

The Tangled Bank



The Tangled

An Introduction to



Bank

Evolution

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It is interesting to contemplate an entangled bank, clothed with many plants of many kinds, with birds singing on the bushes, with various insects flitting about, and with worms crawling through the damp earth, and to reflect that these elaborately constructed forms, so different from each other, and dependent on each other in so complex a manner, have all been produced by laws acting around us. These laws, taken in the largest sense, being Growth with Reproduction; inheritance which is almost implied by reproduction; Variability from the indirect and direct action of the external conditions of life, and from use and disuse; a Ratio of Increase so high as to lead to a Struggle for Life, and as a consequence to Natural Selection, entailing Divergence of Character and the Extinction of less-improved forms. Thus, from the war of nature, from famine and death, the most exalted object which we are capable of conceiving, namely, the production of the higher animals, directly follows. There is grandeur in this view of life, with its several powers, having been originally breathed into a few forms or into one; and that, whilst this planet has gone cycling on according to the fixed law of gravity, from so simple a beginning endless forms most beautiful and most wonderful have been, and are being, evolved.

—Charles Darwin, *The Origin of Species* (1859)

Contents

- 1 Evolution: An Introduction 2
 - 2 Biology: From Natural Philosophy to Darwin 16
 - 3 What the Rocks Say 36
 - 4 The Tree of Life 58
 - 5 Evolution's Molecules 84
 - 6 The Ways of Change: Mutation, Drift, and Selection 102
 - 7 The History in Our Genes 132
 - 8 Adaptation: From Genes to Traits 154
 - 9 The Origin of Species 186
 - 10 Radiations and Extinctions: Biodiversity Through the Ages 210
 - 11 Intimate Partnerships: The Evolution of Friends and Enemies 240
 - 12 Sex and Family 262
 - 13 Evolutionary Medicine 290
 - 14 Minds and Microbes: The Evolution of Behavior 324
- Acknowledgments 353
Glossary 354
References 358
Credits 372
Index 376