

PARASITOLOGY

CONTENTS

REVIEW ARTICLE

Towards a mechanistic understanding of competence: a missing link in diversity-disease research

Tara E. Stewart Merrill and Pieter T. J. Johnson

1159

RESEARCH ARTICLES

Roles of the Pumilio domain protein PUF3 in *Trypanosoma brucei* growth and differentiation

K. Kamanyi Marucha and C. Clayton

1171

Machine learning-based analyses support the existence of species complexes for *Strongyloides fuelleborni* and *Strongyloides stercoralis*

Joel L. N. Barratt and Sarah G. H. Sapp

1184

Interactions with ectoparasitic mites induce host metabolic and immune responses in flies at the expense of reproduction-associated factors

Joshua B. Benoit, Joy Bose, Samuel T. Bailey and Michal Polak

1196

Light intensity and spectral distribution affect chytrid infection of cyanobacteria via modulation of host fitness

Yile Tao, Justyna Wolinska, Franz Höller and Ramsy Agha

1206

Activity profile of two 5-nitroindazole derivatives over the moderately drug-resistant *Trypanosoma cruzi* Y strain (DTU TcI): *in vitro* and *in vivo* studies

Cristina Fonseca-Berzal, Cristiane França da Silva, Denise da Gama Jaen Batista, Gabriel Melo de Oliveira, José Cumella, Marcos Meuser Batista, Raiza Brandão Peres, Aline Silva da Gama Nefertiti, José A. Escario, Alicia Gómez-Barrio, Vicente J. Arán and Maria de Nazaré Correia Soeiro

1216

Diagnosis and prevalence of two new species of haplosporidians infecting shore crabs *Carcinus maenas*: *Haplosporidium carcinii* n. sp., and *H. cranc* n. sp.

Charlotte E. Davies, David Bass, Georgia M. Ward, Frederico M. Batista, Sophie H. Malkin, Jessica E. Thomas, Kelly Bateman, Stephen W. Feist, Christopher J. Coates and Andrew F. Rowley

1229

Molecular evidence of *Babesia caballi* and *Theileria equi* in equines and ticks in Nigeria: prevalence and risk factors analysis

ThankGod E. Onyiche, Moeti O. Taioe, Ndudim I. Ogo, Thillaiampalam Sivakumar, Abdullahi A. Biu, Albert W. Mbaya, Xuenan Xuan, Naoaki Yokoyama and Oriel Thekisoee

1238

Preliminary evaluation of a novel, fully automated, Telenostic device for rapid field-diagnosis of cattle parasites

Nagwa Elghryani, Joseph Crispell, Roohollah Ebrahimi, Michael Krivoruchko, Vladimir Lobaskin, Trish McOwan, William O'Connor, Eamonn Power, Bruno Voisin, Dimitri Scholz and Theo de Waal

1249