

First Ecology

Ecological Principles and Environmental Issues

Third Edition

Alan Beeby, and Anne-Maria Brennan, both of London South Bank University

First Ecology: ecological principles and environmental issues provides a critical and evaluative introduction to the science of ecology. Alan Beeby and Anne-Maria Brennan present a succinct survey of ecology, describing and explaining the relationship between living organisms and their environment.

CONTENTS

First Words; Origins; Species; Populations; Interactions; Communities; Systems; Balances; Scales; Checks

Readership: Beginning undergraduates in the life sciences either majoring in ecology or studying ecology as a stand-alone unit on a range of courses, including those that assume little scientific background.

432 pages 2007 978-0-19-929808-2 Paperback £33.99



It will undoubtedly continue to appeal to students as a reasonably priced, clear introduction to many important aspects of ecology and environmental studies.
Bulletin of the British Ecological Society

ONLINE RESOURCE CENTRE

For registered adopters of the book:

- Figures from the book available to download
- PowerPoint slides, with figures from the book and integrated notes for lecturers, to accompany each chapter of the textbook.
- Routes - identifying themes and connections across the different chapters of the book, plus 30 suggested titles for case studies.
- Virtual field course - Interactive exercises with video footage to give students the opportunity to analyse real ecological data, with extra tutor notes.

For students:

- Hyperlinked bibliography
- Answers to exercises posed in the book
- Virtual field course - a series of interactive exercises with video footage giving you the opportunity to analyse real ecological data.
- Direct links to all of the web links listed at the end of the chapters in the book



www.oxfordtextbooks.co.uk/orc/beebybrennan3e/

An Introduction to Molecular Ecology

Second Edition

Trevor Beebe, University of Sussex, and Graham Rowe, University of Derby

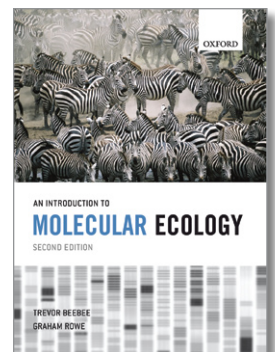
Blending conceptual detail with the most instructive examples, *An Introduction to Molecular Ecology* is an ideal resource for those new to the subject needing to develop a strong working understanding of the field. The book captures the broad scope of the subject, exploring the use of molecular tools in the context of topics including behavioural genetics, phylogeography, microbial ecology, and conservation.

CONTENTS

A history of molecular ecology; Molecular biology for ecologists; Molecular identification: species, individuals, and sex; Behavioural ecology; Population genetics; Molecular and adaptive variation; Phylogeography; Conservation genetics; Microbial ecology and the Metagenome; Genetically modified organisms

Readership: Mid-level and final year undergraduates in the biological sciences, covering a broad range of specific disciplines, from ecology and conservation to molecular genetics. Also of great value to postgraduate students taking MSc courses in ecology or conservation, or in molecular ecology, and PhD students starting work in this field.

416 pages 2007 978-0-19-929205-9 Paperback £31.99



ONLINE RESOURCE CENTRE

For registered adopters of the book:

- Electronic versions of the figures in the book

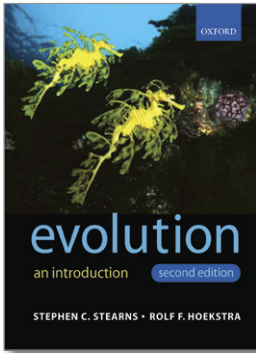
For students:

- Direct links to online articles cited in the book
- Example data set enabling completion of the exercise in Chapter 5 of the book
- Further reading for each chapter
- Direct links to useful websites



www.oxfordtextbooks.co.uk/orc/beebee2e/





Evolution

Second Edition

Stephen Stearns, Yale University, USA, and Rolf Hoekstra, Wageningen University, The Netherlands

With a focus on key principles, *Evolution* introduces what is essential and exciting in evolutionary biology and helps students to understand its fundamental importance. The authors' combination of careful explanations and extensive use of examples to illustrate evolutionary phenomena provide an accessible treatment of this fascinating subject. The book includes an appendix of basic genetic concepts, providing a firm foundation for those who have limited prior knowledge of genetics, opening up the subject to an even broader range of students.

CONTENTS

Prologue; The Nature of the Issues; **PART I: MICROEVOLUTIONARY CONCEPTS**; Adaptive Evolution; Neutral Evolution; The Genetic Impact of Selection on Populations; Origin and Maintenance of Genetic Variation; The Importance of Development in Evolution; The Expression of Variation; **PART II: DESIGN BY SELECTION FOR REPRODUCTIVE SUCCESS**; The Evolution of Sex; Genomic Conflict; Life Histories and Sex Allocation; Sexual Selection; **PART III: PRINCIPLES OF MACROEVOLUTION**; Speciation; Phylogeny and Systematics; Comparative Methods; **PART IV: THE HISTORY OF LIFE**; Key Events in Evolution; Major Events in the Geological Theater; The Fossil Record and Life's History; **PART V: INTEGRATING MICRO- AND MACRO-EVOLUTION**; Coevolution: Micro- and Macro; Human Evolution and Evolutionary Medicine; Conclusions and Prospects; Answers; Appendix of Basic Genetic Concepts; Glossary

Readership: Beginning undergraduates in the life sciences either majoring in ecology or studying ecology as a stand-alone unit on a range of courses, including those that assume little scientific background.

596 pages 2005 978-0-19-925563-4 Paperback £33.99

ONLINE RESOURCE CENTRE

For registered adopters of the book:

- Figures from the book available to download
- PowerPoint Slides for each chapter of the book
- A ready-made electronic testing resource which can be customised to meet your teaching needs

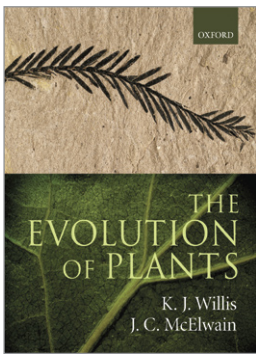
For students:

- A selection of multiple choice and true false questions linked to each chapter in the textbook
- Key glossary terms in an interactive crossword format



www.oxfordtextbooks.co.uk/orc/stearns2e/

This book exactly meets my needs as a general introductory text for students with different scientific and biological backgrounds... The text provides an accessible, authoritative and readable account. This is an excellent text.
Steve Waite, University of Brighton



The Evolution of Plants

K. J. Willis, University of Oxford, and J. C. McElwain, University College Dublin

This is a broad but provocative examination of the evolution of plants from the earliest forms of life to the development of our present flora. Taking a fresh, modern approach to a subject often treated very stuffily, the book incorporates many recent studies on the morphological evolution of plants, enlivens the subject with current research on ancient DNA and other biomolecular markers, and places plant evolution in the context of climate change and mass extinction.

CONTENTS

The evolutionary record and methods of reconstruction; Earliest forms of plant life; The colonization of land; The first forests; Major emergence of the seed plants; Flowering plant origins; The past 65 million years; Mass extinctions and persistent populations; Ancient DNA and the biomolecular record; Evolutionary theories and the plant fossil record

Readership: First-year biology/botany undergraduates, and second-years on an evolution option.

392 pages 2002 978-0-19-850065-0 Paperback £31.99

ONLINE RESOURCE CENTRE

For registered adopters of the book:

- Downloadable full-color Biome maps images from the book
- Downloadable illustrations from the book in PowerPoint format

For students:

- Web links to additional sites of interest



www.oxfordtextbooks.co.uk/orc/willisevolution/

Essential and accessible reading for any student of evolution.
The Biologist



Evolution

Second Edition

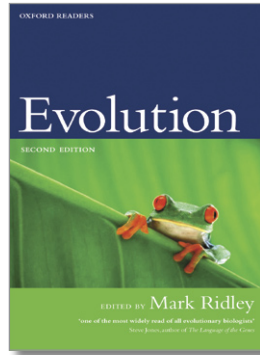
Mark Ridley, University of Oxford

Evolution is unlike any other theory in science in the generality of its interest and the excellence of the authors who write about it. This anthology contains extracts from over 60 scientific papers, by authors such as Stephen Jay Gould, Richard Dawkins, Francis Crick and Jacques Monod. It starts with Charles Darwin, but concentrates on modern research, including genomics - evolution's latest gusher of scientific insights.

Readership: Recommended as an ideal text to support study activities in particular for year 2 and above undergraduate students studying evolutionary biology with biology related programmes of study.

Oxford Reader

472 pages 2003 978-0-19-926794-1 Paperback £26.99



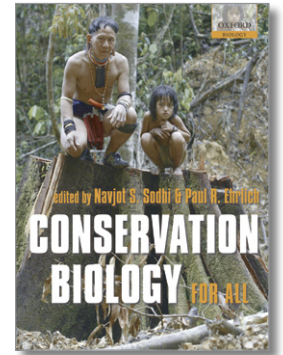
Conservation Biology for All

Edited by Navjot S. Sodhi, National University of Singapore, and Paul R. Ehrlich, Stanford University, USA

Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered.

Readership: This accessible, easy-to-read text will be of relevance and use to both undergraduate and graduate students taking courses in biodiversity and conservation biology. It will also be a valuable reference for a global audience of conservation practitioners, wildlife managers, and other conservation professionals.

360 pages 2010 978-0-19-955424-9 Paperback £34.95



Why Evolution is True

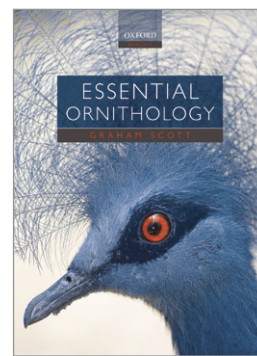
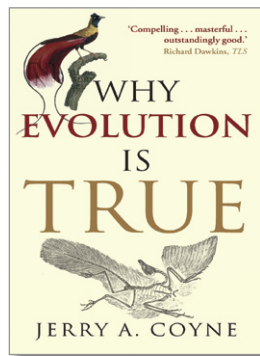
Jerry A. Coyne, University of Chicago

Why Evolution is True weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.

Readership: Anyone interested in evolution, the most important theory in biology, and the evidence that supports it. This will range from readers of popular science, to teachers, students, and educators, as well as biologists and other scientists seeking a succinct summary of the facts. Also those interested in the debate between science and religious creationism.

CONTENTS

Preface; Introduction; What is Evolution?; Written in The Rocks; Remnants: Vestiges, Embryos, and Bad Design; The Geography of Life; The Engine of Evolution; How Sex Drives Evolution; The Origin of Species; What about Us?; Evolution Redux; Glossary; Suggestions for Further Reading; References



Essential Ornithology

Graham Scott, University of Hull, UK

A concise but comprehensive introduction to the biology of birds, one of the most widely studied taxonomic groups. The book starts with the controversial question of the dinosaur origins of birds and their subsequent evolution. Development, anatomy, and physiology are then discussed followed by chapters devoted to avian reproduction, ecology, and behaviour. Sections dealing with aspects of bird/human relationships and bird conservation give the book an applied context.

Readership: Degree level students following a modular programme which includes the study of bird biology. However, it will also appeal to a broader audience of professional researchers, consultants, and amateur ornithologists seeking a scientifically rigorous, but clearly presented overview.

176 pages 2010 978-0-19-856997-8 Paperback £27.50

“*Why Evolution is True* is outstandingly good.
Richard Dawkins, TLS”

336 pages 2010 978-0-19-923085-3 Paperback £8.99

A Dictionary of Ecology

Fourth Edition

Michael Allaby

The fourth edition of the most comprehensive and authoritative dictionary of ecology available. Written in a clear, accessible style, it contains over 6,000 entries on all aspects of ecology and related environmental scientific disciplines, and is fully weblinked.

Oxford Paperback Reference

432 pages 2010 978-0-19-956766-9 Paperback £11.99

Tropical Rain Forest Ecology, Diversity, and Conservation

Jaboury Ghazoul, ETH Zurich, and Douglas Sheil, Institute of Tropical Forest Conservation, Uganda, and Center for International Forestry Research, Indonesia

Tropical Rain Forest Ecology, Diversity, and Conservation introduces and explores what rain forests are, how they arose, what they contain, how they function, and how humans use and impact them.

Readership: This accessible text is written for both students and professionals with interests in tropical ecology, forestry, geography, and conservation biology. It also has broad relevance to anyone working in tropical forest management.

532 pages 2010 978-0-19-928588-4 Paperback £32.50

Evolution

See page 40

Stearns and Hoekstra

A focus on principles offers an unthreatening introduction to evolution, perfect for a first course in the subject

