

PARASITOLOGY

CONTENTS

REVIEW ARTICLE

- Helminth-induced apoptosis: a silent strategy for immunosuppression
Amin Zakeri

1663

1763

RESEARCH ARTICLES

- Modelling the spatial distribution of *Fasciola hepatica* in bovines using decision tree, logistic regression and GIS query approaches for Brazil
S.C. Bennema, M.B. Molento, R.G. Scholte, O.S. Carvalho and I. Pritsch

1677

1769

- QTL mapping of a natural genetic polymorphism for long-term parasite persistence in *Daphnia* populations
Michelle Krebs, Jarkko Routtu and Dieter Ebert

1686

1775

- Functional characterization of single-domain cystatin-like cysteine proteinase inhibitors expressed by the trematode *Fasciola hepatica*
Martín Cancela, Ileana Corvo, Edileuza Da Silva, Aline Teichmann, Leda Roche, Alvaro Díaz, José Francisco Tort, Henrique B. Ferreira and Arnaldo Zaha

1695

1783

- Migration of *Fasciola hepatica* newly excysted juveniles is inhibited by high-mannose and oligomannose-type N-glycan-binding lectins
Andrés García-Campos, Alan W. Baird and Grace Mulcahy

1708

1791

- Studies *in vitro* on infectivity and sensitivity to antileishmanial drugs in New World *Leishmania* species transfected with the green fluorescent protein [pLR3(-)-eGFP]
Genesis Palacios, Adriana Parodi, Yulieth A. Upegui, Andrés Montoya, Sergio Pulido, Iván D. Vélez and Sara M. Robledo

1718

1802

- Molecular characterization and distribution of *Plasmodium matutinum*, a common avian malaria parasite
Gediminas Valkūnas, Mikas Igūnas, Dovilė Bukauskaitė, Vaidas Palinauskas, Rasa Bernotienė and Tatjana A. Iezhova

1726

1811

- The impact of socio-cultural factors on transmission of *Taenia* spp. and *Echinococcus granulosus* in Kosovo
M. Alishani, K. Sherifi, A. Rexhepi, A. Hamidi, M.T. Armua-Fernandez, F. Grimm, D. Hegglin and P. Deplazes

1736

1821

- Use of a real-time PCR to explore the intensity of *Plasmodium* spp. infections in native, endemic and introduced New Zealand birds
D.C. Sijbranda, B.D. Gartrell, Z.L. Grange and L. Howe

1743

1828

- Signatures of mito-nuclear discordance in *Schistosoma turkestanicum* indicate a complex evolutionary history of emergence in Europe
Scott P. Lawton, Lauren I. Bowen, Aidan M. Emery and Gábor Majoros

1752

1841

- New parasitological findings for pre-Hispanic camelids
V. Taglioretti, M.H. Fugassa, D. Rindel and N.H. Sardella

1763

- Lipid-core nanocapsules increase the oral efficacy of quercetin in cutaneous leishmaniasis
A.J. Sousa-Batista, F.S. Poletto, C.I.M.S. Philipon, S.S. Guterres, A.R. Pohlmann and B. Rossi-Bergmann

1769

- Parasites as prey: the effect of cercarial density and alternative prey on consumption of cercariae by four non-host species
Jennifer E. Welsh, Caroline Liddell, Jaap Van Der Meer and David W. Thielges

1775

- In vitro* antileishmanial activity and iron superoxide dismutase inhibition of arylamine Mannich base derivatives
Alvaro Martín-Montes, Mery Santamaría-Veliz, Elsa Moreno-Viguri, Rubén Martín-Escalona, Carmen Jiménez-Montes, Catalina López-González, Clotilde Marín, Carmen Sanmartín, Ramón Gutiérrez Sánchez, Manuel Sánchez-Moreno and Silvia Pérez-Silanes

1783

- The first detection of *Toxoplasma gondii* DNA in environmental air samples using gelatine filters, real-time PCR and loop-mediated isothermal (LAMP) assays: qualitative and quantitative analysis
Anna Lass, Beata Szostakowska, Krzysztof Korzeniewski and Panagiotis Karanis

1791

- Antiprotozoal effects of metal nanoparticles against *Ichthyophthirius multifiliis*
Mona Saleh, Abdel-Azeem Abdel-Baki, Mohamed A. Dkhil, Mansour El-Matbouli and Saleh Al-Quraishi

1802

- Cryptosporidium* in fish: alternative sequencing approaches and analyses at multiple loci to resolve mixed infections
Andrea Paparini, Rongchang Yang, Linda Chen, Kaising Tong, Susan Gibson-Kueh, Alan Lymbery and Una M. Ryan

1811

- First detection of *Echinococcus multilocularis* in rodent intermediate hosts in Turkey
Hamza Avcioglu, Esin Guven, Ibrahim Balkaya, Ridvan Kirman, Mohammed Mebarek Bia, Hatice Gulbeyen, Ali Kurt, Sali Yaya and Sadık Demirtas

1821

- Speciation in the genus *Cloacina* (Nematoda: Strongylida): species flocks and intra-host speciation
N.B. Chilton, M.A. Shuttleworth, F. Huby-Chilton, A.V. Koehler, A. Jabbar, R.B. Gasser and I. Beveridge

1828

OBITUARY

- Obituary of Professor Keith Vickerman FRS: Professor Keith Vickerman 1931–2016
Francis Cox

1841