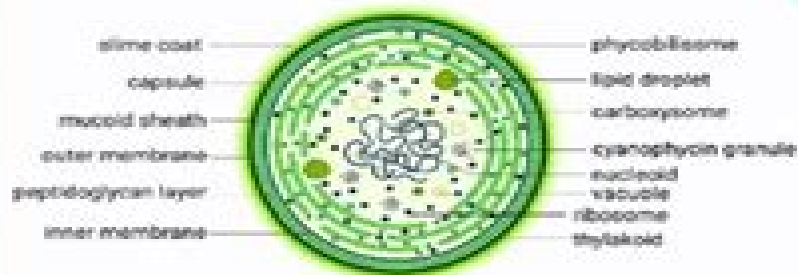


A

Aquatic microbes

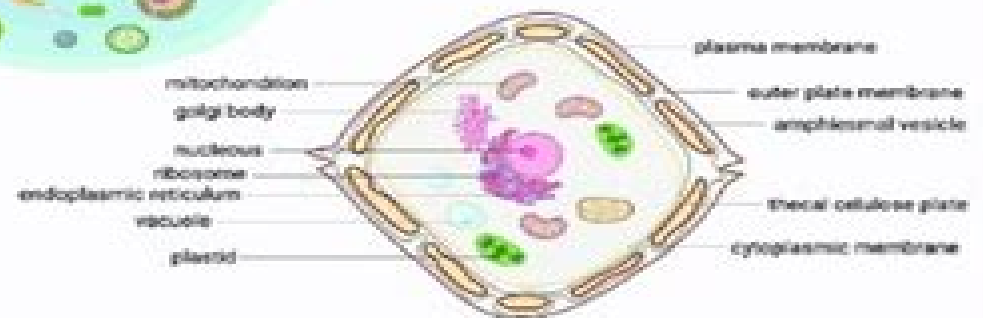
diversity of shapes and structures

Prokaryotic cell



85 – 1000 mRNA molecules per cell*

Eukaryotic cell



4800 – 51000 mRNA molecules per cell**

B

Single cell imaging

MSI



CRM



technique	resolution (μm)	usage/analysis
Raman	0.5 - 1	biomolecules, DNA/RNA, proteins, lipids, polysaccharides, "cell inclusions" - polyphosphate, starch, sulfur globules, glycogen, PSHSA, (alkanoates)
nano-SIMS	0.03 - 0.5	single elements at cellular and subcellular level
ToF-SIMS	0.5 - 50	low molecular mass compounds at multicellular level
MALDI	50 - 500	intact molecules from e.g. microbial symbiosis, colonies, associations etc.

nondestructive

destructive

can be used in combination with SCS methods

C

Isolating cells

Manual isolation with pipette or micromanipulator
Fluorescent activated cell sorting (FACS)
Raman activated cell sorting (RACS)

Lysis



enzymes
detergents
mechanical
sonication
heating
freeze-thaw

SCS

SCG

Whole genome amplification with MDA
Fast MDA
average and big genomes
Slow MDA
small genomes

SCT

eukaryotes (poly A)
Full length transcriptome
Smart-seq/Smartseq2
Strand specific (5' or 3')
10X genomics Chromium
prokaryotes (No-poly A)
haven't been tested on
environmental microbes

Aquatic Microbiology

**Télesphore Sime-Ngando, Kevin D.
Lafferty, David G. Biron**



Aquatic Microbiology:

Handbook of Aquatic Microbiology Pramod Kumar Pandey, Sumanta Kumar Mallik, Rameshori Yumnam, 2024-09-26 This comprehensive handbook covers the different aspects of the aquatic environment microbiology and microbial applications. The world's aquatic environment is facing a serious threat due to inappropriate planning, implementation, and management. This book compiles effective strategies for managing the aquatic environment. It highlights the role of microorganisms as pollution indicators in bioremediation and as biocontrol agents. The book also covers the impact of pollution on microorganisms, biofilms, cyanobacterial blooms, and the metagenomics approach to isolate microbes. This book is essential for students and researchers of Microbiology, Environmental Sciences, and Biotechnology. It includes key themes: 1. Environmental DNA application, metagenomes, extremophiles, microbial population genetics, and statistical aspects of aquatic microbiology. 2. Discusses the beneficial microbes of the aquatic environment. 3. Covers applications of microbes in bioremediation as pollution indicators and as algicidal agents. 4. Reviews freshwater biogeochemical cycles and sediment microbiology. 5. Explores microbial communities of biofloc and microbiomes in aquaponics.

Aquatic Microbiology Mr. Rohit Manglik, 2023-07-23 Microbial processes in aquatic environments are analyzed. Guides students to understand ecosystem dynamics, fostering expertise in microbial ecology through laboratory experiments and field sampling.

Methods in Aquatic Microbiology Tony Gutierrez, Frederic Coulon, Terry John McGenity, 2023-12-11

Insights in Aquatic Microbiology: 2023 Michael Rappe, Jin Zhou, 2024-10-17 To shed light on the latest breakthroughs and cutting-edge research, *Frontiers in Microbiology* presents this compelling series of Research Topics. Spearheaded by esteemed experts Prof. Michael Rapp and Prof. Jin Zhou, this collection is dedicated to exploring novel developments, current challenges, recent discoveries, and future prospects within this field, including microbiology of aqueous environments, microbial role in aquatic food webs, and biogeochemical cycling and plankton community structure. This Research Topic welcomes forward-looking contributions from our esteemed Editorial Board Members. These insightful contributions will highlight recent accomplishments, future challenges, and strategic pathways to propel the field forward. Original Research, Reviews, Mini Reviews, Perspectives, and Opinions that summarize the present state and future direction of the field are particularly welcome.

Rising Stars in Aquatic Microbiology: 2022 Hongbin Liu, Tony Gutierrez, 2023-09-13 Recognizing the future leaders of Aquatic Microbiology is fundamental to safeguarding tomorrow's driving force in innovation. This collection will showcase the high-quality work of internationally recognized researchers in the early stages of their careers. We aim to highlight research by leading scientists of the future across the entire breadth of Aquatic Microbiology and present advances in theory, experiment, and methodology with applications to compelling problems.

Women in Aquatic Microbiology: 2023 Camila Fernandez, Feixue Fu, Angela Landolfi, Nona Sheila Romualdo Agawin, 2025-03-27 Please note that to be considered for this collection, the first author or at least one corresponding author should be a researcher who identifies as a woman. After the

well received 2022 collection Frontiers in Microbiology is proud to host this Research Topic celebrating women's work and achievements in the field of Aquatic Microbiology. Alongside International Women's Day and Women's History Month 2023 we will collectively embrace equity in the microbiology community. There is continued gender disparity within core STEM subjects. According to UNESCO Institute for Statistics just 33% of the world's researchers are women. While the number of women attending university is growing they still represent the minority of doctoral students and researchers. Women remain underrepresented in the highest level of academia holding just 26% of full professorships. This is even more skewed in industry with just 3% of STEM industry CEOs being women. As highlighted by UNESCO science and gender equality are essential to ensure sustainable development.

Research in aquatic microbiology: report Great Britain. Natural Environment Research Council. Working Party on Aquatic Microbiology, **Current Status of Fresh Water Microbiology** Ravindra Soni, Deep Chandra Suyal, Lourdes Morales-Oyervides, Jaspal Singh Chauhan, 2023-11-26. This contributed volume deals with the various aspects of freshwater microbiology including diverse habitats, associated microorganisms, their ecological interactions and industrial applications. Freshwater ecosystems are dynamic natural resources providing sources of potable water, food, animal habitats and recreation. Perspectives of microbial dynamics in freshwater bodies covered in this title provide a comprehensive and systematic analysis of microbial ecology in these ecosystems. These microbes are at the hub of biogeochemical cycles: carbon, nitrogen, phosphorus, potassium and other elements. Moreover, they are an integral part of the aquatic food web and control the quality of freshwater bodies. Chapters in this title also discuss the issue of pollution in freshwater bodies and put forward available strategies for eco-friendly solutions. The book is a perfect documentation of primary and secondary data-based information on the latest research findings, case studies, experiences and innovations in the field of freshwater microbiology. The book is of great use to students, researchers and professionals studying aquatic sciences.

Advances in Aquatic Microbiology M.R. Droop, 2012-12-02. Advances in Aquatic Microbiology Volume 1 describes the characteristics of ecological niches for individual microorganisms and the intensities of individual microbiological processes in the course of turnover of various substances in reservoirs. This volume follows Volume 1 of Advances in Microbiology of the Sea book. The opening chapter presents insight into the tradition of Russian limnological microbiology followed by a discussion on conversion of inorganic nitrogen to organic nitrogen and the microorganisms responsible for assimilatory reactions. The book considers aspects of the reduction of atmospheric dinitrogen and nitrate to ammonia and the incorporation of ammonia into organic compounds. Such considerations will relate particularly to those organisms of significance in aquatic environments. The relations between prey and predator and their significance in the investigation both the behavior of the microorganisms themselves and the prey-predator situation in general are also discussed. Chapter 4 examines how viruses, bacteria and fungi affect the blue-green algae and the development and regulation of algal blooms. The final two chapters summarize studies in freshwater sediment microbiology and the role of

bacteria in water pollution monitoring This book caters primarily to aquatic microbiologists but limnological microbiologists aquatic researchers scientists teachers and students with courses in aquatic microbiology will find this book invaluable

Handbook of Aquatic Microbiology Pramod Kumar Pandey, Sumanta Kumar Mallik, Rameshori Yumnam, 2024-09-26 Short Blurb This handbook covers the different aspects of the aquatic environment microbiology and microbial applications It highlights the role of microorganisms as pollution indicators and as bio control agents The book covers the impact of pollution on microorganisms biofilms cyanobacterial blooms and the metagenomics approach to isolate microbes Standard Blurb This comprehensive handbook covers the different aspects of the aquatic environment microbiology and microbial applications The world's aquatic environment is facing a serious threat due to inappropriate planning implementation and management This book compiles effective strategies for managing the aquatic environment It highlights the role of microorganisms as pollution indicators in bioremediation and as bio control agents The book also covers the impact of pollution on microorganisms biofilms cyanobacterial blooms and the metagenomics approach to isolate microbes This book is essential for students and researchers of microbiology environmental sciences and biotechnology Seasonal Blurb This comprehensive handbook covers the different aspects of the aquatic environment microbiology and microbial applications The world's aquatic environment is facing a serious threat due to inappropriate planning implementation and management This book compiles effective strategies for managing the aquatic environment It highlights the role of microorganisms as pollution indicators in bioremediation and as bio control agents The book also covers the impact of pollution on microorganisms biofilms cyanobacterial blooms and the metagenomics approach to isolate microbes This book is essential for students and researchers of Microbiology Environmental Sciences and Biotechnology 1 Includes key themes like environmental DNA application metagenomes extremophiles microbial population genetics and statistical aspects of aquatic microbiology 2 Discusses the beneficial microbes of the aquatic environment 3 Covers applications of microbes in bioremediation as pollution indicators and as algicidal agents 4 Reviews freshwater biogeochemical cycles and sediment microbiology 5 Explores microbial communities of biofloc and microbiomes in aquaponics

Molecular and functional ecology of aquatic microbial symbionts Hans-Peter Grossart, Lasse Riemann, Kam W. Tang, Nothing provided

Drinking Water Microbiology Gordon A. McFeters, 2013-03-07 The microbiology of drinking water remains an important worldwide concern despite modern progress in science and engineering Countries that are more technologically advanced have experienced a significant reduction in water borne morbidity within the last 100 years This reduction has been achieved through the application of effective technologies for the treatment disinfection and distribution of potable water However morbidity resulting from the ingestion of contaminated water persists globally and the available epidemiological evidence Waterborne Diseases in the United States G F Craun ed 1986 CRC Press demonstrates a dramatic increase in the number of waterborne outbreaks and individual cases within the United States since the mid 1960s In

addition it should also be noted that the incidence of water borne outbreaks of unknown etiology and those caused by new pathogens such as *Campylobacter* sp is also increasing in the United States Although it might be debated whether these increases are real or an artifact resulting from more efficient reporting it is clear that waterborne morbidity cannot be ignored in the industrialized world More significantly it represents one of the most important causes of illness within developing countries Approximately one half the world's population experiences diseases that are the direct consequence of drinking polluted water Such illnesses are the primary cause of infant mortality in many Third World countries

Aquatic Microbiology Gerhard Rheinheimer, 1992 Reflects the important role microorganisms play in both the purification and pollution of water Focuses on current research results in the area of thermal vents in ocean depths the interactions between other organisms the latest developments in molecular biology Not only is this updated edition packed with photographs drawings but the list of references has expanded considerably

The Structure and Function of Aquatic Microbial Communities Christon J. Hurst, 2019-05-13 This book discusses how aquatic microbial communities develop interactive metabolic coordination both within and between species to optimize their energetics It explains that microbial community structuration often includes functional stratification among a multitude of organisms that variously exist either suspended in the water lodged in sediments or bound to one another as biofilms on solid surfaces The authors describe techniques that can be used for preparing and distributing microbiologically safe drinking water which presents the challenge of successfully removing the pathogenic members of the aquatic microbial community and then safely delivering that water to consumers Drinking water distribution systems have their own microbial ecology which we must both understand and control in order to maintain the safety of the water supply Since studying aquatic microorganisms often entails identifying them the book also discusses techniques for successfully isolating and cultivating bacteria As such it appeals to microbiologists microbial ecologists and water quality scientists

Advances in Aquatic Microbiology Holger W. Jannasch, 1977

Algae Abstracts Office of Water Resources Research Staff, 2012-12-06 *Algae Abstracts* is the first in a series of bibliographies on water resources and pollution published by IFI Plenum Data Corporation in cooperation with the Water Resources Scientific Information Center WRSIC It is produced wholly from the information base comprising material abstracted and indexed for Selected Water Resources Abstracts The bibliography is divided into volumes according to the publication dates of the source documents Volume 1 contains 569 abstracts covering publication dates up to and including 1969 Volume 2 contains 730 abstracts covering the years 1970 to 1972 The material included in this bibliography represents computer selections based on the presence of a form of the word *alga* somewhere in the referenced citation Substantively the material typifies WRSIC's centers of competence approach to information support of the Office of Water Resources Research OWRR of the Department of the Interior Most of the references in this bibliography are the work of the center of competence on eutrophication at the University of Wisconsin The indexes refer to the WRSIC accession number which follows each abstract

The Significant Descriptor Index is made up of a fraction of the total descriptors and identifiers by which each paper has been indexed. It represents weighted terms that best describe the information content; this status is indicated by the asterisks which precede them. The General Index includes all the remaining descriptors and identifiers by which each paper in this bibliography has been indexed.

Roles and mechanisms of parasitism in aquatic microbial communities T  lesphore Sime-Ngando, Kevin D. Lafferty, David G. Biron, 2015-07-24

Next Generation Sequencing technologies are increasingly revealing that microbial taxa likely to be parasites or symbionts are probably much more prevalent and diverse than previously thought. Every well studied free living species has parasites; parasites themselves can be parasitized. As a rule of thumb, there is an estimated 4 parasitic species for any given host, and the better a host is studied, the more parasites are known to infect it. Therefore, parasites and other symbionts should represent a very large number of species and may far outnumber those with free living lifestyles. Paradoxically, free living hosts, which form the bulk of our knowledge of biology, may be a minority. Microbial parasites typically are characterized by their small size, short generation time, and high rates of reproduction, with simple life cycles occurring generally within a single host. They are diverse and ubiquitous in the environment, comprising viruses, prokaryotes, and eukaryotes.

This Frontiers Research Topic sought to provide a broad overview, but concise, comprehensive, well referenced, and up to date state of the art for everyone involved with microbial parasites in aquatic microbial ecology.

Aquatic Microbiology Gerhard Rheinheimer, 1980

Reflects the important role microorganisms play in both the purification and pollution of water. Focuses on current research results in the area of thermal vents in ocean depths, the interactions between other organisms, the latest developments in molecular biology. Not only is this updated edition packed with photographs and drawings, but the list of references has expanded considerably.

Ground-Water Microbiology and Geochemistry Francis H. Chapelle, 2000-10-26

Up to date coverage and a unique multidisciplinary approach. The ongoing effort to protect our valuable ground water resources necessarily involves scientists and engineers from many disciplines. Ground Water Microbiology and Geochemistry, Second Edition, is designed to bridge the historical lack of communication among these disciplines by detailing, in language that cuts across specialties, the impact of microorganisms and microbial processes on ground water systems. Carefully revised to reflect the many recent discoveries that have been made in the field, the Second Edition begins with an overview of microbiology, ideal for hydrologists and others who may lack formal training in the field. These initial chapters systematically cover the kinds of microorganisms found in subsurface environments, focusing on their growth, metabolism, genetics, and ecology. The second part of the book offers a hydrologic perspective on how microbial processes affect ground water geochemistry in pristine systems. It also introduces the different classes of ground water systems and gives an overview of techniques for sampling subsurface environments. Readers gain an understanding of biogeochemical cycling in ground water systems, in coverage unique to this book, and how ground water chemistry can be used to study microbial processes in aquifer systems. The final section of the book deals with the

biodegradation of human introduced contaminants in ground water systems with an up to date review of the physiology biochemistry and redox conditions that favor biodegradation processes Ground Water Microbiology and Geochemistry Second Edition is important reading for geoscientists hydrologists and environmental engineers as well as for water planners and lawyers involved in environmental issues It also serves as a compelling text for upper level undergraduate and graduate courses in ground water chemistry Handbook of Methods in Aquatic Microbial Ecology Paul F. Kemp,Jonathan J. Cole,Barry F. Sherr,Evelyn B. Sherr,2018-05-02 Handbook of Methods in Aquatic Microbial Ecology is the first comprehensive compilation of 85 fundamental methods in modern aquatic microbial ecology Each method is presented in a detailed step by step format that allows readers to adopt new methods with little difficulty The methods represent the state of the art and many have become standard procedures in microbial research and environmental assessment The book also presents practical advice on how to apply the methods It will be an indispensable reference for marine and freshwater research laboratories environmental assessment laboratories and industrial research labs concerned with microbial measurements in water

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