

Cambridge University Press

978-1-107-02701-5 - Evolutionary Biology: Conceptual, Ethical, and Religious Issues

Edited by R. Paul Thompson and Denis Walsh

Table of Contents

[More information](#)*Contents*

<i>List of contributors</i>	<i>page</i> ix
<i>Acknowledgments</i>	xi
Introduction	I
1 Human evolution: whence and whither? <i>Francisco Ayala</i>	13
PART I EVOLUTION AND THEOLOGY 29	
2 Evolutionary theory, causal completeness, and theism: the case of “guided” mutation <i>Elliott Sober</i>	31
3 Religion, truth, and progress <i>Philip Kitcher</i>	45
PART II TAXONOMY AND SYSTEMATICS 63	
4 Consilience, historicity, and the species problem <i>Marc Ereshefsky</i>	65
5 DNA barcoding and taxonomic practice <i>David Castle</i>	87
PART III THE STRUCTURE OF EVOLUTIONARY THEORY 107	
6 Darwin’s theory and the value of mathematical formalization <i>R. Paul Thompson</i>	109

Cambridge University Press

978-1-107-02701-5 - Evolutionary Biology: Conceptual, Ethical, and Religious Issues

Edited by R. Paul Thompson and Denis Walsh

Table of Contents

[More information](#)

viii

Contents

7	Population genetics, economic theory, and eugenics in R. A. Fisher <i>Jean Gayon</i>	137
8	Exploring development and evolution on the tangled bank <i>Jane Maienschein and Manfred Laubichler</i>	151
PART IV FUNCTION, ADAPTATION, AND DESIGN		173
9	Darwin's cyclopean architect <i>John Beatty</i>	175
10	Function and teleology <i>Denis Walsh</i>	193
11	How physics fakes design <i>Alex Rosenberg</i>	217
<i>Index</i>		239