Tropical Biomedicine

Official organ of the Malaysian Society of Parasitology and Tropical Medicine

Editor in Chief
Chandrawathani Panchadcharam, DVM, PhD

Associate Editor
Low Van Lun, PhD

Journal Production Team
Chen Chee Dhang, PhD (Managing Editor)
Chang Kum Wah, MSc
Victoria Foo

Editorial Management Team
Tan Tiong Kai, PhD (Managing Editor)
Premalatha Bathmanaban

Editorial Board
Adela Ida Jiram, MMedSc
Adzie Shazleen Azman, PhD
Banchob Sripa, PhD
Chandramathi Samudi Raju, PhD
Cheong Fei Wen, PhD
David Lee Kim Sung, PhD
Heo Chong Chin, PhD
Indra Vythilingam, PhD
Hiroshi Yamasaki, PhD
Khairul Anuar Abdullah, PhD

Khadijah Saad, PhD
Lee Han Lim, PhD
Lydia R. Leonardo, DRPH
Mak Joon Wah, MBBS, PhD
Nazni Wasi Ahmad, PhD
Nurhafiza Zainal, PhD
Ooi Hong Kean, DVM, PhD
Pairot Pramual, PhD
Petrus Tang, PhD
Pollie LM Rueda, PhD

Rahmah Noordin, PhD
Ravichandran Manickam, PhD
Sam Mohan, DVM, MSc
Seleena Benjamin, MSc
Sinniah Barathan, PhD
Siti Nursheena Mohd Zain, PhD
Stephen Ambu, PhD
Tan Kim Kee, PhD
Veeranoot Nissapatorn, MBBS

Information for Subscribers
• Tropical Biomedicine is now issued quarterly – March, June, September and December.
• For manuscript submission, please visit https://tb.myopustech.com/site/login
• Correspondence concerning manuscripts of articles for publication should be sent to the Editor of Tropical Biomedicine by email: editor.msptm@gmail.com
• Correspondence concerning production of galley proof and payment of page charges should be sent to the production team of Tropical Biomedicine by email: production.msptm@gmail.com
• The journal, Tropical Biomedicine, is free and is available online in the MSPTM website (www.msptm.org)

Cover Illustration
“Mr. and Mrs. Culex quinquefasciatus: The Malaysian Nuisance Mosquitoes” by Chen Chee Dhang

Culex quinquefasciatus Say (Diptera: Culicidae) is the most common Malaysian nuisance mosquito. It is also a potential vector of urban lymphatic filariasis caused by the nematode parasite, Wuchereria bancrofti in Malaysia. Around the world, its significance is recognised as a vector of bancroftian filariasis, West Nile virus, Saint Louis encephalitis virus, Ross River virus, and Japanese encephalitis virus. This photo shows a male (left) and a female (right) of Culex quinquefasciatus.

57th MSPTM COUNCIL MEMBER 2020/2021

President
Dr. Sam Mohan

Vice President
Dr. Chen Chee Dhang

Past President
Assoc. Prof. Dr. Siti Nursheena Mohd Zain

Hon. Secretary
Dr. Nor Azlina Abdul Aziz

Hon. Treasurer
Dr. Norhidayu Sahimin

Council Members
Dr. Tan Tiong Kai
Dr. Reuben Sunil Kumar Sharma
Dr. Mehru Nisha Muhamad Haneef
Ms. Adela Ida Jeram
Ms. Nurhainis Ogu Salim
Dr. Chandramathani Samudi

CORPORATE MEMBERS
Agricultural Chemicals (M) Sdn. Bhd.
Renexus (M) Bhd.
In-vitro and in-vivo evaluation of the antibacterial potential of *Typha elephantina*
Ahmad, B., Yousafzai, A.M., Zeb, A., Khan, A.A., Attaullah, M. and Ahmad, S.

Immunological and histopathological evaluation of *Eimeria tenella* oocysts Egyptian local isolate vaccine and its comparative efficacy with a commercial live vaccine
Desouky, A.Y., Ammar, N.I., Mohamed, A.M., Elhawary, N.M. and Sultan, K.

Epidemiology of falciparum malaria among residents of some rural and peri-urban communities in Ekiti State, Southwestern Nigeria
Awosolu, O.B., Yahaya, Z.S., Farah Haziqah, M.T., Simon-Oke, I.A., Olanipekun, I.T. and Oniya, M.O.

The potent effect of silymarin combination with Praziquantel or mirazid for *Schistosoma mansoni* treatment in infected male swiss albino mice

Cross-species surveillance and risk factors associated with Avian Coronavirus in North-Central and South West Regions of Nigeria

Complications of Sub-microscopic *Plasmodium vivax* Malaria among Orang Asli in Pos Lenjang, Kuala Lipis

Evaluation of neutralizing antibodies produced by papaya mosaic virus nanoparticles fused to the E2E3 peptide epitope of Chikungunya envelope
Nor Rashid, N., Teoh, T.C., Yusof, R. and Rothen, H.A.

In vitro Evaluation of Anti-Chikungunya Virus Activities of Tualang Honey Barkhadle, N.I., Mohamud, R., Mat Jusoh, T.N.A. and Shueb, R.H.


Serum liver enzyme profile in Timor deer (*Cervus timorensis*) with fascioliasis in Indonesia Purnama, M.T.E., Dewi, W.K., Triana, N.M. and Ooi, H.K.


First report of detection of IgA anti-*Acanthamoeba* antibodies among Saudi population and amoeba isolation from their surroundings Alouffi, A.S., Dawoud, T.M., Almaary, K.S., Mubarak, A.S., JarAllah, K. and Matin, A.

A new species and four newly recorded species of black flies (Diptera: Simuliidae) from Bhutan Takaoka, H., Namgay, R. and Somboon, P.


Trypanosuppressive effects of Kolaviron may be associated with down regulation of Trypanothione reductase in *Trypanosoma congoense* infection Timothy, M.R., Ibrahim, Y.K.E., Muhammad, A., Dada, C.G., Aimola, A.I. and Mohammed, M.
Ovicidal Efficacy of *Metarhizium anisopliae* (Hypocreales: Clavicipitaceae) towards *Rhipicephalus sanguineus* (Acari: Ixodidae) Eggs


Prevalence and risk factors of Syphilis among blood donors of Punjab, Pakistan


Infestation and distribution of chigger mites on Brown rat (*Rattus norvegicus*) in Yunnan Province, Southwest China


Evaluation of selected plant extracts for *in vitro* anti-marine leech (*Zeylanicobdella arugamensis*) activity

Wan Norhana, M.N., Kua, B.C. and Liyana, R.

Analyses of tularemia cases and their long-term results

Udurgucu, H., Sagmak Tartar, A., Ozer Balin, S., Akbulut, A., Demirdag, K. and Kaygusuz, I.

Assessment of *Euphorbia retusa* and *Pulicaria undulata* activity against *Leishmania major* and *Toxoplasma gondii*

Khan, T.A., Al Nasr, I.S., Mujawah, A.H. and Koko, W.S.

Enteral myiasis causing acute dysentery: A case report


Serological survey of canine vector-borne diseases in two animal shelters in central Peninsular Malaysia

Vinnie-Sio, W.Y., Low, V.L., Tan, T.K., Teoh, Y.B., Prakash, B.K. and Lim, Y.A.L.

Detection of enteroviruses during a 2018 hand, foot and mouth disease outbreak in Malaysia


Evaluation of antibody response of sheep to foot-and-mouth disease vaccine prepared by using different Montanide™ oil adjuvants


Specific binding of aspartic protease and enterocytes promotes *Trichinella spiralis* invasion of murine intestinal epithelium cells


Dendritic cell TLR4 induces Th1-type immune response against *Cryptosporidium parvum* infection


First report of *Giardia lamblia* in different animals in the United Arab Emirates


A rare and unusual cause of *Vibrio cholerae* non-O1, non-O139 causing spontaneous peritonitis in a patient with cirrhosis


Inhibition of Activin A suppressed tumor necrosis factor-α secretion and improved histopathological conditions in malarial mice

Chin, V.K., Tie, T.H., Abd Majid, R., Hassan, H., Nordin, N., Abas, R. and Basir, R.