

PARASITOLOGY

CONTENTS

EDITORIAL

Kinetoplastid cell biology and genetics, from the 2020 British Society for Parasitology Trypanosomiasis and Leishmaniasis symposium, Granada, Spain

Pegine B. Walrad, Mark C. Field, Miguel Navarro and Derrick R. Robinson

1119

RESEARCH ARTICLE

A new subspecies of *Trypanosoma cyclops* found in the Australian terrestrial leech *Chtonobdella bilineata*

John Ellis, Joel Barratt, Alexa Kaufer, Lauren Pearn, Brigitte Armstrong, Michael Johnson, Yasunori Park, Lara Downey, Maisie Cao, Levina Neill, Rogan Lee, Bethany Ellis, Kevin Tyler, Zhao-Rong Lun and Damien Stark

1125

REVIEW ARTICLE

Evolution, function and roles in drug sensitivity of trypanosome aquaglyceroporins

Juan F. Quintana and Mark C. Field

1137

RESEARCH ARTICLE

Effects of trypanocidal drugs on DNA synthesis: new insights into melarsoprol growth inhibition

Stephen Larson, McKenzie Carter and Galadriel Hovel-Miner

1143

REVIEW ARTICLE

Redesigned and reversed: architectural and functional oddities of the trypanosomal ATP synthase

Ondřej Gahura, Carolina Hierro-Yap and Alena Zilková

1151

RESEARCH ARTICLES

Differences in mitochondrial NADH dehydrogenase activities in trypanosomatids

Petra Čermáková, Anna Mad'arová, Peter Bäráth, Jana Bellová, Vyacheslav Yurchenko and Anton Horváth

1161

A *Trypanosoma cruzi* zinc finger protein that is implicated in the control of epimastigote-specific gene expression and metacyclogenesis

Thais S. Tavares, Fernanda L. B. Mügge, Viviane Grazielle-Silva, Bruna M. Valente, Wanessa M. Goes, Antonio E. R. Oliveira, Ashton T. Belew, Alessandra A. Guarneri, Fabiano S. Pais, Najib M. El-Sayed and Santuza M. R. Teixeira

1171

Insights into the functions and RNA binding of

Trypanosoma brucei ZC3H22, RBP9 and DRBD7

Esteban Erben, Kevin Leiss, Bin Liu, Diana Inchaustegui Gil, Claudia Helbig and Christine Clayton

1186

REVIEW ARTICLES

Nuclear mRNA maturation and mRNA export control: from trypanosomes to opisthokonts

Susanne Kramer

1196

Nuclear tRNA export in trypanosomes: a journey full of twists and turns guided by tRNA modifications

Zdeněk Paris

1219

Application of single-cell transcriptomics to kinetoplastid research

Emma M. Briggs, Felix S. L. Warren, Keith R. Matthews, Richard McCulloch and Thomas D. Otto

1223

A nuclear enterprise: zooming in on nuclear organization and gene expression control in the African trypanosome

Joana R. C. Faria

1237

RESEARCH ARTICLE

Diverse telomeres in trypanosomatids

Ester Poláková, Kristína Záhonová, Amanda T. S. Albanaz, Anzhelika Butenko, Julius Lukeš and Vyacheslav Yurchenko

1254

REVIEW ARTICLE

p67: a cryptic lysosomal hydrolase in *Trypanosoma brucei*?

Carolina M. Koeller, Terry K. Smith, Andrew M. Gulick and James D. Bangs

1271