

PARASITOLOGY

CONTENTS

REVIEW ARTICLES

Human parasitology worldwide research

Jose Antonio Garrido-Cárdenas, Concepción Mesa-Valle and Francisco Manzano-Aguilaro

699

Circadian rhythms of trematode parasites: applying mixed models to test underlying patterns

Emily R. Hannon, Dana M. Calhoun, Sindhu Chadalawada and Pieter T.J. Johnson

783

The recurrent domestication of viruses: major evolutionary transitions in parasitic wasps

Jérémie Gauthier, Jean-Michel Drezen and Elisabeth A. Herniou

713

Incidence of paragonimiasis in Chongqing China: a 6-year retrospective case review

Xiaohong Peng, Jingru Zhang, Jian Zhang, Ying Wang and Xilin Zhang

792

RESEARCH ARTICLES

Host mating system and coevolutionary dynamics shape the evolution of parasite avoidance in *Caenorhabditis elegans* host populations

McKenna J. Penley and Levi T. Morran

724

The helminth community of a population of *Rattus norvegicus* from an urban Brazilian slum and the threat of zoonotic diseases

Ticiane Carvalho-Pereira, Fábio N. Souza, Luana R. N. Santos, Ruth Walker, Arsinoé C. Pertile, Daiana S. de Oliveira, Gabriel G. Pedra, Amanda Minter, Maria Gorete Rodrigues, Thiago C. Bahiense, Mittermayer G. Reis, Peter J. Diggle, Albert I. Ko, James E. Childs, Eduardo M. da Silva, Mike Begon and Federico Costa

797

Detecting signatures of past pathogen selection on human HLA loci: are there needles in the haystack?

Bridget S. Penman and Sunetra Gupta

731

Limitations of the *Echinococcus granulosus* genome sequence assemblies for analysis of the gene family encoding the EG95 vaccine antigen

Charles G. Gauci, Cristian A. Alvarez Rojas, Conan Chow and Marshall W. Lightowers

807

Antigenicity, immunogenicity and protective efficacy of a conserved *Leishmania* hypothetical protein against visceral leishmaniasis

Daniel S. Dias, Vivian T. Martins, Patrícia A. F. Ribeiro, Fernanda F. Ramos, Daniela P. Lage, Grasielle S. V. Tavares, Débora V. C. Mendonça, Miguel A. Chávez-Fumagalli, Jamil S. Oliveira, Eduardo S. Silva, Dawidson A. Gomes, Michele A. Rodrigues, Mariana C. Duarte, Alessandro S. Galdino, Daniel Menezes-Souza and Eduardo A. F. Coelho

740

Trophic relationship between the invasive parasitic copepod *Mytilicola orientalis* and its native blue mussel (*Mytilus edulis*) host

M. Anouk Goedknecht, David Shoesmith, A. Sarina Jung, Pieterella C. Luttkhuizen, Jaap van der Meer, Catharina J. M. Philippart, Henk W. van der Veer and David W. Thielges

814

Identification of a novel PYP-1 gene in *Sarcoptes scabiei* and its potential as a serodiagnostic candidate by indirect-ELISA

Jing Xu, Xing Huang, Manli He, Yongjun Ren, Nengxing Shen, Chunyan Li, Ran He, Yue Xie, Xiaobin Gu, Bo Jing, Xuerong Peng and Guangyou Yang

752

Timely trigger of caterpillar zombie behaviour: temporal requirements for light in baculovirus-induced tree-top disease

Yue Han, Stineke van Houte, Monique M. van Oers and Vera I. D. Ros

822

Differences between populations in host manipulation by the tapeworm *Schistocephalus solidus* – is there local adaptation?

Nina Hafer

762

Trypanosoma sp. diversity in Amazonian bats (Chiroptera; Mammalia) from Acre State, Brazil

Francisco C.B. dos Santos, Cristiane V. Lisboa, Samanta C.C. Xavier, Maria A. Dario, Raír de S. Verde, Armando M. Calouro, André Luiz R. Roque and Ana M. Jansen

828

Within-host interference competition can prevent invasion of rare parasites

Benjamin J. Z. Quigley, Sam P. Brown, Helen C. Leggett, Pauline D. Scanlan and Angus Buckling

770

Can *Wolbachia* modulate the fecundity costs of *Plasmodium* in mosquitoes?

F Zélé, J Denoyelle, O Duron and A Rivero

775