

Contents

Reticulate Evolution Everywhere	1
Nathalie Gontier	
Symbiosis—Evolution’s Co-Author.	41
Douglas Zook	
Can We Understand Evolution Without Symbiogenesis?	81
Francisco Carrapiço	
Novel Endosymbioses as a Catalyst of Fast Speciation	107
Vitor G. Faria and Élio Sucena	
Historical and Epistemological Perspectives on What Horizontal Gene Transfer Mechanisms Contribute to Our Understanding of Evolution	121
Nathalie Gontier	
Plasmids: Histories of a Concept.	179
William C. Summers	
Symbiosis Between Non-Transferable Plasmids and Prokaryotic Cells . . .	191
Francisco Dionisio, João Alves Gama and André F.P. Carvalho	
Host–Symbiont–Pathogen–Host Interactions: Wolbachia, Vector-Transmitted Human Pathogens, and the Importance of Quantitative Models of Multipartite Coevolution	207
Caetano Souto-Maior	
Evolution of the Human Microbiome and Impacts on Human Health, Infectious Disease, and Hominid Evolution	231
Laura S. Weyrich	

Divergence-with-Gene-Flow—What Humans and Other Mammals Got up to	255
Michael L. Arnold, Amanda N. Brothers, Jennafer A.P. Hamlin, Sunni J. Taylor and Noland H. Martin	
 A Multiset Model of Multi-Species Evolution to Solve Big Deceptive Problems	 297
Luís Correia and António Manso	

Reticulate Evolution

Symbiogenesis, Lateral Gene Transfer, Hybridization
and Infectious Heredity

Gontier, N. (Ed.)

2015, XII, 337 p. 61 illus., 54 illus. in color., Hardcover

ISBN: 978-3-319-16344-4