

Cambridge University Press

978-0-521-31021-5 - Dimensions of Darwinism: Themes and Counterthemes in Twentieth-Century Evolutionary Theory

Edited by Marjorie Grene

Table of Contents

[More information](#)

 CONTENTS

List of contributors vii *Acknowledgments* ix

Introduction *Marjorie Grene* *page* 1

PART I. THE DEVELOPING SYNTHESIS

1. Fisher's entrance into evolutionary science: the role of eugenics *Bernard Norton* 19
2. The abandonment of Lamarckian explanations: the case of climatic parallelism of animal characteristics *Bernhard Rensch* 31
3. The development of Wright's theory of evolution: systematics, adaptation, and drift *William B. Provine* 43
4. The hardening of the modern synthesis *Stephen Jay Gould* 71

PART II. MIMETIC THEORY: ITS RELATION TO THE HISTORY OF EVOLUTIONARY BIOLOGY

5. Mimicry: views of naturalists and ecologists before the modern synthesis *William C. Kimler* 97
6. "The hypothesis that explains mimetic resemblance explains evolution": the gradualist–saltationist schism *John R. G. Turner* 129

PART III. THE GERMAN PALEONTOLOGICAL AND MORPHOLOGICAL TRADITION

7. Evolutionary theory in German paleontology *Wolf-Ernst Reif* 173
8. The role of morphology in the theory of evolution *Rupert Riedl* 205

Cambridge University Press

978-0-521-31021-5 - Dimensions of Darwinism: Themes and Counterthemes in Twentieth-Century Evolutionary Theory

Edited by Marjorie Grene

Table of Contents

[More information](#)

vi

*Contents*PART IV. SOME CONTEMPORARY ISSUES: THE
SYNTHESIS RECONSIDERED

- | | |
|--|-----|
| 9. Paleobiology at the crossroads: a critique of some modern paleobiological research programs <i>Antoni Hoffman</i> | 241 |
| 10. Current controversies in evolutionary biology <i>John Maynard Smith</i> | 273 |
| 11. "Adaptation" <i>Richard M. Burian</i> | 287 |
| 12. Evolutionary theory and its consequences for the concept of adaptation <i>D. S. Peters</i> | 315 |

Index 329