

# ***Microbial Ecological Theory***

*Current Perspectives*



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**Lesley A. Ogilvie**  
*and*  
**Penny B. Hirsch**

Garland Academic Press

# Microbial Ecological Theory Current Perspectives

**M. J. Klug, C. A. Reddy**



## **Microbial Ecological Theory Current Perspectives:**

Microbial Ecological Theory Lesley A. Ogilvie, Penny R. Hirsch, 2012 The vast explosion of high resolution molecular data in the past few years has provided an unprecedented glimpse into the microbial world This book synthesizes current viewpoints and knowledge on microbial ecological theory The book has assembled a collection of essays by a diverse group of well respected scientists who merge the boundaries of ecology and microbiology to explore some of the central tenets of macro ecological theory with a microbial perspective The contributors explore the mainstays of macro ecology asking questions such as do microbes have biogeography and does a microbial species concept exist Additionally the book shows how high resolution molecular data is informing and underpinning the evolution of microbial ecological theory It demonstrates how the application of macro ecological theory to the microbial world is not only enhancing our understanding of microbial ecology but it also provides a reference point for the development of new theories Written for graduate students and academic researchers the book encourages cross disciplinary thinking and provides direction and perspective on the still fledgling field of microbial ecological theory It is highly recommended for all microbiology libraries **Current**

**Perspectives in Microbial Ecology** M. J. Klug, C. A. Reddy, 1984 **Microbial Ecology** Heinz Stolp, 1988-07-29 The rapid expansion of industry and the excessive demands made on limited natural resources have caused genuine concern at all levels of society In the past this concern has concentrated on plants and animals and their relationships with their environments but now attention is also turning towards microorganisms whose role is crucial to so many natural processes from global life and mineral cycles through to the production of beer and milk products After a brief introduction to microbiology this book concentrates on the ecological aspects of microbial life covering a wide variety of topics including structure behaviour growth dispersal interactions and how microbes act as symbionts and pathogens Such a wide ranging interdisciplinary approach will appeal to undergraduate and graduate students of microbiology plant and animal ecology agronomy forestry and environmental sciences Professionals working in the same fields will also find it informative as will those working in plant pathology and soil aquatic medical and food microbiology **Advances in Microbial Ecology** J.G. Jones, 2013-11-11 Kevin Marshall is a hard act to follow Volume 13 of *Advances in Microbial Ecology* has been produced by a new editorial board and we the members of that board are delighted to have the opportunity to pay tribute to Kevin's achievements In his time as Series Editor the quality of the chapters submitted and the range of subject matter covered have ensured an expanding and more stimulated readership This represents a considerable achievement given the growth in the number of review volumes and the increasing tendency for journals to publish review articles The achievement was reached not only through meticulous attention to quality and detail but also by providing a forum for the expression of views information and results that would stimulate discussion *Advances in Microbial Ecology* will continue to provide such a focus although because of the frequency of publication it would not be practicable to introduce a reply or comment section

Although we do not deliberately aim to provide a forum for controversy we encourage speculation based on sound scientific arguments. In addition we would like to encourage authors to offer chapters for consideration. In the past the volumes have largely comprised invited chapters. With the best will in the world an editorial board of four cannot claim adequate coverage of such a vast and rapidly developing research area. We would therefore welcome submission of outline plans for chapters which should be sent to the Editor.

*Advances in Microbial Ecology* K. Marshall, 2013-11-11 *Advances in Microbial Ecology* was established by the International Committee on Microbial Ecology (ICOME) to provide a means for in depth critical and even provocative reviews to emphasize current trends in the rapidly expanding area of microbial ecology. *Advances in Microbial Ecology* is now recognized as a major source of information and inspiration both for practicing and for prospective microbial ecologists. The majority of reviews published in *Advances* have been prepared by leaders in particular areas following invitations provided by the Editorial Board. Although the Board intends to continue its policy of soliciting reviews individual microbial ecologists are encouraged to submit outlines of unsolicited contributions to any member of the Editorial Board for consideration for inclusion in *Advances*. Volume 9 of *Advances in Microbial Ecology* covers a particularly broad range of topics related to microbial ecology. The potential for applying ribosomal RNA sequence analysis for the definition of natural microbial populations is considered by N. R. Pace, D. A. Stahl, D. J. Lane and G. J. Olsen. Other reviews on techniques include the application of microelectrode technology to microbial ecosystems by N. P. Revsbech and B. B. Jørgensen and the use of rates of nucleic acid synthesis to determine bacterial growth rates in natural aquatic habitats by D. J. W. Moriarty. The contribution by T. Fenchel discusses the ecology of heterotrophic microflagellates. J. H. Andrews and R. F. Harris present the concept of *r* and *K* selection and its relevance to microbial ecology.

**Microbiome Community Ecology** Muhammad Saleem, 2015-01-20 This book reviews the mechanisms, patterns and processes that regulate prokaryotic diversity through different habitats in the context of evolutionary and ecological hypotheses, principles and theories. Despite the tremendous role of prokaryotic diversity in the function of the global ecosystem it remains understudied in comparison to the rest of biological diversity. In this book the authors argue that understanding the mechanisms of species coexistence, functioning relationships (e.g. nutrient cycling and host fitness) and trophic and non trophic interactions are helpful in addressing the future challenges in basic and applied research in microbial ecology. The authors also examine the ecological and evolutionary responses of prokaryotes to global change and biodiversity loss.

*Ecological Diversity of the Microbiome in the Context of Ecology Theory and Climate Change* aims to bring prokaryotes into the focus of ecological and evolutionary research especially in the context of global change.

*Advances in Soil Science*, 2013-03-07 From the beginning of agriculture until about 1950 increased food production came almost entirely from expanding the cropland base. Since 1950 however the yield per unit of land area for major crops has increased dramatically. Much of the increase in yields was because of increased inputs of energy. Between 1950 and 1985 the farm tractor fleet quadrupled, world irrigated area tripled

and use of fertilizer increased ninefold Between 1950 and 1985 the total energy used in world agriculture increased 6.9 times Irrigation played a particularly important role in the rapid increase in food production between 1950 and 1985 The world's irrigated land in 1950 totaled 94 million hectares but increased to 140 million by 1960 to 198 million by 1970 and to 271 million hectares in 1985 However the current rate of expansion has slowed to less than 1 % per year The world population continues to increase and agricultural production by the year 2000 will have to be 50 to 60% greater than in 1980 to meet demands This continued demand for food and fiber coupled with the sharp decline in the growth rate of irrigation development means that much of the additional agricultural production in future years must come from cultivated land that is not irrigated Agricultural production will be expanded in the arid and semiarid regions because these regions make up vast areas in developing countries where populations are rapidly rising

**Microbial Ecology** Ronald M. Atlas, Richard Bartha, 1998 The 4th edition of Microbial Ecology features enhanced coverage of biofilms thermal vent communities extreme habitats starvation response molecular methods for studying microbial ecology and biodiversity biodegradation and bioremediation

**Applied and Environmental Microbiology**, 1988 *Environmental Microbiology* Eugene L. Madsen, 2015-07-09 New and expanded for its second edition Environmental Microbiology From Genomes to Biogeochemistry Second Edition is a timely update to a classic text filled with ideas connections and concepts that advance an in depth understanding of this growing segment of microbiology Core principles are highlighted with an emphasis on the logic of the science and new methods driven discoveries Numerous up to date examples and applications boxes provide tangible reinforcement of material covered Study questions at the end of each chapter require students to utilize analytical and quantitative approaches to define and defend arguments and to apply microbiological paradigms to their personal interests Essay assignments and related readings stimulate student inquiry and serve as focal points for teachers to launch classroom discussions A companion website with downloadable artwork and answers to study questions is also available Environmental Microbiology From Genomes to Biogeochemistry Second Edition offers a coherent and comprehensive treatment of this dynamic emerging field building bridges between basic biology evolution genomics ecology biotechnology climate change and the environmental sciences

*Journal of bacteriology*, 1984-10 [Journal of Bacteriology](#) Charles-Edward Amory Winslow, James Morgan Sherman, John Roger Porter, 1984

**The Challenge to Marine Biology in a Changing World** H.-D. Franke, Klaus Lüning, 1995 [Wealth from Waste](#) Sunil Khanna, Krishna Mohan, 1995

**Ecology Abstracts**, 1984 Indexes journal articles in ecology and environmental science Nearly 700 journals are indexed in full or in part and the database indexes literature published from 1982 to the present Coverage includes habitats food chains erosion land reclamation resource and ecosystems management modeling climate water resources soil and pollution

**Microbial Ecology** Morris A. Levin, Ramon J. Seidler, Marvin Rogul, 1992 [Principles and Applications of Soil Microbiology](#) David M. Sylvia, 2005 9411G 9 0 13 094117 4 Sylvia David M Fuhrmann Jeffry J Hartel Peter G Zuberer David A Principles and

Applications of Soil Microbiology 2 E Written by leading experts in their respective fields this comprehensive balanced introduction to soil microbiology captures the rapid advances in the study of soil microbiology e g habitats and organisms microbially mediated transformation and applied environmental topics Carefully edited for ease of reading it aids users by providing an excellent multi authored reference the type of book that is continually used in the field Background information is provided in the first part of the book for ease of comprehension it then describes such fundamental topics as soil environment and microbial processes microbial groups and their interactions and thoroughly addresses critical nutrient cycles and important environmental and agricultural applications An excellent desk reference and useful tool for certified professional soil scientists environmental scientists and others that effect environmental policy such as soil erosion and maintenance specialists

**Ground-Water Microbiology and Geochemistry** Frank Chapelle, 1993-02-03 The difficult struggle to protect our valuable ground water resources necessarily involves scientists and engineers from many disciplines To prevail in this effort these practitioners including microbiologists hydrogeologists geoscientists and environmental engineers must have a common understanding of essential ground water quality issues and problems That includes a basic grasp of how microorganisms and microbial processes affect the chemistry of ground water in both pristine and chemically stressed aquifer systems Ground Water Microbiology and Geochemistry marks the first attempt 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 To bring these diverse practitioners together the book has been organized in three parts with each section addressing the information needs of specific disciplines The first six chapters of Ground Water Microbiology and Geochemistry provide an overview of microbiology that s geared to geoscientists who may lack formal training in the field Here the book systematically covers the kinds of microorganisms found in subsurface environments focusing on their growth metabolism genetics and ecology The second part of the book which covers four chapters speaks both to geoscientists and to microbiologists It offers a hydrologic perspective on how microbial processes affect groundwater geochemistry in pristine systems an important topic for geochemists since most ground water reservoirs have not been chemically affected by human activities and naturally occurring microbial processes have major impacts on water quality At the same time Part Two introduces microbiologists to the different classes of ground water systems and gives an overview of techniques for sampling subsurface environments In addition microbiologists gain an understanding of biogeochemical cycling in ground water systems in coverage that s unique to this book and of the classic geochemical modeling techniques that are used to study microbial processes The final three chapters of Ground Water Microbiology and Geochemistry focus in on microbial processes in contaminated ground water systems a topic of central concern to environmental scientists In this concluding section microbiologists see how degradation processes depend upon the hydrologic and geochemical environments within which they operate Having achieved a basic knowledge of microbiological

and biochemical concepts from the earlier chapters geoscientists are fully prepared for this treatment of microbial acclimation and the biodegradation of petroleum hydrocarbons and halogenated compounds Ground Water Microbiology and Geochemistry is as graphically impressive as it is far reaching High quality computer generated illustrations of particular appeal to visually oriented geoscientists can be found throughout the book Equally important is the book s unusually comprehensive bibliography which like the text itself spans the relevant science and engineering disciplines The importance of Ground Water Microbiology and Geochemistry to geoscientists hydrologists and environmental scientists has been amply documented The book should also be required reading for water planners and lawyers involved in environmental issues It will also serve as a compelling text in upper undergraduate and graduate courses in ground water chemistry

*Medical and Health Care Books and Serials in Print* ,1986      *Plankton Ecology in a Desert Saline Lake with Emphasis on Diazotrophic Cyanobacteria* Cathryn Lawrence Rhodes,1995

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