

TABLE OF CONTENTS

Advances in Parasitology, Volume 117

- Title page
- Table of Contents
- Copyright
- Contributors
- **Chapter One: The microscopic five of the big five: Managing zoonotic diseases within and beyond African wildlife protected areas**
- Abstract
- 1: Introduction
- 2: The 'Microscopic Five'
- 3: Challenges of BTb control at the wildlife-livestock interface: The South African case study
- 4: Drivers of disease: The Kruger National Park case study
- 5: Disease knowledge gaps and lessons learnt from African protected areas
- 6: Communities and conservation
- 7: Conclusions
- Acknowledgements
- References
- **Chapter Two: Improving translational power in antischistosomal drug discovery**
- Abstract
- 1: Filling the drug pipeline for schistosomiasis
- 2: Evaluating the importance of *S. mansoni* isolate origin for early antischistosomal drug discovery
- 3: The *S. mansoni* mouse model for drug efficacy testing
- 4: Infection intensity of the patent *S. mansoni* mouse model
- 5: Pharmacokinetic/pharmacodynamic (PK/PD) relationship of selected drugs
- 6: Concluding remarks
- Acknowledgements and funding

- References
- **Chapter Three: Unique thiol metabolism in trypanosomatids: Redox homeostasis and drug resistance**
- Abstract
- 1: Introduction
- 2: Trypanothione metabolism
- 3: Effector proteins of the antioxidant defence: Old and new actors
- 4: Trypanothione metabolism is linked to cysteine, polyamine, and pentose phosphate pathway
- 5: The role of redox active compounds and their mechanism in parasites survival
- 6: Role of thiol metabolism in drug resistance
- 7: Anti-parasitic potential of molecules targeted against redox metabolism
- 8: Unsolved questions and future prospects
- References.