

Deadly Companions

How microbes shaped our history

Dorothy H. Crawford, University of Edinburgh, Scotland

'Lucid and authoritative... crisply written narrative.'
Sunday Telegraph

2007 | 272 pages
978-0-19-280719-9, HARDBACK £16.99/\$35.95

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
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Introduction to the Cellular and Molecular Biology of Cancer

FOURTH EDITION

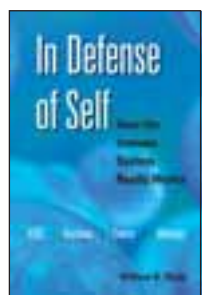
Margaret Knowles, Cancer Research UK Clinical Centre, Leeds, UK, and **Peter Selby**, National Cancer Research Network, Leeds, UK

2005 | 552 pages
978-0-19-852563-9, PAPERBACK £39.95/\$79.50
978-0-19-856853-7, HARDBACK £95.00/\$165.00

NEW FOR 2008

In Defense of Self

How the Immune System Really Works



William R. Clark, University of California, Los Angeles, USA

In Defense of Self introduces some of most important medical advances of the past hundred years, from the development of vaccines and the treatment of allergies, autoimmunity and cancer, to prolonging organ transplants and combating AIDS. It not

only explains how a vital part of our bodies works, but also provides background for continuing research.

January 2008 | 265 pages
978-0-19-533555-2, PAPERBACK £10.99/\$17.95

NEW FOR 2008

Ecology and Evolution of Parasitism

Hosts to Ecosystems

Edited by **Frédéric Thomas**, the Centre National de la Recherche Scientifique (CNRS), France, **Jean-François Guégan** and **François Renaud**, both at the French Research Institute for Development, France

Ecology and Evolution of Parasitism is the first book to provide a broad synthesis of both the roles and consequences of pathogens on the ecology and evolution of free living systems. It focuses on hosts rather than the parasites themselves, integrating those aspects related to the ecology and the evolution of free-living species (sexual selection, behaviour, life history traits, regulation of populations etc.). The book includes examples across a range of scales from individuals to populations, communities and ecosystems.

December 2008 | 240 pages
978-0-19-953533-0, PAPERBACK £34.95/\$69.90
978-0-19-953532-3, HARDBACK £75.00/\$150.00



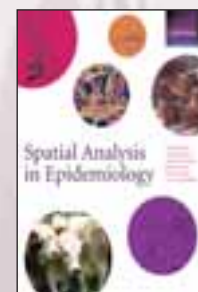
NEW FOR 2008

Spatial Analysis in Epidemiology

Dirk U. Pfeiffer, Royal Veterinary College, UK, **Timothy P. Robinson**, Food and Agricultural Organisation of the United Nations, Italy, **Mark Stevenson**, Massey University, New Zealand, **Kim B. Stevens**, Royal Veterinary College, UK, **David J. Rogers**, Oxford University, UK, and **Archie C.A. Clements**, University of Queensland, Australia

This book provides a user-friendly introduction and guide to the application of spatial analysis and geographical information systems (GIS) in epidemiology—the study of the incidence and distribution of diseases. Used appropriately, spatial analytical methods in conjunction with GIS and remotely sensed data can provide significant insights into the biological patterns and processes that underlie disease transmission.

May 2008 | 160 pages
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978-0-19-850988-2, HARDBACK £65.00/\$135.00



Disease Ecology

Community structure and pathogen dynamics

Edited by **Sharon K. Collinge** and **Chris Ray**, both at the University of Colorado, USA

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978-0-19-856707-3, HARDBACK £80.00/\$124.50



SARS

A case study in emerging infections

Angela McLean and **Robert May**, both at University of Oxford, UK, **John Pattison**, Department of Health, UK, and **Robin Weiss**, University College London, UK

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978-0-19-856818-6, HARDBACK £65.00/\$156.00



The Ecology of Wildlife Diseases

Peter Hudson, Penn State University, USA, **Annapaola Rizzoli**, Centro di Ecologia Alpina, Trento, Italy, **Bryan Grenfell**, University of Cambridge, UK, **Hans Heesterbeek**, Centre for Biometry, Wageningen, The Netherlands, and **Andy Dobson**, Princeton University, USA

2002 | 216 pages
978-0-19-850619-5, PAPERBACK £34.95/\$65.45

Infectious Diseases of Humans

Dynamics and Control

Roy M. Anderson, Imperial College, London, UK, and **Robert M. May**, University of Oxford, UK

1992 | 768 pages
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Mismatch

The lifestyle diseases timebomb

Peter Gluckman, University of Auckland, New Zealand, and **Mark Hanson**, University of Southampton, UK

Our modern lifestyles, city-bound with abundant nutrition—are far removed from the hunter-gatherer lifestyles of our ancestors. However we have not evolved to reflect this change. This fascinating and controversial book explores whether it is this 'mismatch' that has led to the deadly explosion in lifestyle diseases we face today.

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Edward C. Holmes, The Pennsylvania State University, USA

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

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NEW FOR 2008

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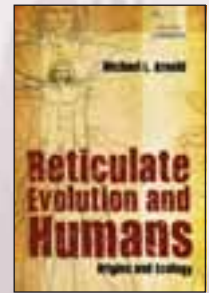
Origins and Ecology

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

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Michael L. Arnold, University of Georgia, USA

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The Quarterly Review of Biology

2007 | 272 pages

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The Major Transitions in Evolution

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

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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.

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Graham Bell, McGill University, Montreal, Canada



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

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

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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