

# PARASITOLOGY

## CONTENTS

### REVIEW ARTICLES

Mechanisms of naturally acquired immunity to *P. falciparum* and approaches to identify merozoite antigen targets  
Julie Healer, Chris Y. Chiu and Diana S. Hansen

839

Parasite-mediated host behavioural modifications:  
*Gyrodactylus turnbulli* infected Trinidadian guppies increase contact rates with uninfected conspecifics  
Michael Reynolds, Elisavet A. Arapi and Jo Cable

920

X-ray micro-computed tomography ( $\mu$ CT): an emerging opportunity in parasite imaging

James D. B. O'Sullivan, Julia Behnken, Tobias Starborg, Andrew S. MacDonald, Alexander T. Phythian-Adams, Kathryn J. Else, Sheena M. Cruickshank and Philip J. Withers

848

Characterization of a glycine-rich protein from *Rhipicephalus microplus*: tissue expression, gene silencing and immune recognition  
B. F. Leal, M. F. Alzugaray, A. Seixas, I. Da Silva Vaz Jr and C. A. S. Ferreira

927

The truth about *in vitro* culture of *Cryptosporidium* species  
Panagiotis Karanis

855

Temperature modulates the interaction between fungicide pollution and disease: evidence from a *Daphnia*-microparasitic yeast model

Ana P. Cucu, Bruno B. Castro, Fernando Gonçalves, Justyna Wolinska and Nelson Abrantes

939

### RESEARCH ARTICLES

Molecular detection of *Cyclospora cayetanensis* in human stool specimens using UNEX-based DNA extraction and real-time PCR

Yvonne Qvarnstrom, Theresa Benedict, Paula L. Marcet, Ryan E. Wiegand, Barbara L. Herwaldt and Alexandre J. da Silva

865

Epidemiological investigation of a severe rumen fluke outbreak on an Irish dairy farm

James O'Shaughnessy, Andres Garcia-Campos, Conor G. McAlloon, Seamus Fagan, Theo de Waal, Maire McElroy, Micheal Casey, Barbara Good, Grace Mulcahy, John Fagan, Denise Murphy and Annetta Zintl

948

Characteristic pro-inflammatory cytokines and host defence cathelicidin peptide produced by human monocyte-derived macrophages infected with *Neospora caninum*

E. Boucher, M. Marin, R. Holani, M. Young-Speirs, D.M. Moore and E.R. Cobo

871

*In vitro* and *in vivo* efficacy of diamidines against *Trypanosoma equiperdum* strains

Kirsten Gillingwater

953

Genetic diversity and evolution of *Pneumocystis* fungi infecting wild Southeast Asian murid rodents

Alice Latinne, François Bezé, Laurence Delhaes, Muriel Pottier, Nausicaa Gantois, Julien Nguyen, Kim Blasdell, Eduardo Dei-Cas, Serge Morand and Magali Chabé

885

Environmental determinants of haemosporidian parasite prevalence in a declining population of Tree swallows

Audrey Turcotte, Marc Bélisle, Fanie Pelletier and Dany Garant

961

Molecular identification of parasitic nematodes (Nematoda: Strongylida) in feces of wild ruminants from Tunisia

Youssra Said, Mohamed Gharbi, Moez Mhadhbi, Moktar Dhibi and Samia Lahmar

901

Diversity, prevalence and host specificity of avian parasites in southern Tunisian oases

Tasnim Ayadi, Slaheddine Selmi, Abdessalem Hammouda, Sandra Reis, Thierry Boulinier and Claire Loiseau

971

Haemoparasites of the pied flycatcher: inter-population variation in the prevalence and community composition

Anna Dubiec, Edyta Podmokla, Iga Harnist and Tomasz D. Mazgajski

912