

Parasitology

Back volumes. Vols. 1–71: Inquiries should be addressed to Wm. Dawson & Sons Ltd, Cannon House, Folkestone, Kent. Vols. 72 onwards: quotations for parts still in print may be obtained from Cambridge or the American Branch of Cambridge University Press.

Copying. This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of US copyright law) subject to payment to C.C.C. of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0031–1820/2019 \$16.00.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions.

ISI Tear Sheet Service. 3501 Market Street, Philadelphia, Pennsylvania 19104, USA, is authorized to supply single copies of separate articles for private use only.

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

Claims for missing issues can only be considered if made immediately after receipt of the subsequent issue.

Advertising. Details of advertising in *Parasitology* may be obtained from the publisher.

Online submission. Authors are encouraged to submit their manuscripts online. Go to <http://mc.manuscriptcentral.com/par/> to open an author's account for *Parasitology*. Manuscript Central is helping to improve the speed of the publication process for the journal.

Front Cover illustration: The functional mechanism of anti-merozoite antibodies. Antibodies to merozoite surface proteins can mediate several effector mechanisms, including complement fixation due to cytophillic antibodies that result in merozoite lysis of C3b opsonization; inhibition of merozoite invasion into the RBC; phagocytosis of IgG-opsonized merozoites; production of reactive oxygen species (ROS) or Nitric oxide (NO) in response to opsonized parasites and antibody dependent cellular inhibition (ADCI) triggered by IgG-opsonized merozoites. From Healer et al., Vol. 145 (7), pp. 839–847.

© Cambridge University Press 2019

University Printing House, Cambridge CB2 8BS, United Kingdom
1 Liberty Plaza, Floor 20, New York, NY 10006, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
C/ Orense, 4, Planta 13 28020 Madrid, Spain
Lower Ground Floor, Nautica Building, The Water Club, Beach Road,
Granger Bay, 8005 Cape Town, South Africa

Printed in the UK by Bell & Bain

PARASITOLOGY

CONTENTS

REVIEW ARTICLE

Infection by *Trypanosoma cruzi* in the central nervous system in non-human mammals: a systematic review

Evaristo Villalba-Alemán, Mariáurea Matias Sarandy, Mônica Morais-Santos, Rômulo Dias Novaes and Reggiani Vilela Gonçalves 983

RESEARCH ARTICLES

Repurposing strategies for Chagas disease therapy: the effect of imatinib and derivatives against *Trypanosoma cruzi*

M. R. Simões-Silva, J. S. De Araújo, R. B. Peres, P. B. Da Silva, M. M. Batista, L. D. De Azevedo, M. M. Bastos, M. T. Bahia, N. Boechat and M. N. C. Soeiro 1006

The impact of botfly parasitism on the health of the gracile mouse opossum (*Gracilinanus agilis*)

Priscilla Lórá Zangrandi, André Faria Mendonça, Ariovaldo Pereira Cruz-Neto, Rudy Boonstra and Emerson M. Vieira 1013

Improved method for genotyping the causative agent of crayfish plague (*Aphanomyces astaci*) based on mitochondrial DNA

Diana Minardi, David J. Studholme, Birgit Oidtmann, Tobia Pretto and Mark van der Giezen 1022

Parasite prevalence increases with temperature in an avian metapopulation in northern Norway

H. Holand, H. Jensen, T. Kvalnes, J. Tufto, H. Pärn, B-E. Sæther and T.H. Ringsby 1030

Correlates of blood parasitism in a threatened marshland passerine: infection by kinetoplastids of the genus *Trypanosoma* is related to landscape metrics of habitat edge

Justyna Kubacka, Alina Gerlée, Julien Foucher, Judith Korb and Edyta Podmokła 1036

Molecular characterization and haplotypes of sheep and goat isolates of *Cysticercus tenuicollis* in Turkey

Seyma Gunyakti Kilinc, Harun Kaya Kesik and Sami Simsek 1047

Impact of levamisole in co-administration with benznidazole on experimental Chagas disease

Marianne Rocha Simões-Silva, Raiza Brandão Peres, Constança Britto, Cynthia Machado Cascabulho, Gabriel de Melo Oliveira, Aline Nefertiti da Gama, Cristiane França da Silva, Karine Lima da Costa, Paula Finamore Araújo, Jerônimo Diego de Souza Campos, Marcos Meuser Batista, Kelly Cristina Demarque, Otacilio da Cruz Moreira and Maria de Nazaré Correia Soeiro 1055

Evaluation of the multispecies coalescent method to explore intra-*Trypanosoma cruzi* relationships and genetic diversity

César Gómez-Hernández, Sergio D. Pérez, Karine Rezende-Oliveira, Cecilia G. Barbosa, Eliane Lages-Silva, Luis Eduardo Ramírez and Juan David Ramírez 1063

Participation of *Trypanosoma cruzi* gp63 molecules on the interaction with *Rhodnius prolixus*

Karina M. Rebello, Livia A. Uehara, Vítor Ennes-Vidal, Aline S. Garcia-Gomes, Constança Britto, Patrícia Azambuja, Rubem F. S. Menna-Barreto, André L. S. Santos, Marta H. Branquinha and Claudia M. d'Ávila-Levy 1075

Two lineages of kingfisher feather lice exhibit differing degrees of cospeciation with their hosts

Therese A. Catanach, Kevin P. Johnson, Ben D. Marks, Robert G. Moyle, Michel P. Valim and Jason D. Weckstein 1083

Parasitic nematodes simultaneously suppress and benefit from coccidian coinfection in their natural mouse host

Melanie Clerc, Andy Fenton, Simon A. Babayan and Amy B. Pedersen 1096

Parasitic nematodes simultaneously suppress and benefit from coccidian coinfection in their natural mouse host – CORRIGENDUM

Melanie Clerc, Andy Fenton, Simon A. Babayan and Amy B. Pedersen 1107

Unveiling patterns of genetic variation in parasite-host associations: an example with pinworms and Neotropical primates – CORRIGENDUM

Brenda Solórzano-García, Amanda D. Melin, Filippo Aureli and Gerardo Pérez-Ponce de León 1108