

Trends in Parasitology

December 2019, Volume 35, Number 12, pp. 947–1020

Spotlight

- 947 Mannogen-ing Central Carbon Metabolism by *Leishmania* Kai Zhang and Stephen M. Beverley

Forum

- 949 Multiple Blood Feeding: A Force Multiplier for Transmission Riley E. Tedrow, Peter A. Zimmerman, and Karen C. Abbott

Opinions

- 953 Artemisinin Bioactivity and Resistance in Malaria Parasites Arthur M. Talman, Jérôme Clain, Romain Duval, Robert Ménard, and Frédéric Ariey
- 964 Schistosomiasis and Infertility: What Do We Know? Ana Rita Ribeiro, Carla Luis, Ruben Fernandes, and Monica C. Botelho
- 972 Towards a Unified Functional Trait Framework for Parasites Cristina Llopis-Belenguer, Juan Antonio Balbuena, Katharina Lange, Francesco de Bello, and Isabel Blasco-Costa

Reviews

- 983 *Trypanosoma brucei gambiense* Group 2: The Unusual Suspect Vincent Jamonneau, Philippe Truc, Pascal Grébaud, Stéphane Herder, Sophie Ravel, Philippe Solano, and Thierry De Meeus
- 996 Roles of Phosphoinositides and Their binding Proteins in Parasitic Protozoa Lenka Cernikova, Carmen Faso, and Adrian B. Hehl
- 1009 Progress towards Understanding the Mosquito-Borne Virus Life Cycle Xi Yu, Yibin Zhu, Xiaoping Xiao, Penghua Wang, and Gong Cheng

Editor

Pengfei Kong

Trends Publisher

Jessica Miles

Journal Manager

Margriet ten Napel

Journal Administrator

Patrick Scheffmann

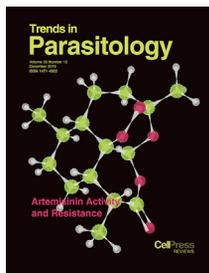
Advisory Editorial Board

John H. Adams
María-Gloria Basáñez
Paul A. Bates
Jane M. Carlton
Flaminia Catteruccia
Anne Cooke
Brian M. Cooke
Frank E.G. Cox
Christian Doerig
Dirk Engels
Robin B. Gasser
Ian M. Hastings
Lars Hviid
Elisabeth A. Innes
Marcelo Jacobs-Lorena
Francois Nosten
Eric A. Ottesen
Julian C. Rayner
Lucy J. Robertson
Carol Hopkins Sibley
Robert W. Snow
Boris Striepen
R.C. Andrew Thompson
Joanne P. Webster
Xing-Quan Zhu

Parasite of the Month

1018 *Leishmania Viannia guyanensis*

Martin Olivier,
Aida Minguéz-Menéndez,
and Christopher
Fernández-Prada



On The Cover: Artemisinin and its derivatives have been serving as the most effective compounds in malaria treatment worldwide since their discovery from Chinese traditional medicine back in 1972. Unfortunately, resistance to artemisinin has emerged in Southeast Asia about a decade ago. Since then, the potential spread of resistance has been threatening global malaria control and elimination efforts. In this issue of *Trends in Parasitology*, Dr. Frédéric Arieu and colleagues, the group who first identified the main artemisinin resistance marker K13, give an overview of recent artemisinin research and offer an updated model of the artemisinin resistance mechanism. Cover image (molecular structure of artemisinin) courtesy of iStockPhoto/shunyufan.

Editorial Inquiries

Trends in Parasitology
Cell Press
50 Hampshire St. 5th Floor
Cambridge, MA 02139, USA
Tel: 617 397 2800
E-mail: parasites@cell.com

CellPress
REVIEWS