

### The Alga *Dunaliella*

#### Biodiversity, Physiology, Genomics and Biotechnology

Editors:

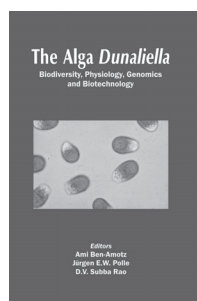
**Ami Ben-Amotz:** The National Institute of Oceanography, Haifa, Israel

**Jürgen E.W. Polle:** Brooklyn College of CUNY, Brooklyn, NY, USA

**D.V. Subba Rao:** Bedford Institute of Oceanography, Dartmouth, NS, Canada

This volume presents a state-of-the art research in biochemistry, molecular biology and medical application. A glossary of specialized terms is appended. Each chapter is contributed by an expert or group of experts dedicated to increasing our understanding of *Dunaliella*.

The book provides a balanced multi-disciplinary communication and contributes to our understanding of this unique alga. It is addressed to graduate students and scientists as a summary of current thoughts on *Dunaliella*.



978-1-57808-545-3; April 2009; ca.550 pages, hc; US \$ 139.00/ £ 91.00/ € 113.30

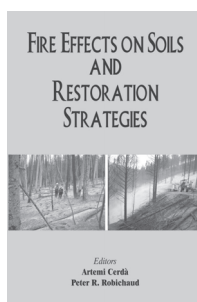
### Fire Effects on Soils and Restoration Strategies

Editors:

**Artemi Cerdà:** University of Valencia, Valencia, Spain

**Peter R. Robichaud:** USDA-Forest Service, Rocky Mt. Research Station, Moscow, ID, USA

In this book, the collected expertise of over 50 international scientists provides a global view of fire effects on soil and potential mitigation of those effects for use by scientists, policy-makers, land managers, and students. Recent post-fire rehabilitation and restoration efforts are presented in regional examples from North and South America, Europe, and Australia.



978-1-57808-526-2; April 2009; ca.500 pages, hc; US \$ 129.50/ £ 85.00/ € 105.50

### Fish Locomotion: An Eco-ethological Perspective

Editors:

**Paolo Domenici:** CNR-IAMC, Toregrade (UR), Italy

**B.G. Kapoor:** Formerly Professor of Zoology, Jodhpur University, India

Fish accomplish most of their basic behaviors by swimming. Swimming is fundamental in a vast majority of fish species for avoiding predation, feeding, finding food, mating, migrating and finding optimal physical environments. Fish exhibit a wide variety of swimming patterns and behaviors.

This treatise looks at fish swimming from the behavioral and ecological perspectives rather than from the more traditional biomechanics, ecomorphology and physiological perspectives used in studies of fish swimming. It is aimed at students and researchers interested in fish swimming from any organismal background, be it biomechanics, ecomorphology, physiology, behavior or ecology.

978-1-57808-448-7; June 2009; ca.550 pages, hc; US \$ 139.00/ £ 91.00/ € 113.30

### Fish Defenses

#### Volume 2: Pathogens, Parasites and Predators

Editors:

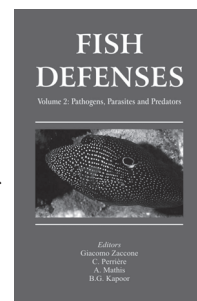
**Giacomo Zaccone:** Department of Animal Biology and Marine Ecology, Messina University, Italy

**C. Perrière:** Laboratoire de Biologie Animale, Insectes et Toxins, Faculté de Pharmacie, Chatenay-Malabry Cedex, France

**A. Mathis:** Department of Biology, Southwest Missouri State University, Springfield, Missouri, USA

**B.G. Kapoor:** Formerly Professor of Zoology, Jodhpur University, India

Dramatic changes in the environment, including habitat degradation and climate change, have focused attention on how individuals and populations respond to a shifting biotic and abiotic landscape. A critical step toward meeting this goal is a clear understanding of the capacity of individuals to defend themselves against threats. Changes in water quality and temperature have direct and indirect effects on fishes. Defensive responses can occur at many levels, from cellular to behavioral actions. The authors in this volume have attempted to provide a general view of the current state of knowledge of fish defenses with respect to pathogens, parasites, and predators, and to point out gaps where further study is needed.



978-1-57808-407-4; June 2009; ca.420 pages, hc; US \$ 129.50/ £ 73.00/ € 105.50

## The Biology of Blennies

Editors:

**Robert A. Patzner:** Department Organismic Biology, University of Salzburg, Salzburg, Austria

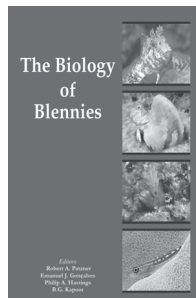
**Emanuel J. Gonçalves:** Eco-Ethology Research Unit, Instituto Superior de Psicologia Aplicada, Lisboa, Portugal

**Philip A. Hastings:** Scripps Institution of Oceanography, University of California San Diego, La Jolla, California, USA

**B.G. Kapoor:** Formerly Professor of Zoology, Jodhpur University, India

Blennies are diverse group of bony fishes found around the globe. Most blennies are small and somewhat difficult to identify, so until recently these fish did not occupy the interests of many ichthyologists and even fewer ecologists. With nearly 900 species, blennies are important members of most coastal marine communities.

This book should stimulate interest in blennies among a wider array of students, and marine biologists in general.



978-1-57808-439-5; April 2009; ca.500 pages, hc;  
US \$ 139.50/ £ 78.00/ € 113.70

## Reproduction of Amphibians

**Maria Ogielska:** Zoological Institute, University of Wroclaw, Poland

This book deals with reproduction of Amphibians belonging to three extant orders: Caecilians, Salamanders, and Frogs and Toads. Separate chapters have been written for males and females; the chapters describe gonad structure and development, gametogenesis, urogenital connections, and reproductive tracts.

The authors have provided a synthesis of the literature data and results of their own studies. The text is illustrated with original schemes and photographs and focuses on anatomy, histology, cytology, and molecular mechanisms that regulate gametogenesis and reproductive cycles.

The book will interest all reproductive biologists and biologists working on amphibians.

978-1-57808-307-7; May 2009; ca.310 pages, hc;  
US \$ 125.00/ £ 70.00/ € 101.90

## Airway Chemoreceptors in the Vertebrates Structure, Evolution and Function

Editors:

**Giacomo Zaccone:** Messina University, Messina, Italy

**Ernest Cutz:** University of Toronto, Toronto, Canada

**Dirk Adriaensen:** University of Antwerp, Antwerp, Belgium

**Colin A. Nurse:** McMaster University, Hamilton, Canada

**Angela Mauceri:** Messina University, Messina, Italy

The book provides a comprehensive and up-to-date account of the information available on the morphological, physiological and evolutionary aspects of specialized cells distributed within the epithelia of the airways in the vertebrates.

978-1-57808-614-6; June 2009; ca.450 pages, hc;  
US \$ 135.00/ £ 76.00/ € 110.00

## Seed Conditioning; Vol. 1: Management A Practical Advanced-level Guide

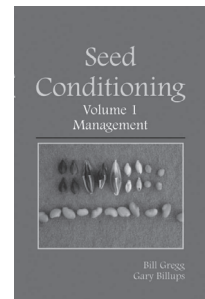
**Bill R. Gregg:** Seed Industry Development & Conditioning Specialist, Starkville, MS, USA

**Gary L. Billups:** Seed Conditioning Specialist & President Crippen International, Inc., Anna, TX, USA

Conditioning is a major component of the capital investment. Conditioning is the most significant process in the seed industry. It involves machines, engineering, operations, biology, physics, plant physiology and pathology, science, and business. It must be accurate, economic and practical.

*Seed Conditioning* is in three volumes: [1] *Management*, essential aspects of organizing and managing a seed conditioning operation; [2] *Technology*, the equipment and processes used in seed conditioning; [3] *Crop Seed Conditioning*, available information on experiences on conditioning different crop seed.

Basic topics are covered, plus “secrets of the trade” that are important for all seed industry participants need to know so they can fit their contributions into the entire seed supply program.



978-1-57808-572-9; May 2009; ca.510 pages, hc;  
US \$ 145.00/ £ 81.00/ € 118.20

## Physiology of the Pea Crop

**Nathalie Munier-Jolain, Véronique Biarnès, Isabelle Chaillet, Jérémie Lecoeur, Marie-Hélène Jeuffroy**

With the collaboration of: **Benoît Carrouée, Yves Crozat, Lydie Guillioni, Isabelle Lejeune, Bernard Tivoli**

The book presents vegetative and reproductive development, growth under non-limiting conditions and the nitrogen nutrition of the pea crop. Secondly, the effects of abiotic and biotic stresses on the development, the growth and the nitrogen uptake by the plant are studied. Finally, a global model of functioning of the pea crop is proposed as a tool for the diagnosis of the yield limiting factors.

This review, rich in bibliographic references, is intended for researchers, academics, breeders, extension specialists.

978-1-57808-570-5; June 2009; ca.310 pages, hc;  
US \$ 99.50/ £ 56.00/ € 81.10

## Economic Analysis of Diversity in Modern Wheat

Editors:

**Erika C.H. Meng:** International Maize and Wheat Improvement Center, (CIMMYT), El Batán, Texcoco, Mexico

**John P. Brennan:** NSW Department of Primary Industries, Wagga Wagga, New South Wales, Australia

The book describes generally how policies affect wheat genetic diversity; it looks at historical changes in wheat genetic diversity, as policy and priorities have evolved; it identifies factors that explain changes and differences in spatial diversity; and finally, it analyzes the productivity impacts of changes in diversity. Chapters define various types of crop genetic diversity and ways to measure them, framing the definitions and metrics in the contexts for which they are most relevant.

978-1-57808-575-0; April 2009; ca.220 pages, hc;  
US \$ 95.00/ £ 62.00/ € 77.40

## Isolation, Identification and Characterization of Allelochemicals/Natural Products

Diego A. Sampietro, Cesar A.N. Catalan and Marta A. Vattuone (eds.);  
Universidad Nacional de Tucumán, Argentina

This book has been written to provide information about all aspects of Allelochemicals/Natural Products. The book is divided in 3 sections — Sample Collection, Handling and Storage; Isolation, Identification and Structural Elucidation and Biological Activity of Natural Products. This book will serve as ready reference in the laboratory or class room to undergraduate and graduate students and Organic Chemists for Isolation, Identification and Characterization of Allelochemicals/Natural Products. The editors have tried to provide appropriate solutions to the problems of Isolation, Identification and Characterization of Allelochemicals/Natural Products. The users of this book can select suitable methods, according to the available facilities.

978-1-57808-577-4; June 2009; ca.560 pages, hc;  
US \$ 139.00/ £ 91.00/ € 113.30

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## Volume 1, Progress in Mycological Research Fungi from Different Environments

Editors: *J.K. Misra* and *S.K. Deshmukh*

This volume aims to bring together what we know about the fungi from different environments. It comprises 14 chapters written by experts in their chosen area of specialization and covers fungi from various environments such as air, water (freshwater and marine), palaeo-environment, and their influence on the environment and their management.

978-1-57808-578-1; June 2009; ca.400 pages, hc;  
US \$ 109.00/ £ 71.00/ € 88.80

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