

CONTENTS

<i>Foreword by John Maynard Smith</i>	ix
<i>Preface</i>	xi
PART 1: DARWINISM, ITS RIVALS AND ITS RENEGADES	
Chapter 1 Walking archives	3
Chapter 2 A world without Darwin	7
1859	7
<i>Rivals and follies: 1859 and beyond</i>	35
<i>Goodbye to all that</i>	47
Chapter 3 Darwinism old and new	53
<i>Anticipations of things past</i>	53
<i>Organism to gene</i>	59
<i>Structures to strategists</i>	66
<i>Complexities and diversities</i>	79
Chapter 4 Demarcations of design	81
<i>The scrapheap of chance</i>	87
<i>'Strange deviations tied together'</i>	93
<i>Artefacts of our minds</i>	106
PART 2: THE PEACOCK	
Chapter 5 The sting in the peacock's tail	113
<i>Flying in the face of natural selection</i>	113
<i>The career of a controversy</i>	118
Chapter 6 Nothing but natural selection?	123
<i>'The advocate of pure Darwinism'</i>	123
<i>Coloration for protection</i>	124
<i>Coloration for recognition</i>	129
<i>Explaining away display</i>	131

<i>Coloration without selection</i>	133
<i>Males for Darwin, females for Wallace?</i>	146
<i>Wallace's legacy: A century of natural selection</i>	155
Chapter 7 Can females shape males?	165
<i>Only humans can choose</i>	165
<i>Not choosing, just looking</i>	167
<i>'The instability of a vicious feminine caprice'</i>	168
<i>The trouble with taste</i>	174
Chapter 8 Do sensible females prefer sexy males?	183
<i>Good taste or good sense?</i>	183
<i>Darwin's solution: Beauty for beauty's sake</i>	183
<i>Wallace's solution: Not just a pretty tail</i>	186
<i>Is 'good sense' sensible?</i>	191
<i>Fisher's solution: Good taste makes good sense</i>	201
Chapter 9 'Until careful experiments are made ...'	205
Chapter 10 Ghosts of Darwinism surpassed	231
<i>The changing face of sexual selection</i>	231
<i>A happy ending to the peacock's tale</i>	243
PART 3: THE ANT	
Chapter 11 Altruism now	253
<i>The problem with altruism</i>	253
<i>The problem solved</i>	253
<i>'Altruism' reanalysed</i>	264
Chapter 12 Altruism then	267
<i>Nature most cruel</i>	267
<i>Altruism unseen</i>	274
<i>Altruism levelled down</i>	283
Chapter 13 The social insects: Kind kin	293
Chapter 14 Make dove, not war: Conventional forces	311
Chapter 15 Human altruism: A natural kind?	325
<i>Darwin: Morality as natural history</i>	325
<i>Wallace: Wise before the event</i>	353
<i>Huxley: Morality at enmity with nature</i>	367
<i>Spencer: Darwinian bodies, Lamarckian minds</i>	371
<i>Rhetorical skirmishes</i>	378

Chapter 16 Breeding between the lines	381
<i>The origin of species</i>	381
<i>Speciating for the greater good</i>	387
<i>Selection's great divide: Mating or weaning?</i>	390
<i>The problem for Darwin and Wallace</i>	395
<i>Darwin against creation: Incidental, not endowed</i>	400
<i>Darwin against natural selection: Incidental, not selected</i>	402
<i>Darwin's adaptive interlude</i>	407
<i>Wallace: The power of natural selection</i>	416
<i>Origins elusive</i>	425
Epilogue	431
Note on the letters of Darwin and Wallace	433
Bibliography	439
Index	475