

## OXFORD SERIES IN ECOLOGY AND EVOLUTION

### NEW FOR 2009

#### Emergence and Evolution of RNA Viruses

**Edward C. Holmes**, The Pennsylvania State University, USA

While the study of viral evolution has developed rapidly in the last 30 years, little attention has been directed toward linking the mechanisms of viral evolution to the epidemiological outcomes of these processes. This book intends to fill this gap by considering the patterns and processes of viral evolution at all its spatial and temporal scales.

Please see more titles in this series on [page 4](#).

#### Oxford Series in Ecology and Evolution

June 2009 | 288 pages

978-0-19-921113-5, PAPERBACK £27.50/\$55.00  
978-0-19-921112-8, HARDBACK £60.00/\$120.00

#### Infectious Diseases in Primates

##### Behavior, Ecology and Evolution

**Charles Nunn**, Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany and University of California, Berkeley, USA, and **Sonia Altizer**, University of Georgia, Athens, USA

Please see more titles in this series on [page 4](#).

#### Oxford Series in Ecology and Evolution

2006 | 400 pages

978-0-19-856585-7, PAPERBACK £32.50/\$55.00  
978-0-19-856584-0, HARDBACK £67.00/\$125.00



See page 36 for new titles in the Very Short Introductions series

### NEW FOR 2008

#### Reticulate Evolution and Humans

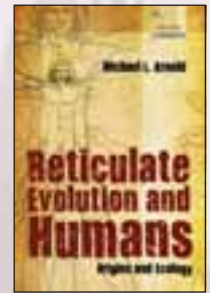
##### Origins and Ecology

**Michael L. Arnold**, University of Georgia, USA

*Reticulate Evolution and Humans* is the first book to describe the effect of genetic exchange on the origin and evolution of our own species as well as those species with which we have and continue to interact closely, both evolutionarily and culturally. After demonstrating how genetic exchange has affected *H. sapiens*, the book goes on to describe how the same processes have structured the evolution of organisms on which the human species depends for shelter, sustenance and companionship.

October 2008 | 224 pages

978-0-19-953958-1, HARDBACK



£59.95/\$119.90

### NEW IN PAPERBACK

#### Evolution through Genetic Exchange

**Michael L. Arnold**, University of Georgia, USA

'*Evolution Through Genetic Exchange* represents a compelling argument for a paradigm shift in evolutionary biology, in which the Tree of Life is replaced conceptually by a Web of Life that connects all living organisms and their genomes.'

*The Quarterly Review of Biology*

2007 | 272 pages

978-0-19-922903-1, PAPERBACK £29.95/\$60.00  
978-0-19-857006-6, HARDBACK £55.00/\$125.00

### NEW IN PAPERBACK



#### Selection

##### The Mechanism of Evolution

SECOND EDITION

**Graham Bell**, McGill University, Montreal, Canada

December 2008 | 576 pages

978-0-19-856973-2, PAPERBACK £32.50/\$65.00  
978-0-19-856972-5, HARDBACK £59.95/\$120.00

### NEW EDITION

#### The Genetical Theory of Natural Selection

##### A Complete Variorum Edition

**R. A. Fisher**, Deceased, late of University of Adelaide

Edited by **Henry Bennett**, University of Adelaide, Australia

1999 | 360 pages

978-0-19-850440-5, HARDBACK £39.95/\$98.45

### The Major Transitions in Evolution

The late **Professor John Maynard Smith**, University of Sussex, UK, and **Eors Szathmari**, Institute for Advanced Study, Budapest

1997 | 360 pages

978-0-19-850294-4, PAPERBACK £37.50/\$59.95

### NEW IN PAPERBACK

#### Evolution and the Levels of Selection

**Samir Okasha**, University of Bristol, UK

Does natural selection act primarily on individual organisms, on groups, on genes, or on whole species? The question of levels of selection—on which biologists and philosophers have long disagreed—is central to evolutionary theory and to the philosophy of biology. Samir Okasha's comprehensive analysis gives a clear account of the philosophical issues at stake in the current debate.

November 2008 | 288 pages

978-0-19-955671-7, PAPERBACK £16.99/\$33.98  
978-0-19-926797-2, HARDBACK £35.00/\$65.00

### DARWIN'S ANNIVERSARY YEAR

To mark the 150th anniversary of publication of *On The Origin of Species*, OUP publishes a number of key books. See [page 41](#) for full details:

#### Natural Selection and Beyond

*The Intellectual Legacy of Alfred Russel Wallace*

**Charles Smith** and **George Beccaloni**

#### Darwin's Lost World

**Brasier**

#### Why Evolution is True

**Coyne**

#### Evolutionary Writings

*Including the Autobiography*

**Charles Darwin**

NEW FOR 2009

### Genetic Diversity and Extinction

Jacob Höglund, Uppsala University, Sweden

Conservation genetics focuses on understanding the role of genetic variation for population persistence. This book is about the methods used to study genetic variation in endangered species and whether genetic variation matters in the extinction of species.

March 2009 | 240 pages

978-0-19-921422-8, PAPERBACK  
978-0-19-921421-1, HARDBACK

£29.95/\$59.90  
£65.00/\$130.00



NEW FOR 2009

### The Timetree of Life

Edited by S. Blair Hedges, Pennsylvania State University, USA, and Sudhir Kumar, Arizona State University, USA

This is a comprehensive reference source on the evolution of life, especially the family tree of organisms and when they originated in time. More than 100 experts on different organisms have distilled the latest research on the evolution of life, primarily from analyses of gene sequences but also from the fossil record.

March 2009 | 480 pages

978-0-19-953503-3, HARDBACK

£75.00/\$150.00



### Ancestral Sequence Reconstruction



Edited by David A Liberles, University of Wyoming, USA

Ancestral sequence reconstruction is an interdisciplinary field of growing importance for understanding the evolution of molecular function. The technique is poised to become a mainstream component of molecular biology and functional genomics. This book represents the first synthesis of theories, methodologies and applications.

2007 | 272 pages

978-0-19-929918-8, HARDBACK

£49.95/\$100.00

### Parsimony, Phylogeny, and Genomics



Edited by Victor A. Albert, University of Oslo, Norway

'Many readers might be wondering why a simple principle such as parsimony would be so useful in a technologically advanced area of study like genomics. The answer is found within the pages of this volume.'

The Quarterly Review of Biology

2006 | 240 pages

978-0-19-929730-6, PAPERBACK  
978-0-19-856493-5, HARDBACK

£39.95/\$74.00  
£55.00/\$136.95

NEW FOR 2008

### Perspectives in Animal Phylogeny and Evolution

Alessandro Minelli, University of Padova, Italy

*Perspectives in Animal Phylogeny and Evolution* successfully integrates morphological, fossil and molecular evidence to produce a novel reinterpretation of animal evolution. Central to the book's approach is an 'evo-devo' perspective on animal evolution (with all the fresh insights this has given into the origin of animal organization and life cycles), complementary to the more traditional perspectives of pattern (cladistics, comparative anatomy and embryology), mechanisms (developmental biology) and adaptation (evolutionary biology). The author advocates the need to approach the study of animal evolution with a critical attitude towards many key concepts of comparative morphology and developmental biology. Particular attention in the book is paid to the evolution of life cycles and larval forms.

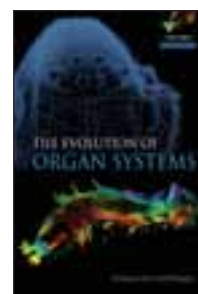
December 2008 | 336 pages

978-0-19-856621-2, PAPERBACK  
978-0-19-856620-5, HARDBACK

£34.95/\$69.90  
£75.00/\$150.00



### The Evolution of Organ Systems



Andreas Schmidt-Rhaesa, University of Hamburg, Germany

Although there are several books on the phylogenetic relationships of animals, this is the first to focus on the consequences of such relationships for the evolution of organs themselves. It provides a summary of evolutionary

hypotheses for each of the major organ systems, describing alternative theories in those cases of continuing controversy.

2007 | 400 pages

978-0-19-856669-4, PAPERBACK  
978-0-19-856668-7, HARDBACK

£37.50/\$75.00  
£75.00/\$150.00

### Evolutionary Genetics

Concepts and Case Studies



Edited by Charles W. Fox, University of Kentucky, Lexington, USA, and Jason B. Wolf, University of Tennessee, Knoxville, USA

'Impressive compendium of essays ... I encourage evolutionary biologists of all stripes to read it.'

BioScience

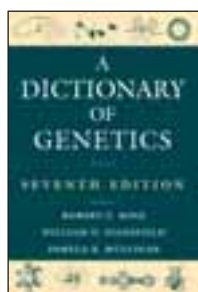
2006 | 608 pages

978-0-19-516818-1, PAPERBACK  
978-0-19-516817-4, HARDBACK

£35.99/\$59.50  
£60.00/\$109.50

### A Dictionary of Genetics

SEVENTH EDITION



Robert C. King, Northwestern University, USA, William D. Stansfield, California Polytechnic State University, USA, and Pamela K. Mulligan, Geneticist, USA

2006 | 608 pages

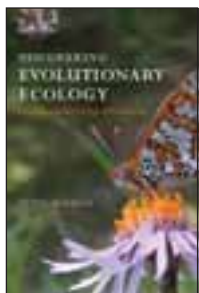
978-0-19-530761-0, PAPERBACK  
978-0-19-530762-7, HARDBACK

£19.99/\$34.95  
£45.00/\$90.00

Nominated for THES Young Author of the Year Award 2006

## Discovering Evolutionary Ecology

Bringing together ecology and evolution



**Peter J. Mayhew**, Lecturer in Ecology, University of York, UK

'This is a book useful for a broad audience, from the undergraduate student to the professional scientist, and its simple, clear and very pleasant style makes it accessible and appealing to the non-biologist reader.'

Vie et Milieu

2006 | 232 pages

978-0-19-852528-8, PAPERBACK  
978-0-19-857060-8, HARDBACK

£29.95/\$49.50  
£65.00/\$112.50

## NEW IN PAPERBACK

### Genomics and Evolution of Microbial Eukaryotes



Edited by **Laura A. Katz**, Smith College, Northampton MA, USA, and **Debashish Bhattacharya**, University of Iowa, USA

This book represents a unique combination of recently-emerged information on eukaryotic microbes, evolution and genomics. Eukaryotes, cells with nuclei, evolved as microbes and have existed

on Earth for approximately 2 billion years. Although currently relatively understudied, eukaryotic microorganisms are of critical importance to ecosystems (through their involvement in global biogeochemical cycles), human health (they include some of the deadliest pathogens), and our desire to understand global biodiversity. Recent advances, particularly in DNA sequencing technologies, are making eukaryotic microbes more accessible through genome analyses. Insights from these studies are challenging previously held theories of genome evolution, based on studies of a limited number of plants, animals and fungi.

March 2008 | 256 pages

978-0-19-922905-5, PAPERBACK  
978-0-19-856974-9, HARDBACK

£29.95/\$60.00  
£55.00/\$125.00

## NEW FOR 2009

### Thermal Adaptation

Theoretical and Empirical Synthesis

**Michael J. Angilletta Jr.**, Indiana State University, USA

*Thermal Adaptation* will benefit anyone who is interested in the development of theory that links environmental variation to phenotypic evolution. The book focuses on quantitative evolutionary models at the individual, population and community levels, and successfully integrates this theory with modern empirical approaches. In providing a synthetic overview of evolutionary thermal biology, this accessible text is suited for both graduate students and established researchers in the fields of comparative, evolutionary and ecological physiology. It will also appeal to the broader audience of professional ecologists and evolutionary biologists who require a concise overview of this topic, as well as those researchers working on the applied problems of regional and global climate change.

January 2009 | 320 pages

978-0-19-857088-2, PAPERBACK  
978-0-19-857087-5, HARDBACK

£32.50/\$65.00  
£65.00/\$130.00

## NEW FOR 2009

### Big Questions in Ecology and Evolution

**Thomas N. Sherratt**, Carleton University, Canada, and **David M. Wilkinson**, Liverpool John Moores University, UK

This book provides an introduction to a range of fundamental questions that have taxed evolutionary biologists and ecologists for decades. All of the questions posed have at least a partial solution, all have seen exciting breakthroughs in recent years, yet many of the explanations have been hotly debated.

February 2009 | 336 pages

978-0-19-954861-3, PAPERBACK  
978-0-19-954860-6, HARDBACK

£27.50/\$55.00  
£55.00/\$110.00



## NEW FOR 2009

### Holocene Extinctions

Edited by **Samuel Turvey**, Zoological Society of London, UK

This volume describes and analyses the range and duration of global extinction events that have occurred since the end of the last Ice Age glaciation, as well as their relationship to both previous and subsequent species losses.

May 2009 | 320 pages

978-0-19-953509-5, HARDBACK

£49.95/\$99.90



## NEW FOR 2008

### The Molecular Organography of Plants

**Quentin Cronk**, UBC Botanical Garden and Centre for Plant Research, University of British Columbia, Canada

From the cells of aquatic algae to the majestic redwoods towering 100 metres above the California coast, the history of plant evolution has been one of increasing complexity. The new field of 'evo-devo' (evolution of development) seeks to explain this diversity by examining the evolution of the molecular and developmental processes responsible for plant form. This book surveys the structural complexity of plant form within this new framework.

September 2008 | 264 pages

978-0-19-955036-4, PAPERBACK  
978-0-19-955035-7, HARDBACK

£34.95/\$69.90  
£75.00/\$150.00



NEW FOR 2008

### Sociobiology of Communication

*An Interdisciplinary Perspective*

Edited by **Patrizia d'Ettorre** and **David P. Hughes**, both at the University of Copenhagen, Denmark

Communication is essential for all forms of social interaction from parental care, to mate choice to cooperation. This book is a timely and novel synthesis. It bridges many of the gaps between proximate and ultimate levels of analysis, between empirical model systems, and between biology and the humanities. The book offers the complementary approaches of a distinguished group of authors spanning a large diversity of research programs, addressing, for example, the genetic basis of bacterial communication, dishonest communication in insect societies, sexual selection and network communication among colonial vertebrates. Other chapters explore the role of communication in genomic conflict and self-organisation, and how linguistics, psychology and philosophy may ultimately contribute to a biological understanding of human mate choice and the evolution of human societies.

August 2008 | 320 pages

978-0-19-921684-0, PAPERBACK  
978-0-19-921683-3, HARDBACK

£37.50/\$75.00  
£75.00/\$150.00



### Narrow Roads of Gene Land - The Collected Papers of W. D. Hamilton

*Volume 1: Evolution of Social Behaviour*

**W. D. Hamilton**, University of Oxford, UK

1997 | 566 pages

978-0-7167-4530-3, PAPERBACK £39.95/\$76.45

*Volume 2: Evolution of Sex*

**W. D. Hamilton**, University of Oxford, UK

2001 | 928 pages

978-0-19-850336-1, PAPERBACK £50.00/\$74.50

*Volume 3 - Last Words*

**W. D. Hamilton**, University of Oxford, UK

Edited by **Mark Ridley**, University of Oxford, UK

2005 | 496 pages

978-0-19-856690-8, PAPERBACK £47.50/\$99.00



NEW FOR 2009

### Feathered Dinosaurs

*The Origin of Birds*



**John Long**, Museum Victoria, Australia, with illustrations by **Peter Schouten**

Not all dinosaurs went extinct 65 million years ago. Most scientific specialists who work on extinct species and many contemporary ornithologists agree that all living birds are descendants of certain predatory dinosaurs—the theropods—

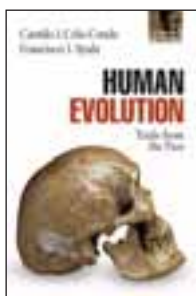
of which fossils reveal preserved feathers as part of their anatomy. The book dramatically brings to life in text and colour images all the known groups of dinosaurs that bore feathers.

January 2009 | 208 pages

978-0-19-537266-3, HARDBACK £20.00/\$40.00

### Human Evolution

*Trails from the Past*



**Camilo J. Cela-Conde**, University of Balearic Islands, Palma de Mallorca, Spain, and **Francisco J. Ayala**, University of California, Irvine, USA

This book is intended as a comprehensive overview of hominid evolution, synthesising data and approaches from physical anthropology, genetics, archaeology, psychology and philosophy. Human evolution courses are now widespread and this book has the potential to satisfy the requirements of most, particularly at the advanced undergraduate and graduate level. It is based on a translation, albeit with substantial modification, of a successful Spanish language book.

2007 | 448 pages

978-0-19-856780-6, PAPERBACK £34.95/\$69.50  
978-0-19-856779-0, HARDBACK £75.00/\$150.00

NEW FOR 2009

### The World from Beginnings to 4000 BCE

**Ian Tattersall**, American Museum of Natural History, Columbia University and CUNY Graduate School, USA

This book narrates the story of human biological and cultural evolution, from the earliest beginnings of our zoological family Hominidae, through the emergence of Homo sapiens, to the Agricultural Revolution. It concludes with a brief overview of the subsequent diversification of cultural and technological traditions in all the areas our species inhabit.

**New Oxford World History**

February 2008 | 160 pages

978-0-19-533315-2, PAPERBACK £10.99/\$19.95  
978-0-19-516712-2, HARDBACK £35.99/\$60.00

NEW EDITION

### Evolution in Health and Disease

SECOND EDITION



Edited by **Stephen C. Stearns**, Yale University, USA, and **Jacob C. Koella**, Imperial College London, UK

A fully revised edition of a volume written by the world's leading authorities on this subject. It discusses how the evolution of humans and their pathogens have generated important medical issues, covering both

infectious and degenerative diseases. It presents important ideas that are not yet sufficiently appreciated in the medical community.

2007 | 400 pages

978-0-19-920746-6, PAPERBACK £34.95/\$69.95  
978-0-19-920745-9, HARDBACK £75.00/\$150.00

### Aging of the Genome

*The dual role of DNA in life and death*



**Jan Vijg**, Buck Institute for Age Research, Novato, California, USA

'This is a work of real scholarship, a critical account of a huge swathe of work. The sharp focus on one type of damage, the excellent writing style and the well argued, personal perspective of the author contrive to keep the reader going.'

Nature

2007 | 384 pages

978-0-19-856923-7, PAPERBACK £37.50/\$65.00  
978-0-19-856922-0, HARDBACK £80.00/\$140.00

NEW FOR 2009

### Of Minds and Language

*A Dialogue with Noam Chomsky in the Basque Country*

**Massimo Piattelli-Palmarini**, University of Arizona, USA, **Juan Uriagereka**, University of Maryland, USA, and **Pello Salaburu**, University of the Basque Country

This book presents a state-of-the-art account of what we know and would like to know about language, mind, and brain. It brings together leading researchers in linguistics, psycholinguistics, language acquisition, cognitive neuroscience, comparative cognitive psychology, and evolutionary biology.

January 2009 | 480 pages

978-0-19-954466-0, HARDBACK £30.00/\$60.00

NEW IN PAPERBACK

### Sex, Size and Gender Roles

*Evolutionary Studies of Sexual Size Dimorphism*

Edited by **Daphne J. Fairbairn**, University of California, Riverside, USA, **Wolf U. Blanckenhorn**, Universität Zürich-Irchel, Switzerland, and **Tamás Székely**, University of Bath, UK

'This book contains more than most will want to know about the evolution, development, and proximate control of phenotypic differences in the sexes. What I really like about it though, is that it makes clear that there is so much more to do. It will be the citation classic of the future for pointing the way. It is this promise and pithiness that made me admire and savor this book...'

Evolution

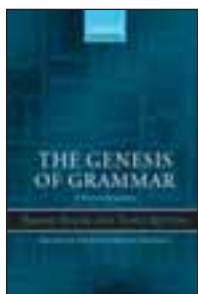
November 2008 | 280 pages

978-0-19-954558-2, PAPERBACK £29.95/\$59.90  
978-0-19-920878-4, HARDBACK £55.00/\$110.00



### The Genesis of Grammar

*A Reconstruction*



**Bernd Heine**, University of Cologne, Germany, and **Tania Kuteva**, University of Düsseldorf, Germany

'Heine and Kuteva's *The Genesis of Grammar* is a major contribution to the rapidly burgeoning literature on the origins and evolution of human language. They draw on their decades of research on the phenomenon of

grammaticalization to draw plausible conjectures about what the first human language might have looked like. I recommend this book to anyone looking for a fresh perspective on this challenging and fascinating problem.'

Frederick J. Newmeyer, University of Washington, USA

This book reconstructs what the earliest grammars might have been and shows how they could have led to the languages of modern humankind. It considers whether these languages derive from a single ancestral language; what the structure of language was when it first evolved; and how the properties associated with modern human languages first arose.

Studies in the Evolution of Language No. 9

2007 | 440 pages

978-0-19-922777-8, PAPERBACK £25.99/\$51.95  
978-0-19-922776-1, HARDBACK £75.00/\$180.00

### The Origins of Meaning

*Language in the Light of Evolution*



**James R. Hurford**, University of Edinburgh, Scotland

'Has Hurford achieved his goal of describing the evolutionary foundations of language? Yes, elegantly and in accomplished detail.'

Nature

In this, the first of two ground-breaking volumes on the nature of language in the light of the way it evolved, James Hurford looks at the origins of meaning and of its expression in language and reviews a mass of evidence to uncover the evolutionary path between the non-speaking minds of apes and our own speaking minds. This is a landmark contribution to the understanding of linguistic and thinking processes, and the fullest account yet published of the evolution of language and communication.

Studies in the Evolution of Language No. 8

2007 | 408 pages | frontispiece

978-0-19-920785-5, HARDBACK £20.00/\$35.00

### Why We Talk

*The Evolutionary Origins of Language*



**Jean-Louis Dessalles**, École Nationale Supérieure des Télécommunications, Paris, France

Translated by **James Grieve**, Australian National University, Canberra

'This is a provocative, erudite and enjoyable book, written to stimulate debate'

Raphael Salkie, THES

Constant exchange of information is integral to our societies. Jean-Louis Dessalles explores how this came into being. He develops a view of language as an instrument for conversation rather than mental representation and thought. Presenting language evolution as a natural history of conversation, the author sheds light on the emergence of communication in the hominine congregations, as well as on the human nature.

Studies in the Evolution of Language No. 5

2007 | 400 pages

978-0-19-927623-3, HARDBACK £35.00/\$55.00

NEW FOR 2008

### The Origin of Speech



**Peter MacNeilage**, University of Texas at Austin, USA

This important and original account of the origin and evolution of speech integrates the latest research in speech, acquisition, and neurobiology, and includes

the key observation that infants learning language reveal similar constraints to those acting on our distant ancestors. It is written in a clear style with minimal recourse to jargon.

Studies in the Evolution of Language No. 10

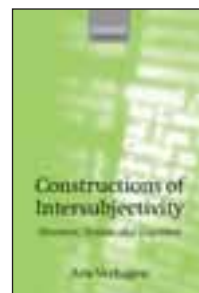
April 2008 | 408 pages

978-0-19-923650-3, HARDBACK £25.00/\$50.00

NEW IN PAPERBACK

### Constructions of Intersubjectivity

*Discourse, Syntax, and Cognition*



**Arie Verhagen**, University of Leiden, The Netherlands

'An important contribution to the study of language. It proposes a clear and convincing analysis of a number of controversial phenomena in syntax, semantics, and the lexicon, while opening new perspectives in the study of language as a communicative tool'

Linguistics

Arie Verhagen develops a new understanding of linguistic communication focussed on cognition. He treats pragmatics, semantics, and syntax in parallel and integrates insights from linguistics, psychology, and animal communication. He shows the continuity between language and animal communication and reveals the nature of human linguistic specialization. His powerfully argued and original explanation of the nature and operation of communication will interest a wide range of scholars and advanced students in linguistics, cognitive science, and human evolution.

2007 | 272 pages

978-0-19-922670-2, PAPERBACK £23.99/\$39.95  
978-0-19-927384-3, HARDBACK £74.00/\$110.00

NEW FOR 2008

### Reading the Story in DNA

*A beginner's guide to molecular evolution*



**Lindell Bromham**, The Australian National University, Australia

*Reading the story in DNA* is the perfect companion on the journey to a proper understanding of molecular data.

The central theme of the book is that in order to get ecological or evolutionary information out of molecular

data, you must understand the way that the molecular data evolves and the influence that the assumptions you make have on the answers you get. The book blends beautifully clear explanations with cutting-edge examples from the research literature.

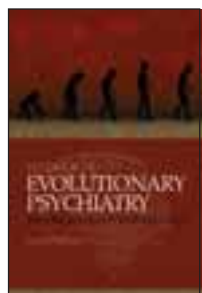
July 2008 | 400 pages

978-0-19-929091-8, PAPERBACK £25.99/\$39.95

NEW FOR 2008

**Textbook of Evolutionary Psychiatry**

*The origins of psychopathology*



**Martin Brüne**, University of Bochum, Germany

In the past couple of decades, studies investigating the genetic background of psychiatric disorders have mushroomed. Research into the brain mechanisms and regions of the brain involved in certain dysfunctions have greatly improved our knowledge of the

relationship between brain pathology and psychopathology. By contrast, we know far less about 'why' certain individuals remain vulnerable to psychiatric disease at all, and whether they were selected by evolutionary forces or simply by-products of other species-specific characteristics.

This book presents a new integrative approach to understanding psychopathological conditions—an approach that embraces cognition, emotion, behaviour, and their nature-nurture interactions. Central to this approach is the introduction of human evolution into the psychiatric model—psychiatrists need to know why the human mind and brain evolved in the way it did. In three parts, the book presents a comprehensive account of human brain evolution in terms of physical features and function, showing how these relate to our current understanding of psychopathology.

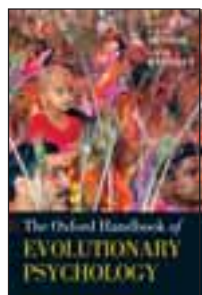
Accessibly written, the book shows how a consideration of evolutionary factors in psychiatry can improve our understanding and treatment of specific disorders such as suicidal behaviour, anorexia, or depression.

November 2008 | 380 pages

978-0-19-920768-8, PAPERBACK

£32.95/\$65.90

**Oxford Handbook of Evolutionary Psychology**



Edited by **Robin Dunbar**, University of Liverpool, UK, and **Louise Barrett**, University of Lethbridge, Canada

'...all academic libraries catering for postgraduate work in any of the behavioural sciences will find it to be an important source...'

*Journal of Mental Health*

'This handbook is must reading for individuals interested in evolutionary psychology and biology. The material is challenging to read, but the book will give readers a good idea of the field.'

*Doody's Notes 2007*

The *Oxford Handbook of Evolutionary Psychology* is the definitive, comprehensive, and authoritative text on this burgeoning field. With contributions from over fifty experts in the field, the range and depth of coverage is unequalled. It will be an essential resource for students and researchers in psychology.

2007 | 720 pages

978-0-19-856830-8, HARDBACK

£52.00/\$98.50

**Evolution and Emergence**

*Systems, Organisms, Persons*



Edited by **Nancey Murphy**, Fuller Seminary, Pasadena, and **William R. Stoeger, SJ**, University of Arizona, USA

'All in all this is a fascinating collection of essays with differently nuanced positions on the vital themes of emergence, human personhood, and theological reflections thereon.'

*Journal of Theological Studies*

A collection of essays by experts in the field, exploring how nature works to produce systems of increasing complexity from simple components, and how our understanding of this phenomenon of emergence can lead us to a deeper appreciation of both our humanity and our relationship with God.

2007 | 400 pages | figures

978-0-19-920471-7, HARDBACK

£63.00/\$125.00

**Necessary Knowledge**

**Henry Plotkin**, University College London, UK

*Necessary Knowledge* tackles one of the big questions—what knowledge do we possess at birth, and what do we learn along the way? It neither sides with those who believe in 'blank slate' theories, nor with those who believe all learning is innate. Instead, it proposes an original new solution to this enduring puzzle.

2007 | 360 pages

978-0-19-856828-5, HARDBACK

£26.00/\$49.50

**Creationism's Trojan Horse**

*The Wedge of Intelligent Design*

**Barbara Forrest**, Southeastern Louisiana University, and **Paul R. Gross**, University of Virginia, USA

Forrest and Gross expose the scientific failure, the religious essence, and the political ambitions of 'intelligent design' creationism highlighting its threat to public education and to the separation of church and state.

2007 | 446 pages

978-0-19-531973-6, PAPERBACK

£10.99/\$19.95

978-0-19-515742-0, HARDBACK

£19.99/\$39.50

**Why Think?**

*Evolution and the Rational Mind*



**Ronald de Sousa**, University of Toronto, Canada

In this short and accessible book, Ronald de Sousa shows us that in order to understand what is truly important about our reasoning capacity, we need to change our thinking about what rationality actually is.

2007 | 198 pages

978-0-19-518985-8, HARDBACK

£14.99/\$25.00

NEW FOR 2009

**The Art Instinct**

**Denis Dutton**, The University of Canterbury, New Zealand

The need to create art is found in every human society, manifest in many different ways across many different cultures. Is this universal need rooted in our evolutionary past? *The Art Instinct* reveals that it is, combining evolutionary psychology with aesthetics to shed new light on fascinating questions about the nature of art.

February 2009 | 224 pages

978-0-19-953942-0, HARDBACK

£16.99/\$33.98

**Social Intelligence**

*From brain to culture*



Edited by **Nathan Emery** and **Nicola Clayton**, both at the University of Cambridge, UK, and **Chris Frith**, University College London, UK

Why are humans so clever? The 'Social intelligence' hypothesis explores the idea that this cleverness has evolved through the increasing complexity of social groups. This book

brings together contributions from an impressive list of authorities in the field, appropriately concluding with a chapter by Nick Humphrey (one of the pioneers in this field). It examines social intelligence in many different animal species and explores its development, evolution and the brain systems upon which it depends. Better understanding and further development of social intelligence is critical for the future of the human race and the world that we inhabit. Our problems will not be solved by mere cleverness, but by increased social co-operation.

2007 | 464 pages

978-0-19-921654-3, PAPERBACK

£34.95/\$57.50

NEW FOR 2009

**Clonality**

*The Genetics, Ecology, and Evolution of Sexual Abstinence in Vertebrate Animals*

**John C. Avise**, University of California at Irvine, USA

99.9% of vertebrate species reproduce sexually. This book describes the other 0.1%—the clonal reproducers. Asexual animals are inherently fascinating and also uniquely instructive about alternative reproductive modes. The author guides readers into the astonishing realm of sexual abstinence, from levels of DNA molecules and cells to whole animals and populations.

January 2009 | 304 pages

978-0-19-536967-0, HARDBACK

£26.99/\$53.99