

Contents

Preface	V
Contents	VII
List of authors	XI
Part I. Introduction and definitions	
1 Micromammals and macroparasites: Who is who and how do they interact?	
S. Morand, B.R. Krasnov, R. Poulin and A.A. Degen.....	3
Part II. Major taxa parasitic on micromammals	
2 Digenean trematodes	
C. Feliu, J. Torres, J. Miquel, J.M. Segovia and R. Fons	13
3 Cestodes of small mammals: Taxonomy and life cycles	
B.B. Georgiev, R.A. Bray and D.T.J. Littlewood.....	29
4 Nematodes	
S. Morand, S. Bouamer and J.-P. Hugot.....	63
5 Acanthocephalans	
A. Ribas and J.C. Casanova.....	81
6 Taxonomy, host associations, life cycles and vectorial importance of ticks parasitizing small mammals	
L.A. Durden.....	91
7 Mesostigmatid mites as parasites of small mammals: Systematics, ecology, and the evolution of parasitic associations	
A.P.G. Dowling	103

8 Taxonomy, life cycles and the origin of parasitism in trombiculid mites	
A.B. Shatrov and N.I. Kudryashova.....	119
9 Blood-sucking lice (Anoplura) of small mammals: True parasites	
K.C. Kim	141
10 Fleas: Permanent satellites of small mammals	
S.G. Medvedev and B.R. Krasnov.....	161
11 Bat flies: Obligate ectoparasites of bats	
C.W. Dick and B.D. Patterson.....	179
Part III. Patterns	
12 Patterns of macroparasite diversity in small mammals	
B.R. Krasnov, R. Poulin and S. Morand.....	197
13 Patterns of host specificity in parasites exploiting small mammals	
R. Poulin, B.R. Krasnov and S. Morand.....	233
14 Coevolution of macroparasites and their small mammalian hosts: Cophylogeny and coadaptation	
J.-P. Hugot.....	257
15 Comparative phylogeography: The use of parasites for insights into host history	
C.M. Nieberding and S. Morand	277
16 Insularity and micromammal-macroparasite relationships	
E. Magnanou and S. Morand	295
Part IV. Processes	
17 Models for host-macroparasite interactions in micromammals	
R. Rosà, A. Rizzoli, N. Ferrari and A. Pugliese	319

18 Transmission ecology and the structure of parasite communities in small mammals	
I.M. Cattadori, V. Haukisalmi, H. Henttonen and P.J. Hudson.....	349
19 Effect of macroparasites on the energy budget of small mammals	
A.A. Degen.....	371
20 Immunogenetics of micromammal-macroparasite interactions	
N. Charbonnel, J. Goüy de Bellocq and S. Morand.....	401
21 Interactions among immune, endocrine, and behavioural response to infection	
Z.M. Weil, L.B. Martin II and R.J. Nelson.....	443
22 Behaviour, life history strategies and parasite infection in rodents	
C.J. Barnard and J.M. Behnke	475
Part V. Management and Case Studies	
23 Nematode zoonoses	
J.C. Casanova, A. Ribas and J. M. Segovia.....	515
24 Rodents as definitive hosts of <i>Schistosoma</i>, with special reference to <i>S. mansoni</i> transmission	
J.-M. Duplantier and M. Sene.....	527
25 Towards understanding the impacts of environmental variation on <i>Echinococcus multilocularis</i> transmission	
D.R.J. Pleydell, F. Raoul, A. Vaniscotte, P.S. Craig and P. Giraudoux.....	545
26 Parasites and pest population management	
H. Leirs and G.R. Singleton.....	565
27 Biological conservation and parasitism	
P. Christe, S. Morand and J. Michaux	593

Part VI. Conclusion

28 Global changes and the future of micromammal-macroparasite interactions

S. Morand, R. Poulin and B.R. Krasnov.....617

Index.....637