

PARASITOLOGY

CONTENTS

EDITORIAL

- Echinococcus*: the model cestode parasite
Andrew Hemphill and Britta Lundström-Stadelmann

1401

REVIEW ARTICLES

- Congenital toxoplasmosis in humans: an update of worldwide rate of congenital infections

J. P. Dubey, F. H. A. Murata, C. K. Cerqueira-Cézar,
O. C. H. Kwok and I. Villena

1406

- The global seroprevalence of *Toxoplasma gondii* infection in bovines: a systematic review and meta-analysis

Seyyed Ali Sharatzadeh, Shahabeddin Sarvi, Seyed Abdollah Hosseini, Mehdi Sharif, Shirzad Gholami, Abdol Sattar Pagheh, Fattaneh Montazeri, Tooran Nayeri, Maryam Nakhaei, Tahereh Mikaeili Galeh and Ahmad Daryani

1417

- Highlighting the interplay of microRNAs from *Leishmania* parasites and infected-host cells

Sajad Rashidi, Reza Mansouri, Mohammad Ali-Hassanzadeh, Esmaeel Ghani, Afshin Barazesh, Mohammadreza Karimazar, Paul Nguewa and Eugenio Antonio Carrera-Silva

1434

RESEARCH ARTICLES

- Moringa oleifera* extract promotes apoptosis-like death in *Toxoplasma gondii* tachyzoites *in vitro*

Letícia Nishi, Raquel Arruda da Silva Sanfelice, Bruna Taciane da Silva Bortoletti, Fernanda Tomiotto-Pellissier, Taylor Felipe Silva, Fernanda Ferreira Evangelista, Danielle Lazarin-Bidóia, Idessania Nazareth Costa, Wander Rogério Pavanelli, Ivete Conchon Costa, Aline Takaoka Alves Baptista, Rosângela Bergamasco and Ana Lúcia Falavigna-Guilherme

1447

- Assessment of anthelmintic effectiveness to control *Fasciola hepatica* and paramphistome mixed infection in cattle in the humid tropics of Mexico

Rodrigo Ico-Gómez, Roberto González-Garduño, Diego Ortiz-Pérez, Juan J. Mosqueda-Gualito, Ever del J. Flores-Santiago, Gustavo Sosa-Pérez and Abel A. Salazar-Tapia

1458

- Plasmodium ouropretensis*, n. sp., a new case of non-erythrocytic species within lizard malaria parasites

Oscar Hernandes Córdoba, Francisco C. Ferreira, M. Andréa Pacheco, Ananias A. Escalante and Érika Martins Braga

1467

- Progression of asexual to sexual stages of *Cystoisospora suis* in a host cell-free environment as a model for Coccidia
Anna Sophia Feix, Teresa Cruz-Bustos, Bärbel Ruttkowski, Marlene Mötz, Till Rümenapf and Anja Joachim

1475

- Genetic diversity and haplotypes of paediatric hydatid cyst isolates and first occurrence of *E. canadensis* (G6/G7) in paediatric cases in Turkey
Unal Bakal, Figen Celik, Sami Simsek, Harun Kaya Kesik and Seyma Gunaykli Kilinc

1482

- Temporal dynamics of trematode intermediate snail host environmental DNA in small water body habitats
Rhys Aled Jones, Chelsea N. Davis, Dewi Llyr Jones, Fiona Tyson, Emma Davies, David Cutress, Peter M. Brophy, Michael T. Rose, Manod Williams and Hefin Wyn Williams

1490

- The excretory–secretory antigen HcADRM1 to generate protective immunity against *Haemonchus contortus*
Mingmin Lu, Xiaowei Tian, Wenjuan Wang, Yang Zhang, Kalibixiati Aimulajiang, Ai-Ling Tian, Charles Li, Ruofeng Yan, Lixin Xu, Xiaokai Song and Xiangrui Li

1497

- Serum antibodies blocked by glycan antigens in canine visceral leishmaniasis serology are mostly IgA immune complexes

Camila Aparecida de Carvalho, Roberto Mitsuyoshi Hiramoto, Luciana Regina Meireles and Heitor Franco de Andrade Júnior

1509

- Trypanosoma (Megatrypanum) pestanai* in Eurasian badgers (*Meles meles*) and Ixodidae ticks, Italy

Giovanni Sgroi, Roberta Iatta, Riccardo Paolo Lia, Maria Stefania Latrofa, Rossella Samarelli, Antonio Camarda and Domenico Otranto

1516

- Diagnostic accuracy of somatic and excretory–secretory antigens from *Strongyloides venezuelensis* infective larvae for the immunodiagnosis of human strongyloidiasis

William Henry Roldán González, Dirce Mary Correia Lima Meisel, Fabiana Martins de Paula and Ronaldo Cesar Borges Gryscheck

1522