

Contents

Contributors xi

Part I. Recurring Themes

1. Nature and Causes of Variation 3
Susan J. Mazer
John Damuth
2. Evolutionary Significance of Variation 16
Susan J. Mazer
John Damuth
3. Natural Selection 29
Daphne J. Fairbairn
Jeff P. Reeve
4. Adaptation 44
David Reznick
Joseph Travis
5. Phenotypic Plasticity 58
Massimo Pigliucci
6. Population Structure 70
Leonard Nunney

7. Inbreeding and Outbreeding 84
Nickolas M. Waser
Charles F. Williams

Part II. Life Histories

8. Age and Size at Maturity 99
Derek A. Roff
9. Offspring Size and Number 113
Frank J. Messina
Charles W. Fox
10. Senescence 128
Marc Tatar
11. Life Cycles 142
Jan A. Pechenik
12. Sex and Gender 154
Turk Rhen
David Crews
13. Sex Ratios and Sex Allocation 165
Steven Hecht Orzack
14. Ecological Specialization and Generalization 177
Douglas J. Futuyma

Part III. Behavior

15. Mating Systems 193
Ann K. Sakai
David F. Westneat
16. Sexual Selection 207
Udo M. Savalli
17. Cooperation and Altruism 222
David Sloan Wilson
18. Foraging Behavior 232
Donald L. Kramer
19. The Evolutionary Ecology of
Movement 247
Hugh Dingle
Marcel Holyoak

Part IV. Interspecific Interactions

20. Ecological Character Displacement 265
Dolph Schluter
21. Predator-Prey Interactions 277
Peter A. Abrams

22. Parasite-Host Interactions 290
Curtis M. Lively
23. Plant-Herbivore Interactions 303
May Berenbaum
24. Mutualisms 315
Judith L. Bronstein
25. The Geographic Dynamics of
Coevolution 331
John N. Thompson

Part V. Adaptation to Anthropogenic Change

26. Pesticide Resistance 347
John A. McKenzie
27. Predicting the Outcome of Biological
Control 361
Judith H. Myers
28. Evolutionary Conservation Biology 371
Philip W. Hedrick

References 385

Index 415