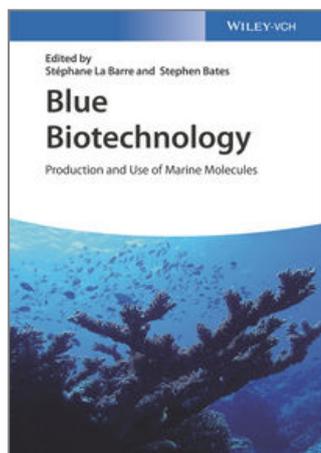


ワイリー社の海洋生物学関係新刊・近刊のご案内

海洋バイオテクノロジーの新しい展開。

持続可能な開発にとって世界中で最も重要な資源としての海洋生態系管理に関する最新の研究書。
バイオテクノロジー関係者、医薬化学者、天然物化学者、海洋生物学者にお薦めします。



ブルーバイオテクノロジー・全2巻 Blue Biotechnology

Production and Use of Marine Molecules

*edited by Stéphane La Barre, Station Biologique de Roscoff, France
and Stephen S. Bates*

2017年12月27日出版予定 896ページ ハードカバー
ISBN 978-3-527-34138-2 予価 ¥74,760

Designed as a broad overview of the field, this two-volume introductory reference covers the seven main areas of marine biotechnology, from food feed to bioenergy, pharmacology, basic research, ecotoxicology, biocorrosion, and bioinspired materials. In doing so, it ties together information usually found in widely dispersed sources for a grand unified view on the state and prospects of this multi-faceted discipline.

With its focus on the sustainable management of marine resources and protection of marine ecosystems, it defines the future thinking in the field which is moving from exploitation to management of marine resources.

The combination of breadth of topics and modern thinking make this introductory book eminently suited for teaching purposes and for orienting newcomers to the many possibilities in this booming field.

特長

- ◆ **The modern view on marine biotechnology: With its integral treatment of ecosystem and resource management, this is the only currently available overview on the field that addresses current thinking and future trends.**
- ◆ **Unmatched in scope: Traditional and well-established areas of marine biotechnology such as biomass production are covered side by side with novel ones such as biofuels, biological protection of structures and bioinspired materials.**
- ◆ **Highly suitable for teaching: All contributions have been written with the novice in mind, explaining the basics and highlighting current trends and achievements.**

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PART 1 BULK MARINE BIOMASS - INDUSTRIAL APPLICATIONS AND POTENTIAL AS PRIMARY SOURCES

Microalgae: A Renewable Source for Food and Fuels and more

Commercial-Scale Production of Microalgae for Bioproducts

Ubiquitous Phlorotannins: Prospects and Perspective

The Potential of Microalgal for Biotechnology: A Focus on Carotenoids

Applications of Algal Biomass in Global Food and Feed Markets: From Traditional Usage to the Potential for Functional Products

Phytoplankton Glycerolipids: Challenging but Promising Prospects from Biomedicine to Green Chemistry and Biofuels

Bioremediation Potential of Algae: Recycling Nitrogen, Phosphorus and other Waste Products

Cultivation and Conversion of Tropical Red Seaweed into Food and Feed Ingredients, Agricultural

PART 2: MARINE MOLECULES FOR DISEASE TREATMENT / PREVENTION AND FOR BIOLOGICAL RESEARCH

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Marennine-Like Pigments: Blue Diatom or Green Oyster Cult?

Bioprospecting and Insights into the Biosynthesis of Natural Products from Marine Microalgae

Ovothiol: A Potent Natural Antioxidant from Marine Organisms

Bioactive Marine Molecules and Derivatives with Biopharmaceutical Potential

Marine Pigment Diversity: Applications and Potential

Potential Applications of Natural Bioactive Cyanobacterial UV-Protective Compounds

Bio-Inspired Molecules Extracted from Marine Macroalgae: A New Generation of Active Ingredients for Cosmetics and Human Health

Emerging Therapeutic Potential of Marine Dinoflagellate Natural Products

How Fluorescent and Bioluminescent Proteins have Changed Modern Science

PART 3: BIOSTRUCTURES, BIOMATERIALS AND BIOMOLECULES FOR OTHER APPLICATIONS

Antimicrobial and Antibiofilm Molecules Produced by Marine Bacteria

Chitin of Poriferan Origin as a Unique Biological Material

Marine Biominerals with a Biotechnological Future.

世界の漁業と養殖業への現在および将来にわたる気候変動の影響について初めて包括的に論じます。
漁業科学者、漁業経営者、養殖関係者、海洋脊椎・無脊椎生物学者、気候変動研究者、
環境科学者、経済学者に広くお勧めいたします。

漁業および養殖業への気候変動の影響 地球規模の分析・全2巻

Climate Change Impacts on Fisheries and Aquaculture

A Global Analysis

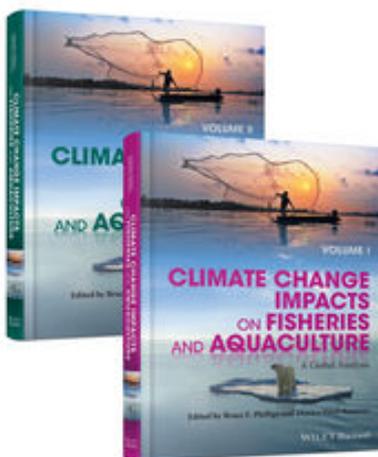
by Bruce F. Phillips and Mónica Pérez-Ramírez

2017年9月22日出版予定

1104ページ ハードカバー

ISBN 978-1-119-15404-4

予価 ¥57,150



This exciting and comprehensive book is solely concerned with the fisheries resources of the World's oceans and marine aquaculture, the impacts of climate change on these resources and possible adaptations to reduce these impacts.

A major stimulus for this book was the release in 2014 of the IPCC reports of the Fifth Assessment, which was the first reporting of the IPCC after seven years. All of the Chapters in the book provide links to the conclusions of the Fifth Assessment reports.

特長

- ◆ **Covers an array of critical topics and assesses reviews of climate change impacts on fisheries and aquaculture from many countries.**
- ◆ **Reviews the spread of diseases, economic and social impacts, marine aquaculture and adaptation in aquaculture under climate change.**
- ◆ **A true 'landmark' publication.**
- ◆ **Of vital importance to food security and sustainability across the globe.**
- ◆ **Climate change will have a huge impact on fisheries and aquaculture.**

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- Chapter 3 Climate Change Implications for Fisheries and Aquaculture
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- Chapter 28 Socioeconomic Impacts of Changes to Marine Fisheries and Aquaculture that are brought about through Climate Change
- Chapter 29 Conclusions

関連書ご案内

Aquaculture Nutrition: Gut Health, Probiotics and Prebiotics

Edited by Daniel L. Merrifield & Einar Ringo

ISBN: 978-0-470-67271-6

October 2014, 488 pages

Hardcover Wiley-Blackwell **¥37,360**

Manipulation of the microbial gut content of farmed fishes and crustaceans can have a marked effect on their general health, growth, and quality. Expertly covering the science behind the use of prebiotics and probiotics this landmark book explains how the correct manipulation of the gut flora of farmed fishes and crustaceans can have a positive effect on their health,

growth rates, feed utilization, and general wellbeing.

Aquaculture Nutrition: Gut Health, Probiotics and Prebiotics provides a comprehensive overview of the current knowledge of the gut microbiomes of fish and their importance with respect to host-fish health and performance, providing in-depth, cutting-edge fundamental and applied information.

Written by many of the world's leading authorities and edited by Dr Daniel Merrifield and Professor Einar Ringø, this important book discusses in detail the common mechanisms for modulating microbiomes, particularly at the gut level (e.g. probiotics, prebiotics and synbiotics). The book is a key resource for an understanding of the historical development of these products, their known mechanisms of action and their degree of efficacy as presently demonstrated in the literature. The fundamental material provided on the gut microbiota itself, and more broad aspects of microbe-live feed interactions,

provide essential reading for researchers, academics and students in the areas of aquaculture nutrition, fish veterinary science, microbiology, aquaculture, fish biology and fisheries. Those involved in the development and formulation of aquaculture feeds and those with broader roles within the aquaculture industry will find a huge wealth of commercially-important information within the book's covers. All libraries in universities and research establishments where biological sciences, nutrition and aquaculture are studied and taught, should have copies of this excellent book on their shelves.

Bioactive Compounds from Marine Foods

Plant and Animal Sources

Edited by Blanca Hernandez-Ledesma & Miguel Herrero

ISBN: 978-1-118-41284-8

464 pages, December 2013, Wiley-Blackwell

Hardcover, **¥38,630**

Part of the IFT Press series, this book reviews the myriad published information on bioactive components derived from marine foods, enabling researchers and product developers to select appropriate functional ingredients for new products.

Chapters cover foods and food ingredients from both animal and plant marine sources, focusing on those which demonstrate biological properties and whose constituent compounds have been isolated and identified as potentially active. This book further addresses the biological activities of PUFAs (Polyunsaturated fatty acids), oils, phospholipids, proteins and peptides, fibres, carbohydrates, chitosans, vitamins and minerals, fucoxanthin, polyphenols, phytosterols, taurine, amongst others. These components, found in a variety of marine-derived foods, have been demonstrated to have preventative properties with regard to hypertension, oxidative stress, inflammation, cardiovascular diseases, cancer and other human diseases.

Extraction methods and analysis techniques are also addressed. Intended for food scientists, food technologists and food engineers in academia, industry and government, this book reviews the substantial quantity of current research in this fast-moving and commercially valuable sector of food and nutrition science.

The Biogeochemical Cycle of Silicon in the Ocean

By Bernard Quéguiner

ISBN: 978-1-84821-815-4

146 pages, June 2016, Wiley-ISTE

Paperback **¥19,050**

In the biogeochemical dynamics of marine ecosystems, silicon is a major element whose role has, for a long time, been underestimated. It is however indispensable to the activity of several biomineralizing marine organisms, some of which play an essential role in the biological pump of oceanic carbon.

This book presents notions indispensable to the knowledge on the silicon biogeochemical cycle in ocean systems, first of all describing the main quantitative analysis techniques and examination of the major organisms involved in the cycle. The author then moves on to study the most up-to-date processes to control the use of silicon and its regeneration in natural conditions, before mentioning the central role played by this original element in the control of all the biogeochemical cycles in the global ocean. The available information finally enables the global biogeochemical budget of silicon in the marine environment to be quantified.

Biogeography

An Ecological and Evolutionary Approach, 9th Edition

By C. Barry Cox, Peter D. Moore & Richard Ladle

ISBN: 978-1-118-96857-4

496 pages, May 2016, Wiley-Blackwell

Hardcover **¥33,560**

Through eight successful editions, and over nearly 40 years, *Biogeography: An Ecological and Evolutionary Approach* has provided a thorough and comprehensive exploration of the varied scientific disciplines and research that are essential to understanding the subject. The text has been praised for its solid background in historical biogeography and basic biology, that is enhanced and illuminated by discussions of current research.

This new edition incorporates the exciting changes of the recent years, and presents a thoughtful exploration of the research and controversies that have transformed our understanding of the biogeography of the world. It also clearly identifies the three quite different arenas of biogeographical research: continental biogeography, island biogeography and marine biogeography. It is the only current textbook with full coverage of marine biogeography.

It reveals how the patterns of life that we see today have been created by the two great Engines of the Planet - the Geological Engine, plate tectonics, which alters the conditions of life on the planet, and the Biological Engine, evolution, which responds to these changes by creating new forms and patterns of life.

The Biology and Ecology of Tintinnid Ciliates

Models for Marine Plankton

Edited by John R. Dolan, David J. S. Montagnes, Sabine Agatha, D. Wayne Coats & Diane K. Stoecker

ISBN: 978-0-470-67151-1

304 pages, November 2012, Wiley-Blackwell

Hardcover **¥29,930**

Planktonic protists both produce and consume most of the primary production in the world ocean. They not only play key roles in the oceans but also represent an astounding amount of diversity: ecological morphological and genetic. However, for most taxa their ecology, morphology, phylogeny and biogeography are either poorly known or appear to be largely unrelated to one another; this hinders our understanding of their biology as well as interpretation of emerging genetic data. Tintinnid ciliates represent a singular exception. Compared to nearly all other groups of planktonic protists, there is a very substantial and relatively detailed literature (both modern and historical) on tintinnids. This volume synthesizes knowledge concerning a wide variety of topics ranging from anatomy and systematics, physiology, behavior, ecology (including ecological roles, predators, parasites, biogeography, and cysts) to fossil history. It will appeal to an audience ranging from advanced undergraduates to researchers in the fields of Oceanography, Marine Biology and Microbial Ecology.

The Common Fisheries Policy The Quest for Sustainability

By Ernesto Penas Lado

ISBN: 978-1-119-08564-5

390 pages, April 2016, Wiley-Blackwell

Hardcover **¥47,170**

Written by Ernesto Penas of the European Commission's Directorate-General for Maritime Affairs and Fisheries, this thorough and comprehensive book provides a full understanding of the European Commission's common

fisheries policy (CFP), which is of major importance to all fisheries scientists and managers.

Commencing with introductory chapters which look at the history behind the CFP, its birth and enlargement, this excellent book continues with chapters covering the major aspects of the CFP including policies on conservation, fishing fleets, structure, control, and environment, the external sector, scientific advice, stakeholders and decision making. Further chapters consider the Mediterranean Sea, aquaculture and the reforms of the CFP. A concluding chapter looks at what's next for the CFP.

The Common Fisheries Policy is an essential reference for all fisheries managers and fisheries scientists throughout the world, and provides a huge wealth of important information for fish biologists, conservation biologists, marine biologists, environmental scientists and ecologists in academia, governmental and non-governmental organizations and commercial operations. Libraries in all universities and research establishments where fisheries and/or biological sciences are studied and taught should have copies on their shelves.

Development of Marine Resources

Edited by André Monaco & Patrick Prouzet

ISBN: 978-1-84821-705-8

242 pages, December 2014, Wiley-ISTE

Hardcover **¥23,580**

Marine resources and their exploitation, recovery and economic networks they generate are here from the perspective now inevitable growing environmental constraints, policy management and technical innovation.

A historical perspective shows that Ocean and its adjacent seas at all times, allowed coastal communities to adapt to a very volatile environment through many technological changes.

The recent development of marine biotechnology, the discovery of a great pharmacopoeia especially in reef environments, the development of marine renewables, are examples which show that man can develop through these new technologies property and services of the ocean.

But this development resources under pressure of global change requires not only taking into account technical, but also social and political. This is the price that the analysis of maritime activities will assess the sustainability and development of various economic sectors and coastal populations, faced with the objectives of a "blue growth" associated with a return to the "good state" of the marine environment

Encyclopedia of Marine Natural Products, 2nd, Greatly Enlarged Edition

By Jean-Michel Kornprobst

ISBN: 978-3-527-33429-2

2180 pages, June 2014, Wiley-Blackwell

Hardcover **¥174,180**

Now in its second edition and further expanded by 15%, this encyclopedic work is one of the largest resources on marine natural products.

It contains an exhaustive and systematic listing of more than 9,000 formulae and 10,000 references with around 650 relevant websites. The unique approach of classifying the compounds by biological species together with their background information makes this particularly useful for marine biologists, and contributed significantly to the overwhelming success of the previous edition.

The digital version now features a completely cross-linked library of compounds for easy access to related substances, making it even more useful for biologists, chemists and

pharmacologists alike.

Fish Pheromones and Related Cues

Edited by P. W. Sorensen & Brian D. Wisenden

ISBN: 978-0-8138-2386-7

296 pages, March 2015, Wiley-Blackwell

Hardcover **¥37,360**

Pheromones are chemical cues that pass between members of the same species that convey specific, adaptive information. These cues, and related chemicals whose function are less well defined, are especially important to fishes because of their aquatic environments and complex behaviors. Pheromones are also of increasing interest in both basic and applied aspects of fish biology because they can be used to manipulate fish behavior and may explain phenomena such as fishery collapse. Fish Pheromones and Related Cues provides a timely synthesis of this growing body of research in freshwater and marine species and explores everything from how these chemical signals evolved, are produced, released and then processed, and finally to potential applications in fish culture and conservation.

Fish Pheromones and Related Cues opens with a useful overview on the theory of chemical communication and definitions. Chapters then progress by examining the biological importance of pheromones in inter- and intra-species communication, the role these chemical cues play in a variety of biological functions from reproduction to predation, and then how they evolved and are detected and recognized by fish nervous systems. Final chapters provide valuable insight into how pheromones can be measured, how pheromonal disruption can explain effects of environmental pollution, and lastly how they pheromones are being applied in real-world efforts to culture fish species and to conserve our wild populations and control invasive species.

Fishes of the World, 5th Edition

By Joseph S. Nelson, Terry C. Grande, & Mark V. H. Wilson

ISBN: 978-1-118-34233-6

752 pages, March 2016, Hardcover **¥29,930**

Fishes of the World, Fifth Edition is the only modern, phylogenetically based classification of the world's fishes. The updated text offers new phylogenetic diagrams that clarify the relationships among fish groups, as well as cutting-edge global knowledge that brings this classic reference up to date. With this resource, you can classify orders, families, and genera of fishes, understand the connections among fish groups, organize fishes in their evolutionary context, and imagine new areas of research. To further assist your work, this text provides representative drawings, many of them new, for most families of fishes, allowing you to make visual connections to the information as you read. It also contains many references to the classical as well as the most up-to-date literature on fish relationships, based on both morphology and molecular biology.

The study of fishes is one that certainly requires dedication—and access to reliable, accurate information. With more than 30,000 known species of sharks, rays, and bony fishes, both lobe-finned and ray-finned, you will need to master your area of study with the assistance of the best reference materials available. This text will help you bring your knowledge of fishes to the next level.

Fish Reproductive Biology Implications for Assessment and Management, 2nd Edition

Edited by Tore Jakobsen, Michael J. Fogarty, Bernard

A. Megrey & Erlend Moksness

ISBN: 978-1-118-75274-6

488 pages, March 2016, Wiley-Blackwell

Hardcover **¥36,280**

Fish recruitment is a key process for maintaining sustainable fish populations. In the marine environment, fish recruitment is carried out in many different ways, all of which have different life history strategies. The objective of this book is to argue for greater linkages between basic and applied research on fisheries recruitment, and assessment and management of exploited fish stocks.

Following an introductory chapter, this second edition of *Fish Reproductive Biology* is organized into 3 main sections:

Biology, Population Dynamics and Recruitment

Information Critical to Successful Assessment and Management

Incorporation of Reproductive Biology and Recruitment Considerations into Management Advice and Strategies

The authors collectively bring a wide range of diverse experience in areas of reproductive biology, fisheries oceanography, stock assessment, and management.

Fully updated throughout, the book will be of great interest to a wide audience. It is useful as a textbook in graduate and undergraduate courses in fisheries biology, fisheries science, and fisheries resource management and will provide vital information for fish biologists, fisheries scientists and managers.

Flatfishes

Biology and Exploitation, 2nd Edition

Edited by Robin N. Gibson, Richard D.M. Nash, Audrey J. Geffen & Henk W. Van der Veer

ISBN: 978-1-118-50119-1

576 pages, January 2015, Wiley-Blackwell

Hardcover **¥46,800**

Fascinating and instantly recognizable, flatfishes are unique in their asymmetric postlarval body form. With over 800 extant species recognized and a distribution stretching around the globe, these fishes are of considerable research interest and provide a major contribution to commercial and recreational fisheries worldwide. This second edition of *Flatfishes: Biology and Exploitation* has been completely revised, updated and enlarged to respond to the ever-growing body of research. It provides:

- Overviews of systematics, distribution, life history strategies, reproduction, recruitment, ecology and behaviour
- Descriptions of the major fisheries and their management
- An assessment of the synergies between ecological and aquaculture research of flatfishes.

Carefully compiled and edited by four internationally-known scientists and with chapters written by many world leaders in the field, this excellent new edition of a very popular and successful book is essential reading for fish biologists, fisheries scientists, marine biologists, aquaculture personnel, ecologists, environmental scientists, and government workers in fisheries and fish and wildlife departments. *Flatfishes: Biology and Exploitation, Second Edition*, should be found in all libraries of research establishments and universities where life sciences, fish biology, fisheries, aquaculture, marine sciences, oceanography, ecology and environmental sciences are studied and taught.

Governance of Marine Fisheries and Biodiversity Conservation

Interaction and Co-evolution

Edited by Dr Serge M. Garcia, Dr Jake Rice & Professor Anthony

ISBN: 978-1-118-39264-5

552 pages, September 2014, Wiley-Blackwell

Hardcover **¥42,990**

Governance of Marine Fisheries and Biodiversity Conservation explores governance of the world's oceans with a focus on the impacts of two inter-connected but historically separate streams of governance: one for fisheries, the other for biodiversity conservation. Chapters, most co-authored by leading experts from both streams, investigate the interaction of these governance streams from ecological, economic, social and legal perspectives, with emphasis on policies, institutions processes, and outcomes on scales from the global to the local community, and with coverage of a range of themes and regions of the world.

The book opens with chapters setting the historical context for the two marine governance streams, and framing the book's exploration of whether, as the streams increasingly interact, there will be merger or collision, convergence or co-evolution. The concluding chapter synthesizes the insights from throughout the book, relative to the questions posed in the opening chapters. It also draws conclusions about future needs and directions in the governance of marine fisheries and biodiversity, vital to the future of the world's oceans.

Imaging Marine Life

Macrophotography and Microscopy

Approaches for Marine Biology

Edited by Emmanuel G. Reynaud

ISBN: 978-3-527-32744-7

280 pages, February 2014, Wiley-Blackwell

Hardcover **¥31,920**

Written by an international team of experts from the Tara Oceans Marine Biology Imaging Platform (TAOMI), this is the first and only compendium on marine imaging technologies, and includes all known underwater as well as on-land techniques.

TAOMI is imaging the largest collection of marine organisms in recent history, ranging from viruses to corals, and is duplicated on land to perform high throughput confocal analysis of plankton, X-ray tomography as well as cryo-electron microscopy. This unique platform combines underwater imaging with cytometry, stereomicroscopy, fluorescence microscopy and 3D microscopy - all of which are covered in this practical book, along with remote sensing, MRI, and optical projection tomography.

The definitive resource for every marine biologist who is planning to image marine species, whether underwater or on land.

Lobsters: Biology, Management, Aquaculture & Fisheries, 2nd Edition

By Bruce Phillips

ISBN: 978-0-470-67113-9

488 pages, May 2013, Wiley-Blackwell

Hardcover **¥53,870**

This expanded and fully updated Second Edition of the most comprehensive and successful book on lobsters, comprises contributions from many of the world's experts, each providing core information for all those working in lobster biology, fisheries research and management and lobster aquaculture.

Under the editorship of Bruce Phillips, the Second Edition of *Lobsters: Biology, Management, Fisheries and Aquaculture* delivers exhaustive coverage of these fascinating creatures, stretching from growth and development to management and conservation. A number of chapters from the First Edition covering Growth, Reproduction, Diseases, Behaviour, Nutrition, Larval and Post-Larval Ecology and Juvenile and Adult Ecology have been replaced by new chapters including Lobsters in Ecosystems, Genetics, Translocation, Climate Change, Ecolabelling of Lobsters, Casitas and Other Artificial

Shelters, Systems to maximise Economic Benefits.. These new chapters reflect changes that are occurring in lobster management and new research developments brought on by social, climatic and economic changes.

As well as information from new research output, information in each chapter is also included on individual commercial Genera, including aspects of Species and distribution, Predators and diseases, Ecology and behaviour, Aquaculture and enhancement, Harvest of wild populations and their regulations, Management and conservation. The chapter on slipper lobsters has also been expanded to include *Thenus* and *Ibacus* species which are now subject to commercial fisheries. The changes that have occurred in some lobster fisheries, the new management arrangements in place, the status of stocks and the current economic and social situation of each fishery have also been covered and discussed in great detail.

Marine Bivalve Molluscs, 2nd Edition

By Elizabeth Gosling

ISBN: 978-0-470-67494-9

536 pages, July 2015, Wiley-Blackwell

Hardcover **¥50,800**

Marine Bivalve Molluscs is a comprehensive and thoroughly updated second edition of *Bivalve Molluscs*, covering all major aspects of this important class of invertebrates. As well as being an important class biologically and ecologically, many of the bivalves are fished and cultured commercially (e.g. mussels, oysters, scallops and clams) in a multi-billion dollar worldwide industry.

Elizabeth Gosling has written a landmark book that will stand for many years as the standard work on the subject. Chapters in *Marine Bivalve Molluscs* cover morphology, ecology, feeding, reproduction, settlement and recruitment, growth, physiology, fisheries, aquaculture, genetics, diseases and parasites, and public health issues. A full understanding of many of these aspects is vital for all those working in bivalve fisheries and culture.

An essential purchase for anyone concerned with this important class of animals, copies of *Marine Bivalve Molluscs* should be on the shelves of biologists, ecologists, environmental scientists, fisheries scientists and personnel within the aquaculture industry. Copies of the book should be available in all libraries and research establishments where these subjects are studied or taught.

Marine Coastal and Water Pollutions

Edited by Frederic Muttin

ISBN: 978-1-84821-692-1

144 pages, September 2014, Wiley-ISTE

Hardcover **¥13,240**

Identifying efficient solutions to protect coastal regions from marine pollution requires expertise from a range of specialties and strategic approaches. This book gathers information on the impact of oil spills at a coastal level from different experts' points of view, identifying synergies between domains such as mathematics, numerical modeling, mechanics, biology, economics and law.

The collaborative research presented here is based on the 4th International Workshop on Anti-Pollution and Marine Coastal Water Pollution, held in La Rochelle, France at the Engineering School EIGSI, in April 2012. The areas addressed include: materials and structures (fluid-structure and capture interaction, cable and membrane equations, optimization); coastal hydrodynamics (computational fluid dynamics, numerical analysis of shallow water equations, analytical and numerical derivatives); biological impacts (biology, multivariate analysis, indicators); and economics and law (compensation costs, insurance coverage, coastal vulnerability).

Marine Microbiology

Bioactive Compounds and Biotechnological Applications

Edited by Se-Kwon Kim

ISBN: 978-3-527-33327-1

580 pages, September 2013, Hardcover **¥42,630**

Deliberately breaking with the classical biology-centered description of marine organisms and their products, this reference emphasizes microbial technology over basic biology, setting it apart from its predecessors. As such, it systematically covers the technology behind high-value compounds for use as pharmaceuticals, nutraceuticals or cosmetics, from prospecting to production issues.

Following a definition of the field, the book goes on to address all industrially important aspects of marine microbial biotechnology. The first main part contains a description of the major production organisms, from archaeobacteria to cyanobacteria to algae and symbionts, including their genetic engineering. The remaining four parts look at commercially important compounds produced by these microorganisms together with their applications. Throughout, the emphasis is on technological considerations, and the future potential of these organisms or compound classes is discussed. A valuable and forward-looking resource for innovative biotechnologists in industry as well as in academia.

Marine Proteins and Peptides

Biological Activities and Applications

Edited by Se-Kwon Kim

ISBN: 978-1-118-37506-8

816 pages, May 2013, Wiley-Blackwell

Hardcover **¥48,250**

Food proteins and bioactive peptides play a vital role in the growth and development of the body's structural integrity and regulation, as well as having a variety of other functional properties. Land animal-derived food proteins such as collagen and gelatine carry risks of contamination (such as BSE). Marine-derived proteins, which can provide equivalents to collagen and gelatin without the associated risks, are becoming more popular among consumers because of their numerous health beneficial effects. Most marine-derived bioactive peptides are currently underutilized. While fish and shellfish are perhaps the most obvious sources of such proteins and peptides, there is also the potential for further development of proteins and peptides from sources like algae, sea cucumber and molluscs. Marine-derived proteins and peptides also have potential uses in novel products, with the possibility of wide commercialization in the food, beverage, pharmaceutical and cosmetic industries, as well as in other fields such as photography, textiles, leather, electronics, medicine and biotechnology.

Marine Proteins and Peptides: Biological Activities and Applications presents an overview of the current status, future industrial perspectives and commercial trends of bioactive marine-derived proteins and peptides. Many of the industrial perspectives are drawn from the food industry, but the book also refers to the pharmaceutical and cosmetics industries. There have recently been significant advances in isolating functional ingredients from marine bio-resources and seafood by-products for use in these industries, but little has been published, creating a knowledge gap, particularly with regard to the isolation and purification processes. This book is the first to fill that gap.

Microbial Ecology of the Oceans, 3rd Edition

Edited by David L. Kirchman & Josep M. Gasol

ISBN: 978-1-119-10718-7

592 pages, January 2018, Wiley-Blackwell

Hardcover **¥23,570**

Aquatic microbial ecology has become a well-established discipline that is still growing in size and attracting practitioners from other disciplines.

The third edition of *Microbial Ecology of the Oceans*, features new topics, as well as different approaches to subjects dealt with in previous editions. The book starts out with a general introduction to the changes in the field observed since the second edition, as well as looking at the prospects for the coming years. Chapters discuss ecology, diversity and function of microbes and of microbial genes in the ocean, as well as the structure of the microbial ecosystem, discussing in particular the sources of carbon for microbial growth. The biology and ecology of some model organisms, and how we can model the whole of the marine microbes are dealt with and some of the trophic roles that have changed in the last years are discussed. Finally, the role of microbes in the oceanic P cycle are presented.

This book is for advanced undergraduates, beginning graduate students, and colleagues from other fields wishing to learn about microbes and the processes they mediate in marine systems.

Seascape Ecology

Edited by Simon J. Pittman

ISBN: 978-1-119-08443-3

552 pages, December 2017, Wiley-Blackwell

Paperback **¥21,770**

Seascape Ecology provides a comprehensive look at the state-of-the-science in the application of landscape ecology to the seas and provides guidance for future research priorities. The first book devoted exclusively to this rapidly emerging and increasingly important discipline, it is comprised of contributions from researchers at the forefront of seascape ecology working around the world. It presents the principles, concepts, methodology, and techniques informing seascape ecology and reports on the latest developments in the application of the approach to marine ecology and management.

Tarpons: Biology, Ecology, Fisheries

By Stephen Spotte

ISBN: 978-1-119-18549-9

344 pages, August 2016, Hardcover **¥29,930**

Tarpons arose from an ancient lineage, and just two species exist today, confined to the tropics and subtropics: *Megalops*

atlanticus in the western and eastern Atlantic and *Megalops cyprinoides* distributed widely across the Indo-West Pacific. The Atlantic tarpon is considered king of the saltwater sport fishes and supports a multi-billion dollar recreational fishery in the U.S. alone. The Pacific tarpon, which is much smaller, is less valued by anglers. Both have limited commercial value but offer considerable potential for future aquaculture because of their hardiness, rapid growth, and ease of adaptation to captivity.

This book is the latest and most thorough text on the biology, ecology, and fisheries (sport and commercial) of tarpons. The chapters comprise clear, intricate discourses on such subjects as early development and metamorphosis, population genetics, anatomical and physiological features and adaptations, migrations, reproductive biology, and culminate with a concise overview of the world's tarpon fisheries. A comprehensive appendix includes Spotte's original translations of important papers published previously by others in Spanish and Portuguese and unavailable until now to English readers.

Tarpons: Biology, Ecology, Fisheries will be of considerable interest and use to fishery and research biologists, marine conservationists, aquaculturists, and informed anglers

Value and Economy of Marine Resources

Edited by André Monaco & Patrick Prouzet

ISBN: 978-1-84821-706-5

316 pages, December 2014, Wiley-ISTE

Hardcover, **¥23,580**

Marine resources and their exploitation, recovery and economic networks they generate are here from the perspective now inevitable growing environmental constraints, policy management and technical innovation.

The recent development of marine biotechnology, the discovery of a great pharmacopoeia especially in reef environments, the development of marine renewables, are examples which show that man can develop through these new technologies property and services of the ocean.

But this development resources under pressure of global change requires not only taking into account technical, but also social and political. This is the price that the analysis of maritime activities will assess the sustainability and development of various economic sectors and coastal populations, faced with the objectives of a "blue growth" associated with a return to the "good state" of the marine environment.



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