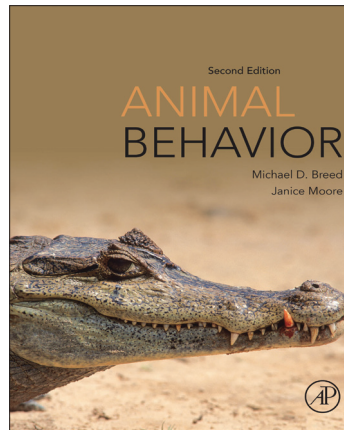
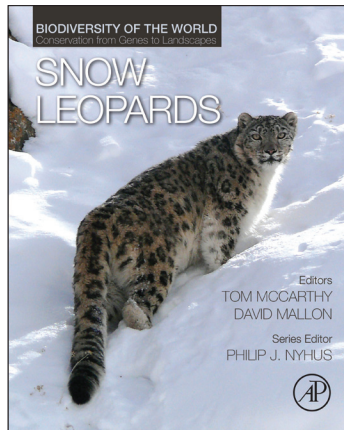
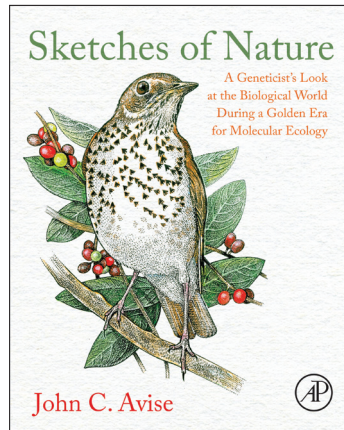
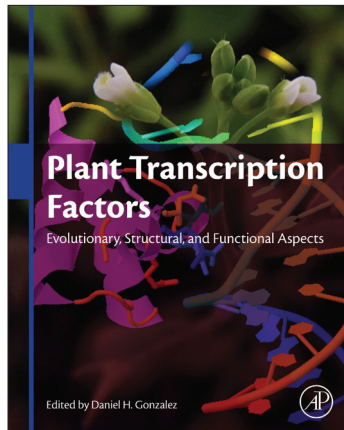




ANIMAL & PLANT SCIENCE



2016 CATALOG



Empowering Knowledge™

Elsevier Science and Technology Books deliver targeted content that enables the understanding and application of research. Year after year readers use our books to drive advancements in their fields.

Tools and content on ScienceDirect offer:

- **Full-text version online or download and print** with no digital rights management restrictions (DRM)
- **Multi-user/concurrent access** at any time from any location to expand the reach of the content to your patrons
- **Portable** content available on computers, tablets and smartphones to give users information in the format that best suits their needs
- **Integrated book and journal content** for easier access to related materials
- **Free MARC records** to drive discoverability and usage



Our foundational content—including **Reference Modules**, unique resources that are **trustworthy, current, discoverable, and hosted on ScienceDirect**—complements original research in journal articles.

Our **Legacy Collection** on ScienceDirect, in 20 subject areas, ensures that **valuable historical content** is **discoverable and searchable**, saving time and resources.



Table of Contents

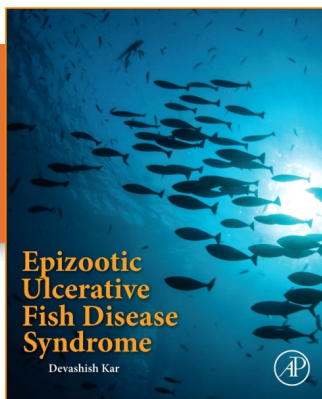
Stay Connected

Stay connected with Elsevier on Facebook, Twitter, YouTube and LinkedIn. These sites are full of news, resources, offers and discussions. Communicate with us and other librarians, researchers, and professionals in your field. View all at store.elsevier.com/stayconnected

Pricing

Publication dates, prices, and other details subject to change without notice.

Biology.....	2
Botany.....	8
Entomology.....	12
Marine.....	14
Professional & Career Development.....	18
Zoology.....	23
Serials.....	30
Titles Index.....	43
Sales Representatives Index.....	46
Elsevier Books Customer Service Contacts.....	50
Imprints.....	52



Epizootic Ulcerative Fish Disease Syndrome

Devashish Kar



ISBN: 978-0-12-802504-8

PUB DATE: September 2015

FORMAT: Paperback

PAGES: c. 294

AUDIENCE

fish farmers, aquaculturists, and fish and fishery scientists; research scholars and students in Fishery Science and Aquaculture, Zoology, and Life Science; and administrators and policy makers

Epizootic Ulcerative Fish Disease Syndrome

Devashish Kar Professor, Department of Life Science and Bioinformatics, and Dean, School of Life Sciences, Assam University, Silchar, India



Provides a detailed account of epizootic ulcerative syndrome to improve disease management and research in aquaculture and fisheries

KEY FEATURES

- Examines different manifestations of the disease, and includes different methodologies of studies, such as histopathological, histochemical, bacteriological, mycological, virological, and enzymological
- Provides background information describing fish as a significant food source and avocation, the diversity of fishes in the globe, and the panorama of diseases fish can be exposed to
- Describes all major species affected by EUS and its pattern of spread, along with suggested strategies for control and prevention

DESCRIPTION

Epizootic Ulcerative Fish Disease Syndrome covers both the background and current information on the EUS disease relevant to fisheries and aquaculture delivered in a systematic and succinct way.

The book is an essential resource for the aquaculture and fisheries researcher interested in finding solutions to the spread of the disease across the globe and students in relevant programs, including an in-depth description and analysis of the disease, as well as the structure and composition of the virus, while offering prevention and control methodologies.

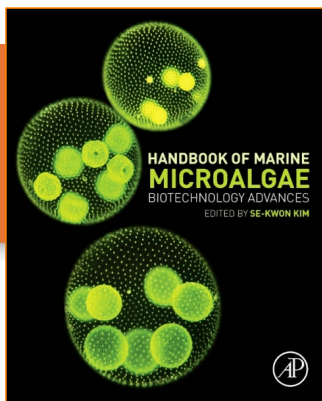
Clinical veterinarians, aquaculture disease practitioners, farmers, and those who are interested in aquatic virology will find this book to be a useful guide on the topic.

**LIFE SCIENCES
BIOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-800776-1

PUB DATE: July 2015

FORMAT: Hardback

PAGES: c. 586

AUDIENCE

Researchers in biology, marine biology, aquatic biology, aquaculture, biotechnology, food and nutrition, environmental science, and agricultural engineering.

Handbook of Marine Microalgae

Biotechnology Advances

Edited by: **Se-Kwon Kim** Department of Chemistry and Marine Bioprocess Research Center, Pukyong National University, Busan, South Korea



Complete coverage of microalgae from biology to biotechnology

"Every chapter includes a wealth of valuable citations, and the book serves as an authoritative reference that will be of use to anyone working with microalgae."--**Aquaculture Magazine,**

Handbook of Marine Microalgae

KEY FEATURES

- Focuses on a comprehensive approach from an organism point of view
- Contains full coverage of all aspects of microalgae from biology through biotechnological and biomedical applications
- Includes biological properties of commercial algal species
- Provides microalgae screening and identification methods, culturing methods and new aspects of processing

DESCRIPTION

Handbook of Microalgae: Biotechnology Advances offers complete coverage of marine microalgae, including biology, production techniques, biotechnological applications, economic perspectives of applications, and environmental effects of marine microalgae blooms. With contributions from world experts, *Handbook of Microalgae: Biotechnology Advances* focuses on microalgae from an organism perspective to offer a complete picture from evolution to biofuel.

LIFE SCIENCES
BIOLOGY

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Biology and Evolution of the Mexican Cavefish

Edited by
Alex C. Keene
Masato Yoshizawa
Suzanne E. McGaugh



ISBN: 978-0-12-802148-4

PUB DATE: October 2015

FORMAT: Hardback

PAGES: c. 398

AUDIENCE

Senior students to researchers in the general biology field including Evolutionary Biology, Ecology, Developmental Biology, and Neuroscience as well as Fish Biology and Physiology; aquatic biology and evolution courses, and specialized courses in cave biology.

Biology and Evolution of the Mexican Cavefish

Alex Keene Department of Biology, Florida Atlantic University, Boca Raton, FL, USA

Masato Yoshizawa Department of Biology, University of Hawai'i at Mānoa, Honolulu, HI, USA

Suzanne McGaugh Department of Ecology, Evolution, and Behavior, University of Minnesota, St. Paul, MN USA



The only comprehensive work to examine use of the Mexican cavefish as a powerful model system to help further our understanding of basic biological processes

KEY FEATURES

- Includes a mixture of images and illustrations such as the geographical distribution of cave pools and the developmental biology of the nervous system
- Features a companion site with geographical maps
- Fills a notable gap in the literature on a topic of broad interest to the scientific community
- Presents the recent sequencing of the cavefish genome as a groundbreaking development for researchers working with diverse biological systems

DESCRIPTION

Biology and Evolution of the Mexican Cavefish features contributions by leading researchers in a comprehensive, unique work that examines a number of distinct areas of biology—evolution, development, ecology, and behavior—using the Mexican cavefish as a powerful model system to further understanding of basic biological processes such as eye degeneration, hearing, craniofacial development, sleep, and metabolic function.

These fish are currently being used to better understand a number of issues related to human health, including age-related blindness, sleep, obesity, mood-related disorders, and aging. The recent sequencing of the cavefish genome broadens the interest of this system to groups working with diverse biological systems, and has helped researchers identify genes that regulate sleep, eye degeneration, and metabolic function.

Mexican cavefish are particularly powerful for the study of biological processes because these fish evolved independently in twenty-nine caves in the Sierra de el Abra Region of Northeast Mexico. These fish have dramatic adaptations to the cave environment, and this can be used to identify genes involved in disease-related traits.

This scholarly text will be of interest to researchers and students throughout diverse areas of biology and ecology. It includes photographs of animals and behavior in laboratory and natural settings that will also increase interest and accessibility to non-experts.

**LIFE SCIENCES
BIOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

Sketches of Nature

A Geneticist's Look
at the Biological World
During a Golden Era
for Molecular Ecology



John C. Avise



ISBN: 978-0-12-801945-0

PUB DATE: September 2015

FORMAT: Hardback

PAGES: c. 268

AUDIENCE

Biologists, geneticists, evolutionary biologists, molecular biologists, developmental biologists, and researchers as well as students and academics in these areas and professional scientists in many subfields of biology, such as science-history, medicine, paleontology, ethology, anthropology, psychology, philosophy, and sociology

Sketches of Nature

A Geneticist's Look at the Biological World During a Golden Era of Molecular Ecology

John C. Avise Department of Ecology and Evolutionary Biology, University of California at Irvine, CA, USA



This book provides the only illustrated work encapsulating the research and discoveries of a world-leading scientist who has studied a diverse panorama of creatures ranging from corals, sponges, and other invertebrates, to a wide variety of vertebrate animals.

KEY FEATURES

- Encapsulates salient genetic findings on a diverse array of creatures in nature
- Recounts the history of technological and conceptual developments in ecological genetics
- Includes approximately 80 beautiful line drawings of the animals themselves
- Provides context by preceding each abstract with an anecdote or historical backdrop
- Concludes each abstract with an addendum that further contextualizes the research findings
- Written by a world-leading authority in molecular ecology and evolution

DESCRIPTION

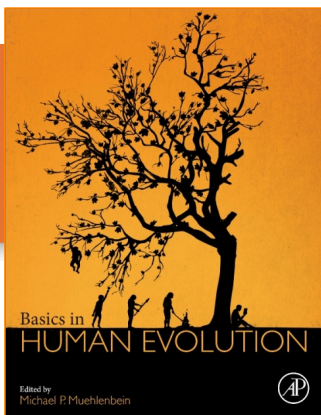
This visually appealing book recounts the history of molecular ecology and evolution as seen through the personal lens of one of its most prolific practitioners, who has studied a panorama of creatures ranging from corals, sponges, and other invertebrates to a wide variety of vertebrate animals including numerous birds, mammals, herps, and fishes. The sketches are of two types: evocative drawings of the animals themselves, and more than 230 written abstracts summarizing the author's eclectic research on ecological-genetic topics spanning the microevolutionary to macroevolutionary. With the abstracts arranged by organismal group and placed in chronological order, the chapters in this book lead readers on a fascinating historical journey into the realm of molecular genetics as applied across the past four decades to intriguing questions in ecology, evolution, animal behavior, and natural history.

**LIFE SCIENCES
BIOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-802652-6

PUB DATE: July 2015

FORMAT: Hardback

PAGES: c. 568

AUDIENCE

advanced students and professional scientists or academics in many subfields of biology, such as medicine, paleontology, ethology, anthropology, psychology, philosophy, and sociology, and those studying across interdisciplinary fields in biology, genetics, evolutionary biology, anthropology, and developmental biology

Basics in Human Evolution

Edited by: **Michael P Muehlenbein** Department of Anthropology University of Texas at San Antonio San Antonio, TX USA



This book offers comprehensive coverage of human biology from an evolutionary perspective, and is an ideal resource for a nonexpert audience who is looking for accessible and convenient content across this interdisciplinary field.

KEY FEATURES

- Offers comprehensive coverage of the wide ranging field of human evolution
- Written for a non-expert audience, providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field
- Provides expertise from leading minds in the field
- Allows the reader the ability to gain exposure to various topics in one publication

DESCRIPTION

Basics in Human Evolution offers a broad view of evolutionary biology and medicine. The book is written for a non-expert audience, providing accessible and convenient content that will appeal to numerous readers across the interdisciplinary field.

From evolutionary theory, to the cultural evolution, this book fills gaps in the readers' knowledge from various backgrounds and introduces readers to thought leaders in human evolution research.

**LIFE SCIENCES
BIOLOGY**

Please contact your Elsevier Sales or Customer Service Representative

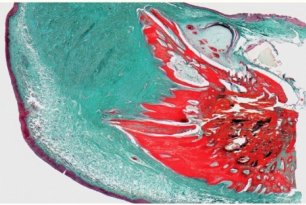


*Prices are subject to change without notice. All Rights Reserved.

BONES AND CARTILAGE

Developmental and Evolutionary Skeletal Biology

— Second Edition —



Brian K. Hall



ISBN: 978-0-12-416678-3

PREVIOUS EDITION ISBN:

978-0-12-319060-4

PUB DATE: January 2015

FORMAT: Hardback

PAGES: c. 896

AUDIENCE

Biologists, medical researchers, evolutionary biologists, paleontologists, skeletal biologists, and endocrinologists as well as graduate students and clinicians in all of these areas

Bones and Cartilage, 2e

Developmental and Evolutionary Skeletal Biology

Brian K. Hall Department of Biology, Dalhousie University, Halifax NS
Canada



The only comprehensive resource covering how bones and cartilage are made and have evolved

KEY FEATURES

- Offers complete coverage of every aspect of bone and cartilage, with updated references and extensive illustrations
- Integrates development and evolution of the skeleton, as well a synthesis of differentiation, growth and patterning
- Treats all levels from molecular to clinical, embryos to evolution, and covers all vertebrates as well as invertebrate cartilages
- Includes new chapters on evolutionary skeletal biology that highlight normal variation and variability, and variation outside the norm (neomorphs, atavisms)
- Updates hypotheses on the origination of cartilage using new phylogenetic, cellular and genetic data
- Covers stem cells in embryos and adults, including mesenchymal stem cells and their use in genetic engineering of cartilage, and the concept of the stem cell niche

DESCRIPTION

Bones and Cartilage provides the most in-depth review and synthesis assembled on the topic, across all vertebrates. It examines the function, development and evolution of bone and cartilage as tissues, organs and skeletal systems. It describes how bone and cartilage develop in embryos and are maintained in adults, how bone is repaired when we break a leg, or regenerates when a newt grows a new limb, or a lizard a new tail.

The second edition of *Bones and Cartilage* includes the most recent knowledge of molecular, cellular, developmental and evolutionary processes, which are integrated to outline a unified discipline of developmental and evolutionary skeletal biology. Additionally, coverage includes how the molecular and cellular aspects of bones and cartilage differ in different skeletal systems and across species, along with the latest studies and hypotheses of relationships between skeletal cells and the most recent information on coupling between osteocytes and osteoclasts All chapters have been revised and updated to include the latest research.

LIFE SCIENCES
BIOLOGY

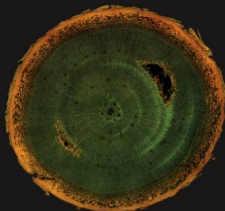
Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

SECONDARY XYLEM BIOLOGY

Origins, Functions, and Applications



Edited by Yoon Soo Kim,
Ryo Funada, and Adya P. Singh



ISBN: 978-0-12-802185-9

PUB DATE: February 2016

FORMAT: Paperback

PAGES: c. 400

AUDIENCE

Grad students, postdocs,
researchers in plant science, wood
science and forestry

Secondary audience: researchers in
biomaterials sciences.

Secondary Xylem Biology

Origins, Functions, and Applications

Yoon Soo Kim Chonnam National University, South Korea

Ryo Funada Tokyo University of Agriculture and Technology, Japan

Adya P. Singh Emeritus Scientist, Scion (New Zealand Forest Research
Institute), New Zealand



Coverage of the whole scope and breadth of secondary xylem, building on a basic comprehension of xylem structure and development before delving into other important issues such as fungal and bacterial degradation and biofuel conversion

KEY FEATURES

- Offers an in-depth understanding of biology in woody plants
- Includes topics such as abiotic stresses on secondary xylem formation, fungal degradation of cell walls, and secondary xylem for bioconversion
- Progresses from basic details of wood structure, to dynamics of wood formation, to degradation

DESCRIPTION

Secondary Xylem Biology: Origins, Functions, and Applications provides readers with many lenses from which to understand the whole scope and breadth of secondary xylem. The book builds on a basic comprehension of xylem structure and development before delving into other important issues such as fungal and bacterial degradation and biofuel conversion.

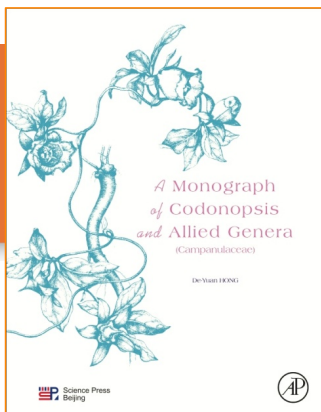
Chapters are written by recognized experts who have in-depth knowledge of their specific areas of expertise. It is a single information source containing high quality content, information, and knowledge related to the understanding of biology in woody plants and their applications.

**LIFE SCIENCES
BOTANY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-801933-7

PUB DATE: November 2015

FORMAT: Hardback

PAGES: c. 256

AUDIENCE

Graduates and researchers in plant science, including botanists, horticulturists, ecologists, and pharmacologists. This book also can be used as a reference for biodiversity managers and amateur botanists.

A Monograph of Codonopsis and Allied Genera (Campanulaceae)

Deyuan Hong Institute of Botany, Chinese Academy of Sciences, China



Provides comprehensive descriptions and classifications of *Codonopsis* and allied genera

KEY FEATURES

- Provides comprehensive descriptions and classifications of *Codonopsis* and allied genera
- Richly illustrated with line drawings and high-quality color photographs
- Delineates and clarifies the relationships of *Codonopsis* and its allied groups based on the analyses using data from external morphology, pollen morphology, chromosomes, and molecular biology

DESCRIPTION

Codonopsis and its allied genera, are a group of plants which are important in economy and horticulture. *A Monograph of Codonopsis and Allied Genera (Campanulaceae s. str.)* offers its audience comprehensive knowledge of these plants including palynology, cytology, population biology, morphological description, geographical distribution with vouchers cited, excellent ink illustrations, and color photos, and keys to genera and to species.

This excellent work will facilitate identification of relevant plants, use of plant resources, assessment of endangered states, the development of conservation strategies, and will promote systematic and evolutionary research of this group.

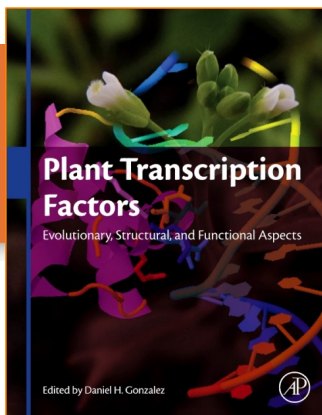
LIFE SCIENCES

BOTANY

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-800854-6

PUB DATE: September 2015

FORMAT: Hardback

PAGES: c. 422

AUDIENCE

Researchers, students and postdocs studying plant biology, cell biology, and genetics.

Plant Transcription Factors

Evolutionary, Structural and Functional Aspects

Edited by: **Daniel H Gonzalez** Molecular and Cellular Biology Section, FBCB, Universidad Nacional del Litoral, Santa Fe, Argentina



A one-stop resource that compiles plant transcription factor families and their complex roles in plant biology

KEY FEATURES

- Provides an entry point for transcription factor literature
- Offers compilation of information into one single resource for rapid consultation on different plant transcription factor features
- Integrates the knowledge about different transcription factors, along with cross-referencing
- Provides information on the unique aspects surrounding plant transcription factors

DESCRIPTION

Plant Transcription Factors: Evolutionary, Structural and Functional Aspects is the only publication that provides a comprehensive compilation of plant transcription factor families and their complex roles in plant biology.

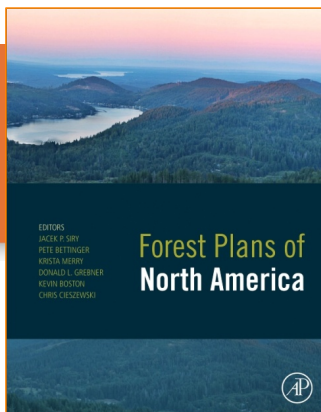
While the majority of information about transcription factors is based on mammalian systems, this publication discusses plant transcription factors, including the important aspects and unifying themes to understanding transcription factors and the important roles of particular families in specific processes.

**LIFE SCIENCES
BOTANY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-799936-4

PUB DATE: March 2015

FORMAT: Hardback

PAGES: c. 458

AUDIENCE

Students, practitioners, policy makers, and those interested in learning about the current state and status of forest planning efforts in North America. Additionally, forest management, environmental management, forest planning, and even introductory forestry courses could use the example cases from the work.

Forest Plans of North America

Edited by: **Jacek Siry** Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA; **Pete Bettinger** Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA, USA; **Krista Merry** Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA; **Donald L. Grebner** Department of Forestry, Mississippi State University, USA; **Kevin Boston** Department of Forest Engineering, Resources and Management, Oregon State University, Corvallis, OR; **Chris Cieszewski** Warnell School of Forestry and Natural Resources, University of Georgia, Athens, GA



The only work presenting case studies of forest management plans written by the experts who have developed them

KEY FEATURES

- Presents 40-50 case studies of forest plans developed for a wide variety of organizations, groups, and landowners in North America
- Illustrates plans that have specifically been developed by landowners and land managers
- Features engaging, clearly written content that is accessible rather than highly technical, while demonstrating the issues and methods involved in the development of the plans
- Each chapter contains color photographs, maps, and figures

DESCRIPTION

Forest Plans of North America presents case studies of contemporary forest management plans developed for forests owned by federal, state, county, and municipal governments, communities, families, individuals, industry, investment organizations, conservation organizations, and others in the United States, Canada, and Mexico. The book provides excellent real-life examples of contemporary forest planning processes, the various methods used, and the diversity of objectives and constraints faced by forest owners.

Chapters are written by those who have developed the plans, with each contribution following a unified format and allowing a common, clear presentation of the material, along with consistent treatment of various aspects of the plans. This work complements other books published by members of the same editorial team (*Forest Management and Planning*, *Introduction to Forestry and Natural Resource Management*), which describe the planning process and the various methods one might use to develop a plan, but in general do not, as this work does, illustrate what has specifically been developed by landowners and land managers. This is an in-depth compilation of case studies on the development of forest management plans by the different landowner groups in North America.

The book offers students, practitioners, policy makers, and the general public an opportunity to greatly improve their appreciation of forest management and, more importantly, foster an understanding of why our forests today are what they are and what forces and tools may shape their tomorrow. *Forest Plans of North America* provides a solid supplement to those texts that are used as learning tools for forest management courses. In addition, the work functions as a reference for the types of processes used and issues addressed in the early 21st century for managing land resources.

**LIFE SCIENCES
BOTANY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Concise Illustrated Dictionary of Biocontrol Terms

VLADIMIR V. GOULI, SVETLANA Y. GOULI,
AND JOSE A.P. MARCELINO



ISBN: 978-0-12-804403-2

PUB DATE: December 2015

FORMAT: Paperback

PAGES: c. 176

AUDIENCE

The scientific community working in integrated pest management disciplines, researchers with interest in protecting natural resources at a global, local and individual level, insect pathologists, biological control and integrated pest management specialists and practitioners in agriculture and plant/crop protection, public health and urban entomologists, undergraduate and graduate students and their instructors in the above areas.

Concise Illustrated Dictionary of Biocontrol Terms

Vladimir V. Gouli Department of Plant and Soil Science, University of Vermont College of Agriculture and Life Sciences, Burlington, VT, USA

Svetlana Y. Gouli Department of Plant and Soil Science, University of Vermont College of Agriculture and Life Sciences, Burlington, VT, USA

Jose A.P. Marcelino CE3C, Department of Biology, University of the Azores, Ponta Delgada, Azores, Portugal



A portable, illustrated dictionary and guide for use in laboratory and field pest management protocols

KEY FEATURES

- Enables understanding of the terminology used in biological control for professionals, researchers and students in a variety of scientific fields
- Features clear images and photographs to help identify insects and pathogens
- Ideal for in situ use in both the lab and field pest management protocols

DESCRIPTION

The *Concise Illustrated Dictionary of Biocontrol Terms* includes basic terminology related to the biological control of pests, together with state-of-the-art scientific and practical terms, for expedient comprehension and analysis of present, forecasted or *in situ* pest management problems. In addition, it also provides the names of the most common pesticides and predators commercially available in different continents (Americas, Europe, Asia, Australia, Africa), as well as target pests and diseases of these agents, making it a tangible tool for prompt management actions. The dictionary is copiously illustrated with original pictures clarifying the most commonly used terms and the identity of organisms in biocontrol technology, with content that is both scientifically rigorous and clear.

The biological control of pests using living organisms, or products from their activities, is an independent branch of science based on multiple disciplines including general biology, zoology, entomology, phytopathology, microbiology and others. As a result, the field of biological control has its own specific terminology that needs to be understood and applied correctly across this variety of disciplines, including among those approaching the field from a different area of expertise and who may have difficulty understanding the terms used by experts in the field.

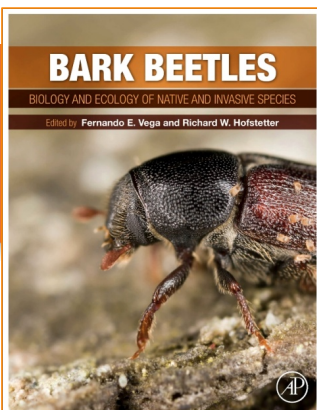
This compact illustrated guide will appeal to the scientific community working in integrated pest management disciplines, as well as those researching, studying, and working with interest in protecting natural resources at a global, local, and individual level, in a variety of locations including the lab, garden, field, or forest.

**LIFE SCIENCES
ENTOMOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-417156-5

PUB DATE: January 2015

FORMAT: Hardback

PAGES: c. 620

AUDIENCE

Scientists, faculty members, forest managers, and students in the fields of entomology, ecology, forestry, evolutionary biology, and mycology.

Secondary: As a text for courses in entomology and forestry, and a reference in entomology, ecology, invasive species, landscape ecology, and climate change courses

Bark Beetles

Biology and Ecology of Native and Invasive Species

Edited by: **Fernando E. Vega** Sustainable Perennial Crops Laboratory, United States Department of Agriculture, Agricultural Research Service, Beltsville, MD

Richard W. Hofstetter School of Forestry, Northern Arizona University, Flagstaff, AZ, USA



An up-to-date, authoritative reference on all aspects of bark beetles, including their important economic role in agriculture

KEY FEATURES

- Provides the only synthesis of the literature on bark beetles
- Features chapters exclusively devoted to some of the most economically important bark beetle genera, such as *Dendroctonus*, *Ips*, *Tomicus*, *Hypothenemus*, and *Scolytus*
- Includes copious color illustrations and photographs that further enhance the content

DESCRIPTION

Bark Beetles: Biology and Ecology of Native and Invasive Species provides a thorough discussion of these economically important pests of coniferous and broadleaf trees and their importance in agriculture. It is the first book in the market solely dedicated to this important group of insects, and contains 15 chapters on natural history and ecology, morphology, taxonomy and phylogenetics, evolution and diversity, population dynamics, resistance, symbiotic associations, natural enemies, climate change, management strategies, economics, and politics, with some chapters exclusively devoted to some of the most economically important bark beetle genera, including *Dendroctonus*, *Ips*, *Tomicus*, *Hypothenemus*, and *Scolytus*.

This text is ideal for entomology and forestry courses, and is aimed at scientists, faculty members, forest managers, practitioners of biological control of insect pests, mycologists interested in bark beetle-fungal associations, and students in the disciplines of entomology, ecology, and forestry.

**LIFE SCIENCES
ENTOMOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



The Anatomy of Dolphins

Insights into Body Structure and Function

Bruno Cozzi Department of Comparative Biomedicine and Food Science, University of Padova, Padova, Italy

Stefan Huggenberger Department of Anatomy II, University of Cologne, Cologne, Germany

Helmut A Oelschläger Institute of Anatomy III (Dr. Senckenbergische Anatomie), Johann Wolfgang Goethe University, Frankfurt, Germany



This book is the most comprehensive work on the anatomy of dolphins, featuring the latest expertise on macroscopic anatomy, histology, embryology, functional morphology, and evolutionary biology covers a number of delphinid species and serving as a useful complement for expanding trends in molecular biology and genetics

KEY FEATURES

- Includes high-quality illustrations, drawings, halftone artwork, photographic documentations, microphotos, and tables detailing dolphin anatomy, function, and morphology
- Facilitates education and training of students of all basic research and applied sciences dedicated to marine biology and the medical care of marine mammals
- Brings together the current knowledge and information on this topic, including those in obscure past or non-English publications, or scattered in short chapters in volumes
- Covers a number of delphinid species and serves as a useful complement for expanding trends in molecular biology and genetics

DESCRIPTION

The Anatomy of Dolphins: Insights into Body Structure and Function is a precise, detailed, fully illustrated, descriptive, and functionally oriented text on the anatomy and morphology of dolphins. It focuses on a number of delphinid species, with keynotes on important dolphin-like genera, such as the harbor porpoise. It also serves as a useful complement for expanding trends and emphases in molecular biology and genetics.

The authors share their life-long expertise on marine mammals in various disciplines. Written as a team rather than being prepared as a collection of separate contributions, the result is a uniform and comprehensive style, giving each of the different topics appropriate space. Many color figures, which use the authors' access to wide collections of unique dolphin and whale material, round out this exceptional offering to the field.

ISBN: 978-0-12-407229-9

PUB DATE: July 2016

FORMAT: Hardback

AUDIENCE

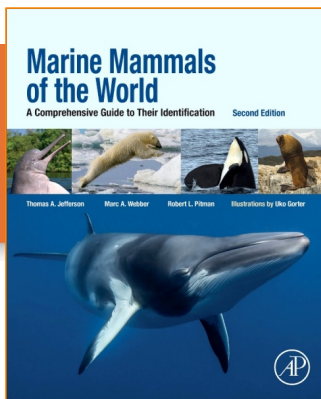
marine biologists; naturalists;
veterinarians; PhD students; bio-
acousticians; comparative
neuroscientists

**LIFE SCIENCES
MARINE**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-409542-7

PREVIOUS EDITION ISBN:
9780123838537

PUB DATE: September 2015

FORMAT: Paperback

PAGES: c. 596

AUDIENCE

Marine biologists and ecologists, comparative biologists and physiologists, conservation biologists, and upper UG/grad/postdoc students in these areas.

Marine Mammals of the World, 2e ***A Comprehensive Guide to Their Identification***

Thomas A. Jefferson Clymene Enterprises, Lakeside, CA, USA

Marc A. Webber Golden Gate Cetacean Research, Corte Madera, CA USA

Robert Pitman NOAA Fisheries, Southwest Fisheries Science Center, La Jolla, CA USA



The only comprehensive resource for marine mammal identification

KEY FEATURES

- Contains superb photographs of every species of marine mammal for accurate identification
- Authors possess nearly 80 years of collective experience with almost all of the species and distinctive geographic forms described in the guide
- Provides the most detailed and anatomically accurate illustrations currently available, including more than 750 new illustrations
- Special emphasis is placed on the identification of species in "problem groups," such as the beaked whales, long-beaked oceanic dolphins, and southern fur seals
- Includes a detailed list of sources for more information
- Contains updated taxonomy including four new species

DESCRIPTION

This new edition of *Marine Mammals of the World* describes and illustrates newly discovered and rarely photographed species, making it the most comprehensive and up-to-date identification guide available.

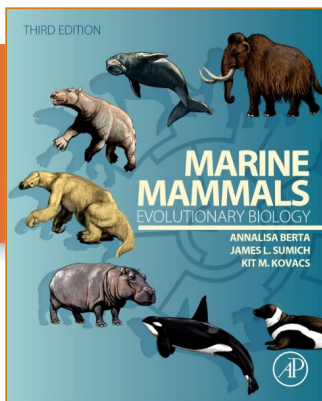
This edition continues to meet the research-focused needs of marine biologists and conservation biologists by providing a tremendous influx of new photos, taking advantage of advances in digital and auto-focusing photography, and the emergence of marine mammal studies and "whalewatching" around the world. The book encompasses cetacean, pinniped, and sirenian species, as well as extinct species, and describes basic biology and taxonomic groupings of marine mammals.

LIFE SCIENCES
MARINE

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-397002-2

PREVIOUS EDITION ISBN:

978-0-12-088552-7

PUB DATE: June 2015

FORMAT: Hardback

PAGES: c. 726

AUDIENCE

Vertebrate zoologists,
mammalogists, marine biologists,
and those interested in the natural
history, evolution, systematics, and
behavior of marine mammals.

Researchers, faculty, graduate
students and advanced
undergraduates interested in
mammals, marine biology, and
many related disciplines

Marine Mammals, 3e *Evolutionary Biology*

Annalisa Berta San Diego State University, California, U.S.A.

James L. Sumich Department of Fisheries and Wildlife, Oregon State University,
Corvallis, OR, USA

Kit M. Kovacs Biodiversity Research Section Leader, Norwegian Polar Institute,
Tromsø, Norway, Professor of Biology, The University Centre in Svalbard (UNIS),
Svalbard, Norway



The must-have reference on marine mammals

"We should thank the authors for the great effort they have made to gather all the diverse information available and to present it in a highly comprehensive book, and one that can only be recommended to all readers interested in this challenging field."--M. S. Fischer, Jena, in *JOURNAL OF ZOOLOGICAL SYSTEMATICS AND EVOLUTIONARY RESEARCH*

"...deals with the evolution of marine mammals in detail, and the remainder of the book is a good, solid guide to their complex biology. That said, *Marine mammals: evolutionary biology* will certainly be popular with students, because it is clearly and concisely written, and intelligently illustrated."--in *CAMBRIDGE UNIVERSITY PRESS*

"...the book does represent a good reference source that I will certainly use myself, and it will serve those who teach these themes extremely well. Berta et al. deserve to be congratulated for this comprehensive tome - it is a thorough, precise and clearly written reference that will serve admirably those interested in the evolution of marine mammals."--Corey J.A. Bradshaw, School for Environmental Research, Charles Darwin University, in *POLAR RESEARCH*

KEY FEATURES

- Comprehensive, up-to-date coverage of the biology of all marine mammals
- Provides a phylogenetic framework that integrates phylogeny with behavior and ecology
- Features chapter summaries, further readings, an appendix, glossary and an extensive bibliography
- Exciting new color photographs and additional distribution maps

DESCRIPTION

Marine Mammals: Evolutionary Biology, Third Edition is a succinct, yet comprehensive text devoted to the systematics, evolution, morphology, ecology, physiology, and behavior of marine mammals.

Earlier editions of this valuable work are considered required reading for all marine biologists concerned with marine mammals, and this text continues that tradition of excellence with updated citations and an expansion of nearly every chapter that includes full color photographs and distribution maps.

**LIFE SCIENCES
MARINE**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-801402-8

PUB DATE: January 2015

FORMAT: Hardback

PAGES: c. 448

AUDIENCE

scientists studying sea otters,
researchers across marine biology,
marine ecology and marine
conservation.

Sea Otter Conservation

Edited by: **Shawn E. Larson** Seattle Aquarium, Seattle, WA, USA
James L. Bodkin Alaska Science Center, USGS, Anchorage, AK, USA
Glenn R. VanBlaricom Washington Cooperative Fish and Wildlife Research Unit, USGS, and School of Aquatic and Fishery Sciences, University of Washington, Seattle, WA, USA



An overview of the status and preservation of sea otter populations

KEY FEATURES

- Covers scientific, cultural, economic and political components of sea otter conservation
- Provides guidance on how to manage threats to the sea otter populations in the face of future global changes
- Highlights the effects that interactions of coastal animals have with the marine ecosystem

DESCRIPTION

Sea otters are good indicators of ocean health. In addition, they are a keystone species, offering a stabilizing effect on ecosystem, controlling sea urchin populations that would otherwise inflict damage to kelp forest ecosystems. The kelp forest ecosystem is crucial for marine organisms and contains coastal erosion. With the concerns about the imperiled status of sea otter populations in California, Aleutian Archipelago and coastal areas of Russia and Japan, the last several years have shown growth of interest culturally and politically in the status and preservation of sea otter populations.

Sea Otter Conservation brings together the vast knowledge of well-respected leaders in the field, offering insight into the more than 100 years of conservation and research that have resulted in recovery from near extinction. This publication assesses the issues influencing prospects for continued conservation and recovery of the sea otter populations and provides insight into how to handle future global changes.

**LIFE SCIENCES
MARINE**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Oral Communication Skills for Scientific Presentations

William B. Krantz President's Teaching Scholar and Professor Emeritus, University of Colorado, Boulder, CO, USA; Rieveschl Ohio Eminent Scholar and Professor Emeritus, University of Cincinnati, Cincinnati, OH, USA



A practical, compact guidebook covering the 'nuts and bolts' of effective public speaking

KEY FEATURES

- Discusses best practices in putting together an effective talk
- Focuses on leveraging the speaker's existing skill sets to develop the delivery style that works best for that individual
- Features one-page quick reference guides for giving formal oral and informal poster presentations
- Addresses cross-cultural communication as well as particular concerns for non-native English speakers
- Includes a companion site with tools and video examples of formal and informal presentations for further self-guidance

DESCRIPTION

Oral Communication Skills for Scientific Presentations is intended for inexperienced speakers as well as those aspiring to improve their communication skills in making either formal or informal presentations on a technical subject. A complement to having good organization for a technical presentation is to have an effective delivery style. This book provides a template for organizing a technical talk that will include a discussion of various ways to effectively develop each part of a technical presentation.

A special feature of *Oral Communication Skills for Scientific Presentations* is the focus on making presentations to a cross-cultural audience. This relates to relatively minor considerations such as how to list the names of the co-authors on your presentation as well as to more substantive considerations such as how to handle eye contact and use humor, both of which can differ across the global spectrum of cultures. The cross-cultural focus of this book relates not only to the audience, but also to the speaker. This book also includes helpful tips for non-native English speakers.

ISBN: 978-0-12-805418-5

PUB DATE: April 2016

FORMAT: Paperback

PAGES: c. 160

AUDIENCE

Students and researchers across the sciences interested in improving their oral communication skills; in particular non-native English speakers

LIFE SCIENCES

PROFESSIONAL AND CAREER DEVELOPMENT

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Graduate Research, 4e

A Guide for Students in the Sciences

Robert V. Smith Collaborative Brain Trust University Consulting (CBT UC),
Sacramento, CA, USA

Llewellyn D. Densmore Department of Biological Sciences, Texas Tech
University, Lubbock, TX, USA

Edward F. Lener University Libraries, Virginia Tech, Blacksburg, VA, USA



This newly revised go-to resource is for graduate researchers at all stages of study and covers a range of topics including writing and preparation of research proposals, developing and refining teaching skills, and ethics and compliance areas such as research involving human subjects and animals

KEY FEATURES

- Discusses a broad range of topics including time management, library and literature work, and grant support
- Includes a new chapter on career planning and development with advice on careers in academia, government, and the private sector
- Contains chapters that promote the development of a varied set of communication skills
- Greatly expanded treatment of graduate study and research in international settings

DESCRIPTION

Graduate Research is an all-in-one resource for prospective and matriculated graduate students in the sciences. The newly revised edition includes updates to every chapter. *Graduate Research* covers a range of topics including writing and preparation of research proposals, developing and refining teaching skills, and ethics and compliance areas such as research involving human subjects and animals.

Graduate Research helps readers navigate the multidimensional and interdisciplinary world of scientific research and it is an invaluable resource for graduate researchers as well as those in advising or mentoring roles.

ISBN: 978-0-12-803749-2

PREVIOUS EDITION ISBN:
9780295977058

PUB DATE: February 2016

FORMAT: Paperback

PAGES: c. 288

AUDIENCE

Graduate student, graduate
advisors, and mentors across the
Sciences

LIFE SCIENCES

PROFESSIONAL AND CAREER DEVELOPMENT

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

ORAL EXAMS

PREPARING FOR AND PASSING CANDIDACY,
QUALIFYING, AND GRADUATE DEFENSES



A. LEE FOOTE



ISBN: 978-0-12-802578-9

PUB DATE: September 2015

FORMAT: Paperback

PAGES: c. 192

AUDIENCE

Graduate students, postdoctoral fellows and faculty in every discipline

Oral Exams

Preparing For and Passing Candidacy, Qualifying, and Graduate Defenses

Lee A Foote Professor and Director, Devonian Botanic Garden, University of Alberta, Edmonton, AB, Canada



This book provides students with a great resource to help them prepare for oral comprehensive and viva voce exams, and is also valuable for faculty as they prepare new questions.

KEY FEATURES

- Describes in detail the general format of oral comprehensive exams, viva voce examinations and defenses, what to expect, and what the requirements are that students need to fulfill to pass.
- Includes appendices with numerous practice questions sourced from a range of disciplines and countries for individual or group learning
- Useful for Early Career academics that are supervising, supporting, and examining PhD students

DESCRIPTION

Oral Exams: Preparing For and Passing Candidacy, Qualifying, and Graduate Defenses provides guidance on how to prepare for oral comprehensive and viva voce exams.

Topics discussed include the supervisory committee, preparing the seminar, arranging content, mental preparation, question framing, and the types of questions to expect.

At its core, the book prepares students to be the best they can be by offering insights into how to interpret and appropriately respond to explicit and implied oral comps questions.

This book benefits faculty by helping them prepare new questions, also providing tips on how to mentor their students in preparation for exams.

The training included can be used to prepare for intensive qualifying or certification exams, job interviews, and presentations.

LIFE SCIENCES

PROFESSIONAL AND CAREER DEVELOPMENT

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

COMMUNICATE SCIENCE
PAPERS, PRESENTATIONS,
AND POSTERS EFFECTIVELY



GREGORY S. PATIENCE
DARIA C. BOFFITO
PAUL A. PATIENCE



ISBN: 978-0-12-801500-1

PUB DATE: August 2015

FORMAT: Paperback

PAGES: c. 264

AUDIENCE

Graduate students, research fellows, post-docs, professors, scientists and researchers in STEM fields.

Communicate Science Papers, Presentations, and Posters Effectively

Gregory S. Patience Department of Chemical Engineering, Ecole Polytechnique de Montreal, Canada

Daria C. Boffito Department of Chemical Engineering, Ecole Polytechnique de Montreal, Canada

Paul Patience Ecole Polytechnique de Montreal, Canada



The tools readers need to become better writers, presenters, and communicators

KEY FEATURES

- Covers how to accurately and clearly exhibit results, ideas, and conclusions
- Identifies phrases common in scientific literature that should never be used
- Discusses the theory of presentation, including “before and after” examples highlighting best practices
- Provides concrete, step-by-step examples on how to make camera ready graphs and tables

DESCRIPTION

Communicate Science Papers, Presentations, and Posters Effectively is a guidebook on science writing and communication that professors, students, and professionals in the STEM fields can use in a practical way. This book advocates a clear and concise writing and presenting style, enabling users to concentrate on content.

The text is useful to both native and non-native English speakers, identifying best practices for preparing graphs and tables, and offering practical guidance for writing equations. It includes content on significant figures and error bars, and provides the reader with extensive practice material consisting of both exercises and solutions.

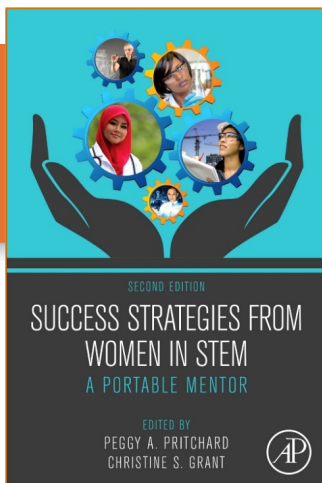
LIFE SCIENCES

PROFESSIONAL AND CAREER DEVELOPMENT

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-397181-4

PREVIOUS EDITION ISBN:
978-0-12-088411-7

PUB DATE: June 2015

FORMAT: Paperback

PAGES: c. 460

AUDIENCE

Women pursuing careers or involved in careers in science, technology, engineering and mathematics

Success Strategies From Women in STEM, 2e *A Portable Mentor*

Edited by: **Peggy A. Pritchard** Associate Librarian, Learning and Curriculum Support Team, University of Guelph, Guelph, ON, Canada
Christine Grant PhD, Full Professor of Chemical and Biomolecular Engineering and Associate Dean of Faculty Advancement, North Carolina State University, College of Engineering, Raleigh, NC, USA



A comprehensive and accessible manual that provides valuable strategies, tools, and success tips for women pursuing and involved in STEM careers

"...we need women to fully participate in this industry...morally and ethically, it's simply the right thing to do. This book will undoubtedly help."--**Network Security, *Success Strategies from Women in STEM, Second Edition***

KEY FEATURES

- Preserves the style and tone of the first edition by bringing together mentors, trainees and early-career professionals in a series of conversations about important topics related to careers in STEM fields, such as leadership, time stress, negotiation, networking, social media and more
- Identifies strategies that can improve career success along with stories that elucidate, engage, and inspire
- Companion website provides authoritative information from successful women engaged in STEM careers, including annotated links to key organizations, associations, granting agencies, teaching support materials, and more

DESCRIPTION

Success Strategies from Women in Stem: A Portable Mentor, Second Edition, is a comprehensive and accessible manual containing career advice, mentoring support, and professional development strategies for female scientists in the STEM fields.

This updated text contains new and essential chapters on leadership and negotiation, important coverage of career management, networking, social media, communication skills, and more. The work is accompanied by a companion website that contains annotated links, a list of print and electronic resources, self-directed learning objects, frequently asked questions, and more.

With an increased focus on international relevance, this comprehensive text contains shared stories and vignettes that will help women pursuing or involved in STEM careers develop the necessary professional and personal skills to overcome obstacles to advancement.

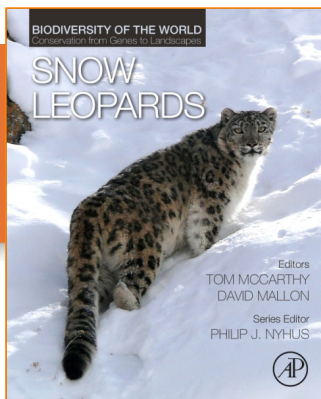
LIFE SCIENCES

PROFESSIONAL AND CAREER DEVELOPMENT

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-802213-9

PUB DATE: June 2016

FORMAT: Hardback

PAGES: c. 584

AUDIENCE

snow leopard and large carnivore conservationists and researchers, academics and graduate students in the fields of wildlife conservation, captive breeding, habitat management and conservation biology, worldwide, and decision makers in governments within snow leopard range states which include Afghanistan, Bhutan, China, India, Kazakhstan, Kyrgyzstan, Mongolia, Nepal, Pakistan, Russia, Tajikistan and Uzbekistan

Snow Leopards

Biodiversity of the World: Conservation from Genes to Landscapes

Edited by: **Philip J. Nyhus** Environmental Studies Program, Colby College, Waterville, ME, USA
Tom McCarthy Executive Director, Snow Leopard Program, PANTHERA, Redmond, WA USA
David Mallon Division of Biology and Conservation Ecology, School of Science and the Environment, Manchester Metropolitan University, Manchester, UK



As part of a new series, *Biodiversity of the World: Conservation from Genes to Landscapes*, which includes titles focused on specific species or taxa across disciplinary boundaries and spatial scales, this book presents the latest information on the elusive snow leopard, including its biology, behavior, and ongoing efforts for conservation

A Volume in the Biodiversity of the World: Conservation from Genes to Landscapes Series.

KEY FEATURES

- Serves as the first and only comprehensive book on the biology, behavior, and conservation status of the snow leopard
- Brings together the most current scientific knowledge, documents the most pressing conservation issues, and shares success stories in alleviating the broad threats that now jeopardize the long-term survival of this species
- Brings current knowledge of the species, not only to researchers and conservationists, but also to decision makers, academics, and students
- Edited by recognized snow leopard experts, with more than 50 years of collective experience in research and conservation of the species

DESCRIPTION

Snow Leopards: Biodiversity of the World: Conservation from Genes to Landscapes is the only comprehensive work on the biology, behavior, and conservation status of the snow leopard, a species that has long been one of the least studied, and hence poorly understood, of the large cats.

Breakthroughs in technologies and methodologies to study this elusive cat have come rapidly, including non-invasive genetics, camera traps, and GPS-satellite collaring. The book begins with chapters on the genetic standing and taxonomy of the snow leopard, followed by chapters on their behavior and ecology. Additional contributions follow on the current and emerging threats to the species, which include longstanding concerns, such as poaching and conflicts with livestock, and new and emerging threats such as mining and climate change.

A section on conservation solutions, backed by valuable case studies, starts with an overview of the important role mountain communities play in assuring the snow leopard's long-term persistence. In addition, chapters on the role of captive snow leopards for the conservation of the species, state-of-the-art techniques and technologies for studying and monitoring snow leopards, status reports from around the region, and future perspectives, such as transboundary conservation initiatives, international conventions (CITES, CMS, etc.), the role of the IUCN Cat Specialist Group and the Snow Leopard Network, and undertakings such as the Global Snow Leopard Forum facilitated by the World Bank are also included.

**LIFE SCIENCES
ZOOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

ECOTOXICOLOGY ESSENTIALS

Environmental Contaminants
and Their Biological Effects
on Animals and Plants



DONALD W. SPARLING



ISBN: 978-0-12-801947-4

PUB DATE: June 2016

FORMAT: Paperback

PAGES: c. 408

AUDIENCE

Upper level undergraduate and graduate students taking a course in ecotoxicology or wildlife toxicology, from Biology, Zoology, Natural Resource, Wildlife Biology, Environmental Science, Public Health, Geology, Chemistry, or Agriculture Departments; academics and students in wildlife-related study and veterinary schools; researchers and professionals in regulatory agencies looking for a foundational reference on the subject in these areas and evolutionary, conservation, behavioral and ecological biology and ecology; wildlife management; agriculture and natural resources management including those obtaining certification from professional societies in these areas.

Ecotoxicology Essentials

Environmental Contaminants and Their Biological Effects on Animals and Plants

Donald W. Sparling Cooperative Wildlife Research Laboratory and
Department of Zoology, Southern Illinois University, Carbondale, IL, USA
Greg Linder



As a thorough guide to the study of environmental contaminants and their effect on the planet's ecology, this book provides a comprehensive analysis of their impact on microbes, plants and animals, and entire ecosystems, also citing ways that humans can be affected through serious illnesses and even death

KEY FEATURES

- Uses examples from both aquatic and terrestrial environments and species
- Includes datasets with worked examples of environmental risk assessments at the individual, population, and community levels
- Focuses on the effects of contaminants on wildlife while containing enough chemistry to allow a detailed understanding of the contaminant groups
- Emphasizes natural examples and 'real' species, rather than laboratory studies on only a handful of organisms
- Features case histories that include aspects of how the contamination occurred and its effects on wildlife
- Written in a friendly, approachable style with a minimum amount of technical jargon

DESCRIPTION

Ecotoxicology Essentials: Environmental Contaminants and Their Biological Effects on Animals and Plants provides a comprehensive analysis of environmental contaminants and the ways they affect all aspects of the planet's ecology, from microbes, to plants and animals and entire ecosystems. Humans are not immune from the effects of these contaminants and exposure can inflict serious illnesses and even death.

This book is the latest contribution to our understanding of how contaminants move through the environment and the effects that they can produce at all levels. In these pages, the authors cover a broad range of topics, including the major types of contaminants, how they move through the environment, and how organisms, including humans, are exposed and affected.

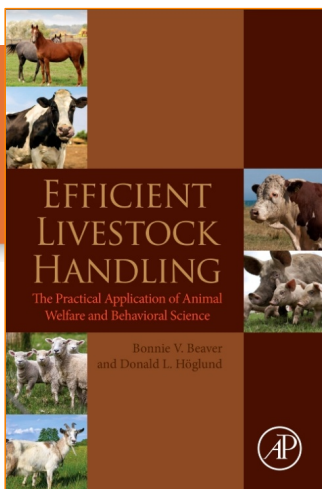
Much emphasis is placed on specific mechanisms of injury to organisms, populations, and communities. The text is clearly written and geared to students who have had some chemistry, ecology, and physiology. Numerous pictures and graphs help clarify topics and stimulate interest in the subject matter.

**LIFE SCIENCES
ZOOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-418670-5

PUB DATE: October 2015

FORMAT: Paperback

PAGES: c. 214

AUDIENCE

Professors, practitioners, researchers and advanced students in animal behavior, ethology, applied animal behavior, and behavioral biology, psychology and ecology; veterinarians working in mixed or large animal practice; veterinary students with an interest in learning techniques of humane handling; secondarily for students enrolled in elective courses in large animal handling in veterinary, vet technician, and animal science programs; and livestock producers

Efficient Livestock Handling

The Practical Application of Animal Welfare and Behavioral Science

Bonnie V. Beaver Professor, Department of Small Animal Clinical Sciences, Texas A&M University, College Station, TX, USA

Don Höglund Dairy Stockmanship Company. Teaches Dairy Stockmanship for Virginia Polytech and State University, Department of Dairy Science, Blacksburg, VA USA



This book brings together animal behavior and animal welfare research to demonstrate how knowledge of the former can promote the latter, and includes discussions on cattle and horses, swine, sheep, and goats.

KEY FEATURES

- Incorporates a clear, approachable style for researchers and practitioners alike, facilitating understanding of the techniques described
- Features supplementary video content on a companion site, providing practical demonstration of the topics discussed in the work and a useful tool for learning the concepts presented
- Includes extensive references, increasing the book's utility for serious researchers as well as those who want to implement better handling practices

DESCRIPTION

Efficient Livestock Handling: The Practical Application of Animal Welfare and Behavioral Science brings together the science-based disciplines of animal behavior and welfare to discuss how knowledge of one area (behavior) can be used to promote the other. Emphasis is on cattle and horses, but swine, sheep, and goats are also covered.

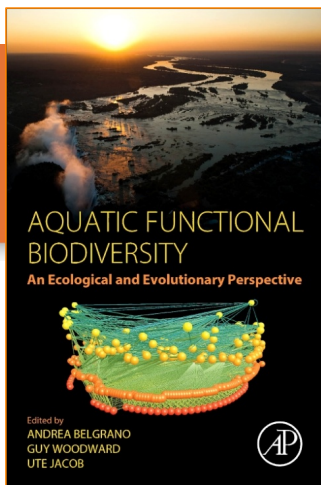
Three major areas are included and integrated into a practical approach to working with the various species. Basic behavior as it applies to handling is discussed, with differences noted between species. The connections of behavior and handling are covered, and practical applications discussed, both with a liberal use of pictures and videos to bring the concepts to life.

**LIFE SCIENCES
ZOOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-417015-5

PUB DATE: October 2015

FORMAT: Paperback

PAGES: c. 290

AUDIENCE

Graduate students, academics and researchers in theoretical and applied ecology; conservation ecology and biology; evolutionary biology; marine and aquatic biology; food web structures; and ecosystem management science.

Aquatic Functional Biodiversity *An Ecological and Evolutionary Perspective*

Edited by: **Andrea Belgrano** Department of Aquatic Resources, Institute of Marine Research, Swedish University of Agricultural Sciences, Lysekil, Sweden; and Swedish Institute for the Marine Environment (SIME), Gothenburg, Sweden
Guy Woodward Department of Life Sciences, Imperial College London, UK
Ute Jacob Institute for Hydrobiology and Fisheries Science, University of Hamburg, Germany



The only resource that addresses current challenges in aquatic biodiversity research with an eco-evolutionary perspective

KEY FEATURES

- Defines common theoretical grounds in terms of terminology and conceptual issues
- Connects theory and practice in ecology and eco-evolutionary sciences
- Provides examples for successful biodiversity conservation and ecosystem service management

DESCRIPTION

Aquatic Functional Biodiversity: An Ecological and Evolutionary Perspective provides a general conceptual framework by some of the most prominent investigators in the field for how to link eco-evolutionary approaches with functional diversity to understand and conserve the provisioning of ecosystem services in aquatic systems. Rather than producing another methodological book, the editors and authors primarily concentrate on defining common grounds, connecting conceptual frameworks and providing examples by a more detailed discussion of a few empirical studies and projects, which illustrate key ideas and an outline of potential future directions and challenges that are expected in this interdisciplinary research field.

Recent years have seen an explosion of interest in using network approaches to disentangle the relationship between biodiversity, community structure and functioning. Novel methods for model construction are being developed constantly, and modern methods allow for the inclusion of almost any type of explanatory variable that can be correlated either with biodiversity or ecosystem functioning. As a result these models have been widely used in ecology, conservation and eco-evolutionary biology. Nevertheless, there remains a considerable gap on how well these approaches are feasible to understand the mechanisms on how biodiversity constrains the provisioning of ecosystem services.

LIFE SCIENCES
ZOOLOGY

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

Animal Vigilance

Monitoring Predators
and Competitors



Guy Beauchamp



ISBN: 978-0-12-801983-2

PUB DATE: July 2015

FORMAT: Paperback

PAGES: c. 260

AUDIENCE

advanced undergraduates and graduate students in animal behavior, biology and behavioral ecology, and faculty and researchers interested in vigilance

Animal Vigilance

Monitoring Predators and Competitors

Guy Beauchamp



The only comprehensive review of animal vigilance, authored by a top expert in the field

KEY FEATURES

- Tackles vigilance from all angles, theoretical and empirical, while including the broadest range of species to underscore unifying themes
- Discusses several newer developments in the area, such as vigilance copying and effect of food density
- Highlights recent challenges to assumptions of traditional models of vigilance, such as the assumption that vigilance is independent among group members, which is reviewed during discussion of synchronization and coordination of vigilance in a group
- Written by a top expert in animal vigilance

DESCRIPTION

Animal Vigilance builds on the author's previous publication with Academic Press (*Social Predation: How Group Living Benefits Predators and Prey*) by developing several other themes including the development and mechanisms underlying vigilance, as well as developing more fully the evolution and function of vigilance.

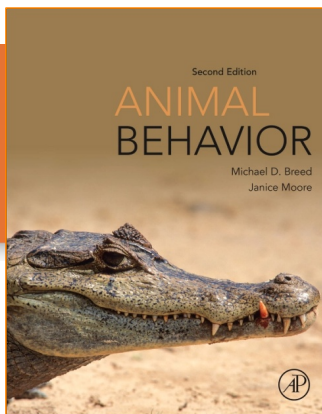
Animal vigilance has been at the forefront of research on animal behavior for many years, but no comprehensive review of this topic has existed. Students of animal behavior have focused on many aspects of animal vigilance, from models of its adaptive value to empirical research in the laboratory and in the field. The vast literature on vigilance is widely dispersed with often little contact between models and empirical work and between researchers focusing on different taxa such as birds and mammals. *Animal Vigilance* fills this gap in the available material.

LIFE SCIENCES
ZOOLOGY

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-801532-2

PREVIOUS EDITION ISBN:

978-0-12-372581-3

PUB DATE: July 2015

FORMAT: Paperback

PAGES: c. 538

AUDIENCE

Intermediate and advanced undergraduate students in animal behavior courses

Animal Behavior, 2e

Michael D. Breed Department of Ecology and Evolutionary Biology,
University of Colorado, Boulder, CO, USA

Janice Moore Biology Department, Colorado State University, Fort Collins,
CO, USA



Authors who combine almost 60 years of experience, cover the broad sweep of animal behavior from its neurological basis to the importance of behavior in conservation

KEY FEATURES

- Provides a rich resource for students and professors from a wide range of life science disciplines
- Updated and revised chapters, with at least 50% new case studies and the addition of contemporary in-text examples
- Expanded and updated coverage of animal welfare topics
- Includes behavior and homeostatic mechanisms, behavior and conservation, and behavioral aspects of disease
- Available lab manual with fully developed and tested laboratory exercises
- Companion website includes newly developed slide sets/templates (PowerPoints) coordinated with the book

DESCRIPTION

Animal Behavior, Second Edition, covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation. The authors, Michael Breed and Janice Moore, bring almost 60 years of combined experience as university professors to this textbook, much of that teaching animal behavior.

An entire chapter is devoted to the vibrant new field of behavior and conservation, including topics such as social behavior and the relationship between parasites, pathogens, and behavior. Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior, and learning.

This text addresses the physiological foundations of behavior in a way that is both accessible and inviting, with each chapter beginning with learning objectives and ending with thought-provoking questions.

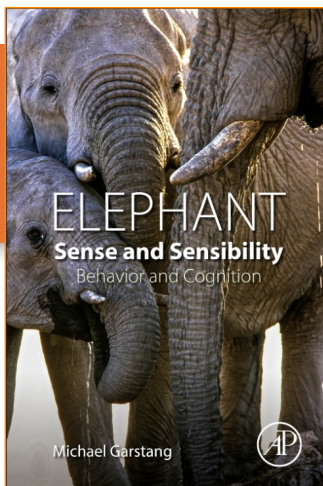
Additionally, special terms and definitions are highlighted throughout. *Animal Behavior* provides a rich resource for students (and professors) from a wide range of life science disciplines.

**LIFE SCIENCES
ZOOLOGY**

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-802217-7

PUB DATE: February 2015

FORMAT: Paperback

PAGES: c. 138

AUDIENCE

scientists and students in the disciplines of animal behavior, behavioral ecology, neuroscience, ethology and conservation biology, and a global audience of wildlife conservation and management professionals interested in and working with elephants

Elephant Sense and Sensibility

Michael Garstang Department of Environmental Sciences, University of Virginia, Charlottesville, VA, USA



A succinct yet comprehensive overview of the mind and behavior of an elephant

KEY FEATURES

- Covers a variety of aspects that relate to behavior, ranging from brain function and sensory input to communication, learning, and intelligence
- Features a comprehensive treatment of elephant behavior supported by the extensive literature, anecdotal information, and striking photographic material, providing an overview not available in any other text
- Features an interdisciplinary approach to behavior, with vital information included and integrated from several key disciplines

DESCRIPTION

Elephant Sense and Sensibility is a comprehensive treatment of the full range of elephant behavior. Beginning with chapters on evolution and the elephant's brain, this book is an integrated presentation of the elephant's capacity for memory, morality, emotion, empathy, altruism, language, intelligence, learning and teaching. Grounded primarily in scientific research, the book also draws upon anecdotal and visual evidence showing elephants thinking, acting, feeling and behaving in ways that we, as humans, recognize. This complete treatment of elephant behavior supported by the extensive literature, along with anecdotal and photographic material, provides an overview not available in any other text.

LIFE SCIENCES

ZOOLOGY

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-803289-3

PUB DATE: June 2016

FORMAT: Hardback

PAGES: c. 270

AUDIENCE

Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

Advances in Botanical Research, Vol 79

Artificial Photosynthesis

Edited by: **Robert Bruno** CEA Saclay, Gif-sur-Yvette, France



This comprehensive work on artificial photosynthesis features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology

KEY FEATURES

- Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences
- Presents the latest information on artificial photosynthesis
- Features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology

DESCRIPTION

Artificial Photosynthesis, the latest edition in the *Advances in Botanical Research* series, which publishes in-depth and up-to-date reviews on a wide range of topics in the plant sciences features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Advances in Insect Physiology, Vol 50

Pine Bark Beetles

Edited by: **Claus Tittiger** Department of Biochemistry and Molecular Biology, Howard Medical Sciences, University of Nevada, Reno, NV, USA

Gary J. Blomquist Department of Biochemistry and Molecular Biology, University of Nevada, Reno, NV, USA



This essential reference source for invertebrate physiologists, neurobiologists, entomologists, zoologists, and insect chemists provides an interdisciplinary review of the latest available data and research relating to insect physiology, with a comprehensive review of pine bark beetles highlighting this latest release.

KEY FEATURES

- Contains important, comprehensive, and in-depth reviews on insect physiology
- Provides an essential reference source for invertebrate physiologists and neurobiologists, entomologists, zoologists, and insect biochemists
- First published in 1963, this serial is ranked second in the highly competitive ISI category of entomology

DESCRIPTION

Pine Bark Beetles, the latest release in the *Advances in Insect Physiology* series provides readers with the latest interdisciplinary reviews on the topic. It is an essential reference source for invertebrate physiologists, neurobiologists, entomologists, zoologists, and insect chemists.

ISBN: 978-0-12-802723-3

PUB DATE: June 2016

FORMAT: Hardback

PAGES: c. 300

AUDIENCE

Entomologists, zoologists, insect biochemists, insect physiologists

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-801102-7

PUB DATE: April 2016

FORMAT: Hardback

PAGES: c. 300

AUDIENCE

Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

Advances in Botanical Research, Vol 78 *Genomes and Evolution of Charophytes, Bryophytes and Ferns*

Edited by: **Rensing Stefan** Department of Cell Biology, University of Marburg, Institute of Biology II, University of Freiburg, Germany



The 78th volume of this series features in-depth and up-to-date reviews by recognized experts on a range of topics related to the genomes and evolution of charophytes, bryophytes, lycophytes, and ferns, discussing how the sequencing of genomes of various species in both the animal and plant kingdoms has greatly informed our understanding of evolution.

KEY FEATURES

- Features reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology
- Focuses on the genomes and evolution of charophytes, bryophytes, lycophytes, and ferns
- Offers a first time compilation on non-flowering plant genomes
- Helps unravel how land plants evolved

DESCRIPTION

Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. The series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology. Volume 78 focuses on the *Genomes and Evolution of Charophytes, Bryophytes, Lycophytes, and Ferns*. Sequencing of genomes of 'lower' animals such as sponges or hydrozoans has much informed our understanding of how metazoans evolved.

On the plant side of things, sequencing and comparison of a moss and lycophyte genome with those of green algae and flowering plants has greatly informed our understanding of plant evolution. However, it has also become clear that we need to look into genomes of the closest algal relatives to land plants, the charophytes, and into further genomes of bryophytes, lycophytes, and ferns to unravel how land plants evolved.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Advances in Botanical Research, Vol 77

Nitric Oxide and Signaling in Plants

Edited by: **David Wendehenne** UMR 1347 Agroecologie, INRA, Centre de Dijon, Dijon, France



The 77th volume of this book features a wide range of reviews by recognized experts on nitric oxide and signaling in plants

KEY FEATURES

- Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences
- Contains commentary by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology

DESCRIPTION

Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 77th volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology.

ISBN: 978-0-12-801074-7

PUB DATE: March 2016

FORMAT: Hardback

PAGES: c. 290

AUDIENCE

Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

Advances in
**BOTANICAL
RESEARCH**

PLANT MICROBE INTERACTIONS



Volume 75

Edited by
HARSH BAIS AND
JANINE SHERRIER

Series Editors **JEAN-PIERRE JACQUOT**
and **PIERRE GADAL**



ISBN: 978-0-12-420116-3

PUB DATE: November 2015

FORMAT: Hardback

PAGES: c. 375

AUDIENCE

Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

Advances in Botanical Research, Vol 75

Plant Microbe Interactions

Edited by: **Harsh Bais** Delaware Biotechnology Institute, University of Delaware, Newark, DE, USA

Janine Sherrier Delaware Biotechnology Institute, University of Delaware, Newark, DE, USA



The book highlights the importance of beneficial microbes for improving agricultural practices.

KEY FEATURES

- Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences
- Contains commentary by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology
- This volume features reviews of the fast moving field of plant microbe interactions

DESCRIPTION

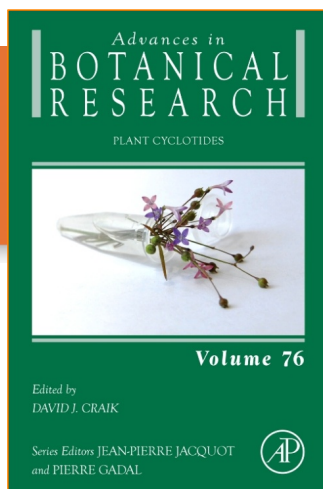
Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 75th volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Advances in Botanical Research, Vol 76

Plant Cyclotides

Edited by: **David Craik** The University of Queensland, QLD, Australia



The 76th volume of this book features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology

KEY FEATURES

- Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences
- Contains commentary by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology
- This volume features reviews of the fast moving field of plant cyclotides

DESCRIPTION

Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 76th volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology.

ISBN: 978-0-12-800030-4

PUB DATE: November 2015

FORMAT: Hardback

PAGES: c. 360

AUDIENCE

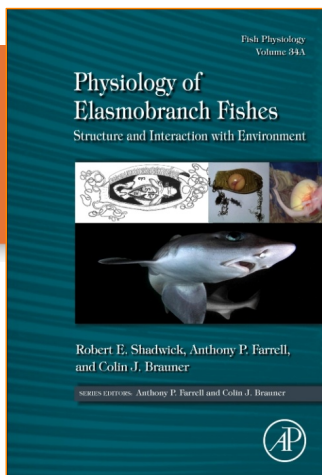
Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-801289-5

PUB DATE: November 2015

FORMAT: Hardback

PAGES: c. 394

AUDIENCE

Researchers, Students and academics in zoology, marine biology, fish physiology, comparative physiology, ecology and applied researchers in conservation biology

Physiology of Elasmobranch Fishes: Structure and Interaction with Environment

Fish Physiology

Edited by: **Robert E. Shadwick** Canada Research Chair, Department of Zoology, University of British Columbia, Vancouver B.C., Canada

Anthony P. Farrell Dept of Zoology, University of British Columbia, Vancouver, Canada

Colin J. Brauner Dept of Zoology, University of British Columbia, Vancouver, Canada



A detailed synthesis of the physiology of elasmobranchs, comparing them to other fish groups and highlighting areas of future research interest and prospective problems

A Volume in the Fish Physiology Series.

KEY FEATURES

- Provides needed comprehensive content on the physiology of elasmobranchs
- Offers a systems approach between structure and interaction with the environment and internal physiology
- Contains contributions by leading experts in their respective fields, under the guidance of internationally recognized and highly respected editors
- Highlights areas of interest for future research, including perspective on future problems

DESCRIPTION

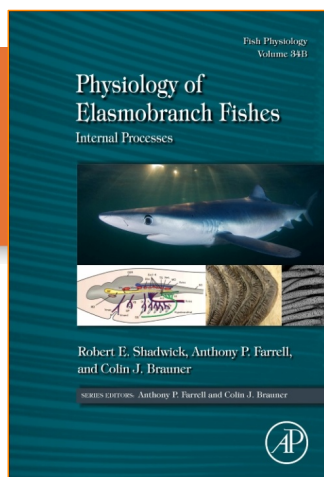
Fish Physiology: Physiology of Elasmobranch Fishes, Volume 34A is a useful reference for fish physiologists, biologists, ecologists, and conservation biologists. Following an increase in research on elasmobranchs due to the plight of sharks in today's oceans, this volume compares elasmobranchs to other groups of fish, highlights areas of interest for future research, and offers perspective on future problems. Covering measurements and lab-and-field based studies of large pelagic sharks, this volume is a natural addition to the renowned Fish Physiology series.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-801286-4

PUB DATE: November 2015

FORMAT: Hardback

PAGES: c. 552

AUDIENCE

Researchers in zoology, marine biology, fish physiology, comparative physiology, and ecology; applied researchers in conservation biology; as well as students and academics in these areas.

Physiology of Elasmobranch Fishes: Internal Processes

Fish Physiology

Edited by: **Robert E. Shadwick** Canada Research Chair, Department of Zoology, University of British Columbia, Vancouver B.C., Canada

Anthony P. Farrell Dept of Zoology, University of British Columbia, Vancouver, Canada

Colin J. Brauner Dept of Zoology, University of British Columbia, Vancouver, Canada



This useful reference offers a detailed synthesis of the physiology of elasmobranchs, comparing them to other groups of fish, highlighting areas of interest for future research, and sharing perspectives on future problems.

A Volume in the Fish Physiology Series.

KEY FEATURES

- Provides needed comprehensive content on the physiology of elasmobranchs
- Offers a systems approach between structure and interaction with the environment and internal physiology
- Contains contributions by leading experts in their respective fields, under the guidance of internationally recognized and highly respected editors
- Highlights areas of interest for future research, including perspective on future problems

DESCRIPTION

Fish Physiology: Physiology of Elasmobranch Fishes, Volume 34B is a useful reference for fish physiologists, biologists, ecologists, and conservation biologists. Following an increase in research on elasmobranchs due to the plight of sharks in today's oceans, this volume compares elasmobranchs to other groups of fish, highlights areas of interest for future research, and offers perspective on future problems. Covering measurements and lab-and-field based studies of large pelagic sharks, this volume is a natural addition to the renowned *Fish Physiology* series.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

Advances in
**INSECT
PHYSIOLOGY**



Volume 49

Edited by RUSSELL JURENKA

Series Editor RUSSELL JURENKA



ISBN: 978-0-12-802586-4

PUB DATE: August 2015

FORMAT: Hardback

PAGES: c. 178

AUDIENCE

Entomologists, zoologists, insect
biochemists, insect physiologists

Advances in Insect Physiology, Vol 49

Advances in Insect Physiology

Edited by: *Russell Jurenka* Iowa State University, Ames, USA



Provides an interdisciplinary review of the latest available data and research relating to insect physiology

KEY FEATURES

- Contains important, comprehensive, and in-depth reviews on insect physiology
- Provides an essential reference source for invertebrate physiologists and neurobiologists, entomologists, zoologists, and insect biochemists.
- First published in 1963, this serial is ranked second in the highly competitive ISI category of entomology

DESCRIPTION

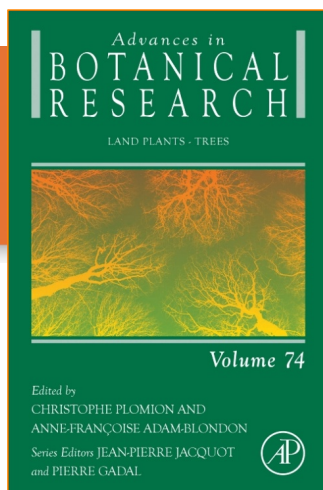
Advances in Insect Physiology provides readers with the latest interdisciplinary reviews on the topic. It is an essential reference source for invertebrate physiologists, neurobiologists, entomologists, zoologists, and insect chemists.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



ISBN: 978-0-12-398548-4

PUB DATE: June 2015

FORMAT: Hardback

PAGES: c. 352

AUDIENCE

Researchers in Plant science

Master and PHD students in plant science

Researchers in grapevine, fruit trees and forest trees extension services

Advances in Botanical Research, Vol 74

Land Plants - Trees

Edited by: **Christophe Plomion** Unit of Research in Biodiversity Genes & Communities, INRA, France

Anne-Françoise Adam-Blondon Unit of Research in Genomic-Info, INRA, France



Features a wide range of reviews updating knowledge related to plant biology for the main traits of forest and fruit trees, and the tools available for their study

KEY FEATURES

- Provides an update of the knowledge related to plant biology for the main traits for forest and fruit trees
- Provides an update about the tools available for the study of this category of plants
- Gives a general view of research results obtained in two separate research communities, fruit trees and forest trees

DESCRIPTION

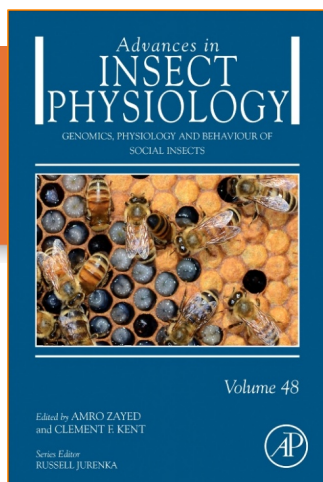
Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 74th volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology. This volume features reviews on the advances in knowledge for the main traits important in fruit trees and forest trees, the advances in tools and resources for genetics and genomics in these species, and the knowledge developed in three rather separated communities of researchers: forest, fruit trees, and grapevines.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Advances in Insect Physiology, Vol 48

Genomics, Physiology and Behaviour of Social Insects

Edited by: **Amro Zayed** York University, Ontario, Canada

Clement Kent The Janelia Farm Research Campus, Ashburn, VA, USA



This text provides comprehensive information on the social insect groups described, including new and unique reviews on emerging model social organisms.

KEY FEATURES

- Provides the latest research on the genomics, behavior and physiology of social insects
- Presents diverse and authoritative syntheses on the relationship between genomics, physiology, and the fascinating behavior of social insects
- Takes an in-depth look of the current state of social insect research and its future path

DESCRIPTION

Physiology, Behavior, Genomics of Social Insects provides comprehensive information on the social insect groups described, including new and unique reviews on emerging model social organisms.

The book's interdisciplinary approach integrates behavior, genomics, and physiology, providing readers with great insights into the present state of a rapidly expanding area of research. It also discusses areas where new research tools will bring hope to longstanding problems.

ISBN: 978-0-12-802157-6

PUB DATE: March 2015

FORMAT: Hardback

PAGES: c. 364

AUDIENCE

students and researchers in the fields of physiology, behavior, and genomics, evolutionary biologists interested in how sociality evolves, and geneticists studying complex traits.

SERIALS

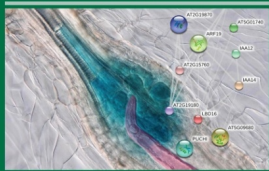
Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

Advances in BOTANICAL RESEARCH

PLANT NEMATODE INTERACTIONS:
A VIEW ON COMPATIBLE INTERRELATIONSHIPS



Volume 73

Edited by
CAROLINA ESCOBAR AND
CARMEN FENOLL

Series Editors JEAN-PIERRE JACQUOT
and PIERRE GADAL



ISBN: 978-0-12-417161-9

PUB DATE: March 2015

FORMAT: Hardback

PAGES: c. 422

AUDIENCE

Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

Advances in Botanical Research, Vol 73

Plant Nematode Interactions

Edited by: **Carolina Escobar** Department of Environmental Sciences,
Universidad de la Mancha, Spain

Carmen Fenoll Faculty of Environmental Sciences and Biochemistry,
Universidad de Castilla-la Mancha, Spain



The 73rd volume of *Advances in Botanical Research* features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology.

Praise for the Series: "A valuable addition to any college library as current reference material for advanced undergraduates, graduate students, and professional scientists." - CHOICE

KEY FEATURES

- Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences
- This volume features reviews of the fast moving field of compatible interaction between plants and sedentary endo-parasitic nematodes
- A strong focus on molecular and physiological aspects of nematode feeding site development and includes specific chapters on nematode effectors as well as plant responses

DESCRIPTION

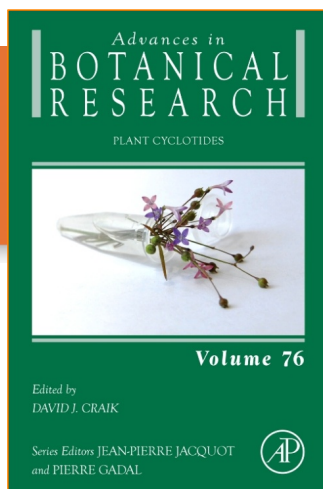
Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 73rd volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology. This thematic volume features reviews on molecular and developmental aspects of the compatible plant-nematode interaction. The contributors all actively work in the field of molecular genetics and genomics of plant parasitic nematodes and nematode feeding sites. Reviews focus on molecular and physiological aspects of nematode feeding site development and includes specific chapters on nematode effectors as well as plant responses.

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.



Advances in Botanical Research, Vol 76

Plant Cyclotides

Edited by: **David Craik** The University of Queensland, QLD, Australia



The 76th volume of this book features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology

KEY FEATURES

- Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences
- Contains commentary by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology, and ecology
- This volume features reviews of the fast moving field of plant cyclotides

DESCRIPTION

Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Currently in its 76th volume, the series features several reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology.

ISBN: 978-0-12-800030-4

PUB DATE: November 2015

FORMAT: Hardback

PAGES: c. 360

AUDIENCE

Postgraduates and researchers in plant sciences, including botany, plant biochemistry, plant physiology, plant pathology, virology, entomology, and molecular biology

SERIALS

Please contact your Elsevier Sales or Customer Service Representative



*Prices are subject to change without notice. All Rights Reserved.

Titles Index

A

Avisé	Sketches of Nature	5
-------	--------------------	---

B

Bais	Plant Microbe Interactions, Vol 75	34
Beauchamp	Animal Vigilance	27
Beaver	Efficient Livestock Handling	25
Belgrano	Aquatic Functional Biodiversity	26
Berta	Marine Mammals, 3e	16
Breed	Animal Behavior, 2e	28

C

Cozzi	The Anatomy of Dolphins	14
Craik	Plant Cyclotides, Vol 76	35

E

Escobar	Plant Nematode Interactions, Vol 73	41
---------	-------------------------------------	----

F

Foote	Oral Exams	20
-------	------------	----

G

Garstang	Elephant Sense and Sensibility	29
Gonzalez	Plant Transcription Factors	10
Gouli	Concise Illustrated Dictionary of Biocontrol Terms	12

Titles Index

H

Hall	Bones and Cartilage, 2e	7
Hong	A Monograph of Codonopsis and Allied Genera (Campanulaceae)	9

J

Jefferson	Marine Mammals of the World, 2e	15
Jurenka	Advances in Insect Physiology, Vol 49	38

K

Kar	Epizootic Ulcerative Fish Disease Syndrome	2
Keene	Biology and Evolution of the Mexican Cavefish	4
Kim	Handbook of Marine Microalgae	3
Kim	Secondary Xylem Biology	8
Krantz	Oral Communication Skills for Scientific Presentations	18

L

Larson	Sea Otter Conservation	17
--------	------------------------	----

M

Muehlenbein	Basics in Human Evolution	6
-------------	---------------------------	---

N

Nyhus	Snow Leopards	23
-------	---------------	----

P

Patience	Communicate Science Papers, Presentations, and Posters Effectively	21
Plomion	Land Plants - Trees, Vol 74	39
Pritchard	Success Strategies From Women in STEM, 2e	22

Titles Index

R

Rensing	Genomes and Evolution of Charophytes, Bryophytes and Ferns, Vol 78	32
Robert	Artificial Photosynthesis, Vol 79	30

S

Shadwick	Physiology of Elasmobranch Fishes: Structure and Interaction with Environment, Vol 34A	36
Shadwick	Physiology of Elasmobranch Fishes: Internal Processes, Vol 34B	37
Siry	Forest Plans of North America	11
Smith	Graduate Research, 4e	19
Sparling	Ecotoxicology Essentials	24

T

Tittiger	Pine Bark Beetles, Vol 50	31
----------	---------------------------	----

V

Vega	Bark Beetles	13
------	--------------	----

W

Wendehenne	Nitric Oxide and Signaling in Plants, Vol 77	33
------------	--	----

Z

Wendehenne	Nitric Oxide and Signaling in Plants, Vol 77	33
------------	--	----

Sales Representatives Index

EMEA:

(UK, IRELAND, EASTERN EUROPE, RUSSIA, SCANDINAVIA, CYPRUS, GERMANY, AUSTRIA, SWITZERLAND, SPAIN, PORTUGAL, FRANCE, BENELUX, ITALY, MALTA, GREECE & ISRAEL)

James Duckworth - Sales Director, Print & 3PP, EMEA
Mobile: + 44 (0) 7919 324982 • Fax: +44 (0) 01865 853330
Email: j.duckworth@elsevier.com

DACH, EASTERN EUROPE, SOUTHERN EUROPE & RUSSIA

Martina Morris - Regional Channel Manager
Tel: + 49 (0) 4792 950296 • Fax: + 49 (0) 4792 950297 • Mobile: + 49 (0) 174 344 2310
Email: m.morris@elsevier.com

UK WHOLESALE, RETAIL BOOKSTORES & CORPORATE

Linda Jackson - Channel Manager
Mobile: + 44 (0) 7824 626109 • Fax: + 44 (0) 1865 853330
Email: linda.jackson@elsevier.com

UK ACADEMIC, MIDDLE EAST AND SOUTH AFRICA

Paul McElroy - UK Academic and MEA Regional Channel Manager
Tel: + 44 (0) 7901 897009 • Fax: + 44 (0) 1865 853330
Email: p.mcelroy@elsevier.com

FRANCE, BENELUX & SCANDINAVIA

Christiane Leipersberger - Channel Manager
Mobile: + 49 7955 388712 • Fax: + 44 7955 388713
Email: c.leipersberger@elsevier.com

Sales Representatives Index

MEA:

(MIDDLE EAST, AFRICA & TURKEY)

James Duckworth - Sales Director, Print & 3PP, EMEA
Mobile: + 44 (0) 7919 324982 • Fax: +44 (0) 01865 853330
Email: j.duckworth@elsevier.com

UK ACADEMIC, MIDDLE EAST AND SOUTH AFRICA

Paul McElroy - UK Academic and MEA Regional Channel Manager
Tel: + 44 (0) 7901 897009 • Fax: + 44 (0) 1865 853330
Email: p.mcelroy@elsevier.com

EGYPT, NORTH AFRICA, TURKEY, CIS & LEVANT

Ahmed Samir Helmy - Channel Manager
Mobile: +20 1002050504 • Fax: +44 (0) 1865 853330
Email: a.helmy@elsevier.com

CENTRAL AFRICA

Julian Russ - Consultant Sales Agent
Tel: +44 (0)1993 886719
Email: Orders@tulapublishing.co.uk.

LATAM:

(BRAZIL, SOUTH AMÉRICA AND MÉXICO)

Elsevier Office Rua Quintana, 753 8 ° andar - São Paulo • SP • Brazil • CEP-04569-011
João Almeida, Sales Executive – Imprint Books
Mobile: + 55 11 99315 1194 • Fax: ++ 55 11 5105-8723 • Email: j.almeida@elsevier.com

ASIA:

AUSTRALIA AND NEW ZEALAND

Elsevier Australia 475 Victoria Avenue • Tower 1, Level 12 • Chatswood, NSW 2067 • Australia
Suzanne Hall - Tel: +61 2 9422 8548 • Fax: +61 2 9422 8501 • Email: suzanne.hall@elsevier.com

CHINA & HONG KONG

Reed Elsevier Information Technology (Beijing) Co. Ltd Unit 1-6, Level 7, Tower W1
Oriental Plaza, No 1, East Chang An Avenue • Dong Cheng District • Beijing 100738 • China
Liu Xiaolin - Tel: + 86 10 852 0885 3 • Fax: +8610 8518 9290 • Email: x.liu@elsevier.com

Sales Representatives Index

JAPAN

Elsevier Japan 4th Floor, 1-9-15 Higashi-Azabu • Minato-ku • Tokyo • 106-0044 Japan
Tel: +81 3 5561 1051 • Fax: +81 3 5561 0451 • Email: jp.stbooks@elsevier.com

KOREA

Elsevier Korea 4FL Chunwoo Bldg, 534 Itaewon-dong • Yongsan-gu, • Seoul 140-861 • South Korea

Lee Mahn-Jin - Tel: +82 2 6714 3138 • Fax: +82 2 725 4388 • Email: ma.lee@elsevier.com

MALAYSIA, BRUNEI & CAMBODIA

Elsevier, a division of LexisNexis Malaysia Sdn Bhd T1-L6, Jaya33 • No. 3 Jalan Semangat Seksyen 13 • 46100 Petaling Jaya, Selangor • Malaysia

Michelle Foo - Tel: +603 7882 3637 • Fax: +603 7882 3699 • Email: m.foo@elsevier.com

SOUTH ASIA

Elsevier (A Division of Reed Elsevier India Pvt Ltd) 14th Floor, Building no 10 B • DLF Cyber City, Phase II • Gurgaon, Haryana, 122002 • India

Dr. Sangeeta Mehta / Miss Shweta Sethi - Tel: +91 124 4774444 • Fax: +91 124 4774201
Email: s.mehta@elsevier.com / sh.sethi@elsevier.com

TAIWAN

Elsevier Taiwan LLC Rm. N-818, 8F • Chia Hsin Building II, No. 96 • Zhong Shan N. Road, Sec. 2 • Taipei 10449 • Taiwan

Lisa Chen - Tel: +886 2 2522 5920 • Fax: +886 2 2522 1885 • Email: l.chen@elsevier.com

THAILAND & MYANMAR

Elsevier (Singapore) Pte Ltd- Thailand Representative Office Ploenchit Center, Ground Floor (Elite office Unit 7) 2 Sukhumvit Road • Klongtoey, Bangkok 10110 • Thailand

Walika Lhaothong - Tel: +66 2305 6693 • Mobile: +66 81 806 4045 • Fax: +66 2251 3109
Email: w.lhaothong@elsevier.com

SINGAPORE, INDONESIA, VIETNAM, PHILIPPINES & LAOS

Elsevier (Singapore) Pte Ltd 3 Killiney Road, #08-01 • Winsland House 1 • Singapore 239519

Adam Goh - Tel: +65 6349 0282 • Mobile: +65 8182 7155 • Fax: +65 6733 1050 • Email: adam.goh@elsevier.com

Sales Representatives Index

ELSEVIER AGENT:

PHILIPPINES - CRW Marketing Services for Publishers, Inc.

Tony P Sagun - Tel: +632 660 5480 / +632 584 8448 • Mobile: +639209086303

Fax: +632 660 0342

Email: crwmarketing@pldtdsl.net / lwagent@pldtdsl.net

AMAZON:

Kai Wuerfl-Davidek - Channel Manager, EU

Tel: + 43 (0) 1 494 2376 • Mobile: +43 (0) 676 8232 4949

Email: k.wuerfl@elsevier.com

FOREIGN RIGHTS:

SCIENCE & TECHNOLOGY BOOKS

ForeignRightsSTBooks@Elsevier.com

Helen Tian - Team Manager/S&T Book Rights; APAC

Tel: + 86 10 8520 8829 • Email: h.tian@elsevier.com

Emma Wyatt - Account Manager/Discovery Solutions & Copyright;

Europe, Middle East & Latin America

Tel: +44 1865 844728 • Mobile: +44 747 114 2122

Email: e.wyatt@elsevier.com

Jenny Xiong - Licensing Manager, China Mainland & Taiwan

Tel: +86 10 8520 8878

Email: j.xiong@elsevier.com

Elsevier Books Customer Service

NORTH AMERICAN SALES CONTACTS:

UNITED STATES, CANADA, CARIBBEAN, AND LATIN AMERICA:

Email: USBKInfo@elsevier.com

US Customers:

Toll-Free: +1 (800) 545-2522 • Fax: +1 (800) 535-9935

Customers Outside US:

Tel: +1 (314) 447-8010 • Fax: +1 (314) 447-8030

RETAIL/WHOLESALE SALES:

Debbie Fisher – Account Manager

Email: d.fisher@elsevier.com

nabooksales@elsevier.com

CORPORATE/BULK SALES:

Mark Morin – Solutions Sales Manager

Email: m.morin@elsevier.com

ACADEMIC SALES / COLLEGES & UNIVERSITIES:

Joanna Raum – NA Academic Regional Manager

Tel: 603-418-5164 • Email: j.raum@elsevier.com

textbooks@elsevier.com

PROFESSORS/INSTRUCTORS:

Register at our instructor site

<http://textbooks.elsevier.com>,

to browse our list of cutting-edge

books at student-friendly prices,

request review copies, access

ancillaries, view selected books

electronically, and contact your

textbook representative.

Elsevier Books Customer Service

CONTACT DETAILS

Trade: +44 (0) 1865 844644 • **E-mail:** tradeorders@elsevier.com

Direct Sales: +44 (0) 1865 844640 • **E-mail:** directorders@elsevier.com

WEB

Trade Customers:

virtuale.elsevier.com

pubeasy.com

bookorders.nielsenbooknet.com

Institutional Customers:

sciencedirect.com

AUSTRALIA, NEW ZEALAND & FIJI

Email: customerserviceau@elsevier.com

Tel: Australia: 1800 263 951 (toll free) • Tel: New Zealand: 0800 170 165 (toll free)

Fax: +63 2 352 1394

SOUTH ASIA

Email: csindia@elsevier.com • Tel : +91 44 4299 4567 (Extensions: 4915 to 4918)

Fax: ++91 44 4299 4568

ASIA (*China, Japan, Korea, South East Asia, Taiwan*)

Email: asiabkinfo@elsevier.com • Tel: +65 6349 0222 • Fax: +63 2 352 1394



facebook.com/ElsevierNature



twitter.com/ElsevierNature



scitechconnect.elsevier.com

Imprints

IMPRINTS OF ELSEVIER:

Academic Press
Academic Press and AOCS Press
Butterworth-Heinemann
Chandos Publishing
Digital Press
Elsevier
Elsevier Advanced Technology
Elsevier Science
Gulf Professional Publishing
Gulf Publishing Company
JAI Press
Morgan Kaufmann
Newnes
North Holland
Pergamon
Pergamon Flexible Learning
Syngress
William Andrew
Woodhead Publishing

DISTRIBUTION AGENCY FOR:

Bentham Science Publishers
ChemTec
ISTE Press



Empowering Knowledge™

Elsevier's Legacy eBook Collection

The Legacy Collection on **ScienceDirect** provides instant, searchable online access to valuable historical book content in 20 subject areas, including Chemistry, Engineering, and Social Sciences. You can now easily access these once hard-to-find or out-of-print books digitally, saving time and resources and providing additional foundational knowledge necessary for research.

For more information about these products and other information on ScienceDirect, contact your Elsevier representative, or visit us online:

elsevier.com/sciencedirect/books/legacy



ELSEVIER

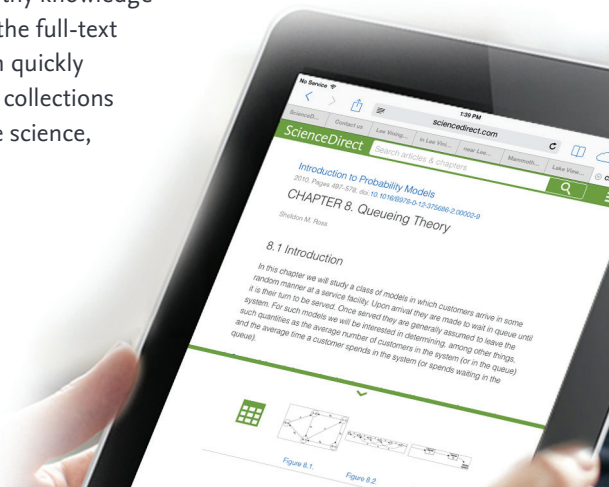
ScienceDirect

ScienceDirect 2016 eBooks Collection

Accelerate Research with eBooks on ScienceDirect

Inspire your patrons with the in-depth, trustworthy knowledge that comes from Elsevier eBooks. Delivered on the full-text ScienceDirect site, students and researchers can quickly find the information they need in 23 key subject collections published under well-known imprints within the science, technology and health sciences disciplines.

For more information talk to your
Elsevier Sales Representative today, or visit:
<http://elsevier.com/sciencedirect/books>



2016 eBook Collections:

Agricultural, Biological and Food Sciences	Immunology and Microbiology
Biochemistry, Genetics and Molecular Biology	Materials Science
Biomedical Science and Medicine	Mathematics
Chemical Engineering	Neuroscience
Chemistry	Pharmacology, Toxicology and Pharmaceutical Science
Computer Science	Physics and Astronomy
Earth and Planetary Sciences	Psychology
Energy	Social Sciences
Engineering	Specialty Medicine
Environmental Science	Health Professions
Finance	Veterinary Medicine
Forensics and Security	