

MOLECULAR APPROACHES TO THE STUDY OF THE OCEAN

EDITED BY
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CHAPMAN & HALL

Molecular Approaches To The Study Of The Ocean

John Dighton, James F. White



Molecular Approaches To The Study Of The Ocean:

Molecular Approaches to the Study of the Ocean K.E. Cooksey, 2012-12-06 Marine biological science is now studied at the molecular level and although research scientists depend on information gained using molecular techniques there is no book explaining the philosophy of this approach Molecular Approaches to the Study of the Ocean introduces the reasons why molecular technology is such a powerful tool in the study of the oceans describing the types of techniques that can be used why they are useful and gives examples of their application Molecular biological techniques allow phylogenetic relationships to be explored in a manner that no macroscopic method can although the book deals with organisms near the base of the marine food web the ideas can be used in studies of macroorganisms as well as those in freshwater environments Biology of Marine Fungi Chandralata Raghukumar, 2012-01-06 The diversity ecological role and biotechnological applications of marine fungi have been addressed in numerous scientific publications in the last few years This enormous spurt of information has led to a dire need among students and professionals alike for a source which contains comprehensive reviews of various aspects of marine fungi This book addresses this need especially since it is written by reputed marine mycologists The latest information on topics including molecular taxonomy and phylogeny ecology of fungi in different marine habitats such as deep sea corals dead sea fungi in extreme marine environments and their biotechnological applications is reviewed The book presents a comprehensive source of information and analysis aimed at marine fungi for researchers teachers and students of marine mycology **Marine Microbiology** John Paul, 2001-05-08 Written by experts in the field Marine Microbiology presents the latest experimental techniques in the detail required for modern environmental microbiological research Chapters start with the introduction and background of a particular method followed by a concise description of the procedures involved There is also a list of vendors who supply critical components which includes names addresses and websites at the end of each chapter Covers both established and novel current methods Historical perspective Enumeration of autotrophic picoplankton bacteria and viruses Fingerprinting Viral Assemblages by Pulsed Field Gel electrophoresis PFGE Fluorescence in situ hybridization with rRNA targeted oligonucleotide probes Detection of phytoplankton by remote sensing Marine pollution microbiology Microbes in extreme environments List of suppliers provided at end of each chapter Colour plate section **Socio-Ecology of Microbes in a Changing Ocean** Matthias Wietz, Stanley C. Lau, Tilmann Harder, 2019-08-02 Socio ecological interactions between microbes and associated organisms are integral elements of marine ecosystem dynamics This Research Topic combines sixteen papers on interactions across the major domains of marine life including prokaryotes phytoplankton macroalgae cnidarians viruses and fungi These studies offer exciting insights into microbial cooperation and competition holobiont ecology interkingdom signaling chemical microdiversity and biogeography Understanding such network processes is essential for the interpretation of ecosystem functioning and biogeochemical events particularly in the wake of climate change The Marine Microbiome Lucas J.

Stal, Mariana Silvia Cretoiu, 2022-02-28 This updated and expanded second edition reviews numerous aspects of the marine microbiome and its possible industrial applications The marine microbiome is the total of microorganisms and viruses in the ocean and seas and in any connected environment including the seafloor and marine animals and plants In the first part of the book diversity origin and evolution of the marine microorganisms and viruses are discussed The microbes presented originate from all three domains of life Bacteria Archaea and Eukarya The second part sheds some light on the different communities it describes marine habitats and how their inhabitants control biogeochemical cycles The third part finally examines the microbial ocean as a global system and evaluates methods of utilizing marine microbial resources Adopting a translational approach the book connects academic research with industrial applications making it a fascinating read and valuable resource for microbiologists from both domains

Alien Ocean Stefan Helmreich, 2009-01-05 Alien Ocean immerses readers in worlds being newly explored by marine biologists the deep sea the microscopic realm and oceans beyond national boundaries Working alongside scientists on ships at sea in coastal research labs and at undersea volcanoes Stefan Helmreich charts how revolutions in genomics bioinformatics and remote sensing have pressed marine biologists to view the sea as animated by its smallest inhabitants marine microbes Thriving in astonishingly extreme conditions such microbes have become key figures in scientific and public debates about the origin of life climate change biotechnology and even the possibility of life on other worlds Cover

Biogeochemistry of Marine Systems Kenneth D. Black, Graham B. Shimmield, 2020-02-03 Marine systems vary in their sensitivities to perturbation Perturbation may be insidious such as increasing eutrophication of coastal areas or it may be dramatic such as a response to an oil spill or some other accident Climate change may occur incrementally or it may be abrupt and ecosystem resilience is likely to be a complex function of the interactions of the factors and species mediating key biogeochemical processes Biogeochemistry of Marine Systems considers issues of marine system resilience focusing on a range of marine systems that exemplify major global province types Each system is interesting in its own right on account of its sensitivity to natural or anthropogenic change or its importance as an ecological service provider Each contributing author concentrates on advances of the last decade This prime reference source for marine biogeochemists marine ecologists and global systems scientists provides a strong foundation for the study of the multiple marine systems undergoing change because of natural biochemical or anthropogenic factors

Basic and Applied Zooplankton Biology Perumal Santhanam, Ajima Begum, Perumal Pachiappan, 2018-07-23 The coastal and ocean ecosystem is a significant feature of our planet and provides a source of food for much of life on Earth Millions of species have been and are still being discovered in the world's oceans Among these zooplankton serve as secondary producers and are significant as they form pelagic food links and act as indicators of water masses They constitute the largest and most reliable source of protein for most of the ocean's fishes As such their absence or depletion often affects fishery In many countries the decline in fishery has been attributed to reduced plankton populations Furthermore trillions of

tiny copepods produce countless faecal pellets contributing greatly to the marine snow and therefore accelerating the flow of nutrients and minerals from the surface waters to the seabed. They are phylogenetically highly successful groups in terms of phylogenetic age, number of living species and success of adaptive radiation. A study of the basic and applied aspects of zooplankton would provide an index of the fishery potential and applications offering insights into ocean ecology to safeguard food supplies and livelihoods of the millions of people living in coastal areas. For this reason we need to understand all the facets of zooplankton as well as their interactions with atmosphere and other life forms including human. In this context this book discusses the basic and applied aspects of zooplankton especially taxonomy, mosquito-cidal activity, culture, analysis of nutritional pigments and enzyme profile, preservation of copepod eggs, bioenrichment of zooplankton and application of zooplankton in sustainable aquaculture production focusing on novel biofloc/copefloc technologies and the impact of acidification and microplastics on zooplankton. Offering a comprehensive overview of the current issues and developments in the field of environmental and commercial applications, this book is a valuable resource for researchers, aquaculturists, environmental managers wanting to understand the importance of zooplankton and develop technologies for the sustainable production of fish and other commodities to provide food and livelihoods for mankind.

Biogeochemistry of Marine Dissolved Organic Matter Dennis A. Hansell, Craig A. Carlson, 2024-07-04. Biogeochemistry of Marine Dissolved Organic Matter 3rd edition is the most up to date revision of the fundamental reference for the biogeochemistry of marine dissolved organic matter. Since its original publication in June 2002 the science questions and priorities have advanced and the editors of this essential guide have added nine new chapters including one on the South China Sea. An indispensable manual edited by the most distinguished experts in the field, this book is addressed to graduate students, marine scientists and all professionals interested in advancing their knowledge of the field. Features up to date knowledge on DOM including 9 new chapters. Presents the only published work to synthesize recent research on dissolved organic carbon in the South China Sea, a region receiving a great deal of attention in recent decades. Offers contributions by world class research leaders.

The Biodiversity Crisis and Crustacea - Proceedings of the Fourth International Crustacean Congress J. Carel von Vaupel Klein, 2000-06-01. The papers in this volume have been grouped according to the main sub themes of the congress and primarily deal with the biodiversity issues of invasive crustacea ecology and behaviour and fisheries and aquaculture.

The Fungal Community John Dighton, James F. White, 2005-05-24. The Fungal Community: Its Organization and Role in the Ecosystem. Third Edition addresses many of the questions related to the observations, characterizations and functional attributes of fungal assemblages and their interaction with the environment and other organisms. This edition promotes awareness of the functional methods of classification over taxonomic methods and approaches the concept of fungal communities from an ecological perspective rather than from a fungicentric view. It has expanded to examine issues of global and local biodiversity, the problems associated with exotic species and the debate concerning diversity and function. The third

edition also focuses on current ecological discussions diversity and function scaling issues disturbance and invasive species from a fungal perspective In order to address these concepts the book examines the appropriate techniques to identify fungi calculate their abundance determine their associations among themselves and other organisms and measure their individual and community function This book explains attempts to scale these measures from the microscopic cell level through local landscape and ecosystem levels The totality of the ideas methods and results presented by the contributing authors points to the future direction of mycology

Marine Protists Susumu Ohtsuka,Toshinobu Suzaki,Takeo Horiguchi,Noritoshi Suzuki,Fabrice Not,2015-09-28 This comprehensive book provides a unique overview of advances in the biology and ecology of marine protists Nowadays marine protistology is a hot spot in science to disclose life phenomena using the latest techniques Although many protistological textbooks deal with the cytology genetics ecology and pathology of specific organisms none keeps up with the quick pace of new discoveries on the diversity and dynamics of marine protists in general The book *Marine Protists Diversity and Dynamics* gives an overview of current research on the phylogeny cytology genomics biology ecology fisheries applied sciences geology and pathology of marine free living and symbiotic protists Poorly known but ecologically important protists such as labyrinthulids and apostome ciliates are also presented in detail Special attention is paid to complex interactions between marine protists and other organisms including human beings An understanding of the ecological roles of marine protists is essential for conservation of nature and human welfare This book will be of great interest not only to scientists and students but also to a larger audience to give a better understanding of protists diverse roles in marine ecosystems

Advances in Sponge Science: Physiology, Chemical and Microbial Diversity, Biotechnology,2012-06-26 One of two special issues of *Advances in Marine Biology* focusing on sponge science it features comprehensive reviews of the latest studies that are advancing our understanding of the fascinating marine phylum Porifera The selected contributors are internationally renowned researchers in their respective fields and provide a thorough overview of the state of the art of sponge science This volume will become a reference to marine biologists with interest in benthic ecology and biotic interactions including symbiosis chemical and molecular ecology systematics phylogeny and evolution sponge culture and tissue engineering

Ocean Challenge ,1998 *Advances in Sponge Science: Physiology, Chemical and Microbial Diversity, Biotechnology* Mikel A. Becerro,2012-07-30 The authors have intended to make the forefront of sponge research easily accessible to the nonspecialist illustrating the state of the art of the field and presenting current controversial issues For the specialist we wanted this monograph to be a handy valuable update on the most recent advances in sponge science

x *Adaptation and Evolution in Marine Environments, Volume 2* Cinzia Verde,Guido di Prisco,2012-10-29 The second volume of *Adaptation and Evolution in Marine Environments The Impacts of Global Change on Biodiversity* from the series *From Pole to Pole* integrates the marine biology contribution of the first tome to the IPY 2007 2009 presenting overviews of organisms from bacteria and ciliates to higher vertebrates thriving on polar continental shelves slopes and deep sea The

speed and extent of warming in the Arctic and in regions of Antarctica the Peninsula at the present are greater than elsewhere Changes impact several parameters in particular the extent of sea ice organisms ecosystems and communities that became finely adapted to increasing cold in the course of millions of years are now becoming vulnerable and biodiversity is threatened Investigating evolutionary adaptations helps to foresee the impact of changes in temperate areas highlighting the invaluable contribution of polar marine research to present and future outcomes of the IPY in the Earth system scenario

Environmental Microbiology Jared Leadbetter, 2005-10-18 *Environmental Microbiology* covers cultivation of diverse microbes physiological ecology and nucleic acid techniques in environmental microbiology Both applied methods such as cultivation and preparation and theoretical modeling such as bioenergetic calculation programs and imaging are discussed A significant number of chapters on methods in activity measurement are included *Environmental Microbiology* is volume 397 in the critically acclaimed laboratory standard for more than forty years *Methods in Enzymology* *Methods in Enzymology* is now available online at ScienceDirect full text online of volumes 1 onwards *Cultivation Physiological Ecology Imaging of Cells Microscale Architecture Nucleic Acids based Molecular Ecology* *Topics in Ecological and Environmental Microbiology*

Thomas Mitchell Schmidt, Moselio Schaechter, 2011-09-28 This book provides an overview of ecological aspects of the metabolism and behavior of microbes microbial habitats biogeochemical cycles and biotechnology It was designed by selecting relevant chapters from the comprehensive *Encyclopedia of Microbiology* 3rd edn and inviting the original authors to update their material to include key developments and advances in the field **Marine Niche: Applications in**

Pharmaceutical Sciences Neelam M Nathani, Chandrashekar Mootapally, Indra R. Gadhvi, Bharat Maitreya, Chaitanya G. Joshi, 2020-11-09 This book offers a comprehensive study of biological molecules acquired from marine organisms which have been exploited for drug discovery with the aim to treat human diseases Biomolecules have potential impacts on a diverse range of fields including medical and pharmaceutical science industrial science biotechnology basic research molecular science environmental science and climate change etc To understand and effectively apply medicinally important biomolecules multidisciplinary approaches are called for The ocean remains a rich biological resource and the vast untapped potential of novel molecules from marine bio resources has caught the interest of more and more researchers These novel biological compounds have never been found in terrestrial or other ecosystems but only in this rich niche Advances in sampling techniques and technologies along with increased funding for research and nature conservation have now encouraged scientists to look deeper in the waters Aquaculture supports both tremendous seafood production and the bulk production of marine derived drugs Furthermore molecular methods are now being extensively employed to explore the untapped marine microbial diversity With the help of molecular and biotech tools the ability of marine organisms to produce new biosynthetic drugs can be greatly enhanced This book provides an extensive compilation of the latest information on marine resources and their undisputedly vital role in the treatment of diverse ailments **Microbial Growth on C1**

Compounds Mary E. Lidstrom, F. Robert Tabita, 2012-12-06 The 8th International Symposium on Microbial Growth on C1 Compounds was held at the Bahia Resort Hotel San Diego CA 27 August 1 September 1995 A total of 160 participants from 18 countries were registered Eight Scientific Sessions were held in which 45 papers were presented and 114 posters were displayed and discussed in 3 separate poster sessions The Symposium covered a broad range of topics including acetogenesis methanogenesis CO₂ fixation lithoautotrophy carboxidotrophy methylotrophy and methanotrophy The theme of the Symposium was mechanistic and under this rubric the physiology biochemistry molecular biology and both applied and environmental aspects of microbial growth on C1 compounds were addressed This Symposium Volume contains 46 chapters including the text of an Opening Address delivered at the Symposium by J R Quayle This chapter elegantly presents an historical perspective on the past 7 Symposia in the context of major breakthroughs in the field and of what is termed giant topics The reader will be pleased to see that the tradition of the past Symposia Volumes is upheld and that both familiar and new giant topics are covered This Volume presents a cutting edge view of the broad field of microbial one carbon metabolism and provides a valuable resource for researcher and student alike

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