

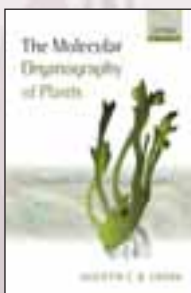
NEW FOR 2008

**The Molecular Organography of Plants**

Quentin Cronk, 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

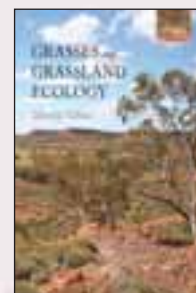
NEW FOR 2008

**Grasses and Grassland Ecology**

David J. Gibson, Southern Illinois University, USA

*Grasses and Grassland Ecology* provides an ecologically orientated introduction to this influential group of plants, summarizing the most recent scientific research in ecology and agriculture in the context of the older, classic literature. Ten chapters cover the morphology, anatomy, physiology and systematics of grasses, their population, community and ecosystem ecology, their global distribution, and the effects of disturbance and grassland management.

October 2008 | 320 pages

978-0-19-852919-4, PAPERBACK £34.95/\$69.90  
978-0-19-852918-7, HARDBACK £70.00/\$140.00**Understanding Flowers and Flowering***An integrated approach*

Beverley Glover, University of Cambridge, UK

This book provides an overview of the biology of flowers and considers how plants decide when to make flowers and how floral organs develop. It looks at why different shapes and colours exist, relating floral development to pollination biology. The breadth of

coverage makes this an ideal choice for anyone interested in any aspect of floral biology.

2007 | 240 pages

978-0-19-856596-3, PAPERBACK £32.50/\$65.00  
978-0-19-856597-0, HARDBACK £75.00/\$150.00**An Enthusiasm for Orchids***Sex and Deception in Plant Evolution*

John Alcock, Arizona State University, USA

*'An Enthusiasm for Orchids: Sex and Deception in Plant Evolution is ... an interesting book, [that] can provide good examples of plant adaptations which are desperately needed in these sort of classrooms which tend to focus more often on animal examples.'*

Plant Science Bulletin

2006 | 316 pages

978-0-19-518274-3, HARDBACK £17.99/\$29.95

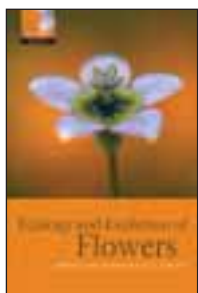
**Plant Evolution in the Mediterranean**

John D. Thompson, Centre d'Ecologie Fonctionnelle et Evolutive, C.N.R.S., France

*'Students and researchers of plant evolution, especially those working in mediterranean-climate regions, will find it indispensable as a reliable reference book.'*

Trends in Ecology and Evolution

2005 | 302 pages

978-0-19-851534-0, PAPERBACK £42.50/\$98.45  
978-0-19-851533-3, HARDBACK £85.00/\$186.45**Ecology and Evolution of Flowers**

Edited by Lawrence D. Harder, University of Calgary, Canada, and Spencer C.H. Barrett, University of Toronto, Canada

*'This comprehensive book is dedicated to the late David G. Lloyd, whose conceptual synthesis laid the foundation for modern plant reproductive biology. The chapters draw from an*

*international slate of experts and, like Lloyd's work itself, integrate mathematical theory and empiricism. This book provides a state-of-the-art view of reproductive biology today.'*

Bioscience

2006 | 384 pages

978-0-19-857086-8, PAPERBACK £42.50/\$75.00  
978-0-19-857085-1, HARDBACK £80.00/\$150.00

NEW EDITION

**Insect-Plant Biology**

SECOND EDITION



Louis M. Schoonhoven, Joop J. A. van Loon, and Marcel Dicke, Wageningen University, The Netherlands

*'This is an outstanding reference to past and recent work on plant-insect interactions.'*

The Quarterly Review of Biology

2005 | 440 pages

978-0-19-852595-0, PAPERBACK £39.95/\$99.00  
978-0-19-852594-3, HARDBACK £85.00/\$204.00

NEW FOR 2008

**Dispersal in Plants***A Population Perspective*

Roger Cousens, University of Melbourne, Australia, Calvin Dytham, University of York, UK and University of Potsdam, Germany, and Richard Law, University of York, UK

This book is the first text in many years to comprehensively describe our state of knowledge of dispersal in plants. It brings

together information from ecological field studies and theoretical modelling, exploring the implications of one for the other. It begins with the adaptations and dispersal of individual seeds, but then, unlike previous books, goes on to examine this in the context of entire plant populations and evolution. It therefore fills a significant gap on the bookshelf of both research ecologists and those involved actively in managing vegetation. The authors draw on a wealth of experience in the study of both natural vegetation and agricultural systems, from field ecology to theoretical modelling and in northern and southern hemispheres.

March 2008 | 240 pages

978-0-19-929912-6, PAPERBACK £34.95/\$70.00  
978-0-19-929911-9, HARDBACK £70.00/\$140.00

Choice Academic Book of the Year 2007

### Measuring Plant Diversity

*Lessons From the Field*



**Thomas J. Stohlgren**, Colorado State University, USA

Here is a thorough presentation and critique of the sampling approaches, designs and field techniques for measuring plant diversity. Ecologists interested in assessing landscapes and ecosystems must measure biomass,

cover, and the density or frequency of various key species. Recently, sampling designs for measuring species richness and diversity, patterns of plant diversity, species-environment relationships, and species distributions have become finer-grained, as it has become increasingly important to accurately map and assess rare species for conservation. This book lays out the range of current methods for mapping and measuring species diversity, for field ecologists, resource managers, conservation biologists, and students, as a tool kit for future field measurements of plant diversity.

2006 | 408 pages

978-0-19-517233-1, HARDBACK

£38.99/\$64.50

### People, Plants and Genes

*The Story of Crops and Humanity*



**Denis J. Murphy**, University of Glamorgan, UK

This book links the latest advances in molecular genetics with the science and history of plant domestication, the evolution of plant breeding, and the implications of our new knowledge for the agriculture of today and the future.

2007 | 432 pages

978-0-19-920714-5, PAPERBACK

£32.50/\$59.50

978-0-19-920713-8, HARDBACK

£70.00/\$130.00

### Domestication of Plants in the Old World

*The Origin and Spread of Cultivated Plants in West Asia, Europe, and the Nile Valley*

THIRD EDITION

**Daniel Zohary**, Hebrew University of Jerusalem, and **Maria Hopf**, Romisch-Germanisches Zentralmuseum, Mainz

2001 | 328 pages

978-0-19-850356-9, PAPERBACK

£37.50/\$90.00

978-0-19-850357-6, HARDBACK

£70.00/\$225.00



NEW EDITION

### Plant Biotechnology

*The genetic manipulation of plants*

SECOND EDITION

**Adrian Slater**, **Nigel Scott**, and **Mark Fowler**, all at De Monfort University, UK

*Plant Biotechnology* presents a balanced, objective exploration of the technology behind genetic manipulation, and its application to the growth and cultivation of plants. The book describes the techniques underpinning genetic manipulation and makes extensive use of case studies to illustrate how this influential tool is used in practice.

March 2008 | 400 pages

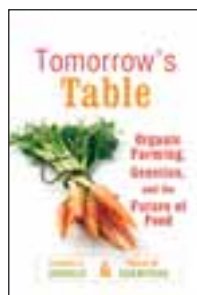
978-0-19-928261-6, PAPERBACK

£24.99/\$44.50

NEW FOR 2008

### Tomorrow's Table

*Organic Farming, Genetics, and the Future of Food*



**Pamela C. Ronald** and **Raoul W. Adamchak** both at University of California, Davis

In modern agricultural politics, organic farming and genetic engineering occupy opposite ends of the spectrum. In the Ronald-Adamchak household, the world is not so black and white. Ronald is a professor of plant pathology at the University of California, Davis. Adamchak manages the student-run organic farm on campus. Together, they're exploring the juncture where their methods can (and they argue, should) meet to ensure environmentally sustainable food production.

Revealing common principles and 'leveling the playing field,' this book roughly chronicles one year in the lives of the Ronald-Adamchak family. Through dialogue with friends and family, the authors thoughtfully explore the use of GE agriculture and the concerns expressed by consumers. They discuss the contents of their own largely organic pantry, what they choose to feed their children, and how over the last ten years of their marriage, they have developed a specific criteria for the use of GE in agriculture. From their personal vantage points, Ronald and Adamchak explain what geneticists and organic farmers actually do, and help readers distinguish between fact and fiction in the debate about crop genetic engineering.

April 2008 | 226 pages

978-0-19-530175-5, HARDBACK

£17.99/\$29.95

### An Introduction to Tropical Rain Forests

SECOND EDITION

**T. C. Whitmore**, University of Cambridge, UK

1998 | 296 pages

978-0-19-850147-3, PAPERBACK

£39.95/\$64.95

NEW FOR 2009

### Wytham Woods

*Oxford's Ecological Laboratory*

Edited by **Christopher Perrins**, and **Peter Savill**, both at the University of Oxford, UK

This iconic location has been the subject of a very long-term ecological research programme dating back to the 1920s. The book will provide an overview of the Woods—their history, composition (both plant and animal), how their wildlife has changed over time, and their significance in terms of the scientific research that has been conducted there.

June 2009 | 256 pages

978-0-19-954320-5, HARDBACK

£49.95/\$99.90

### Tropical Forests and Global Atmospheric Change

**Yadvinder Malhi**, University of Oxford, UK, and **Oliver Phillips**, University of Leeds, UK

2005 | 320 pages

978-0-19-856706-6, PAPERBACK

£42.50/\$96.00

978-0-19-856705-9, HARDBACK

£85.00/\$154.50

### Plantation Forestry in the Tropics

*The role, silviculture and use of planted forests for industrial, social, environmental and agroforestry purposes*

THIRD EDITION

**Julian Evans**, Professor of Tropical Forestry, Imperial College London, and **John W. Turnbull**, Formerly Senior Principal Research Scientist, CSIRO Forestry and Forest Products (Australia)

2004 | 480 pages

978-0-19-850947-9, PAPERBACK

£45.00/\$108.00

978-0-19-852994-1, HARDBACK

£100.00/\$219.45

### Forest Ecology and Conservation

*A Handbook of Techniques*

**Adrian Newton**, Bournemouth University, UK

'This book, and this series, will have an impact, not only in helping researchers improve their methods but also in conservation efforts on the ground around the world... Academics will be impressed by the scope and currency of Newton's treatment.'

Journal of Ecology

Techniques in Ecology & Conservation

2007 | 472 pages

978-0-19-856745-5, PAPERBACK

£29.95/\$54.95

978-0-19-856744-8, HARDBACK

£65.00/\$120.00

NEW IN PAPERBACK

### Linnaeus' Philosophia Botanica

**Stephen Freer**

2005 | 432 pages

978-0-19-856934-3, PAPERBACK

£55.00/\$99.00

## GENERA ORCHIDACEARUM

The Genera Orchidacearum series represents a robust and natural classification of the Orchids, something that has eluded plant scientists and orchid enthusiasts for years. The editors, who are distinguished orchid specialists, incorporate a wealth of new DNA data into a truly phylogenetic classification, identifying the areas of taxa that merit additional work. Each volume provides comprehensive coverage of one or two orchid subfamilies, and the subfamilies and series as a whole will be an indispensable reference tool for scientists, orchid breeders and growers.

Edited by **Alec M. Pridgeon**, **Phillip J. Gribb**, **Mark W. Chase**, all at the Royal Botanic Gardens, Kew, and **Finn Rasmussen**, University of Copenhagen, Denmark

NEW FOR 2009

### Genera Orchidacearum Volume 5

#### *Epidendroideae (Part II)*

Edited by **Alec M. Pridgeon**, **Phillip J. Gribb**, **Mark W. Chase**, all at the Royal Botanic Gardens, Kew, and **Finn Rasmussen**, University of Copenhagen, Denmark

*Genera Orchidacearum* is the first monograph of the world's orchid genera that reflects their long evolutionary history and reveals relationships based on genealogical descent and the most up-to-date DNA data. This fifth volume treats 186 genera in tribe Cymbidieae of the largest subfamily, Epidendroideae, including some of the showiest orchids often used in hybridizing. Comprehensive treatments are provided for each genus, which include complete nomenclature, description, distribution (with map), anatomy, palynology, cytogenetics, phytochemistry, phylogenetics, pollination, ecology, and economic uses. Cultivation notes are included for those genera known to be in hobbyist collections. Each genus is beautifully illustrated with line drawings and stunning colour photographs.

March 2009 | 664 pages

978-0-19-850713-0, HARDBACK

£125.00/\$250.00



For more information on volumes 1-4 please visit [www.oup.com](http://www.oup.com)

NEW FOR 2008

### A Field Guide to Plants of Costa Rica

FIRST EDITION



**Margaret Gargiullo**, **Larry Kimball**, and **Barbara Magnuson**

*A Field Guide to Plants of Costa Rica* is a must-have reference guide for beginner and expert naturalists alike. It provides a thorough survey of more than 850 plant species, each entry accompanied by color photos and a concise yet detailed

narrative description. Plants are conveniently grouped by the different types of vegetation: palms, tall trees, shrubs, woody vines, herbaceous vines, herbs, grasses and ferns. Along with 1400 color photographs, the guide also includes an illustrated glossary of plant parts, five maps of Costa Rica, and laminated covers for durability in the field. With so much readily accessible information, this book is essential for exploring Costa Rica's common and conspicuous flora from the plants growing along the roadside to the best natural parks.

March 2008 | 542 pages

978-0-19-518825-7, PAPERBACK

£22.99/\$39.50

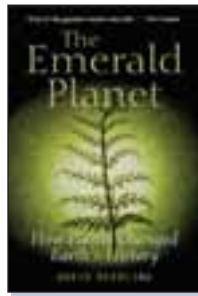
978-0-19-518824-0, HARDBACK

£41.00/\$74.50

NEW IN PAPERBACK

### The Emerald Planet

*How plants changed Earth's history*



**David Beerling**, University of Sheffield, UK

'My favourite non-fiction book this year...[a] highly readable history of the last half-billion years on earth'

**Oliver Sacks**, *Observer Books of the Year*

This book is the tale of our world's past—and future—as revealed by plants. Newly found clues in the fossil

record show plants to be powerful agents of change, moulding the Earth's climate and affecting the evolutionary path of life over the immensity of geological time. They tell of how giant insects could once flourish, of an ancient ozone hole, and offer new explanations for past episodes of global warming. As we face the challenge of a changing climate today, theirs is a tale we cannot ignore.

August 2008 | 304 pages

978-0-19-954814-9, PAPERBACK

£8.99/\$17.98

978-0-19-280602-4, HARDBACK

£14.99/\$29.95

## SANTA FE INSTITUTE ON THE SCIENCES OF COMPLEXITY

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### Ecological Networks

*Linking Structure to Dynamics in Food Webs*

Edited by **Mercedes Pascual**, University of Michigan, USA, and **Jennifer A. Dunne**, Santa Fe Institute, New Mexico, USA



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Edited by **Allon Percus**, UCLA, USA, **Gabriel Istrate**, Los Alamos National Laboratory, USA, and **Cristopher Moore**, University of New Mexico, USA

2006 | 382 pages

978-0-19-517738-1, PAPERBACK

£29.99/\$55.00

### Modeling Extinction

**M. E. J. Newman**, Research Professor, and **R. G. Palmer**, Duke University, USA; and Member of External Faculty, both at Santa Fe Institute

2003 | 124 pages

978-0-19-515946-2, PAPERBACK

£18.00/\$30.00

### Scaling in Biology

Edited by **James H. Brown**, University of New Mexico, USA, and **Geoffrey B. West**, Los Alamos National Laboratory, USA

2000 | 366 pages

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### Swarm Intelligence

*From Natural to Artificial Systems*

**Eric Bonabeau**, Santa Fe Institute, **Marco Dorigo**, University of Brussels, Belgium, and **Guy Theraulaz**, University Paul Sabatier, France

1999 | 320 pages

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