

# PARASITOLOGY

## CONTENTS

### SPECIAL ISSUE ARTICLES

- ApiCOWplexa 2013 – 2nd International Meeting on Apicomplexan Parasites in Farm Animals**  
Andrew Hemphill and Alexandre Leitão 1355
- Persistence of *Toxoplasma gondii* tissue stages in poultry over a conventional fattening cycle**  
A.-C. Geuthner, M. Koethe, M. Ludewig, S. Pott, G. Schares, A. Dauschies and B. Bangoura 1359
- Veterinary vaccines against toxoplasmosis**  
Elżbieta Hiszczyńska-Sawicka, Justyna M. Gatkowska, Marcin M. Grzybowski and Henryka Długońska 1365
- Strategies for anti-coccidial prophylaxis**  
David M. Witcombe and Nicholas C. Smith 1379
- Advantages and disadvantages of conditional systems for characterization of essential genes in *Toxoplasma gondii***  
Elena Jiménez-Ruiz, Eleanor H. Wong, Gurman S. Pall and Markus Meissner 1390
- Purine salvage in the apicomplexan *Sarcocystis neurona*, and generation of hypoxanthine-xanthine-guanine phosphoribosyltransferase-deficient clones for positive-negative selection of transgenic parasites**  
Sriveny Dangoudoubiyam, Zijiang Zhang and Daniel K. Howe 1399
- A review on bovine besnoitiosis: a disease with economic impact in herd health management, caused by *Besnoitia besnoiti* (Franco and Borges, 1916)**  
Helder Cortes, Alexandre Leitão, Bruno Gottstein and Andrew Hemphill 1406
- Dynamics of *Besnoitia besnoiti* infection in cattle**  
G. Álvarez-García, P. García-Lunar, D. Gutiérrez-Expósito, V. Shkap and L. M. Ortega-Mora 1419
- Besnoitia besnoiti* and *Toxoplasma gondii*: two apicomplexan strategies to manipulate the host cell centrosome and Golgi apparatus**  
Rita Cardoso, Sofia Nolasco, João Gonçalves, Helder C. Cortes, Alexandre Leitão and Helena Soares 1436
- Control options for *Neospora caninum* – is there anything new or are we going backwards?**  
Michael P. Reichel, Milton M. McAllister, William E. Pomroy, Carlos Campero, Luis M. Ortega-Mora and John T. Ellis 1455
- Experimental ruminant models for bovine neosporosis: what is known and what is needed**  
Julio Benavides, Esther Collantes-Fernández, Ignacio Ferre, Valentín Pérez, Carlos Campero, Rinaldo Mota, Elisabeth Innes and Luis M. Ortega-Mora 1471
- The intriguing host innate immune response: novel anti-parasitic defence by neutrophil extracellular traps**  
Carlos Hermosilla, Tamara Muñoz Caro, Liliana M. R. Silva, Antonio Ruiz and Anja Taubert 1489
- The gatekeeper residue and beyond: homologous calcium dependent protein kinases as drug development targets for veterinarian Apicomplexa parasites**  
Katelyn R. Keyloun, Molly C. Reid, Ryan Choi, Yifan Song, Anna M.W. Fox, Heidi K. Hillesland, Zhongsheng Zhang, Ramasubbarao Vidadala, Ethan A. Merritt, Audrey O. T. Lau, Dustin J. Maly, Erkang Fan, Lynn K. Barrett, Wesley C. van Voorhis and Kayode K. Ojo 1499
- Cryptosporidium* infections: molecular advances**  
Matthias Lendner and Arwid Dauschies 1511