

R. G. Bednarik, International Federation of Rock Art Organisations, Caufield South, Victoria, Australia

## The Human Condition

The book summarizes the work of several decades, culminating in a revolutionary model of recent human evolution. It challenges current consensus views fundamentally, presenting in its support a mass of evidence, much of which has never been assembled before. This evidence derives primarily from archaeology, paleoanthropology, genetics, clinical psychology, neurosciences, linguistics and cognitive sciences. No even remotely similar thesis of recent human origins has ever been published, but some of the key elements of this book have been published by the author in major refereed journals in the last two years. Its implications, if published effectively, would be far-reaching, and would profoundly affect the way we perceive ourselves as a species. This book about what it means to be human is heavily referenced, with a bibliography of many hundreds of scientific entries.

### Features

► The book summarizes the work of several decades, culminating in a revolutionary model of recent human evolution ► This book about what it means to be human is heavily referenced, with a bibliography of many hundreds of scientific entries ► The relevant archaeological, paleoanthropological and genetic evidence is painstakingly assembled

### Field of interest

Evolutionary Biology

### Target groups

Graduate

### Discount group

P

K. Davies, Rothamsted Research, Harpenden, United Kingdom; Y. Spiegel, Agricultural Research Organization (ARO) The Volcani Center, Bet Dagan, Israel (Eds.)

## Biological Control of Plant-Parasitic Nematodes: Building Coherence between Microbial Ecology and Molecular Mechanisms

The offered volume intends to review the biological control theme of phytonematodes from several prospects: ecological; applicative as well as commercial state of the art; understanding the mode-of-action of various biocontrol systems; interaction between the plant host, nematodes' surface and microorganism's; candidates for biocontrol; extrapolation of the wide knowledge existed in another systems for understanding biocontrol processes: *C. elegans* as a model and lessons from other natural systems; and exploiting advanced genomic tools to promote understanding biocontrol processes and thereafter improve specific biological control agents.

### Features

► First book on the topic in 20 years ► Multidisciplinary approach ► Contributions by leading authors in the field

### Fields of interest

Plant Pathology; Agriculture; Microbiology

### Target groups

Research

### Discount group

P

C. Hagedorn, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, USA; A. R. Blanch, Universitat de Barcelona, Barcelona, Spain; V. Harwood, University of South Florida, Tampa, Florida, USA (Eds.)

## Microbial Source Tracking: Methods, Applications, and Case Studies

Understanding the origin of fecal pollution is essential in assessing potential health risks as well as for determining the actions necessary to remediate the quality of waters contaminated by fecal matter. As a result, microbial source tracking (MST) has emerged as a field that has evolved and diversified rapidly since the first approaches were described only a decade ago. In response to the emergence of MST, there have been three large multi-laboratory method comparison studies (two in the US and one in Europe), plus numerous workshops, book chapters, and review articles dedicated to synthesizing information on the topic. Furthermore, a federal (USEPA) guide document describing the uses and limitations of MST methods was published in 2005, and a book dedicated to MST as an emerging issue in food safety was published in 2007. These documents provide a collective body of literature on MST that is both conflicting and complementary, often repetitious, and difficult to condense and interpret.

### Features

► This comprehensive book taps the expertise of many of the leading research scientists from an international assemblage, and considers a geographic range from the U.S. to China, New Zealand, Australia, and the EU ► It addresses subjects ranging from the fundamentals of MST methods, their pros and cons, and performance criteria necessary during method development, and application, to case studies from beach, agricultural, and urban watersheds ► This is most comprehensive book on this subject in years

### Fields of interest

Microbiology; Public Health/Gesundheitswesen; Infectious Diseases

### Target groups

Research

### Discount group

P

*Due April 2011*

2011. 200 p. Hardcover

► **approx. \$189.00**  
ISBN 978-1-4419-9352-6

*Due May 2011*

2011. XX, 380 p. 40 illus. in color. (Progress in Biological Control, Volume 11) Hardcover

► **approx. \$165.00**  
ISBN 978-1-4020-9647-1

*Due June 2011*

2011. 480 p. 20 illus. in color. Hardcover

► **approx. \$209.00**  
ISBN 978-1-4419-9385-4

O. Holst, Forschungszentrum Borstel, Borstel, Germany (Ed.)

## Microbial Toxins

### Methods and Protocols

Interest in the field of microbial toxins is ever growing and spreading across a broad spectrum of scientific disciplines. In an effort to supplement the available reference texts on toxins, *Microbial Toxins: Methods and Protocols* includes protocols on mold fungus toxins, with some focus on aflatoxins. Intended to support a wide variety of researchers, *Microbial Toxins: Methods and Protocols* presents the reader with biological, chemical, physical, and medical approaches, as well as state-of-the-art research techniques. Divided into three convenient sections, this detailed volume covers bacterial protein toxins, endotoxins, and mold fungus toxins. Written in the highly successful *Methods in Molecular Biology™* series format, chapters contain introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

Authoritative and accessible, *Microbial Toxins: Methods and Protocols* seeks to serve both professionals and novices with its well-honed methodologies in an effort to further our knowledge of this essential field.

#### Features

- ▶ Includes cutting-edge methods and protocols
- ▶ Provides step-by-step detail essential for reproducible results
- ▶ Contains key notes and implementation advice from the experts

#### Fields of interest

Microbiology; Bacteriology

#### Target groups

Professional/practitioner

#### Discount group

P

B. Jonsson, N. Jonsson, Norwegian Institute for Nature Research, Oslo, Norway

## Ecology of Atlantic Salmon and Brown Trout

### Habitat as a template for life histories

Destruction of habitat is the major cause for loss of biodiversity including variation in life history and habitat ecology. Each species and population adapts to its environment, adaptations visible in morphology, ecology, behaviour, physiology and genetics. Here, the authors present the population ecology of Atlantic salmon and brown trout and how it is influenced by the environment in terms of growth, migration, spawning and recruitment. Salmonids appeared as fresh water fish some 50 million years ago. Atlantic salmon and brown trout evolved in the Atlantic basin, Atlantic salmon in North America and Europe, brown trout in Europe, Northern Africa and Western Asia. The species live in small streams as well as large rivers, lakes, estuaries, coastal seas and oceans, with brown trout better adapted to small streams and less well adapted to feeding in the ocean than Atlantic salmon. Smolt and adult sizes and longevity are constrained by habitat conditions of populations spawning in small streams. Feeding, wintering and spawning opportunities influence migratory versus resident lifestyles, while the growth rate influences egg size and number, age at maturity, reproductive success and longevity. Further, early experiences influence later performance. For instance, juvenile behaviour influences adult homing, competition for spawning habitat, partner finding and predator avoidance.

#### Features

- ▶ A modern reference to the ecology of Atlantic salmon and brown trout with intraspecific and interspecific comparisons
- ▶ First synthesis of the close relationship between habitat and life histories of these species
- ▶ Wide description of how salmonid populations are influenced by climate change and escape from salmon farms and how populations can be managed to reduce negative environmental impacts

#### Fields of interest

Animal Ecology; Freshwater & Marine Ecology; Fish & Wildlife Biology & Management

#### Target groups

Research

#### Discount group

P

W. Klemm, Texas A&M University, College Station, USA

## Atoms of Mind

### The "Ghost in the Machine" Materializes

This book describes the author's view of how the mind "thinks" at various levels of operation. These levels include nonconscious mind (as in spinal/brainstem reflexes and neuroendocrine controls), subconscious mind, and conscious mind. In the attempt to explain conscious mind, there is considerable critique of arguments over whether or not free will is an illusion. Finally, the author summarizes current leading theories for consciousness (Bayesian probability, chaos, and quantum mechanics) and then presents his own theory based on patterns of nerve impulses in circuits that are interlaced coherently into larger networks.

#### Features

- ▶ The book attempts to explain thinking from a biological perspective
- ▶ The book includes a great deal of previously ignored or discounted evidence and many new ideas for research are suggested
- ▶ The book takes the approach beginning with operations of the simplest levels and eventually leading to an attempt to explain conscious mind

#### Fields of interest

Neurobiology; Neurosciences; Neurology

#### Target groups

Popular/general

#### Discount group

P

 Humana Press

*Due April 2011*

2011. 215 p. 43 illus., 3 in color. (Methods in Molecular Biology, Volume 739) Hardcover

▶ \$119.00

ISBN 978-1-61779-101-7

*Due May 2011*

2011. 600 p. (Fish & Fisheries Series, Volume 33) Hardcover

▶ \$229.00

ISBN 978-94-007-1188-4

*Due May 2011*

2011. 300 p. 54 illus. Hardcover

▶ \$209.00

ISBN 978-94-007-1096-2

H. Kodama, Chiba University, Chiba, Japan;  
A. Komamine, The Research Institute of Evolutionary  
Biology, Tokyo, Japan (Eds.)

## RNAi and Plant Gene Function Analysis

### Methods and Protocols

The use of RNAi technology is essential for most plant science researchers. As DNA sequence information increases, so the need for functional annotation of target genes also increases. Authoritative and accessible, RNAi and Plant Gene Function Analysis: Methods and Protocols seeks to serve as an ideal guide to scientists of all backgrounds looking to further their knowledge of this fundamental science. Written in the highly successful Methods in Molecular Biology™ series format, chapters contain introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls.

In addition to the functional annotation of unknown genes, RNAi technology has been applied to the genetic engineering of important plant metabolites including starches, oils, and storage proteins. RNAi has been used to engineer plants resistant to plant viruses and also to nematodes and insects. RNAi and Plant Gene Function Analysis: Methods and Protocols will provide both professionals and novices of plant biotechnology and breeding research with essential tips for designing experiments meant to explore plant gene function.

#### Features

► Includes cutting-edge methods and protocols  
► Provides step-by-step detail essential for reproducible results  
► Contains key notes and implementation advice from the experts

#### Fields of interest

Plant Genetics & Genomics

#### Target groups

Professional/practitioner

#### Discount group

P

R. S. Krannich, Utah State University, Logan, UT, USA;  
A. E. Luloff, Pennsylvania State University, University  
Park, PA, USA; D. R. Field, University of Wisconsin,  
Madison, WI, USA

## People, Places and Landscapes

### Social Change in High Amenity Rural Areas

This volume is a cogent empirical analysis of the interplay between a region's natural amenities and its socioeconomic evolution. It focuses on the rural sectors of America's Intermountain West region, which lies between the Cascades and Sierra Nevada mountains to the west and the Rocky Mountains to the east. Coherently structured and meticulously detailed, it adds much to our understanding of the ways an area's forests, lakes, mountains, parkland and historic attractions affect residents' sense of well-being as well as the sociodemographic and economic changes they experience. The book examines patterns of growth and change linked to the emergence of 'New West' conditions, assessing their implications for the wider community as well as discussing the impact these trends could have on the consumption of natural resources. It also points to ways in which communities and their development can be managed sustainably. The tight geographical focus of this valuable resource ensures a depth of analysis which can be applied to similar regions worldwide. Based on a large-scale, random-sample survey of both full-time and seasonal residents, it provides a much-needed overview of the macro-level economic, demographic, and social transformations affecting rural communities in America.

#### Features

► Well-respected authors who are leaders in their field  
► An important and timely topic of study addressed at multiple scales  
► Focuses on an important area in the US but with applicability to regions facing similar changes around the world  
► Links natural resource management and change to sociological and developmental issues facing rural areas  
► Combines theoretical perspective with analysis of direct relevance to practitioners

#### Fields of interest

Landscape Ecology; Landscape/Regional and Urban Planning; Environmental Management

#### Target groups

Research

#### Discount group

P

T. K. Lim, Canberra, ACT, Australia

## Edible Medicinal and Non-Medicinal Plants

### Vol. 1

This multi-compendium is a comprehensive, illustrated and scientifically up-to-date work covering more than a thousand species of edible medicinal and non-medicinal plants. This work will be of significant interest to scientists, researchers, medical practitioners, pharmacologists, ethnobotanists, horticulturists, food nutritionists, agriculturists, botanists, herbalogists, conservationists, teachers, lecturers, students and the general public. Topics covered include: taxonomy (botanical name and synonyms); common English and vernacular names; origin and distribution; agro-ecological requirements; edible plant part and uses; botany; nutritive and medicinal/pharmacological properties, medicinal uses and current research findings; non-edible uses; and selected/cited references. Each volume covers about a hundred species arranged according to families and species. Each volume has separate scientific and common names indices and separate scientific and medical glossaries.

#### Features

► Multi compendium format covering over 1000 edible medicinal and non-medicinal plants: fruits, vegetables, culinary herbs, pulses, cereals, spices and condiments, root crops, beverages, mushrooms, edible oils and stimulants  
► Each volume covering 100 species with 300-350 coloured plates/volume to help identify the plant and plant parts which are edible and so used  
► For each plant, detailed and up-to date information is provided: on its botanical name and synonyms; common English and vernacular names; origin and distribution; agroecological requirements; edible plant parts and uses; plant botany; nutritive and medicinal/pharmacological values, medicinal uses and relevant up-to-date research; other uses; and cited and selected references for further reading  
► Each volume will have a separate index for scientific and common names and separate scientific and medical glossaries

#### Fields of interest

Agriculture; Plant Sciences; Biomedicine general

#### Target groups

Research

#### Discount group

P

 Humana Press

Due May 2011

2011. 210 p. 43 illus., 1 in color. (Methods in Molecular Biology, Volume 744) Hardcover

► \$119.00

ISBN 978-1-61779-122-2

Due June 2011

2011. VIII, 250 p. 32 illus. in color. (Landscape Series, Volume 14) Hardcover

► approx. \$139.00

ISBN 978-94-007-1262-1

Due July 2011

2011. XX, 480 p. 350 illus. in color. Hardcover

► approx. \$209.00

ISBN 978-90-481-8660-0

G. E. Machlis, University of Idaho, Moscow, ID, USA; T. Hanson, Friday Harbor, WA, USA; Z. Špirić, Oikon-Institute of Applied Ecology, Zagreb, Croatia; J. McKendry, Association of American Geographers, Washington, DC, USA (Eds.)

## Warfare Ecology

**A New Synthesis for Peace and Security  
Proceedings of the NATO Advanced Study  
Institute / Advanced Research Workshop on  
(Title/Meeting, Place, Date)**

The purpose of this book is specific and ambitious: to outline the distinctive elements, scope, and usefulness of a new and emerging field of applied ecology named warfare ecology. Based on a NATO Advanced Research Workshop held on the island of Vieques, Puerto Rico, the book provides both a theoretical overview of this new field and case studies that range from mercury contamination during World War I in Slovenia to the ecosystem impacts of the Palestinian occupation, and from the bombing of coral reefs of Vieques to biodiversity loss due to violent conflicts in Africa.

### Features

- The book is the first effort to outline and describe the new subfield of warfare ecology
- The book extends beyond proceedings of the Advanced Research Workshop, and includes key classical papers, an overview of the new synthesis, and chapters dealing with war preparations, war, and postwar restoration
- The book includes a wide range of case studies based on research in a diverse set of ecosystems around the world
- The book's audience includes scientists, military and humanitarian relief professionals, and graduate students interested in this emerging discipline

### Fields of interest

Ecology; Applied Ecology; Environmental Management

### Target groups

Research

### Discount group

P

*Due July 2011*

2011. Approx. 200 p. 5 illus. in color. (NATO Science for Peace and Security Series C: Environmental Security) Hardcover

► **\$189.00**  
ISBN 978-94-007-1213-3

Also available as Softcover

► **\$89.95**  
ISBN 978-94-007-1286-7

D. K. Maheshwari, Gurukul Kangri University, Haridwar UK, India (Ed.)

## Bacteria in Agrobiolgy: Crop Ecosystems

The future of agriculture strongly depends on our ability to enhance productivity without sacrificing long-term production potential. An ecologically and economically sustainable strategy is the application of microorganisms, such as the diverse bacterial species of plant growth promoting bacteria (PGPB). The use of these bio-resources for the enhancement of crop productivity is gaining worldwide importance.

*Bacteria in Agrobiolgy: Crop Ecosystems* describes the beneficial role of plant growth promoting bacteria with special emphasis on oil yielding crops, cereals, fruits and vegetables. Chapters present studies on various aspects of bacteria-plant interactions, soil-borne and seed-borne diseases associated with food crops such as rice, sesame, peanuts, and horticultural crops. Further reviews describe technologies to produce inoculants, the biocontrol of post harvest pathogens as a suitable alternative to agrochemicals, and the restoration of degraded soils.

### Features

- Gives a modern approach to the various facets of plant growth promoting and associative bacteria
- A valuable source of information for scientists in agriculture, agronomy, applied microbiology, plant protection, environmental sciences and soil ecology
- Written by renowned scientists

### Fields of interest

Bacteriology; Agriculture; Plant Breeding/ Biotechnology

### Target groups

Research

### Discount group

P

*Due April 2011*

2011. X, 340 p. Hardcover

► **\$209.00**  
ISBN 978-3-642-18356-0

S. S. Mark, Pacific Biosciences, Menlo Park, CA, USA (Ed.)

## Bioconjugation Protocols Strategies and Methods

Contemporary approaches to the synthesis of chemically modified biomacromolecules (proteins, nucleic acids, lipids, and carbohydrates) not only require efficient means to control conjugation and the specific site of attachment of the conjugated moiety but also the effective use of recent developments in the fields of pharmaceutical chemistry, biomolecular/polymer engineering, and nanobiotechnology. In this second edition of *Bioconjugation Protocols: Strategies and Methods*, expert researchers update the classic methods and introduce valuable new approaches that go beyond basic conjugation techniques to include elements from advanced organic synthesis, molecular biology, surface biotechnology, materials science, and nanobioscience/engineering. These readily reproducible methods cover the preparation of biomolecular conjugates using a variety of labeling techniques and semisynthetic approaches. Additional chapters address the biofunctionalization of surface structures, including organic/inorganic thin films, as well as various types of nanostructures (magnetic nanoparticles, quantum dots, carbon nanotubes, and silicon nanowire devices).

### Features

- Readily reproducible techniques for synthesizing functional biomolecular reagents
- Emphasis on the interplay of advanced organic synthesis, molecular biology, surface biotechnology and biomaterials engineering
- Step-by-step laboratory protocols for the preparation of protein, nucleic acid, glycosyl and lipid conjugates
- Applications ranging from novel biomedical diagnostics to therapeutics and biomaterials

### Fields of interest

Biochemistry, general; Biomaterials; Biomedical Engineering

### Target groups

Professional/practitioner

### Discount group

P

 **Humana Press**

*Due July 2011*

2nd Edition 2011. 565 p. 182 illus. (Methods in Molecular Biology, Volume 751) Hardcover

► **approx. \$159.00**  
ISBN 978-1-61779-150-5

R. P. Mecham, Washington University School of Medicine, St. Lois MO, USA (Ed.)

## The Extracellular Matrix: an Overview

Knowledge of the extracellular matrix (ECM) is essential to understand cellular differentiation, tissue development, and tissue remodeling. This volume of the series "Biology of Extracellular Matrix" provides a timely overview of the structure, regulation, and function of the major macromolecules that make up the extracellular matrix. It covers topics such as collagen types and assembly of collagen-containing suprastructures, basement membrane, fibronectin and other cell-adhesive glycoproteins, proteoglycans, microfibrils, elastin, fibulins and matricellular proteins, such as thrombospondin. It also explores the concept that ECM components together with their cell surface receptors can be viewed as intricate nano-devices that allow cells to physically organize their 3-D-environment. Further, the role of the ECM in human disease and pathogenesis is discussed as well as the use of model organisms in elucidating ECM function.

### Features

► First volume of this re-launched series ► An excellent introduction to the biology of the extracellular matrix ► Published in collaboration with the American Society for Matrix Biology

### Fields of interest

Cell Biology; Protein Science; Molecular Medicine

### Target groups

Research

### Discount group

P

W. C. Parks, University of Washington, Seattle, USA; R. P. Mecham, Washington University School of Medicine, St. Lois MO, USA (Eds.)

## Extracellular Matrix Degradation

Regulated turnover of extracellular matrix (ECM) is an important component of tissue homeostasis. In recent years, the enzymes that participate in, and control ECM turnover have been the focus of research that touches on development, tissue remodeling, inflammation and disease. This volume in the Biology of Extracellular Matrix series provides a review of the known classes of proteases that degrade ECM both outside and inside the cell. The specific EMC proteases that are discussed include cathepsins, bacterial collagenases, matrix metalloproteinases, meprins, serine proteases, and elastases. The volume also discusses the domains responsible for specific biochemical characteristics of the proteases and the physical interactions that occur when the protease interacts with substrate. The topics covered in this volume provide an important context for understanding the role that matrix-degrading proteases play in normal tissue remodeling and in diseases such as cancer and lung disease.

### Features

► Provides timely reviews on current topics of ECM biology ► Improves our understanding of the role of matrix-degrading proteases in tissue remodeling and diseases ► The series is published in collaboration with the American Society for Matrix Biology

### Fields of interest

Cell Biology; Biochemistry, general; Protein Science

### Target groups

Research

### Discount group

P

M. Pavao, Federal University of Rio de Janeiro, Brazil (Ed.)

## Glycans in Diseases and Therapeutics

This volume of the series "Biology of Extracellular Matrix" reviews the most recent findings on the role of glycans in the development of diseases and the possible therapeutic use of this class of molecules. It shows how the interaction of glycans with growth factors, growth factor binding proteins, extracellular proteases, protease inhibitors, chemokines, morphogens, and adhesive proteins regulates inflammation, infection, cancer, atherosclerosis, thrombosis and embryonic stem cell biology. Furthermore, an extensive survey about the structure and pharmacological effects of unique marine glycosaminoglycans is discussed as well as the possibility of using these glycans as therapeutic agents.

### Features

► Published in collaboration with the American Society for Matrix Biology.

### Fields of interest

Cell Biology; Animal Biochemistry; Molecular Medicine

### Target groups

Research

### Discount group

P

*Due March 2011*

2011. XIV, 425 p. (Biology of Extracellular Matrix)  
Hardcover

► \$209.00

ISBN 978-3-642-16554-2

*Due May 2011*

2011. 300 p. (Biology of Extracellular Matrix, Volume 2)  
Hardcover

► \$189.00

ISBN 978-3-642-16860-4

*Due May 2011*

2011. XII, 280 p. (Biology of Extracellular Matrix)  
Hardcover

► \$189.00

ISBN 978-3-642-16832-1

M. Rai, Amravati University, Maharashtra, India; N. Duran, Universidade Estadual de Campinas, Campinas, S.P., Brazil (Eds.)

## Metal Nanoparticles in Microbiology

Following an introduction to biogenic metal nanoparticles, this book presents how they can be biosynthesized using bacteria, fungi and yeast, as well as their potential applications in biomedicine. It is shown that the synthesis of nanoparticles using microbes is eco-friendly and results in reproducible metal nanoparticles of well-defined sizes, shapes and structures. This biotechnological approach based on the process of biomineralization exploits the effectiveness and flexibility of biological systems. Chapters include practical protocols for microbial synthesis of nanoparticles and microbial screening methods for isolating a specific nanoparticle producer as well as reviews on process optimization, industrial scale production, biomolecule-nanoparticle interactions, magnetosomes, silver nanoparticles and their numerous applications in medicine, and the application of gold nanoparticles in developing sensitive biosensors.

### Features

► The first book introducing the new biotechnology of biogenic metal nanoparticles ► The editors are experienced researchers in the field of nanotechnology ► Contributions written by leading researchers in the field

### Fields of interest

Microbiology; Biotechnology; Applied Microbiology

### Target groups

Research

### Discount group

P

*Due April 2011*

2011. VIII, 320 p. Hardcover

► **approx. \$209.00**

ISBN 978-3-642-18311-9

E. Ritter, Aalborg, Denmark; D. Daukstra, Builth Wells, Powys, Wales, UK (Eds.)

## New Perspectives on People and Forests

The aim of this book is to elucidate the role of forests as part of a landscape in the life of people. Most landscapes today are cultural landscapes that are influenced by human activity and that in turn have a profound effect on our understanding of and identification with a place. The book proposes that a better understanding of the bond between people and forests as integrated part of a landscape may be helpful in landscape planning, and may contribute to the discussion of changes in forest cover which has been motivated by land use changes, rural development and the global climate debate. To this end, people's perception of forest landscapes, the reasons for different perceptions, and future perspectives are discussed. Given the wide range of forest landscapes, and cultural perspectives which exist across the world, the book focuses on Europe as a test case to explore the various relationships between society, culture, forests and landscapes. It looks at historical evidence of the impacts of people on forests and vice versa, explores the current factors affecting people's physical and emotional comfort in forest landscapes, and looks ahead to how changes in forest cover may alter the present relationships of people to forests.

### Features

► Contributes to the ongoing discussion on afforestation by including a socio-cultural aspect ► Deals with important topics in landscape ecology (eg cultural landscapes) ► Well connected with other important issues like microclimate and human comfort in forest landscapes ► Explores links between people and forest landscapes which is something that crosses disciplines and few people (if any) have done it successfully ► Interesting, important and relevant field. People are essential and are all too often forgotten in work on forests and/or forest landscapes

### Fields of interest

Landscape Ecology; Landscape/Regional and Urban Planning; Community and Environmental Psychology

### Target groups

Research

### Discount group

P

*Due May 2011*

2011. XX, 244 p. 23 illus. in color. (World Forests, Volume 9) Hardcover

► **approx. \$179.00**

ISBN 978-94-007-1149-5

G. Roberts, University of Leicester, UK (Ed.)

## Encyclopedia of Biophysics

In cooperation with: European Biophysical Societies' Association (EBSA)

The Encyclopedia of Biophysics is envisioned both as an easily accessible source of information and as a route into the scientific literature. It consists of two parts, Techniques and Systems. In the Techniques sections, each of the wide range of methods which fall under the heading of Biophysics are explained in detail, together with the value and the limitations of the information each provides.

### Features

► First ever comprehensive encyclopedia of biophysics of this size ► Covering all field of modern biophysics ► Online version with extensive cross-referencing / hyperlinks

### Fields of interest

Biochemistry, general; Biophysics and Biological Physics; Protein Science

### Target groups

Research

### Discount group

P

SPRINGER  
REFERENCE

*Due March 2012*

2012. 4000 p. (In 5 volumes, not available separately) Hardcover

► **approx. \$2699.00**

ISBN 978-3-642-16711-9

2012. 4000 p. eReference. (In 5 volumes, not available separately)

► **approx. \$2999.00**

ISBN 978-3-642-16712-6

2012. 4000 p. Print + eReference. (In 5 volumes, not available separately)

► **approx. \$3149.00**

ISBN 978-3-642-16713-3

F. H. Schweingruber, Institut for Forest, Snow and Landscape Research WSL, Birmensdorf, Switzerland; A. Börner, E. Schulze, Max Planck Institute for Biogeochemistry, Jena, Germany

## Atlas of Stem Anatomy in Herbs, Shrubs and Trees

### Volume 1

This work, published in two volumes, contains descriptions of the wood and bark anatomies of 3000 dicotyledonous plants of 120 families, highlighting the anatomical and phylogenetic diversity of dicotyledonous plants of the Northern Hemisphere. The first volume principally treats families of the Early Angiosperms, Eudicots, Core Eudicots and Rosids, while the second concentrates on the Asterids.

Presented in Volume 1 are microsections of the xylem and phloem of herbs, shrubs and trees of 1200 species and 85 families of various life forms of the temperate zone along altitudinal gradients from the lowland at the Mediterranean coast to the alpine zone in Western Europe. The global perspective of the findings is underlined by the analysis of 500 species from the Caucasus, the Rocky Mountains and Andes, the subtropical zone on the Canary Islands, the arid zones in the Sahara, in Eurasia, Arabia and Southwest North America, and the boreal and arctic zones in Eurasia and Canada. The presence of annual rings in all life forms demonstrates that herbs and dwarf shrubs are an excellent tool for the reconstruction of annual biomass production and the interannual dynamic of plant associations.

#### Features

► Presents a taxonomical and ecological evaluation of stem anatomical features of all life forms of dicotyledonous Angiosperms ► Contains more than 2000 color illustrations ► Has a high aesthetic value ► Opens vast fields of research for dendrochronology, wood anatomy, taxonomy and ecology.

#### Fields of interest

Plant Anatomy/Development; Plant Systematics/Taxonomy/Biogeography; Wood Science & Technology

#### Target groups

Research

#### Discount group

P

*Due April 2011*

2011. 500 p. Hardcover

► **\$139.00**

ISBN 978-3-642-11637-7

T. Sime-Ngando, Université Blaise Pascal, Clermont-Ferrand, France; N. Niquil, Université de La Rochelle, La Rochelle, France (Eds.)

## Disregarded Microbial Diversity and Ecological Potentials in Aquatic Systems

Severely increasing anthropic pressure on natural water bodies sets a societal context where it is urgent to better understand the role of microbial biodiversity in aquatic ecosystem dynamics and resilience to perturbations. Micro-organisms regulate the chemical composition of the biosphere, influence climates, recycle nutrients, and decompose pollutants. The diversity of microbial communities and their ecological and metabolic functions are being explored in a variety of natural ecosystems, including extreme environments. Because of technical constraints, microbiologists have focused their efforts mainly on prokaryotes. In the environment, and particularly in aquatic ecosystems, the diversity and dynamics of microbial eukaryotes are still poorly understood. Among the new paradigms and challenges constantly emerging in aquatic sciences, probing the unexplored reservoir of novel 'species', genes, and metabolic pathways from microbial eukaryotes offers, perhaps, the most exciting research opportunity for the future. These were discussed during the topical session 11 of the ASLO 2009 aquatic sciences meeting held at Nice, France, through a combination of invited and selected talks and posters.

#### Features

► Recent innovative research on the diversity of overlooked microbial eukaryotes is provided  
► New related ecological potentials are inferred in the context of the functional ecology of aquatic ecosystems

#### Fields of interest

Freshwater & Marine Ecology; Microbial Ecology; Biodiversity

#### Target groups

Research

#### Discount group

P

*Due April 2011*

Only available in print

Reprinted from *Hydrobiologia*, Vol 659, 2011

2011. Approx. 115 p. With Reprinted from *Hydrobiologia*, Vol 659, 2011. (Developments in Hydrobiology, Volume 216) Hardcover

► **approx. \$139.00**

ISBN 978-94-007-1197-6

R. W. Sussman, C. R. Cloninger, Washington University, St. Louis, MO, USA (Eds.)

## Origins of Cooperation and Altruism

This book is about the evolution and nature of cooperation and altruism in social-living animals, focusing especially on non-human primates and on humans. Although cooperation and altruism are often thought of as ways to attenuate competition and aggression within groups, or are related to the action of "selfish genes", there is increasing evidence that these behaviors are the result of biological mechanisms that have developed through natural selection in group-living species. This evidence leads to the conclusion that cooperative and altruistic behavior are not just by-products of competition but are rather the glue that underlies the ability for primates and humans to live in groups. The anthropological, primatological, paleontological, behavioral, neurobiological, and psychological evidence provided in this book gives a more optimistic view of human nature than the more popular, conventional view of humans being naturally and basically aggressive and warlike. Although competition and aggression are recognized as an important part of the non-human primate and human behavioral repertoire, the evidence from these fields indicates that cooperation and altruism may represent the more typical, "normal", and healthy behavioral pattern.

#### Features

► This book is about the evolution and nature of cooperation and altruism in social-living animals, focusing especially on non-human primates and on humans ► The anthropological, primatological, paleontological, behavioral, neurobiological, and psychological evidence provided in this book gives a more optimistic view of human nature than the more popular, conventional view of humans being naturally and basically aggressive and warlike  
► Provides a compact, accessible, and up-to-date account of the current scholarly advances and debates in this field of study

#### Fields of interest

Behavioural Sciences

#### Target groups

Graduate

#### Discount group

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*Due May 2011*

2011. 300 p. (Developments in Primatology: Progress and Prospects, Volume 36) Hardcover

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ISBN 978-1-4419-9519-3

**N. Walz, R. Adrian**, Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany; **J. J. Gilbert**, Dartmouth College, Hanover, USA; **M. T. Monaghan**, Institute of Freshwater Ecology and Inland Fisheries, Berlin, Germany; **G. Weithoff**, University of Potsdam, Potsdam, Germany; **H. Zimmermann-Timm**, GRADE – Goethe Graduate Academy, Goethe University Frankfurt/Main, Germany (Eds.)

## Rotifera XII

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- Focuses on rotifers but from a broad range of aspects
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#### Target groups

Research

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*Due April 2011*

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Director: Masaki Kobayashi. Starring: Kaji, Michiko (Parts 1, 2 and others. Masaki Kobayashi's mammoth humanist drama is one of the most staggering achievements of Japanese cinema. Originally filmed and released in three parts, the nine-and-a-half-hour *The Human Condition* (*Ningen no joken*), adapted from Junpei Gomikawa's six-volume novel, tells of the journey of the well-intentioned yet naive Kaji (handsome Japanese superstar Tatsuya Nakadai)

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