



# ANNUAL NEWSLETTER

DEPARTMENT OF PARASITOLOGY  
FACULTY OF MEDICINE  
UNIVERSITY OF MALAYA

ISSUE 6

2016



# HOD FOREWORD



Another year has passed. It was too fast! But when you are having fun, we don't notice the time passing. Fun at an office environment! This can be a paradox. The usual duties of teaching, research and providing diagnostic service remains the core business of our department. All members of the Department including the academic and non-academic staff have contributed excellently in these three areas.

One of the most important attribute to know if a Department is doing well is the demonstration of seamless operation without hiccups, flawless relationship between members which does not cause disharmony and discord between members as well as possessing the right zeal to aspire for excellence in research and other academic duties.

Our department went up in the ranking of publications placing us between 3<sup>rd</sup> to 5<sup>th</sup> positions whenever the rankings between departments gets announced at the monthly Faculty meetings. This gives us pride and the strength to continue our efforts to publish worthy our parasitological endeavors in the prestigious ISI journals.

Our department's teaching deployment was further enhanced with frequent curriculum meetings to infuse refined and updated versions of the content. We had the added responsibility of looking into providing elective courses for non-medical students and we found this really enjoyable as we had to stretch our imagination to capture the heuristic aspects of Parasitology in order not to bore the new students with details.

Real success is when the Department rallies its members to go beyond terms of reference defined by duty and responsibility. Our department like in the past years continued with the zeal to spread the intention to raise animal awareness. The continuous inspiration offered by Assoc Prof Dr Veranoort in this area must be applauded. More organizations have come forward to support the Department for this intention and we have since its inception have organized 9 Animal Awareness programme.

The inter-varsity Parasitology quiz and oratorical competition, a wild idea, materialized only with the co-operation of dedicated members of the Department. Universities responded and the quiz was a smash hit with each team racing to answer questions which ranged from the most simple and basic fundamental aspects of Parasitology to the most complex requiring deeper thinking and reflection. What is important is that the competition provided credible evidence that innovative approaches must be created to make our subjects more interesting to students. We must thank Assoc Prof Dr Tan Tian Chye for taking a lead in this venture. This competition is being planned for 2017 and we are sure more teams will come forward.

What use is of all the paper publications and the knowledge academicians carry if they are not translated to the common man? A bold idea emerged! Can we academicians and researchers sit with common members of the public to work out an action plan in order to overcome the challenges of tropical diseases and in this case dengue? Dreams can be many but the fuel to make it happen lies in the conviction and support of team members of a department. We again applaud the spirit of teamwork at the Department of Parasitology when it rose to the challenge of organizing our first public dengue workshop led by Prof Datin Indra and Dr Wan Yusoff. Our experts led the discussion and demonstrated the innovative approach to address the Dengue issue. The feedback forms hailed praises for the efforts and we thank the Jabatan Perpaduan Negara dan Integrasi Nasional for identifying Rukun Tetangga leaders from areas that were prone to the Dengue problems to attend the workshop. It is our desire that other departments in the Faculty and the University venture out seriously to make their existence more relevant to the needs and concerns of the society at large.

Months passed and as the year was about to end, the Department in a fitting finale to 2016 organized the first ever Parasitology Curriculum Review Meeting where more than 40 representatives from 20 institutions participated. We discovered institutions differed in the Parasitology teaching curriculum and everyone agreed that there was a need to standardize to some degree. Intense workshop sessions managed to harmonize expectations and at the end of the day we managed to come to a consensus. We agreed to form a Network of Parasitology Educators (NOPE) and park it under the Malaysian Society of Parasitology and Tropical Medicine (MSPTM). There was no reason for our Department to embark on this fastidious journey but again it was an attempt to show that a Department must move beyond its normal functions and be actively engaged to not only become a positive contributor but be a change agent.

# HOD FOREWORD

Whether it was Associate Prof Dr Lau Yee Ling's concern and care for the Animal satellite room and its functions or Dr Amirah's meticulous concern for sustaining the excellent quality that the Department has achieved every member of the Department has tirelessly worked towards the success of the Department.

It gives us pride to know that leadership from several members of our Department have been summoned by the Faculty and the University as a whole to support various activities. Our Prof Dr Fong Mun Yik was appointed to be the Deputy Director of Pusat Pengurusan dan Penambahbaikan Kualiti (QMEC); Prof Dr Yvonne Lim Ai Lian as Deputy Dean; Assoc Prof Dr Zurainee Mohamed Nor, Head, Student Empowerment & Research Unit (SERU); Dr Wan Yusoff Wan Sulaiman, Building Management at the Faculty of Medicine; Assoc Prof Dr Tan Tian Chye as Head of EM unit and Assoc Prof Dr Lau Yee Ling who plays multiple roles i.e at the University Level: Committee member of The Universiti Malaya (UM) Institutional Biosafety and Biosecurity Committee (IBBC) and IPPP Grant Evaluation Panel Member at the Faculty Level, Science Cafe Coordinator, Committee member of Quality Management, Committee Member of Animal Experimental Unit as well as the Deputy Chief Editor of The Journal of Health and Translational Medicine (JUMMEC).

Our clinical expertise from our Prof Dr Rohela, UMMP Stage II Coordinator and Dr Amirah, Department's Quality Coordinator continues to position the department to offer clinical advice and consultation related to parasitological diseases. Dr Amirah's lecture to the clinicians some months back will hopefully set the trend to remain relevant to the clinical community especially in updating the new information pertaining to clinical parasitology.

We welcome Dr Cheong Fei Wen to our family and her already enthusiastic willingness to take on responsibility especially in managing this newsletter is applauded.

We thank Dr Aishah for expanding the borders of Parasitology to include other important aspects of science including Developmental Biology as well as Assoc Prof Dr Init's continuous zeal to make environment a critical component of her research which also confers recognition to our department. And we cannot forget the enthusiasm of Dr Romano who has moved forward to take responsibility of many initiatives in the Department.

Plodding along without any lime light or asking for anything extra are our office staff members i.e Ms Mazni and En Afiffudin. What keeps the ship moving are the unseen nuts and bolts which really without the ship would sink. We thank them with folded palms.

Without our support staff we may not have embraced many achievements. Over and above the regular duties they have attended courses such as Basic Microscopy Knowledge and Basic Microscopy Cleaning Best Practices organized by Matrix Optics (M) Sdn Bhd; Biosafety Awareness Programmes organized by Department of Medical Microbiology; Basic Laboratory Safety Training organized by OSH FOM Committee; Responsible Care and Use of Laboratory Animal Course (RCULAC) organized by Animal Experimental Unit.

We had two international visitors Dr Bruce Malcom Russel from the Laboratory of Malaria Immunobiology, Singapore Immunology Network (SIgN) and Prof Dr Georges Snounou from Faculte De Medicine Pitie-Salpetriere, Universite Piere & Marie Curie.

What is our vision? The collaborative efforts between the Departments of Microbiology and Parasitology are evident in the joint meetings to establish cooperation in the teaching, research and diagnostic services.

Our efforts last year in organizing four reach out programmes is the evidence that the department is ready to spring away from the call of the usual duties and responsibilities to make itself relevant for a larger cause. We must expand our horizon and go beyond the nation to regions where parasitology and tropical medicine seriously changes the economic and social landscapes. Too often global problems persist because of our lack of imagination to collaborate and cooperate with multiple stakeholders to make an impact. We must set our eyes on the Asean front and expand our expertise to involve and train many students from these neighboring countries. We must champion translational research and bring information to the community and in this regard will collaborate with greater intensity with Ministry of Health and other relevant ministries to improve the quality of life.

Lastly the destination when we reach should be as enjoyable as the ride to reach there. I take this opportunity to thank everyone in this Department for really being role model academicians and researchers who have so seamlessly collaborated to bring this many achievements and success. May we continue!

Prof. Dr. Suresh Kumar  
Head of Department

# ACADEMIC STAFFS



1. **A/P Dr. Tan Tian Chye**  
tantianchye@um.edu.my/03-7967 4753
2. **A/P Dr. Init Ithoi**  
init@um.edu.my/03-7967 4767
3. **Dr. Noraishah Mydin Abdul Aziz**  
noisha@um.edu.my/03-7967 4790
4. **Prof. Dr. Yvonne Lim Ai Lian**  
limailian@um.edu.my/03-7967 4748
5. **Dr. Amirah Amir**  
amirahamir@um.edu.my/03-7967 4752
6. **Dr. Cheong Fei Wen**  
fwcheong18@um.edu.my/03-7967 4790
7. **Prof. Dr. Fong Mun Yik**  
fongmy@um.edu.my/03-7967 4755
8. **Prof. Dr. Rohela Mahmud**  
rohela@um.edu.my/03-7967 4746
9. **Prof. Dr. Suresh Kumar P Govind**  
suresh@um.edu.my/03-7967 4743
10. **Prof. Datin Dr. Indra Vythilingam**  
indrav@um.edu.my/03-7967 4747
11. **Dr. Wan Yusoff Wan Sulaiman**  
wanyus@um.edu.my/03-7967 5732
12. **Dr. Romano Ngui**  
romano@um.edu.my/03-7967 4978
13. **A/P Dr. Lau Yee Ling**  
lauyeeling@um.edu.my/03-7967 4749
14. **A/P Dr. Zurainee Mohamed Nor**  
zuraineemn@um.edu.my/03-7967 5734
15. **A/P Dr. Veeranoot Nissapatorn**  
veeran@um.edu.my/03-7967 6618

# SUPPORT STAFFS

1. Mazni Mohamed Ali  
Administrative Assistant
2. Mohd Afiffudin Mohd Ali  
Administrative Assistant
3. Farikha Sarip  
Medical Laboratory Technologist  
(PPUM staff)
4. Mohd Redzuan Ahmad Naziri  
Medical Laboratory Technologist
5. Rohani Ali  
Pembantu Am Pejabat
6. Wan Hafiz Wan Ismail  
Medical Laboratory Technologist  
(PPUM staff)
7. Sharifah Nor AkmarSyed Mohd  
Medical Laboratory Technologist
8. Abd. Kaharmuzakir Ismail  
Science Officer
9. Mohd Sazalle Jamil  
Pembantu Am Pejabat
10. Hasidah Omar  
Medical Laboratory Technologist  
(PPUM staff)
11. Khatijah Hj Othman  
Medical Laboratory Technologist



# POSTGRADUATE STUDENTS

## FACTS ABOUT PARASITES

|    |           |                                     |
|----|-----------|-------------------------------------|
| 1  | MGN150001 | Adibah Binti Sahmat                 |
| 2  | MGN120058 | Aidil Azahary Bin Abdul Rahman      |
| 3  | MGN120057 | Fatin Nur Elyana                    |
| 4  | MGN150043 | Lim Khai Lone                       |
| 5  | MGN140062 | Mohamad Azlan Bin Abd. Majid        |
| 6  | MGN130029 | Mohamad Hafiz Bin Abd Basher        |
| 7  | MGN140027 | Mohammad Behram Khan                |
| 8  | MGN140057 | Mona Abdullah Mohammed Al-Areeqi    |
| 9  | MGN130019 | Narong Jaturas                      |
| 10 | MGN130014 | Noor Afizah Ahmad                   |
| 11 | MGN160016 | Nur Amirah Hassan                   |
| 12 | MGN140047 | Renuka A/P Gunasekaran              |
| 13 | MGN160014 | Shairah Dzul                        |
| 14 | MGN160003 | Sheela Devi A/p Sugadan             |
| 15 | MGN130059 | Siti Waheeda Binti Mohd. Zin @ Zain |
| 16 | MGN140053 | Tooba Mahboob                       |
| 17 | MHA120075 | Aida Syafinaz Binti Mokhtar         |
| 18 | MHA130072 | Amal R Nimir                        |
| 19 | MHA160007 | Azdayanti Muslim                    |
| 20 | MHA150049 | Arutchelvan Rajamanikam             |
| 21 | MHA150050 | Gaythri A/P Thergarajan             |
| 22 | MHA140030 | Goh Xiang Ting                      |
| 23 | MHA120057 | Jeremy Ryan De Silva                |

|    |           |   |
|----|-----------|---|
| 24 | MHA140016 | Jonathan Liew Wee Kent                    |
| 25 | MHA130077 | Junaid Olawale Quazim                     |
| 26 | MHA120031 | Lai Meng Yee                              |
| 27 | MHA130061 | Lau Sai Ming                              |
| 28 | MHA140062 | Leong Cherng Shii                         |
| 29 | MHA110051 | Lina Mohammed Qaid Al-Areeqi              |
| 30 | MHA160019 | Manal Ali Saleh                           |
| 31 | MHA150008 | Muhammad Aidil Bin Roslan                 |
| 32 | MHA130080 | Nabil Ahmed Mohammed Nasr                 |
| 33 | MHA140038 | Norashikin @ Suzani Bt Mohd Shaharuddin   |
| 34 | MHA120003 | Norashiqin Binti Misni                    |
| 35 | MHA100059 | Omar Abdullah Ali Bamaga                  |
| 36 | MHA130019 | S.J.Lahvanya Raoov A/L Subramaniam        |
| 37 | MHA120074 | Salwa Shehu Dawaki                        |
| 38 | MHA130042 | Seyedeh Zahra Rouhani Rankouhi            |
| 39 | MHA150029 | Sonal Girish                              |
| 40 | MHA140009 | Sylvia Joanne                             |
| 41 | MHA140017 | Tengku Idzzan Nadzirah Binti Tengku Idris |
| 42 | MHA150047 | Vinnie Siow Wei Yin                       |
| 43 | MHA120036 | Wahib Mohammed Mohsen Atroosh             |
| 44 | MHA150016 | Wan Najdah Binti Wan Mohamad Ali          |
| 45 | MHA130026 | Wong Meng Li                              |
| 46 | MHA120062 | Yap Nan Jiun                              |

*Parasites are the most common form of life on Earth. Scientists believe that over 80% of all living things are parasites.*

*The most deadly human parasites are protozoa, single-celled organisms. They have brought humans more misery and death than anything else in history, including wars and famine.*

*Allegedly, the longest tapeworm ever found inside a human was 25 metres long. Tapeworms can live in humans for more than 25 years.*

*Toxoplasma parasite caused changes in the brains of mice that made them lose fear of cat odors permanently and thus easy prey for cats. Once the parasite is in the cat, it's home sweet home and time to multiply.*

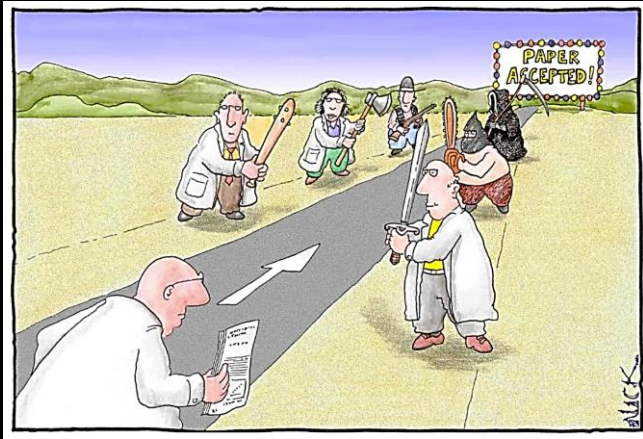
*Some thinkers have suggested that humans should be considered parasites because of the way that we over-consume the available resources on our host planet, Earth.*



# RESEARCH GRANTS

| No | Project Title   | Grant Type/No.                                    | Principal Investigator             | Amount (RM)  | Period                |
|----|---|---|------------------------------------|--------------|-----------------------|
| 1  | Binding affinity of Duffy Binding Protein (PkDBP II) of <i>Plasmodium knowlesi</i> clinical isolates from Peninsular Malaysia and Sabah & Sarawak   | BKP/BK013-2016                                    | Dr. Amirah Amir                    | 43,200.00    | 16/03/2016-16/03/2018 |
| 2  | Does genetic polymorphism in the <i>Plasmodium knowlesi</i> duffy binding protein (PkDBP) contribute to increased erythrocyte invasion of this malaria parasite?                              | FRGS/FP036-2015A                                  | Prof. Dr. Fong Mun Yik             | 139,200.00   | 02/11/2015-01/11/2017 |
| 3  | Epidemiological And genetic studies on some zoonotic parasitic infections in Malaysia And Yemen: Implications for effective control programmes  | UMRG-AFR/RG331-15AFR                              | A/P Dr. Hesham MS Al-Mekhlafi      | 96,000.00    | 21/01/2015-11/02/2017 |
| 4  | Health education learning package to control intestinal parasitic infections among orang asli school children in Peninsular Malaysia  | RU grant/ RU004X-2016                             | A/P Dr. Hesham MS Al-Mekhlafi      | 20,425.00    | 28/04/2016-31/12/2016 |
| 5  | Dynamics Of Wolbachia On <i>Aedes albopictus</i> in reference To Dengue Virus   | PPP/PG148-2014B                                   | Prof. Dafin. Dr. Indra Vythilingam | 22,000.00    | 26/03/2015-26/03/2016 |
| 6  | Sticky traps and dengue NS1 antigen rapid test for entomological surveillance of adult <i>Aedes</i> mosquito at dengue hotspot locality in Selangor   | PPP/PG192-2015A                                   | Prof. Dafin. Dr. Indra Vythilingam | 17,000.00    | 29/11/2015-29/11/2018 |
| 7  | Detection of resistance status of <i>Aedes aegypti</i> (Linnaeus) from Selangor using bioassays, biochemical and molecular tools  | PPP/PG004-2015A                                   | Prof. Dafin. Dr. Indra Vythilingam | 22,700.00    | 20/10/2015-20/10/2018 |
| 8  | Study on interactions of co-infection of filarial and malaria parasites in murine model   | PPP/PG139-2014B                                   | Prof. Dafin. Dr. Indra Vythilingam | 19,900.00    | 25/03/2015-25/03/2018 |
| 9  | Molecular epidemiology of simian malaria vectors with special reference to the <i>Anopheles leucosphyrus</i> group  | PPP/PG105-2014A                                   | Prof. Dafin. Dr. Indra Vythilingam | 13,000.00    | 28/08/2014-28/08/2017 |
| 10 | Intestinal Parasitism in Rural And Urban Communities Of Selangor, Malaysia  | PPP/PG022-2013B                                   | A/P Dr. Init Ithoi                 | 16,500.00    | 01/12/2013-01/12/2016 |
| 11 | Phylogenetic study of free-living amoebas isolated from animal corneas and environmental samples : An approach to public health and human risk of infection with amoebic keratitis            | PPP/PG021-2013B                                   | A/P Dr. Init Ithoi                 | 7,000.00     | 01/12/2013-01/12/2016 |
| 12 | Recombinant expression Of TES-32 and TES-120 of <i>Toxocara canis</i> by <i>Escherichia coli</i> for diagnostic use in adult asthmatic patients   | PPP/PG061-2014A                                   | A/P Dr. Lau Yee Ling               | 16,500.00    | 28/08/2014-28/08/2017 |
| 13 | Genetic diversity study, expression and immunocharacterization of <i>Plasmodium knowlesi</i> Merozoite Surface Protein-3  | PPP/PG054-2016A                                   | A/P Dr. Lau Yee Ling               | 4,000.00     | 24/08/2016-24/08/2017 |
| 14 | Binding affinity of Duffy Binding Protein (PkDBP II) of <i>Plasmodium knowlesi</i> clinical isolates from Peninsular Malaysia and Malaysia Borneo   | PPP/PG121-2016A                                   | A/P Dr. Lau Yee Ling               | 2,000.00     | 30/08/2016-30/08/2018 |
| 15 | Identification of receptors for surface proteins of <i>Toxoplasma gondii</i> in humans  | PPP/PG066-2016A                                   | A/P Dr. Lau Yee Ling               | 2,000.00     | 24/08/2016-24/08/2017 |
| 16 | Analysis of <i>Sarcocystis</i> spp. immunogenic protein for development of human sarcocystosis serological test   | PPP/PG033-2016A                                   | A/P Dr. Lau Yee Ling               | 2,500.00     | 23/08/2016-23/08/2018 |
| 17 | The JAK-STAT pathway of <i>Anopheles dirus</i> mosquito in response towards <i>Plasmodium</i> infection   | PPP/PG045-2016A                                   | A/P Dr. Lau Yee Ling               | 3,300.00     | 24/08/2016-24/08/2018 |
| 18 | Identification and genotyping of medically important parasites and mosquitoes   | HIR-MOE Cycle 2/<br>UM.C/625/1/HIR/MOE/MED/18     | A/P Dr. Lau Yee Ling               | 3,299,800.00 | 01/01/2012-30/06/2016 |
| 19 | Nature microbiome: Expression analysis of <i>Anopheles cracens</i> responses To <i>Plasmodium knowlesi</i> infection  | HIR-MOE Cycle 3/<br>UM.C/625/1/HIR/MOE/CHAN/14/03 | A/P Dr. Lau Yee Ling               | 1,200,000.00 | 13/02/2013-30/06/2016 |
| 20 | Prevalence of medically-important ectoparasite infestations, their associated pathogens, and DNA barcoding of ectoparasites in Welfare Homes in The Klang Valley                              | PPP/PG042-2013A                                   | Dr. Noraishah Mydin Abdul Aziz     | 17,500.00    | 06/09/2013-05/09/2016 |
| 21 | Does laterality play a role during neural tube closure?   | PPP/PG252-2015B                                   | Dr. Noraishah Mydin Abdul Aziz     | 7,600.00     | 25/04/2016-25/04/2018 |
| 22 | Identification of potential genes associated with human Neural Tube Defects   | PPP/PG153-2015A                                   | Dr. Noraishah Mydin Abdul Aziz     | 6,300.00     | 29/10/2015-29/04/2017 |
| 23 | The functional role of nutritional oils in the embryonic development of mice and in prevention of Neural Tube Defects   | PPP/PG137-2015A                                   | Dr. Noraishah Mydin Abdul Aziz     | 8,400.00     | 28/10/2015-28/10/2017 |
| 24 | Concomitant infections of <i>Plasmodium</i> and <i>Brugia</i> in animal model   | FRGS/FP002-2014B                                  | Prof. Dr. Rohela Mahmud            | 176,000.00   | 01/12/2014-30/11/2016 |
| 25 | Genetic characterisation and virulence genes profiling of soil-transmitted helminths in Malaysia  | PPP/PG063-2014B                                   | Dr. Romano Ngui                    | 23,000.00    | 19/03/2015-19/03/2018 |
| 26 | Differential gene expression during Programmed Cell Death and identification of early Pro and Anti-Apoptotic signals in <i>Blastocystis</i> spp   | PPP/PG101-2013B                                   | Prof. Dr. Suresh Kumar P Govind    | 25,000.00    | 01/01/2014-31/12/2016 |
| 27 | Studies to elucidate the pathophysiology of <i>Blastocystis</i> sp. in symptomatic and asymptomatic individuals   | PPP/PG140-2016A                                   | Prof. Dr. Suresh Kumar P Govind    | 4,000.00     | 01/09/2016-01/09/2019 |
| 28 | Phenotypic and genotypic characterization of <i>Blastocystis</i> sp. subjected to <i>in vivo</i> and <i>in vitro</i> thermal stress   | PPP/PG141-2016A                                   | Prof. Dr. Suresh Kumar P Govind    | 3,000.00     | 01/09/2016-01/09/2019 |
| 29 | Study to elucidate the mechanism of action involving treatment with Tongkat Ali against <i>Blastocystis</i> sp.   | PPP/PG163-2016A                                   | Prof. Dr. Suresh Kumar P Govind    | 3,000.00     | 05/09/2016-05/09/2019 |
| 30 | Studies to elucidate phenotypic, genotypic characteristics as well as apoptotic pathways in <i>Blastocystis hominis</i> isolated from colorectal cancer and irritable bowel syndrome patients | HIR-MOE Cycle 3/<br>UM.C/625/1/HIR/MOE/MED/44     | Prof. Dr. Suresh Kumar P Govind    | 786,684.00   | 01/01/2013-30/06/2016 |
| 31 | Medicinal under-exploited Asian Native Plants for anti-Protozoan Properties-Special focus on <i>Acanthamoeba castellanii</i> and <i>Leishmania donovani</i>                                   | PPP/PG088-2015A                                   | A/P Dr. Veeranoot Nissapatorn      | 8,000.00     | 21/10/2015-21/10/2017 |
| 32 | Association of waterborne parasites with the detection of heavy metals and physicochemical parameters in Malaysian Water Bodies   | PPP/PG259-2015B                                   | A/P Dr. Veeranoot Nissapatorn      | 8,000.00     | 06/06/2016-01/05/2018 |
| 33 | Isolation and characterization of parasites from various water types in Malaysia  | UMRG-HTM/RG544-14HTM                              | A/P Dr. Veeranoot Nissapatorn      | 128,200.00   | 18/04/2014-25/06/2016 |
| 34 | Characterizing the spatial dynamics and natural transmission of dengue viruses in <i>Aedes aegypti</i> and <i>Aedes albopictus</i> populations in Malaysia                                    | PPP/PG160-2015B                                   | Dr. Wan Yusoff Wan Sulaiman        | 23,200.00    | 04/04/2016-04/04/2019 |
| 35 | An innovative method of parasite DNA extraction from culture, clinical and environmental samples using microwave heat treatment   | UMRG-AFR/RG362-15AFR                              | A/P Dr. Tan Tian Chye              | 83,000.00    | 30/01/2015-07/04/2017 |
| 36 | Whole genome sequencing of Malaysian isolates Of <i>Blastocystis</i> sp. And Parvoviruses   | HIR-MOE Cycle 3/<br>UM.C/625/1/HIR/MOE/MED/24     | A/P Dr. Tan Tian Chye              | 200,000.00   | 01/01/2013-30/06/2016 |
| 37 | Molecular characterization of <i>Dirofilaria</i> parasites and their association with vectors and canine  | PPP/PG098-2016A                                   | Prof. Dr. Yvonne Lim Ai Lian       | 3,000.00     | 27/08/2016-27/08/2019 |
| 38 | Molecular identification and characterization of human malaria parasites  | PPP/PG056-2013A                                   | Prof. Dr. Yvonne Lim Ai Lian       | 20,000.00    | 06/09/2013-05/03/2017 |
| 39 | Research Management Fee - Ru/pv/it/ga   | KW IPPP/RMF MEDICINE                              | Prof. Dr. Yvonne Lim Ai Lian       | 81,268.30    | 01/01/2015-31/12/2017 |
| 40 | Effects of nutritional status and helminth infection on gut bacteria and inflammatory responses in a Malaysian population   | HIR-MOE Cycle 3/<br>UM.C/625/1/HIR/MOE/MED/23     | Prof. Dr. Yvonne Lim Ai Lian       | 1,200,000.00 | 01/01/2013-30/06/2016 |

# PUBLICATIONS



1. Atroosh, W. M., Al-Mekhlafi, H. M., Snounou, G., et al. (2016). Sustained efficacy of artesunate-sulfadoxine-pyrimethamine against *Plasmodium falciparum* in Yemen and a renewed call for an adjunct single dose primaquine to clear gametocytes. *Malar J*, 15(1), 295.
2. Yusof, R., Ahmed, M. A., Jelip, J., et al. (2016). Phylogeographic Evidence for 2 Genetically Distinct Zoonotic *Plasmodium knowlesi* Parasites, Malaysia. *Emerg Infect Dis*, 22(8), 1371-1380.
3. Sonaimuthu, P., Ching, X. T., Fong, M. Y., et al. (2016). Induction of Protective Immunity against Toxoplasmosis in BALB/c Mice Vaccinated with *Toxoplasma gondii* Rhoptry-1. *Front Microbiol*, 7, 808.
4. Ahmed, M. A., Fong, M. Y., Lau, Y. L., et al. (2016). Clustering and genetic differentiation of the normocyte binding protein (nbpax) of *Plasmodium knowlesi* clinical isolates from Peninsular Malaysia and Malaysia Borneo. *Malar J*, 15, 241.
5. Ching, X. T., Fong, M. Y., & Lau, Y. L. (2016). Evaluation of Immunoprotection Conferred by the Subunit Vaccines of GRA2 and GRA5 against Acute Toxoplasmosis in BALB/c Mice. *Front Microbiol*, 7, 609.
6. Kavana, N., Sonaimuthu, P., Kasanga, C., et al. (2016). Seroprevalence of Sparganosis in Rural Communities of Northern Tanzania. *Am J Trop Med Hyg*, 95(4), 874-876.
7. Amir, A., Russell, B., Liew, J. W. K., et al. (2016). Invasion characteristics of a *Plasmodium knowlesi* line newly isolated from a human. *Sci Rep*, 6, 24623.
8. Mokhtar, A. S., Sridhar, G. S., Mahmud, R., et al. (2016). First Case Report of Cantharidiasis in an Infant Caused by the Larvae of *Lasioderma serricorne* (Coleoptera: Anobiidae). *J Med Entomol*, 53(5), 1234-1237.
9. Rawa, M. S., Fong, M. Y., & Lau, Y. L. (2016). Genetic diversity and natural selection in the rhoptry-associated protein 1 (RAP-1) of recent *Plasmodium knowlesi* clinical isolates from Malaysia. *Malar J*, 15, 62.
10. De Silva, J. R., Lau, Y. L., & Fong, M. Y. (2016). Expression and Evaluation of Recombinant *Plasmodium knowlesi* Merozoite Surface Protein-3 (MSP-3) for Detection of Human Malaria. *PLoS One*, 11(7), e0158998.
11. Azlan, A. M., Rasid, M., Richard, R., et al. (2016). Research Note Titiwangsa Lake a source of urban parasitic contamination. *Trop Biomed*, 33(3), 1-5.
12. Chemoh, W., Sawangjaroen, N., Nissapatorn, V., et al. (2016). Molecular investigation on the occurrence of *Toxoplasma gondii* oocysts in cat feces using TOX-element and ITS-1 region targets. *Vet J*, 215, 118-122.
13. Richard, R. L., Ithoi, I., Abd Majid, M. A., et al. (2016). Monitoring of Waterborne Parasites in Two Drinking Water Treatment Plants: A Study in Sarawak, Malaysia. *Int J Environ Res Public Health*, 13(7), 641.
14. Mahboob, T., Azlan, A. M., Tan, T. C., et al. (2016). Anti-encystment and amoebicidal activity of *Lonicera japonica* Thunb. and its major constituent chlorogenic acid in vitro. *Asian Pac J Trop Med*, 9(9), 866-871.
15. Ahmad, N. A., Vythilingam, I., Lim, Y. A. L., et al. (2017). Detection of *Wolbachia* in *Aedes albopictus* and Their Effects on Chikungunya Virus. *Am J Trop Med Hyg*, 96(1), 148-156.
16. Moyes, C. L., Shearer, F. M., Huang, Z., et al. (2016). Predicting the geographical distributions of the macaque hosts and mosquito vectors of *Plasmodium knowlesi* malaria in forested and non-forested areas. *Parasit Vectors*, 9, 242.
17. Sam, J. I., Chan, Y. F., Vythilingam, I., et al. (2016). Zika virus and its potential re-emergence in Malaysia. *Med J Malaysia*, 71(2), 66-68.
18. Wong, H. V., Vythilingam, I., Sulaiman, W. Y. W., et al. (2016). Detection of persistent chikungunya virus RNA but not infectious virus in experimental vertical transmission in *Aedes aegypti* from Malaysia. *Am J Trop Med Hyg*, 94(1), 182-186.
19. Shearer, F. M., Huang, Z., Weiss, D. J., et al. (2016). Estimating Geographical Variation in the Risk of Zoonotic *Plasmodium knowlesi* Infection in Countries Eliminating Malaria. *PLoS Negl Trop Dis*, 10(8), e0004915.
20. Wong, H. V., Chan, Y. F., Sam, J. C., et al. (2016). Chikungunya Virus Infection of Aedes Mosquitoes. *Methods Mol Biol*, 1426, 119-128.
21. Mahdy, M. A., Al-Mekhlafi, A. M., Abdul-Ghani, R., et al. (2016). First Molecular Characterization of Leishmania species causing Visceral Leishmaniasis among children in Yemen. *PLoS One*, 11(3), e0151265.
22. Dawaki, S., Al-Mekhlafi, H. M., Ithoi, I., et al. (2016). Prevalence and risk factors of Schistosomiasis among Hausa communities in Kano state, Nigeria. *Revista do Instituto de Medicina Tropical de São Paulo*, 58, 54.
23. Anuar, T. S., Jalilah, L., Norhayati, M., et al. (2016). New insights of *Enterobius vermicularis* infection among preschool children in an urban area in Malaysia. *Helminthologia*, 53(1), 76-80.
24. Amir, A., Ngui, R., Ismail, W. H., et al. (2016). Anisakiasis Causing Acute Dysentery in Malaysia. *Am J Trop Med Hyg*, 95(2), 410-412.
25. Moon, R. W., Sharaf, H., Hastings, C. H., et al. (2016). Normocyte-binding protein required for human erythrocyte invasion by the zoonotic malaria parasite *Plasmodium knowlesi*. *Proc Natl Acad Sci U S A*, 113(26), 7231-7236.
26. Al-Abd, N. M., Nor, Z. M., Mansor, M., et al. (2016). Antifilarial and Antibiotic Activities of Methanolic Extracts of *Melaleuca cajuputi* Flowers. *Korean J Parasitol*, 54(3), 273-280.
27. Rohani, A., Azahary, A. R. A., Zurainee, M. N., et al. (2016). Comparative Human Landing Catch and CDC Light Trap in Mosquito Sampling in Knowlesi Malaria Endemic Areas in Peninsula Malaysia. *Adv Entomol*, 4(01), 1-10.
28. Rajoo, Y., Lim, Y. A. L., Ambu, S., et al. (2016). Intestinal parasitism and associated factors among indigenous longhouses communities in Sarawak, Borneo Island, Malaysia. *Asian Pac J Trop Med*.
29. NikNadia, N., Sam, J. C., Khaidir, N., et al. (2016). Risk Factors for Enterovirus A71 Seropositivity in Rural Indigenous Populations in West Malaysia. *PLoS One*, 11(2), e0148767.
30. Sahu, P. S., Lim, Y. A. L., Ngui, R., et al. (2016). Serological evidence of exposure and possible *Taenia solium* larval infection in Orang Asli communities of Peninsular Malaysia. *Trop Biomed*, 33(1), 170-179.
31. Ahmad, A. F., Ngui, R., Ong, J., et al. (2016). Case Report: A Symptomatic Case of *Hymenolepis diminuta* Infection in an Urban-Dwelling Adult in Malaysia. *Am J Trop Med Hyg*.
32. Elyana, F. N., Al-Mekhlafi, H. M., Ithoi, I., et al. (2016). A tale of two communities: intestinal polyparasitism among Orang Asli and Malay communities in rural Terengganu, Malaysia. *Parasit Vectors*, 9(1), 398.
33. Zhang, R., Lee, W. C., Lau, Y. L., et al. (2016). Rheopathologic consequence of *Plasmodium vivax* rosette formation. *PLoS Negl Trop Dis*, 10(8), e0004912.
34. Tiwari, G. J., Chiang, M. Y., De Silva, J. R., et al. (2016). Lipase genes expressed in rice bran: LOC\_Os11g43510 encodes a novel rice lipase. *J Cereal Sci*, 71, 43-52.
35. Lau, Y. L., Lee, W. C., Gudimella, R., et al. (2016). Deciphering the Draft Genome of *Toxoplasma gondii* RH Strain. *PLoS One*, 11(6), e0157901.
36. Dawaki, S., Al-Mekhlafi, H. M., Ithoi, I., et al. (2016). Is Nigeria winning the battle against malaria? Prevalence, risk factors and KAP assessment among Hausa communities in Kano State. *Malar J*, 15(1), 351.
37. Alareqi, L. M., Mahdy, M. A., Lau, Y. L., et al. (2016). Molecular markers associated with resistance to commonly used antimalarial drugs among *Plasmodium falciparum* isolates from a malaria-endemic area in Talz governorate—Yemen during the transmission season. *Acta Trop*, 162, 174-179.
38. Fong, M. Y., Rashdi, S. A., Yusof, R., et al. (2016). Genetic Diversity, Natural Selection and Haplotype Grouping of *Plasmodium knowlesi* Gamma Protein Region II (PgkamaRII): Comparison with the Duffy Binding Protein (PkDBPalphaRII). *PLoS One*, 11(5), e0155627.
39. De Silva, J. R., Lau, Y. L., & Fong, M. Y. (2016). Genetic clustering and polymorphism of the merozoite surface protein-3 of *Plasmodium knowlesi* clinical isolates from Peninsular Malaysia. *Parasit Vectors*, 10(1), 2.
40. Nguyen, T., Cheong, F. W., Liew, J. W. K., et al. (2016). Seroprevalence of fascioliasis, toxocarosis, strongyloidiasis and cysticercosis in blood samples diagnosed in Medic Medical Center Laboratory, Ho Chi Minh City, Vietnam in 2012. *Parasit Vectors*, 9(1), 486.
41. Shahari, S., Tengku-Idris, T. I., Fong, M. Y., et al. (2016). Molecular evidence of *Sarcocystis nesbitti* in water samples of Tioman Island, Malaysia. *Parasit Vectors*, 9(1), 598.
42. Khan, M. B., Liew, J. W. K., Leong, C. S., et al. (2016). Role of NF-kB factor Rel2 during *Plasmodium falciparum* and bacterial infection in *Anopheles dirus*. *Parasit Vectors*, 9(1), 525.
43. Ching, X. T., Fong, M. Y., & Lau, Y. L. (2016). Evaluation of the Protective Effect of DNA Vaccines Encoding GRA2 and GRA5 against Acute Toxoplasmosis in BALB/c Mice. *Am J Trop Med Hyg*.
44. Mokhtar, A. S., Braima, K. A. O., Chin, H. P., et al. (2016). Intestinal Myiasis in a Malaysian Patient Caused by Larvae of *Clugia albipunctatus* (Diptera: Psychodidae). *J Med Entomol*, 53(4), 957-960.
45. Liew, J. W. K., Mahmud, R., Tan, L. H., et al. (2016). Diagnosis of an imported *Plasmodium ovale walkeri* infection in Malaysia. *Malar J*, 15, 8.
46. Lau, Y. L., Lee, W. C., Chen, J., et al. (2016). Draft Genomes of *Anopheles cracens* and *Anopheles maculatus*: Comparison of Simian Malaria and Human Malaria Vectors in Peninsular Malaysia. *PLoS One*, 11(6), e0157893.
47. Atroosh, W. M., Al-Mekhlafi, H. M., Al-Jasari, A., et al. (2016). Different patterns of pfprt and pfmdr1 polymorphism in *Plasmodium falciparum* isolates from Te hama region, Yemen. *Peer J*, 4, e2191.
48. Brant, H. L., Ewers, R. M., Vythilingam, I., et al. (2016). Vertical stratification of adult mosquitoes (Diptera: Culicidae) within a tropical rainforest in Sabah, Malaysia. *Malar J*, 15(1), 370.
49. Vythilingam, I., Wong, M. L., & Wan-Yusoff, W. S. (2016). Current status of *Plasmodium knowlesi* vectors: a public health concern? *Parasitology*, 1-9.
50. Manin, B. O., Ferguson, H. M., Vythilingam, I., et al. (2016). Investigating the Contribution of Peri-domestic Transmission to Risk of Zoonotic Malaria Infection in Humans. *PLoS Negl Trop Dis*, 10(10), e0005064.
51. Chuah, C. J., Mukhaidin, N., Choy, S. H., et al. (2016). Prevalence of *Cryptosporidium* and *Giardia* in the water resources of the Kuang River catchment, Northern Thailand. *Sci Total Environ*, 562, 701-713.
52. Angal, L., Lim, Y. A. L., Yap, N. J., et al. (2016). Toxoplasmosis in HIV and non HIV prisoners in Malaysia. *Trop Biomed*, 33(1), 159-169.
53. Chin, Y. T., Lim, Y. A. L., Chong, C. W., et al. (2016). Prevalence and risk factors of intestinal parasitism among two indigenous sub-ethnic groups in Peninsular Malaysia. *Infect Dis Poverty*, 5(1), 77.
54. Ngui, R., Halim, N. A. A., Rajoo, Y., et al. (2016). Epidemiological Characteristics of Strongyloidiasis in Inhabitants of Indigenous Communities in Borneo Island, Malaysia. *Korean J Parasitol*, 54(5), 673.
55. Nithyamathi, K., Chandramathi, S., & Kumar, S. (2016). Predominance of *Blastocystis* sp. infection among school children in Peninsular Malaysia. *PLoS One*, 11, e0136709.
56. Dahalan, F. A., Sidek, H. M., Murtey, M. D., et al. (2016). Phosphorylated and Nonphosphorylated PfMAP2 Are Localized in the Nucleus, Dependent on the Stage of *Plasmodium falciparum* Asexual Maturation. *BioMed Res Int*, 2016, 1645097.
57. Vythilingam, I., Sam, J. I., Chan, Y. F., et al. (2016). New Paradigms for Virus Detection, Surveillance and Control of Zika Virus Vectors in the Settings of Southeast Asia. *Front Microbiol*, 7, 1452.
58. Yugavathy, N., Kim-Sung, L., Joanne, S., et al. (2016). Genetic variation of the mitochondrial genes, COI and ND5, in *Aedes aegypti* from various regions of peninsular Malaysia. *Trop Biomed*, 33(3), 543-560.
59. Joanne, S., Vythilingam, I., Yugavathy, N., et al. (2016). Unidirectional Cytoplasmic Incompatibility in Malaysian *Aedes albopictus* (Diptera: Culicidae). *Ann Entomol Soc Am*, 109(3), 366-370.
60. Raman, K., Kumar, S., & Tan, T. C. (2016). Increase number of mitochondrion-like organelle in symptomatic *Blastocystis* subtype 3 due to metronidazole treatment. *J Parasitol Res*, 115(1), 391-396.
61. Dhurga, D. B., Kumar, S., & Tan, T. C. (2016). Granular Formation during Apoptosis in *Blastocystis* sp. Exposed to Metronidazole (MTZ). *PLoS One*, 11(7), e0155390.
62. Alareqi, L. M., Mahdy, M. A., Lau, Y. L., et al. (2016). Field evaluation of a PfHRP-2/pLDH rapid diagnostic test and light microscopy for diagnosis and screening of falciparum malaria during the peak seasonal transmission in an endemic area in Yemen. *Malar J*, 15, 49.
63. Cheong, F. W., Fong, M. Y., & Lau, Y. L. (2016). Identification and characterization of epitopes on *Plasmodium knowlesi* merozoite surface protein-1 42 (MSP-1 42) using synthetic peptide library and phage display library. *Acta Trop*, 154, 89-94.
64. Lau, Y. L., Lai, M. Y., Fong, M. Y., et al. (2016). Loop-Mediated Isothermal Amplification Assay for Identification of Five Human *Plasmodium* Species in Malaysia. *Am J Trop Med Hyg*, 94(2), 336-339.
65. Ramanan, D., Bowcutt, R., Lee, S. C., et al. (2016). Helminth infection promotes colonization resistance via type 2 immunity. *Science*, 352(6285), 608-612.
66. Mohamed Zan, H., Sasheela, P., Faridah, S. O. S., et al. (2016). Genetic variants of *Orientia tsutsugamushi* identified from scrub typhus cases in Malaysia. *Trop Biomed*, 33(1), 203-208.
67. Yap, N. J., Koehler, A. V., Ebner, J., et al. (2016). Molecular analysis of *Cryptosporidium* from cattle from five states of Peninsular Malaysia. *Mol Cell Probes*, 30(1), 39-43.
68. Kumar, T., Abd Majid, M. A., Onichandran, S., et al. (2016). Presence of *Cryptosporidium parvum* and *Giardia lamblia* in water samples from Southeast Asia: towards an integrated water detection system. *Infect Dis Poverty*, 5, 3.
69. Loke, P., & Lim, Y. A. L. (2016). A Commensal Protozoan Strikes a Balance in the Gut. *Cell Host Microbe*, 20, 417-419.
70. Mansor, N. I., Ntini, C. M., Ling, K. H., et al. (2016). Unattainable *in vitro* neurodegenerative model using transgenic mouse embryonic stem cell line-derived neurons treated with amyloid beta peptides. *Front Cell Neurosci*.
71. Mohd-Zin, S. W., Abdullah, N. L., Abdullah, A., et al. (2016). Identification of the genomic mutation in Eph4a(rb-2)/rb-2) mice. *Genome*, 59, 439-448.
72. Anuar, T. S., Bakar, N. H., Al-Mekhlafi, H. M., et al. (2016). Prevalence and risk factors for asymptomatic intestinal microsporidiosis among aboriginal school children in Pahang, Malaysia. *Southeast Asian J Trop Med Public Health*, 47(3), 441-449.
73. Sahminin, N., Lim, Y. A. L., Ariffin, F., et al. (2016). Migrant Workers in Malaysia: Current Implications of Socio-demographic and Environmental Characteristics in the Transmission of Intestinal Parasitic Infections. *PLoS Negl Trop Dis*, 10, e0005110.

# SEMINARS, PROPOSAL & CANDIDATURE DEFENCES

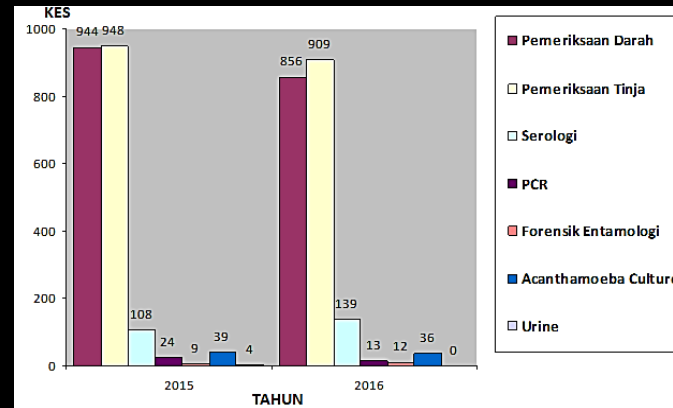
| No. | Title   | Name (Matric No.)  | Date        |
|-----|---|--|-------------|
| 1   | GENETIC CHARACTERISATION AND VIRULANCE GENES PROFITING OF SOIL-TRANSMITTED HELMITHS IN MALAYSIA   | NORASHIKIN MOHD SHAHARUDDIN (MHA140038)                                  | 13 Jan 2016 |
| 2   | SPATIAL DYNAMICS AND VIRUS DETECTION IN <i>Aedes Aegypti</i> AND <i>Aedes Albopictus</i> POPULATIONS IN MALAYSIA  | MUHAMMAD AIDIL ROSLAN (MHA150008)  |             |
| 3   | ANTIFILARIAL ACTIVITY OF CAFFEIC ACID PHENYL ESTER  | NAZEH MOHAMMED AL-ABD (MHA110054)  |             |
| 4   | MALARIA BURDEN AND THE DISTRIBUTION OF GENETIC MARKERS ASSOCIATED WITH DRUG RESISTANCE IN MAWZA DISTRICT, YEMEN   | LINA MOHAMMED QAID AL-AREQI (MHA110051)                                  | 20 Jan 2016 |
| 5   | GENETIC DIVERSITY STUDY, EXPRESSION AND IMMUNOCHARACTERIZATION OF <i>PLASMODIUM KNOWLESII</i> MEROZOITE SURFACE PROTEIN-3 (MSP-3) IN <i>ESCHERICHIA COLI</i>                                      | JEREMY RYAN DE SILVA (MHA120057)   |             |
| 6   | IDENTIFICATION OF RECEPTORS FOR SURFACE PROTEINS OF <i>TOXOPLASMA GONDII</i> IN HUMANS  | LAI MENG YEE (MHA120031)   | 27 Jan 2016 |
| 7   | IMMUNE RESPONSE OF <i>ANOPHELES DIRUS S.S</i> DURING <i>PLASMODIUM FALCIPARUM</i> INFECTION   | MOHAMMAD BEHRAM KHAN (MGN140027)   |             |
| 8   | DOES LATERALITY PLAY A ROLE DURING NEURAL TUBE CLOSURE  | ADIBAH SAHMAT (MGN150001)  | 3 Feb 2016  |
| 9   | <i>IN VIVO</i> AND MOLECULAR EVALUATION OF ARTESUNATE-SULFADOXINE+PYRIMETHAMINE EFFICACY FOR UNCOMPLICATED MALARIA IN TEHAMA REGION, YEMEN  | WAHIB MOHAMMED MOHSEN ATROOSH (MHA120036)                                |             |
| 10  | EPIDEMIOLOGY OF MULTIPLE PARASITIC INFECTIONS WITH MOLECULAR CHARACTERIZATION OF THE MOST PREVALENT INTESTINAL PROTOZOA   | SALWA SHEHU DAWAKI (MHA120074)   |             |
| 11  | DEVELOP NEW TOOL FOR ENTOMOLOGICAL SURVEILLANCE OF ADULT MOSQUITO IN SELANGOR, MALAYSIA   | LAU SAI MING (MHA130061)   | 19 Feb 2016 |
| 12  | MOLECULAR EPIDEMIOLOGY OF SIMIAN MALARIA VECTORS IN SABAH, MALAYSIA   | WONG MENG LI (MHA130026)   |             |
| 13  | FIELD EVALUATION OF A PfHRP-2/pLDH RAPID DIAGNOSTIC TEST AND LIGHT MICROSCOPY FOR DIAGNOSIS AND SCREENING OF FALCIPARUM MALARIA DURING THE PEAK SEASONAL TRANSMISSION IN AN ENDEMIC AREA IN YEMEN | LINA MOHAMMED QAID AL-AREQI (MHA110051)                                  | 9 Mar 2016  |
| 14  | MALARIA RELATED BELIEFS AND BEHAVIOURS: REPERCUSSIONS FOR CONTROL IN NORTHERN NIGERIA   | SALWA SHEHU DAWAKI (MHA120074)   | 16 Mar 2016 |
| 15  | ASSOCIATION OF WATERBORNE PARASITES WITH THE DETECTION OF HEAVY METALS AND PHYSICOCHEMICAL PARAMETERS IN MALAYSIA WATER BODIES  | MOHAMAD AZLAN BIN ABD. MAJID (MGN140062)                                 |             |
| 16  | MEDICINAL UNDER-EXPLOITED ASIAN NATIVE PLANTS FOR ANTI-PROTOZOAN PROPERTIES – SPECIAL FOCUS ON <i>ACANTHAMOEBA CASTELLANII</i> AND <i>LEISHMANIA DONOVANI</i>                                     | TOOBA MAHBOOB (MGN140053)  | 6 Apr 2016  |
| 17  | TOXOPLASMOSIS AMONG ORANG ASLI: 4-DECADE RETROSPECTIVE STUDY  | DR. AMAL NIMIR (MHA130072)   |             |
| 18  | DNA BARCODING OF ECTOPARASITES IN MEDICAL CASE STUDIES AND FROM WELFARE HOMES INCLUDING MOLECULAR DETECTION OF THEIR ASSOCIATED PATHOGENS   | AIDA SYAFINAZ BINTI MOKHTAR (MHA120075)                                  | 25 May 2016 |
| 19  | EPIDEMIOLOGY OF <i>GIARDIA DUODENALIS</i> INFECTION AMONG CHILDREN IN RURAL YEMEN   | MONA ABDULLAH MOHAMMED AL-AREEQI (MGN140057)                             | 23 Jun 2016 |
| 20  | A TIMELY CALL TO UPDATE THE MALARIA TREATMENT POLICY IN YEMEN   | WAHIB MOHAMMED MOHSEN ATROOSH (MHA120036)                                |             |
| 21  | ESTABLISHMENT OF A NEW LINE OF <i>PLASMODIUM KNOWLESII</i>  | DR. AMIRAH AMIR  | 18 Jul 2016 |
| 22  | <i>PLASMODIUM KNOWLESII</i> MEROZOITE SURFACE PROTEIN -3 (MSP-3). IS IT A SUITABLE DIAGNOSTIC MARKER?   | JEREMY RYAN DE SILVA (MHA120057)   |             |
| 23  | MOLECULAR EPIDEMIOLOGY OF <i>ENTAMOEBA</i> SPECIES INFECTION IN RURAL YEMEN   | MONA ABDULLAH MOHAMMED AL-AREEQI (MGN140057)                             | 26 Jul 2016 |
| 24  | COMMUNITY MOBILIZATION AGAINST NTDs IN YEMEN: BILL & MELINDA GATES FOUNDATION GRANT   | A/P DR. HESHAM MAHYOUB SARHAN AL-MEKHLAFI                                | 3 Aug 2016  |
| 25  | STUDIES TO INVESTIGATE THE PHENOTYPIC AND GENOTYPIC CHARACTERIZATION OF <i>BLASTOCYSTIS</i> SP. SUBJECTED TO THERMAL STRESSOR <i>IN VITRO</i> AND <i>IN VIVO</i>                                  | GAYTHRI A/P THERGARAJAN (MHA150050)                                      | 24 Aug 2016 |
| 26  | THE DIAGNOSIS OF <i>PLASMODIUM OVALE WALIKERI</i> : A CASE REPORT   | JONATHAN UEW WEE KENT (MHA140016)  |             |
| 27  | DOCTOR, THERE'S BLOOD IN MY EXCRETA!  | DR. AMIRAH AMIR  | 14 Sep 2016 |
| 28  | ZIKA AND <i>Aedes Aegypti</i> : PUBLIC HEALTH CONCERN   | PROF. DATIN DR. INDRA VYTHILINGAM  | 28 Sep 2016 |
| 29  | THE EPHA4 RB-2J /RB-2J STORY: CHARACTERISING A TRANSGENIC MOUSE   | DR. NORAISHAH MYDIN ABD AZIZ & SITI WAHEEDA BINTI MOHD. ZAIN (MGN130059) | 19 Oct 2016 |
| 30  | THE ROLE OF <i>ANOPHELES DIRUS</i> STAT PATHWAY IN RESPONSE TO <i>PLASMODIUM BERGHEI</i> INFECTION  | JONATHAN UEW WEE KENT (MHA140016)  | 2 Nov 2016  |
| 31  | SEROPREVALENCE OF HUMAN SARCOCYSTOSIS IN PANGKOR AND TIOMAN ISLAND, MALAYSIA  | TENGGU IDZZAN NADZIRAH BINTI TENGGU IDRIS (MHA140017)                    |             |
| 32  | INTRODUCTION TO MODELING OF INFECTIOUS DISEASES   | A/P DR. LAU YEE LING & DR. ROMANO NGUI                                   | 7 Dec 2016  |
| 33  | DEVELOPMENT OF PLANT-BASED REPELLENT AS PERSONEL PROTECTION AGAINST MOSQUITO  | NORASHIQIN MISNI (MHA120003)   | 8 Dec 2016  |
| 34  | MICROENCAPSULATION OF CITRUS GRANDIS PEEL OIL FOR MOSQUITO REPELLENT APPLICATION: FORMULATION AND EFFICACY STUDIES  | NORASHIQIN MISNI (MHA120003)   | 21 Dec 2016 |
| 35  | <i>IN VIVO</i> AND <i>IN VITRO</i> STUDIES TO ELUCIDATE PATHOPHYSIOLOGY OF <i>BLASTOCYSTIS</i> SP. ISOLATED FROM SYMPTOMATIC AND ASYMPTOMATIC INDIVIDUALS   | ARUTCHELVAN RAJAMANKAM (MHA150049)                                       |             |



# PARASITES: SOUTH EAST ASIAN DIAGNOSTIC LABORATORY (PARA:SEAD)

## A) Sampel yang di proses

| KES                  | TAHUN       |             |
|----------------------|-------------|-------------|
|                      | 2015        | 2016        |
| Pemeriksaan Darah    | 944         | 856         |
| Pemeriksaan Tinja    | 948         | 909         |
| Serologi             | 108         | 139         |
| PCR                  | 24          | 13          |
| Forensik Entamologi  | 9           | 12          |
| Acanthamoeba Culture | 39          | 36          |
| Urine                | 4           | 0           |
| <b>Jumlah</b>        | <b>2076</b> | <b>1965</b> |



Pn. Hasidah performing IHA

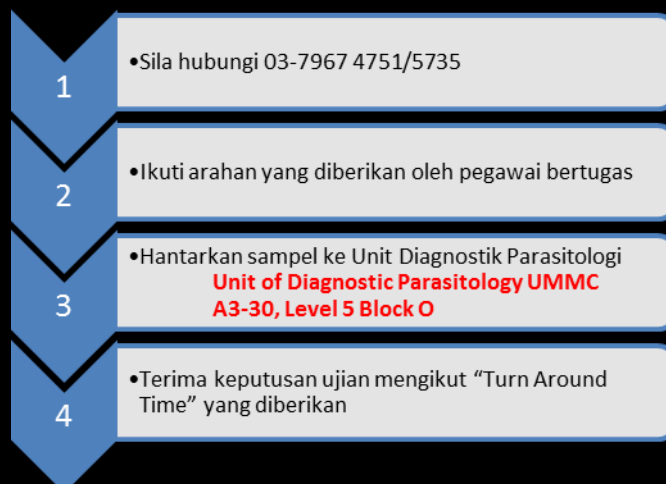
## B) Pengajaran untuk pelajar yang menjalani latihan

- Pelajar Tahun 3 sesi 2015/2016 Program Diploma Teknologi Makmal Perubatan, Kolej Sains Kesihatan, PPUM (28/12/2015 - 27/05/2016)
- Pelajar Tahun 2 sesi 2015/2016 program Diploma Teknologi Makmal Perubatan, Kolej Sains Kesihatan, PPUM (19/4/16 – 20/5/2016)
- Penempatan makmal klinikal pelajar Program Diploma Teknologi Makmal Perubatan PICOM PUSRAWI : 18/07/2016 – 02/09/2016
- Pelajar Ijazah Sarjana Muda Sains Bioperubatan : 11/07/2016 – 19/08/2016
- Doktor Terlatih, Latihan Program Subkepakaran Hospital Tuanku Jaafar Seremban :15/08/2016 – 30/08/2016



Posting in ParaSEAD – Students from Biomedical Science, UM and College Pikom Pusrawi

## C) Kami menerima sampel yang dihantar dari makmal atau hospital luar



Well-equipped ParaSEAD laboratory: diagnosis services, researches and training

# RESEARCH FACILITIES

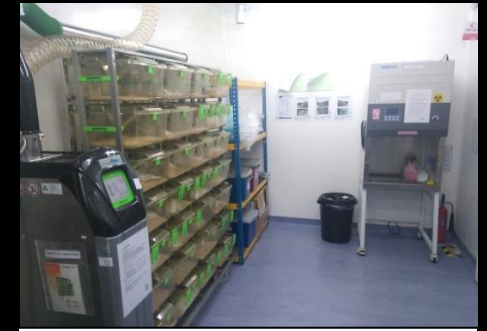
The Department of Parasitology, University of Malaya is one of the largest Parasitology Departments in Malaysia with 15 academic staffs and 46 Postgraduates. Parasitologists in this department have conducted many epidemiological and molecular parasitology studies providing vital information about the status, magnitude and impact of different parasitic infections among the different rural and semi-remote communities in Malaysia and other countries. The department houses advanced parasitology laboratories with the necessary facilities, including: a) Biosafety Level 2 Malaria culture laboratory; b) Arthropod Containment Level 2 facility; c) Advance Molecular Parasitology laboratories; and d) AAALAC accredited animal facility for infectious animal research.



Insectarium – arthropod containment level 1



Insectarium - arthropod containment level 2 (infection room)



AAALAC accredited animal house



Tissue culture lab



Malaria culture lab (BSL2)



Molecular laboratories



Emerging pathogen lab



Postgraduate Lounge

# POSTGRADUATE CONFERENCE EXPERIENCES



## MONA ABDULLAH MOHAMMED AL-AREEQI

52<sup>nd</sup> Annual Scientific Conference of the Malaysian Society of Parasitology & Tropical Medicine

Venue : Grand Seasonal Hotel, Kuala Lumpur, Malaysia

Date : 2-3 March 2016

It was a great chance to join the 52<sup>nd</sup> Annual Scientific Conference of the Malaysian Society of Parasitology & Tropical Medicine (MSPTM) (2<sup>nd</sup> & 3<sup>rd</sup> of March 2016, in Grand Seasonal Hotel, KL) for a presentation with title “Epidemiology of *Entamoeba histolytica*/*Entamoeba dispar*/*Entamoeba moshkovskii* complex infection in rural Yemen”. During the conference I met many scientists and got new information from other researches.

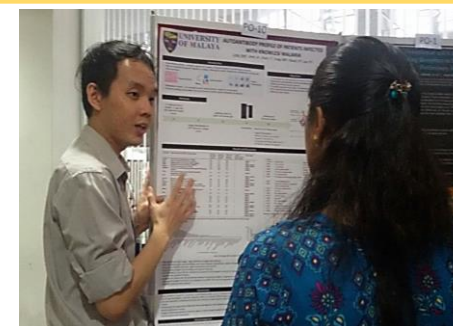
## JONATHAN LIEW WEE KENT

International Postgraduate Research Awards Seminar

Venue : Auditorium JPPHB, University of Malaya, Malaysia

Date : 7-8 March 2016

I participated in the International Postgraduate Research Awards Seminar organized by the Malaysian Society for Molecular Biology and Biotechnology on the 7th - 8th of March 2016. I presented my poster on autoantibody profiles of patients with *Plasmodium knowlesi* infection. It is of course an eye-opener, given this is my first time participating in a seminar. There were participants from other universities and I get to see different people from different fields such as environment, diseases, microbiology, plants and etc. It tells me that molecular biology and biotechnology techniques can be used in a broad range of applications. Overall, it was a really good experience.



## TENGKU IDZZAN NADZIRAH TENGKU IDRIS

International Postgraduate Research Awards Seminar

Venue : Auditorium JPPHB, University of Malaya, Malaysia

Date : 7-8 March 2016

I attended the International Postgraduate Research Awards Seminar held in the High Impact Research (HIR) building in University Malaya on 2016 and presented my work on Prevalence of Human Sarcocystosis in Tioman Island, Malaysia. Not many aware of the outbreaks but I managed to explain in detail and shared my experience of my field trip to Tioman Island. There were many interesting topics presented on the seminar and I took chance to discussed with the participants about their work. It was a good experience for me to share ideas, meet new people and make connections.

## NO RASHIKIN MOHD SHAHARUDDIN

International Congress for Tropical Medicine and Malaria

Venue : Brisbane, Australia

Date : 18-22 September 2016

Passionate about parasites since 2005 when I was doing industrial training in VRI, Ipoh, attending the International Congress for Tropical Medicine and Malaria (ICTMM) on 18 – 22 September 2016 in Brisbane, Australia was a dream come true. It was a major gathering of parasitologists all around the world. I'd had an opportunity to meet Dr. Peter Hotez and Dr. Aaron Jex, well-known scientists based in US and Australia respectively. Sharing thoughts and current research between a maestro and young scientist like me gives another perspective of doing research, which is to embrace the journey of doing it. Apart from that, I'd had a chance to meet up new friends from different countries throughout the conference. I would love to go to conferences in the future especially in overseas, not only to gain knowledge but also their cultures because meeting new people will change the way you see the world and at the same time applying the new knowledge with locals.



# ACTIVITIES



National Parasitology Curriculum Review (28 Nov 2016)



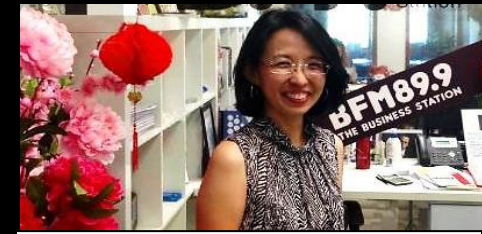
Intersarsity Parasitology Quiz and Oratorical Competition 2016 (20 Apr 2016)



Dengue Control: Paradigm Shift Workshop (15 -16 Aug 2016)



Token of Appreciation for A/P Dr. Hesham



Prof. Dr. Yvonne on BFM 89.9 (3 Feb & 15 Jun 2016) and The Star newspaper (28 Apr 2016)



Hari Raya Aidilfitri Luncheon



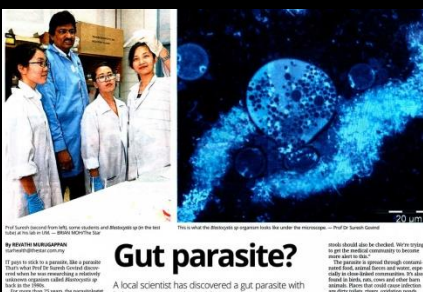
Deepavali Luncheon



Chinese New Year Luncheon



Token of Appreciation for Prof. Dr. Johari



Prof. Dr. Suresh on Sunday Star (5 Jun 2016)



International visitor Prof. Dr. Georges S (France)



Animal Awareness Day (24 Mar & 11 Oct 2016)



Interview of A/P Dr. Lau Yee Ling on Malaria Kembali by Astro Awani (20 Dec 2016)

# AWARDS

Dr. S. C. Parija Oration Award - Indian Academy of Tropical Parasitology (IATP)  
Prof. Dr. Suresh Kumar

Top Research Scientists Malaysia 2016 – Academy of Sciences Malaysia  
Prof. Dr. Yvonne Lim Ai Lian

Cambridge Certificate for Outstanding Medical Achievement 2016 – Institutional Biographical Central Cambridge  
A/P Dr. Lau Yee Ling

Anugerah Perkhidmatan Cemerlang 2016 – University of Malaya  
A/P Dr. Lau Yee Ling  
Mr. Mohd Redzuan Ahmad Naziri

Sijil Perkhidmatan Cemerlang 2016 – University of Malaya  
Prof. Dr. Yvonne Lim Ai Lian  
A/P Dr. Tan Tian Chye  
Mr. Abd Kaharmuzakir Ismail



# GRADUATED STUDENTS

MMedSc | Anitamalar Devi A/P Ragavan | Hemalatha A/P Chandrasekaran | Lorainne Binti Angal |  
Mira Syahfrien Amir Rawa | Nava Yugavathy A/P Selvaraja | Ng Yit Han | Sandee Tun |  
Reena Leeba Anak Richard | Nithyamathi A/P Kalimuthu |

PhD | Amirah Binti Amir | Ching Xiao Teng | Choy Seow Huey | Dhurga Devi A/P Balakrishnan |  
Hany Sady Shokry Redah | Lee Soo Ching | Nanthiney Devi A/P Ragavan | Tan Tiong Kai |  
Nazeh Mohammed Al-Abd Ali |



# EDITORIAL BOARD

ADVISOR : A/P Dr. Lau Yee Ling

EDITOR : Dr. Cheong Fei Wen

ADMINISTRATIVE OFFICERS: Mr. Mohd Afffudin Mohd Ali  
Ms. Mazni Mohamed Ali  
Ms. Sharifah Nor AkmarSyed Mohd  
Ms. Farikha Sarip  
Mr. Mohd Redzuan Ahmad Naziri



Department of Parasitology, Faculty of Medicine,  
University of Malaya, 50603, Kuala Lumpur, Malaysia.

Tel: +60379674745; Fax: +60379674754