

PARASITOLOGY

CONTENTS

REVIEW ARTICLES

- New and emerging uses of CRISPR/Cas9 to genetically manipulate apicomplexan parasites
Manlio Di Cristina and Vern B. Carruthers

1119

- Could diet composition modulate pathological outcomes in schistosomiasis mansoni? A systematic review of *in vivo* preclinical evidence
Débora Vasconcelos Bastos Marques, Amanda Aparecida Felizardo, Raquel Lopes Martins Souza, Alessandro Antônio Costa Pereira, Reggiani Vilela Gonçalves and Rômulo Dias Novaes

1127

RESEARCH ARTICLES

- Ceratomyxa gracillima* n. sp. (Cnidaria: Myxosporea) provides evidence of panmixia and ceratomyxid radiation in the Amazon basin
Suellen A. Zatti, Stephen D. Atkinson, Antônio A. M. Maia, Jeri L. Bartholomew and Edson A. Adriano

1137

- Echinococcus multilocularis* in a Eurasian lynx (*Lynx lynx*) in Turkey
Hamza Avcioglu, Esin Guven, Ibrahim Balkaya and Ridvan Kirman

1147

- Diverse single-amino-acid repeat profiles in the genus *Cryptosporidium*
Giovanni Widmer

1151

- Distinct genetic profiles of *Leishmania (Viannia) braziliensis* associate with clinical variations in cutaneous-leishmaniasis patients from an endemic area in Brazil
Patrícia Flávia Quaresma, Cristiana Ferreira Alves de Brito, Jerônimo Marteleto Nunes Rugani, Janaína de Moura Freire, Rodrigo de Paula Baptista, Elizabeth Castro Moreno, Raquel Carvalho Gontijo, Felipe Dutra Rego, Joaquim Edemilson Diniz, Maria Norma Melo and Célia Maria Ferreira Gontijo

1161

- Using MALDI-TOF MS to identify mosquitoes collected in Mali and their blood meals
Fatalmoudou Tandina, Sirama Niaré, Maureen Laroche, Abdoulaye K Koné, Adama Z Diarra, Abdoulaye Ongoina, Jean Michel Berenger, Ogobara K Doumbo, Didier Raoult and Philippe Parola

1170

- Human dendritic cell sequestration onto the *Necator americanus* larval sheath during ex-sheathing: a possible mechanism for immune privilege
A. Hassan, D. I. Pritchard and A. M. Ghaemmaghami

1183

- Nanoencapsulation of benznidazole in calcium carbonate increases its selectivity to *Trypanosoma cruzi*
Louise Donadello Tessarolo, Ramon Róseo Paula Pessoa Bezerra de Menezes, Clarissa Perdigão Mello, Dânya Bandeira Lima, Emanuel Paula Magalhães, Eveline Matias Bezerra, Francisco Adilson Matos Sales, Ito Liberato Barroso Neto, Maria de Fátima Oliveira, Ricardo Pires dos Santos, Eudenilson L. Albuquerque, Valder Nogueira Freire and Alice Maria Martins

1191

- Phloroglucinol derivatives from *Hypericum* species trigger mitochondrial dysfunction in *Leishmania amazonensis*

Ana Paula Aquistapace Dagnino, Camila Saporiti Mesquita, Gilson Pires Dorneles, Vivian de Oliveira Nunes Teixeira, Francisco Maikon Corrêa de Barros, Gari Vidal Ccana-Ccapatinta, Simone Gonçalves Fonseca, Marta Chagas Monteiro, Luiz Carlos Rodrigues Júnior, Alessandra Peres, Gilsane Lino von Poser and Pedro Roosevelt Torres Romão

1199

- MtDNA allows the sensitive detection and haplotyping of the crayfish plague disease agent *Aphanomyces astaci* showing clues about its origin and migration

Jenny Makkonen, Japo Jussila, Jörn Panteleit, Nina Sophie Keller, Anne Schrimpf, Kathrin Theissinger, Raine Kortet, Laura Martín-Torrijos, Jose Vladimir Sandoval-Sierra, Javier Diéguez-Uribeondo and Harri Kokko

1210

- The *in vitro* antileishmanial activity of essential oil from *Aloysia gratissima* and guaiol, its major sesquiterpene against *Leishmania amazonensis*

Maria Carolina Freitas Garcia, Deivid Costa Soares, Raissa Couto Santana, Elvira Maria Saraiva, Antonio Carlos Siani, Mônica Freiman S. Ramos, Maria das Graças Miranda Danelli, Thaís Cristina Souto-Padron and Lucia H. Pinto-da-Silva

1219

- Genetic diversity of *Blastocystis* in non-primate animals

Emma L. Betts, Eleni Gentekaki, Adele Thomasz, Vicki Breakell, Angus I. Carpenter and Anastasios D. Tsatsou

1228

- Differential virulence of camel *Trypanosoma evansi* isolates in mice

Christine M. Kamidi, Joanna Auma, Paul O. Mireji, Kariuki Ndungu, Rosemary Bateta, Richard Kurgat, Collins Ouma, Serap Aksoy and Grace Murilla

1235

- High diversity and low genetic structure of feather mites associated with a phenotypically variable bird host

Sofía Fernández-González, Antón Pérez-Rodríguez, Heather C. Proctor, Iván De la Hera and Javier Pérez-Tris

1243

- Trypanosoma cruzi*: death phenotypes induced by *ortho*-naphthoquinone substrates of the aldo-keto reductase (TcAKR). Role of this enzyme in the mechanism of action of β -lapachone

Patricia Andrea Garavaglia, María Fernanda Rubio, Marc Laverrière, Laura Mónica Tasso, Laura Edith Fichera, Joaquín J B Cannata and Gabriela Andrea García

1251