

1. Plasticity, Complexity and the Individual  
Cameron K. Ghalambor, Lynn B. Martin and H. Arthur Woods
2. The Ecological and Evolutionary Importance of Variation in Life History Reaction Norms  
Daniel H. Nussey
3. Curve-Thinking: Understanding Reaction Norms and Developmental Trajectories as Traits  
Joel Kingsolver, Sarah Diamond, and Richard Gomulkiewicz
4. Plasticity and Personality  
Kimberley J. Mathot and Niels J. Dingemanse
5. Induction and Function of Polyphenic Morphs: Proximate Regulatory Mechanisms and Evolutionary Implications  
Anthony J. Zera and Jennifer A. Brisson
6. Evolutionary Systems Biology: Shifting Focus to the Context-Dependency of Genetic Effects  
Mihaela Pavličev and Günter P. Wagner
7. The Role of Ecological Epigenetics in Integrative Biology  
Aaron W. Schrey, Joshua Banta, Holly J. Kilvitis, Christina L. Richards
8. An Elephant in the Fog: Unifying Concepts of Physiological Stasis and Change  
H. Arthur Woods and J. Keaton Wilson
9. Physiological Regulatory Networks: The Orchestra of Life?  
Lynn B. Martin and Alan A. Cohen
10. Integrating Costs of Reproduction Between the Sexes  
Robert M. Cox
11. Immune Systems: Linking Organisms, Populations, and Evolution Through Disease  
James S. Adelman
12. Developmental Plasticity of Individual Variation in Stress Responses  
Haruka Wada
13. A Common Framework for the Regulation of Growth and Size: Stepping Away from the Trees to See the Forest  
Goggy Davidowitz and Bryan R. Helm

14. Adding Fuel to the “Fire of Life”: Energy Budgets Across Levels of Variation in Ectotherms and Endotherms  
Vincent Careau, Shaun S. Killen and Neil B. Metcalfe
15. Biological Timekeeping: Individual Variation, Performance, and Fitness  
Scott A. MacDougall-Shackleton, Heather E. Watts and Thomas P. Hahn
16. Senescence: Integrating Biology from Cradle to the Grave  
Mark F. Haussman and Lisa A. Treidel
17. Linking Physiology, Climate and Species Distributional Ranges  
Francisco Bozinovic and Daniel E. Naya
18. Trade-Offs and Biological Diversity: Integrative Answers to Ecological Questions  
Paul R. Martin
19. Conclusions: The Central Role of the Organism in Biology  
H. Arthur Woods, Lynn B. Martin, Cameron K. Ghalambor