

PARASITOLOGY

CONTENTS

SPECIAL ISSUE

INVITED CONTRIBUTIONS

- Mathematical modelling of infectious diseases**
Andy Fenton 801
- Models for managing wildlife disease**
Hamish McCallum 805
- Integrating serological and genetic data to quantify cross-species transmission: brucellosis as a case study**
Mafalda Viana, Gabriel M. Shirima, Kunda S. John, Julie Fitzpatrick, Rudovick R. Kazwala, Joram J. Buza, Sarah Cleaveland, Daniel T. Haydon and Jo E. B. Halliday 821
- Pertussis immunity and epidemiology: mode and duration of vaccine-induced immunity**
F. M. G. Magpantay, M. Domenech de Cellès, P. Rohani and A. A. King 835
- Past and future perspectives on mathematical models of tick-borne pathogens**
R. A. Norman, A. J. Worton and L. Gilbert 850
- Dengue and chikungunya: modelling the expansion of mosquito-borne viruses into naïve populations**
Helen J. Wearing, Michael A. Robert and Rebecca C. Christofferson 860
- Vector species richness increases haemorrhagic disease prevalence through functional diversity modulating the duration of seasonal transmission**
Andrew W. Park, Christopher A. Cleveland, Tad A. Dallas and Joseph L. Corn 874
- Body size and meta-community structure: the allometric scaling of parasitic worm communities in their mammalian hosts**
Giulio A. de Leo, Andrew P. Dobson and Marino Gatto 880
- Integrating immune mechanisms to model nematode worm burden: an example in sheep**
Romain Garnier, Bryan T. Grenfell, Alasdair J. Nisbet, Jacqueline B. Matthews and Andrea L. Graham 894
- The role of models in translating within-host dynamics to parasite evolution**
Megan A. Greischar, Sarah E. Reece and Nicole Mideo 905
- The adaptive evolution of virulence: a review of theoretical predictions and empirical tests**
Clayton E. Cressler, David V. McLeod, Carly Rozins, Josée van den Hoogen and Troy Day 915