTI IBRAHIM (MALAYSIA)		Science Officer (Entomologist)	BSc	
12.	DIANNE MELODY DE ROXAS (PHILIPPINES)	Address: College of Public Health University of Philippines Manila 625 Pedro Gil Street, Ermita, Manila 1000 Philippines Email: dmderoxas@gmail.com Tel: 09353579585 Fax: - Passport: EC1721225	Student	BS Public Health Master of Science in Public Health- Medical Microbiology (ongoing) University of the Philippines-Manila	

LIST OF LECTURERS FOR INTROM WORKSHOP ON DENGUE

1. Dr. Zailiza Suli
Ministry of Health Malaysia
Aras 12, Blok E7, Kompleks E,
Pusat Pentadbiran Kerajaan Persekutuan
62590 Putrajaya
2. Dr. Rose Nani Mudin
Head of Vector Borne Disease
Ministry of Health Malaysia
Aras 12, Blok E7, Kompleks E,
Pusat Pentadbiran Kerajaan Persekutuan
62590 Putrajaya
3. Dr. Amal Nasir Mustafa
Head of Medical Resource Research Centre
(MRRC)
Institute for Medical Research
50588, Jalan Pahang, Kuala Lumpur
4. Dr. Ahmad Faudzi Yusoff
Head of Epidemiology Unit
Medical Resource Research Centre (MRRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
5. Dr. Zainah Saat
Head of Virology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
6. Dr. Ravindran Thayam
Virology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang, Kuala Lumpur
7. Dr. Lee Han Lim
Head of Medical Entomology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
8. Dr. Saiful Safuan Md. Sani
Pakar Perubatan, Jabatan Perubatan,
Hospital Kuala Lumpur
50588, Jalan Pahang,
Kuala Lumpur
9. Dr. Mohd Khadri Shahar
Medical Entomology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
10. Dr. Rohani Ahmad
Entomology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
11. Dr. Apandi Yusof
Virology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
12. Dr. Soobitha Subenthiran
Bioassay Unit
Herbal Medicine Research Centre (HMRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
13. Dr. Nazni Wasi Ahmad
Entomology Unit
Infectious Disease Research Centre (IDRC)
Institute for Medical Research
50588, Jalan Pahang, Kuala Lumpur
14. Dr. Noor Rain Abdullah
Bioassay Unit
Herbal Medicine Research Centre (HMRC)
Institute for Medical Research
50588, Jalan Pahang,
Kuala Lumpur
15. Dr. Mohd Ridzuan Mohd Abd Razak
Bioassay Unit
Herbal Medicine Research Centre (HMRC)
Institute for Medical Research
50588, Jalan Pahang, Kuala Lumpur

**MTCP INTROM IMR WORKSHOP ON TROPICAL MEDICINE: EPIDEMIOLOGY AND DETECTION OF DENGUE VIRUS IN THE VECTORS AND
IN HUMAN
INSTITUTE FOR MEDICAL RESEARCH (IMR), KUALA LUMPUR
4 - 18 AUGUST 2014 (15 DAYS)**

TIME TABLE

4 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Registration	En. Mohd Zahari Bin Tajul Hassan
0900-1030	Welcome Note Pengarah (Executive Director INTROM)	Dr. Zakiah Ismail
1030-1100	TEA BREAK	
1100-13.00	Overview of Vector Borne Diseases (Lecture)	Datuk Dr Lokman Hakim Sulaiman
1300-1400	LUNCH	
1400-1500	The Principles of Dengue Surveillance System in Malaysia (Lecture)	Dr. Rose Nani Mudin
1500-1600	Dengue Vector Control Programme in Malaysia (Lecture)	Dr. Rose Nani Mudin
1600-1615	TEA BREAK	
1615-1730	Introduction of students / ICE BREAKING	All lecturers , facilitators and other staff present

5 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	The Principles of Dengue Transmission (to include Basic Epidemiology) (Lecture)	Dr. Amal Nasir Mustafa

0900-1030	Refresh on Biostatistics	Dr. Ahmad Faudzi Yusoff
1030-1100	TEA BREAK	
1100-1200	Epidemiological Measures I (Lecture)	Dr. Amal Nasir Mustafa / Dr. Ahmad Faudzi Yusoff
1200-1300	Epidemiological Measures II(Lecture)	Dr. Amal Nasir Mustafa / Dr. Ahmad Faudzi Yusoff
1300-1400	LUNCH	
1400-1500	Dengue Outbreak Investigation I(Lecture)	Dr. Ahmad Faudzi Yusoff
1500-1600	Dengue Outbreak Investigation II(Lecture)	Dr. Ahmad Faudzi Yusoff
1600-1615	TEA BREAK	
1615-1730	Epi Info (Lecture & Hands on)	Dr. Ahmad Faudzi Yusoff Facilitator: Pn. Sumarni Mohd Ghazali, Pn. Nuur Hafizah Md Iderus, En. Zamtira Seman

6 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Epi Info (Lecture & Demonstration)	Dr. Ahmad Faudzi Yusoff Facilitator: Pn. Sumarni Mohd Ghazali, Pn. Nuur Hafizah Md Iderus, En. Zamtira Seman
0900-1030	Epi Info (Lecture & Hands On)	Dr. Ahmad Faudzi Yusoff Facilitator: Pn. Sumarni Mohd Ghazali, Pn. Nuur Hafizah Md Iderus, En. Zamtira Seman
1030-1100	TEA BREAK	
1100-1300	Simulation on Outbreak Investigation (Hands on and Exercises)	Dr. Ahmad Faudzi Yusoff
1300-1400	LUNCH	
1400-1500	Country Report (10 minutes per person)	All Participants
1500-1600	TEA BREAK	

1600-1615	Country Report (10 minutes per person)	All Participants
1615-1730	Epi Info (Lecture & Demonstration)	Dr. Ahmad Faudzi Yusoff Facilitator: Pn. Sumarni Mohd Ghazali, Pn. Nuur Hafizah Md Iderus, En. Zamtira Seman

7 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Introduction to Dengue Virus (Lecture)	Dr. Zainah Saat
0900-1030	Current Laboratory Diagnosis of Dengue (Lecture)	Dr Ravindran Thayan
1030-1100	TEA BREAK	
1100-1200	Dengue Vectors and its Surveillance (Lecture)	Dr Lee Han Lim
1200-1300	Clinical Manifestation of Dengue Infection (Lecture)	Dr. Saiful (Hospital Kuala Lumpur)
1300-1400	LUNCH BREAK	
1400-2000	Field trip	
	Preparation for Field Work to Collect <i>Aedes</i> Mosquito (Briefing at Lab of what to do during field work)	Dr Khadri MH
	Field work to collect <i>Aedes</i> – Adult Survey/ Larval/Pupal Survey/Ovitraping	Dr Khadri MH, Mr Azahari AH, Mr Mohd Ariffin, Mr Mohd Shakirudin, Mr Hasmizam, Mr Mohd Hanif and Mr Zuhaizam

8 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Dengue Infections and Multiplication in Mosquito (Lecture)	Dr Lee Han Lim
0900-1030	Arthropod Containment and Colonization of <i>Aedes</i> (Lecture)	Dr Khadri MH
1030-1100	TEA BREAK	
1100-1200	Visit to Insectarium	Dr Khadri MH
1200-1300	LUNCH BREAK	
1300-1430	FRIDAY PRAYERS	
1430-1630	Sorting and Identification of Mosquitoes Collected From Field for PCR and Cell Culture (Practical)	Mr. Azahari AH, Mr Mohd Hanif, Mr. Aidil Azahari
1630-1645	TEA BREAK	
1645-1730	Sorting and Identification of Mosquitoes Collected From Field for PCR and Cell Culture (Practical)	Mr. Azahari AH, Mr Mohd Hanif, Mr. Aidil Azahari

9 AUGUST 2014

TIME	SUBJECT	LECTURER
9.00 – 2.00 pm	PUTRAJAYA CITY VISIT AND CRUISE TOUR	En. Muhammad Nor Farhan, Ms. Nor Azrina Norahmad, En. Nicholas Gagah, Mr. Siau Azien

11 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Introduction to Polymerase Chain Reaction (PCR) (Lecture)	Dr. Ravindran Thayan
0900-1030	DNA & RNA Extraction: Principle, Qualitative and Quantitative Method (Lecture)	Dr. Ravindran Thayan
1030-1100	TEA BREAK	
1100-1200	PCR: Primer design and Trouble shooting	Dr. Ravindran Thayan
1200-1300	Introduction to Real time RT-PCR – Multiplex Assay (Lecture)	Dr. Ravindran Thayan
1300-1400	LUNCH BREAK	
1400-1500	NS1 – Test Kit for Dengue Virus Detection (DEMO)	Dr. Ravindran Thayan
1500-1600	Artificial Feeding of Laboratory Mosquitoes with Dengue Virus and Maintenance of Dengue Infected Mosquitoes (DEMO)	Dr. Rohani, Mr. Chandru, Mrs. Wan Najdah and Ms Amizah
1600-1615	TEA BREAK	
1615-1730	Colonization of Laboratory Infected Mosquitoes	Dr. Rohani, Mr. Chandru, Mrs. Wan Najdah and Ms Amizah

12 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Principles of Cell Culture (Lecture)	Dr Apandi Yusof
0900-1030	View of CPE for viral multiplication (Lecture & Demo)	Dr Apandi Yusof
1030-1100	TEA BREAK	

1100-1300	Preparation of Cell Culture for virus isolation	Dr. Rohani, Mrs. Wan Najdah, Mr Mohd Hanif
1300-1400	LUNCH BREAK	
1400-1600	Isolation of Dengue Virus From Mosquito Samples by Inoculation into C6/36 Cell Culture (Practical)	Dr. Rohani, Mrs. Wan Najdah, Mr Mohd Hanif
1600-1615	TEA BREAK	
1615-1730	Isolation of Dengue Virus From Mosquito Samples by Inoculation into C6/36 Cell Culture (Practical)	Dr. Rohani, Mrs. Wan Najdah, Mr Mohd Hanif

13 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-1300	Visit to Malaysian Technical Cooperation Programme (MTCP), Ministry of Foreign Affairs, Malaysia.	Dr. Noor Rain Abdullah
1300-1400	LUNCH BREAK	
1400-1600	RNA Extraction of Dengue Virus From Human Samples (Practical)	Dr. Ravindran Thayan, Mr Khairul Izwan Hulaimi
	RNA Extraction of Dengue Virus from Mosquito Sample PCR (Practical)	Dr. Rohani, Mrs. Wan Najdah, Mr Aidil Azahari, Umi Rubiah Sastu, Nur Fasihah Amir Jalaluddin
1600-1615	TEA BREAK	
1615-1730	RNA Extraction of Dengue Virus From Human Samples (Practical)	Dr. Ravindran Thayan, Mr Khairul Izwan Hulaimi
	RNA Extraction of Dengue Virus from Mosquito Sample PCR (Practical)	Dr. Rohani, Mrs. Wan Najdah, Mr Aidil Azahari, Umi Rubiah Sastu, Nur Fasihah Amir Jalaluddin

14 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	PCR: Gel Electrophoresis and trouble-shooting (Lecture)	Dr. Ravindran Thayan

0900-1030	Real Time RT-PCR for Dengue Viruses(Demo)	Dr. Ravindran, Dr Ridzuan, Mr Khairul Izwan Hulaimi, Mr Chandru
1030-1100	TEA BREAK	
1100-1200	Real Time RT-PCR and Data Analysis (Demo)	Dr. Ravindran, Dr Ridzuan, Mr Khairul Izwan Hulaimi, Mr Chandru
1200-1300	Quantify DNA by Nano Drop (Demo) The Use of Bioanalyser in Gel Electrophoresis and DNA Quantification	Dr. Noor Rain Abdullah, Dr. Mohd Ridzuan MAR En. Muhammad Nor Farhan Saat Ms. Umi Rubiah Sastu,
1300-1400	LUNCH BREAK	
1400-1500	The use of <i>Carica papaya</i> leaves juice as a supportive treatment in Dengue Fever and Dengue Haemorrhagic fever	Dr. Soobitha Subenthiran
1500-1600	Preparation of Conventional PCR Amplification on mosquitoes and human samples	Dr. Ravindran Thayan, Dr Rohani, Mrs. Wan Najdah Mr. Aidil Azahari, Umi Rubiah Sastu, Nur Fasiah Amir Jalaluddin
1600-1615	TEA BREAK	
1615-1730	Preparation of Conventional PCR Amplification on mosquitoes and human samples	Dr. Ravindran Thayan, Mrs. Wan Najdah Mr. Aidil Azahari, Umi Rubiah Sastu, Nur Fasiah Amir Jalaluddin

15 AUGUST 2014

TIME	SUBJECT	LECTURER
0800-0830	Specimen Preservation, Processing and Shipment (Lecture)	Dr. Nazni Wasi Ahmad
0900-1030	Trouble shooting on PCR assay (Lecture)	Dr Ravindran Thayan
1030-1100	TEA BREAK	
1100-1200	Preparation of gel electrophoresis for the conventional PCR (Practical)	Dr Rohani, Mrs. Wan Najdah Mr. Aidil Azahari MN Farhan, Umi Rubiah Sastu,
1200-1300	LUNCH BREAK	

1300-1430	FRIDAY PRAYER	
1430-1630	Gel electrophoresis: loading of samples	Dr Rohani, Mrs. Wan Najdah Mr. Aidil Azahari, MN Farhan, Umi Rubiah Sastu
1630-1645	TEA BREAK	
1645-1730	Gel documentation	Dr Rohani, Mrs. Wan Najdah Mr. Aidil Azahari, MN Farhan, Umi Rubiah Sastu

16 AUGUST 2014

TIME	SUBJECT	LECTURER
9.00 – 2.00 pm	Kuala Lumpur Petronas Twin Tower	En. Muhammad Nor Farhan, En. Nicholas Gagah



18 AUGUST 2014




TIME	SUBJECT	LECTURER
0800-1030	Q and A	
1030-1100	TEA BREAK	
1100-1200	Discussion and Course Evaluation, NETWORKING (Discussion)	Dr. Zakiah Ismail, Dr. Noor Rain Abdullah, Dr. Amal Nasir Mustafa, Dr. Nazni Wasi Ahmad, Dr. Khadri SH
1200-1300	LUNCH BREAK	
1300-1430	Presentation of Certificate and Closing Ceremony	Dr. Zakiah Ismail

DAP&E 2013 RESEARCH PROJECT

NO.	PROJECT TITLES	Students
1.	Establishment of genetic barcodes for some potential hosts of hard ticks (Acari: Ixodidae)	Mr. Tsolmon Amartuvshin (Mongolia)
2.	Use of sticky trap to control the house fly, <i>Musca domestica</i> (L.) (Diptera) in a buffalo milking farm.	Ms. Nurul Asyikin bt Roslan (Malaysia)
3.	Behavioural response of <i>Aedes</i> Mosquito using single tunnel cage on synthetic semiochemicals.	Mr. Mau Charles (Solomon Islands)
4.	Effects of thermal fogging activities on hatchability and survivorship of <i>Aedes</i> eggs.	Mr. Taraumae Peter (Solomon Islands)
5.	In vitro anti-plasmodial activity of selected Malaysian medicinal plant extracts	Mrs. Matsena Zvifadzo (Zimbabwe)
6.	In Vitro Cultivation of <i>Wolbachia pipientis</i> isolate	Mr. Vineshwaran Rama (Fiji Islands)
7.	Development of IMR Autocidal Trap II as a tool in dengue vector control	Miss Nur Ziana bt Abdulah Sani (Malaysia)
8.	Bioefficacy of lifenets® against <i>Anopheles maculatus</i> , <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i>	Mr. Do Van Nguyen (Vietnam)
9.	Residual Efficacy of Lots of VectoBac WG (alternate media) By Spray Application.	Mr. Roger Jimmy (Vanuatu)
10.	Invitro effect of the seaweed extracts toward mosquito detoxification enzymes	Mrs. Preeyante Dathong (Thailand)
11.	Conventional stain vs Fluorescent Stain for Staining of Selected Parasites in the Laboratory	Mrs. Noveno S. Venus (Philippines)
12.	Possible foodborne disease: Exposure of Parasite on meat obtained from abattoirs in Kuala Lumpur.	Mr. Majed Hazza Alhawoasha (Jordan)
13.	Zoonotic parasites of rodents captured in the Chow Kit area, Kuala Lumpur	Mr. Emmanuel Madzima (Zimbabwe)
14.	Study of <i>P. falciparum</i> Merozoite surface protein 1 (MSP-1), Merozoite surface protein 2 (MSP 2) and Glutamate Rich Protein (GLURP) polymorphic genes on positive malaria infected non-clinical sample from Kota Marudu, Sabah.	Mr. Abbas Abdul Karim (Ghana)

LIST OF DAP&E 2014 STUDENTS UNDER MTCP

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5.	<p>Majhalia Torno</p> 	PHILIPPINES	<p>Research Institute for Tropical Medicine, Filinvest Corp. City, Alabang, Muntinlupa City 1780 Email: majhalia@yahoo.com or majhtorno@gmail.com</p>