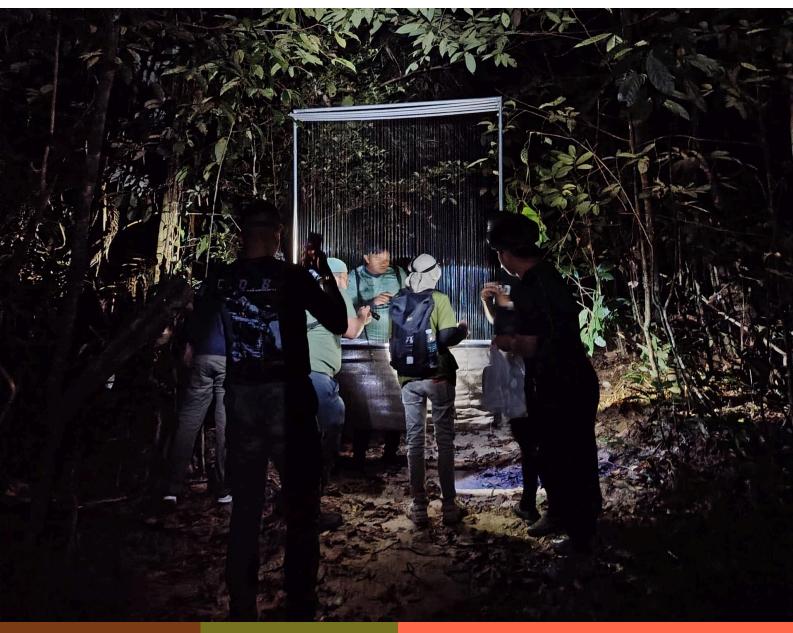
# Tropical Biomedicine



**VOL. 42** 

**NO. 1** 

**MARCH 2025** 

eISSN: 2521-9855



MALAYSIAN SOCIETY OF PARASITOLOGY AND TROPICAL MEDICINE

# Tropical Biomedicine

### Official Organ of the Malaysian Society of Parasitology and Tropical Medicine

#### **Editor in Chief**

Siti Nursheena Mohd Zain, PhD

#### **Associate Editor**

Low Van Lun, PhD

#### **Journal Production Team**

Chen Chee Dhang, PhD (Managing Editor)

Chang Kum Wah, MSc

Chandrawathani Panchadcharam, DVM, PhD

#### **Editorial Management Team**

Tan Tiong Kai, PhD (Managing Editor)

Lau Koon Weng, PhD

#### **Editorial Board**

Azdayanti Muslim, PhD Agnes Kurniawan, PhD SpParK

Basripuzi Nurul Hayyan Hassan Basri, PhD

Cheong Fei Wen, PhD Choosak Nithikathkul, PhD Farah Shafawati Mohd Taib. PhD

Heo Chong Chin, PhD Indra Vythilingam, PhD Lee Chow Yang, PhD Loong Shih Keng, PhD

Lee Han Lim, PhD

Nik Ahmad Irwan Izzauddin Nik Him, PhD

Nurhafiza Zainal, PhD Ooi Hong Kean, DVM, PhD Pairot Pramual, PhD Rahmah Noordin, PhD Rajeev K. Tyagi, PhD Russell Stothard, PhD Reuben Sharma, DVM, PhD Sam Mohan, DVM, MSc Soh Yih Harng, PhD Suhaila Ab Hamid, PhD Tan Kim Kee, PhD Tan Li Peng, PhD

Veeranoot Nissapatorn, MBBS Vachel Gay Paller, PhD Yeap Leng Siew, PhD

#### Information for Subscribers

- Tropical Biomedicine is now issued quarterly March, June, September and December.
- For manuscript submission, please visit https://msptm.org/journal/
- 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**

#### Through the Harp Trap, Where Bats Flap

By Mr. Mohammad Ridhuan Mohd Ali, Institute for Medical Research, Malaysia

Through bat trapping, we uncover the conundrums of zoonotic diseases, bridging the gap between wildlife, humans, and public health. Every capture brings us closer to understanding and preventing the next outbreak.

#### 62<sup>nd</sup> MSPTM COUNCIL MEMBER 2025/2026

#### President

Assoc. Prof. Dr. Lucas Low Van Lun

**Vice President** Ms. Adela Ida Jiram

Past President

Ts. Dr. Chen Chee Dhang

Hon. Secretary
Dr. Stanley Tan Tiong Kai
Assist. Hon. Secretary
Dr. Nor Azlina Abdul Aziz
Hon. Treasurer

Dr. Mehru Nisha **Assist. Hon. Treasurer** Dr. Norhidayu Sahimin

#### **Council Members**

Dr. Lee li Li

Dr. Paul Cliff Simon Divis Dr. Intan Haslina Binti Ishak Dr. Nantha Kumar Jeyaprakasam

Assoc. Prof. Dr. Muhammad Hafiz Borkhanuddin

Dr. Noor Azrizal Abdul Wahid

#### **Tropical Biomedicine Copyright Notice**

© Malaysian Society of Parasitology and Tropical Medicine 2025. *Tropical Biomedicine* is a gold open access journal. Articles published are licensed under a Creative Commons Attribution Non-commercial 4.0 International License (<u>CC BY-NC 4.0</u>) and are freely available to download, save, reproduce, and transmit strictly for non-commercial, scholarly, and educational purposes only. Reproduction and transmission of content for the above purposes are permitted with the condition that the author(s) and all original sources are duly credited. Permission must be obtained from the <u>Malaysian Society of Parasitology and Tropical Medicine</u> prior to the use, reproduction, or distribution of content for commercial purposes.

## TROPICAL BIOMEDICINE

# VOL. 42, NO. 1

B.1.617.2 (Delta) variant in Malaysia	1
Che-Kamaruddin, N., Teoh, B.T., Tan, K.K., Tan, J.Y., Wong, J.E., Tiong, V., Abd-Jamil, J., Nor'e, S.S., Khor, C.S., Johari, J., Yaacob, C.N., Zulkifli, M.M.S., CheMatSeri, A., Mahfodz, N.H., Azizan, N.S. and AbuBakar, S.	
Fever of unknown origin: An atypical presentation of typhoid in a child with glucose-6-phosphate dehydrogenase (G6PD) deficiency <b>Abdul Rashid, F., Husain, N., Hussin, H. and Mohd Nor, F.</b>	10
Phytochemical analysis and nematicidal-insecticidal activity of an acetone extract of <i>Prosopis laevigata</i> against <i>Haemonchus contortus</i> and <i>Melanaphis sorghi</i> Delgado-Núñez, E.J., Gruintal-Santos, M.A., Palemón-Alberto, F., Ortega-Acosta, S.A., Díaz-Nájera, J.F., Ayvar-Serna, S., Toledo-Hernández, E., Tagle-Emigdio, L.J. and Sotelo-Leyva, C.	15
Use of multiplex molecular respiratory panel in COVID-19 patients with suspected co-infections: Insights and considerations in results interpretation  Nawi, A.S., Engku Abd Rahman, E.N.S., Nik Zuraina, N.M.N., Musa, N., Salleh, M.Z.,  Samsudin, M.N.F., Chua, W.C., Muhd Besari, A., Hassan, R. and Chan, Y.Y.	21
Integrating One Health strategy to mitigate antibiotic resistance in <i>Salmonella</i> : insights from poultry isolates in Southeast Asia Imran-Ariff, I., Kamaruzaman, I.N.A., Mahamud, S.N.A., Aklilu, E., AbuBakar, S. and Loong, S.K.	27
Spatiotemporal mapping of canine rabies transmission dynamics in Sarawak, East Malaysia from 2017 to 2023 Wada, Y.A., Noordin, M.M., Mazlan, M., Ramanoon, S.Z., Izzati, U.Z., Lau, S.F. and Mohd-Lila, M.A.	36
Sexual mosaicism in the black fly <i>Simulium</i> ( <i>Gomphostilbia</i> ) <i>hongthaii</i> (Diptera: Simuliidae) in Vietnam <b>Nguyen, D.V. and Takaoka, H.</b>	44
Undifferentiated tropical fever: a case series of three Rickettsial infections Chua, W.C., Irekeola, A.A., Abdul Hadi, M.I., Wan Mohamad, W.S., Mohd Nasir, N.I., Mohamad, N., Hashim, A.M.B., Fauzi, M.H. and Chan, Y.Y.	47
Detection of <i>Leptospira</i> in environmental samples of wet markets and paddy fields in Penang, Malaysia <b>Ling, B.L., Tay, Z.E. and Philip, N.</b>	51
Bacteremia due to the fastidious bacterium <i>Granulicatella adiacens</i> : A diagnosis that was almost missed <b>Ding, C.H., Wahab, A.A., Mohamed, N. and Wong, P.F.</b>	58
Seroprevalence of specific antibodies against <i>Toxoplasma gondii</i> among patients with malignant tumors in Dali, Yunnan province <b>Du, S.T., Yang, Y.W. and Wu, T.F.</b>	61
Efficacy of <i>Thunbergia laurifolia</i> crude extracts against carcinogenic liver fluke, <i>Opisthorchis viverrini</i> Pechdee, P., Arunsan, P., Boonsuya, A., Thanchonnang, C., Phinsiri, S., Rattanapitoon, N.K., Laha, T., Keeratibharat, N. and Rattanapitoon, S.K.	65
The distribution of B lymphocyte subpopulations in mice infected with <i>Mycobacterium tuberculosis</i> H37Ra Lv, Y., Wang, C., Wang, T. and Bai, L.	76