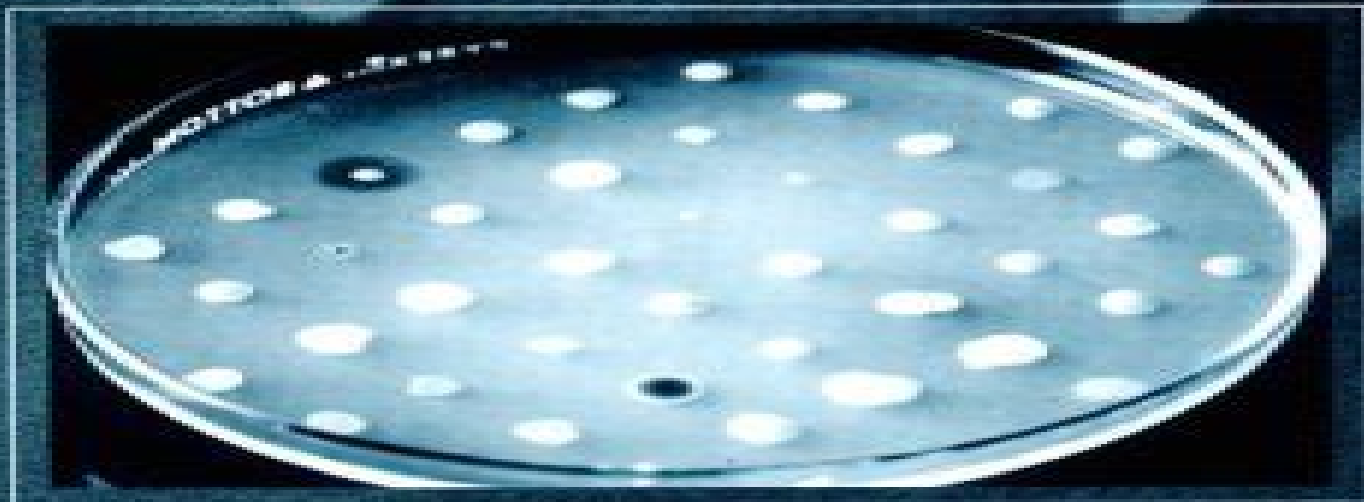


The Microbiology of the Terrestrial Deep Subsurface



Edited by
Penny S. Amy
Dana L. Haldeman

Microbiology Of The Terrestrial Deep Subsurface

Henry Lutz Ehrlich



Microbiology Of The Terrestrial Deep Subsurface:

Microbiology of the Terrestrial Deep Subsurface Penny S. Amy, 2018-01-10 Obtaining and analyzing samples is challenging in subsurface science This first of its kind reference book addresses accomplishments in this field from drilling to sample work up A collaborative approach is taken involving the efforts of microbiologists geochemists hydrologists and drilling and mining experts to present a comprehensive view of subsurface research The text provides practical information about obtaining analyzing and evaluating subsurface materials the current status of subsurface microbial ecology and describes several applications that will interest a variety of readers including engineers physical and life scientists

Geomicrobes: Life in Terrestrial Deep Subsurface Malin Bomberg, Lasse Ahonen, 2017-07-17 The deep subsurface is in addition to space one of the last unknown frontiers to human kind A significant part of life on Earth resides in the deep subsurface hiding great potential of microbial life of which we know only little The conditions in the deep terrestrial subsurface are thought to resemble those of early Earth which makes this environment an analog for studying early life in addition to possible extraterrestrial life in ultra extreme conditions Early microorganisms played a great role in shaping the conditions on the young Earth Even today deep subsurface microorganisms interact with their geological environment transforming the conditions in the groundwater and on rock surfaces Essential elements for life are richly present but in difficultly accessible form The elements driving the microbial deep life is still not completely identified Most of the microorganisms detected by novel molecular techniques still lack cultured representatives Nevertheless using modern sequencing techniques and bioinformatics the functional roles of these microorganisms are being revealed We are starting to see the differences and similarities between the life in the deep subsurface and surface domains We may even begin to see the function of evolution by comparing deep life to life closer to the surface of Earth Deep life consists of organisms from all known domains of life This Research Topic reveals some of the rich diversity and functional properties of the great biomass residing in the deep dark subsurface *Manual of Environmental Microbiology* Christon J. Hurst, Ronald L. Crawford, Jay L. Garland, David A. Lipson, 2007-05-14 The most definitive manual of microbes in air water and soil and their impact on human health and welfare Incorporates a summary of the latest methodology used to study the activity and fate of microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments Features a section on biotransformation and biodegradation Serves as an indispensable reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology [The Spatial Distribution of Microbes in the Environment](#) Rima Franklin, Aaron Mills, 2007-09-04 In my first microbiology class in 1968 Richard Wodzinski opened his first lecture with Wodzinski's Laws of Bacteriology Those laws were 1 Bacteria are very very small 2 Bacteria are our friends and 3 Bacteria always have the last word These simple statements motivated a career of curiosity and started me on a wild ride of

discovery with my miniscule colleagues The realization that an entity so tiny could mediate critical ecological processes observed across scales of kilometers begs for an explanation of how populations and communities are distributed within those large spaces How big is a microbial community Where does one stop and another start Are there rules of organization of the communities into spatially discrete patches and can those patches be correlated with observed processes and process rates Over the years I have added what I tell my classes are Mills Corollaries to Wodzinski's Laws With respect to the topic of this volume the corollaries to the first law are 1a But there are a whole lot of them and 1b They can grow very very fast Again distribution in space and time is a central theme and it has motivated much of my effort over the last 30 years

Systems Biogeochemistry of Major Marine Biomes Aninda Mazumdar, Wriddhiman Ghosh, 2022-04-01 Systems Biogeochemistry of Major Marine Biomes A comprehensive system level discussion of the geomicrobiology of the Earth's oceans In Systems Biogeochemistry of Major Marine Biomes a team of distinguished researchers delivers a systemic overview of biogeochemistry across a number of major physiographies of the global ocean the waters and sediments overlying continental margins the deep sub surfaces the Arctic and Antarctic oceans and the physicochemical extremes such as the hypersaline and sulfidic marine zones cold methane seeps and hydrothermal ecosystems The book explores state of the art advances in marine geomicrobiology and investigates the drivers of biogeochemical processes It highlights the imperatives of the unique fringe and cryptic processes while studying the geological manifestations and ecological feedbacks of in situ microbial metabolisms Taking a holistic approach toward the understanding of marine biogeochemical provinces this book emphasizes the centrality of culture dependent and culture independent meta-omics based microbiological information within a systems biogeochemistry framework Perfect for researchers and scientists in the fields of geochemistry geophysics geomicrobiology oceanography and marine science Systems Biogeochemistry of Major Marine Biomes will also earn a place in the libraries of policymakers and advanced graduate students seeking a one stop reference on marine biogeochemistry

Environmental Microbiology Ian Pepper, Charles P. Gerba, Terry Gentry, 2014-03-01 Designed for advanced undergraduate students graduate students and environmental professionals this book builds upon the tremendous success of the previous editions with a comprehensive and up to date discussion of environmental microbiology as a discipline that has greatly expanded in scope and interest over the past several decades From terrestrial and aquatic ecosystems to urban and indoor environments this edition relates environmental microbiology to a variety of life science ecology and environmental science topics including biogeochemical cycling bioremediation environmental transmission of pathogens microbial risk assessment and drinking water treatment and reuse The final chapter highlights several emerging issues including microbial remediation of marine oil spills microbial contributions to global warming impact of climate change on microbial infectious disease and the development of antibiotic resistant bacteria Presents state of the art research results with key recent references to document information Emphasizes critical information using Information Boxes throughout Includes real world

case studies to illustrate concepts along with frequent use of graphics cartoons and photographs Offers questions at the end of each chapter designed to test key concepts Lecture slides available for instructors online Geomicrobiology, Fourth Edition, Henry Lutz Ehrlich, 2002-04-12 Maintaining the qualities that sent previous editions into multiple printings this edition continues to explore the role that microbes have played in specific geological processes The author discusses acidophilic iron oxidizing bacteria acidophilic iron and metal sulfide oxidation and the geomicrobiology of bauxites He covers geomicrobial methods mineral formation and transformation biodegradation or transformation of organics and inorganics carbonates silicates phosphates metal oxides and metal sulfides and practical applications of geomicrobial processes The book includes end of chapter summaries 2800 up to date literature citations and a glossary **Their World: A Diversity of Microbial Environments** Christon J. Hurst, 2016-05-02 This volume summarizes recent advances in environmental microbiology by providing fascinating insights into the diversity of microbial life that exists on our planet The first two chapters present theoretical perspectives that help to consolidate our understanding of evolution as an adaptive process by which the niche and habitat of each species develop in a manner that interconnects individual components of an ecosystem This results in communities that function by simultaneously coordinating their metabolic and physiologic actions The third contribution addresses the fossil record of microorganisms and the subsequent chapters then introduce the microbial life that currently exists in various terrestrial and aquatic ecosystems Coverage of the geosphere addresses endolithic organisms life in caves and the deep continental biosphere including how subsurface microbial life may impact spent nuclear fuel repositories The discussion of the hydrosphere includes hypersaline environments and arctic food chains By better understanding examples from the micro biosphere we can elucidate the many ways in which the niches of different species both large and small interconnect within the overlapping habitats of this world which is governed by its microorganisms

Types and Properties of Water - Volume II Martin Gaykovich Khublaryan, 2009-06-30 Types and Properties of Water in two volumes is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes deal with different parts of the hydrosphere and features of water as substance in its three phases Natural water is one of the most important substances for the maintenance of life on our planet The main part of the Earth's water is concentrated in the hydrosphere oceans lakes streams underground water and in the cryosphere all the snow and ice The atmosphere and living organisms also contain water but in minor quantities as compared to the whole hydrosphere Several types of water are in the Nature atmospheric water water in oceans seas coastal zones and estuaries in rivers reservoirs lakes and wetlands groundwater including soil waters glaciers icebergs and ground ice permafrost This set of volumes is designed to be a very authoritative reference for state of the art knowledge on the various aspects such as Characteristics of Water and Water Bodies in the Natural Environment Properties of Atmospheric Water Properties of Oceans Inland Seas

Coastal Zones and Estuaries Properties of Rivers Streams Lakes and Wetlands Properties of Soil Water and Groundwater Properties Of Glacial Iceberg And Permafrost Water These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs Alireza Bahadori, 2018-08-18 Fundamentals of Enhanced Oil and Gas Recovery from Conventional and Unconventional Reservoirs delivers the proper foundation on all types of currently utilized and upcoming enhanced oil recovery including methods used in emerging unconventional reservoirs Going beyond traditional secondary methods this reference includes advanced water based EOR methods which are becoming more popular due to CO₂ injection methods used in EOR and methods specific to target shale oil and gas activity Rounding out with a chapter devoted to optimizing the application and economy of EOR methods the book brings reservoir and petroleum engineers up to speed on the latest studies to apply Enhanced oil recovery continues to grow in technology and with ongoing unconventional reservoir activity underway enhanced oil recovery methods of many kinds will continue to gain in studies and scientific advancements Reservoir engineers currently have multiple outlets to gain knowledge and are in need of one product go to reference Explains enhanced oil recovery methods focusing specifically on those used for unconventional reservoirs Includes real world case studies and examples to further illustrate points Creates a practical and theoretical foundation with multiple contributors from various backgrounds Includes a full range of the latest and future methods for enhanced oil recovery including chemical waterflooding CO₂ injection and thermal

The Earth's Biosphere Vaclav Smil, 2003-08-11 A comprehensive overview of Earth's biosphere written with scientific rigor and essay like flair In his latest book Vaclav Smil tells the story of the Earth's biosphere from its origins to its near and long term future He explains the workings of its parts and what is known about their interactions With essay like flair he examines the biosphere's physics chemistry biology geology oceanography energy climatology and ecology as well as the changes caused by human activity He provides both the basics of the story and surprising asides illustrating critical but often neglected aspects of biospheric complexity Smil begins with a history of the modern idea of the biosphere focusing on the development of the concept by Russian scientist Vladimir Vernadsky He explores the probability of life elsewhere in the universe life's evolution and metabolism and the biosphere's extent mass productivity and grand scale organization Smil offers fresh approaches to such well known phenomena as solar radiation and plate tectonics and introduces lesser known topics such as the quarter power scaling of animal and plant metabolism across body sizes and metabolic pathways He also examines two sets of fundamental relationships that have profoundly influenced the evolution of life and the persistence of the biosphere symbiosis and the role of life's complexity as a determinant of biomass productivity and resilience And he voices concern about the future course of human caused global environmental change which could compromise the biosphere's integrity and threaten the survival of modern civilization

Advances in Terrestrial and Extraterrestrial Drilling: Yoseph Bar-Cohen, Kris Zacny, 2021-08-26 This two volume set includes the latest principles behind the processes of drilling and excavation on Earth and other planets It covers the categories of drills the history of drilling and excavation various drilling techniques and associated issues rock coring acquisition damage control caching and transport restoration of in situ conditions and data interpretation as well as unconsolidated soil drilling and borehole stability It describes the drilling process from basic science and associated process of breaking and penetrating various media and the required hardware and the process of excavation and analysis of the sampled media

Life beyond Earth Athena Coustenis, Thérèse Encrenaz, 2013-09-12 What is life and where can it exist What searches are being made to identify conditions for life on other worlds If extraterrestrial inhabited worlds are found how can we explore them In this book two leading astrophysicists provide an engaging account of where we stand in our quest for habitable environments in the Solar System and beyond Starting from basic concepts the narrative builds scientifically including more in depth material as boxed additions to the main text The authors recount fascinating recent discoveries from space missions and observations using ground based telescopes of possible life related artefacts in Martian meteorites extrasolar planets and subsurface oceans on Europa Titan and Enceladus They also provide a forward look to future missions This is an exciting informative read for anyone interested in the search for habitable and inhabited planets and an excellent primer for students in astrobiology habitability planetary science and astronomy

Microbial Diversity in the Genomic Era Surajit Das, Hirak Ranjan Dash, 2018-09-20 Microbial Diversity in the Genomic Era presents insights on the techniques used for microbial taxonomy and phylogeny along with their applications and respective pros and cons Though many advanced techniques for the identification of any unknown bacterium are available in the genomics era a far fewer number of the total microbial species have been discovered and identified to date The assessment of microbial taxonomy and biosystematics techniques discovered and practiced in the current genomics era with suitable recommendations is the prime focus of this book Discusses the techniques used for microbial taxonomy and phylogeny with their applications and respective pros and cons Reviews the evolving field of bacterial typing and the genomic technologies that enable comparative analysis of multiple genomes and the metagenomes of complex microbial environments Provides a uniform standard methodology for species designation

Tales From The Underground David Wolfe, 2009-04-28 There are over one billion organisms in a pinch of soil yet we know much more about deep space than about the universe below In Tales from the Underground Cornell ecologist David Wolfe takes us on a tour through current scientific knowledge of the subterranean world We follow the progress of discovery from Charles Darwin s experiments with earthworms to Lewis and Clark s first encounter with prairie dogs to the use of new genetic tools that are revealing an astonishingly rich ecosystem beneath our feet Wolfe plunges us deep into the earth s rocky crust where life may have begun a world devoid of oxygen and light but safe from asteroid bombardment Primitive microbes found there are turning our notion of the evolutionary tree of life on its head amazingly

they represent perhaps a full third of earth's genetic diversity As Wolfe explains creatures of the soil can work for us by providing important pharmaceuticals and recycling the essential elements of life or against us by spreading disease and contributing to global climate change The future of our species may well depend on how we manage our living soil resources Tales from the Underground will forever alter our appreciation of the natural world around and beneath us

Bioremediation J.J. Valdes, 2012-12-06 In the field of biosensors the previous focus has been almost entirely on medical diagnostics Here it is discussed in relation to bioremediation The application of new biosensing techniques to environmental monitoring promises to be a more economical approach to monitoring both soil consortia and levels of pollutants Significantly functional biosensors can determine such parameters as How clean is clean This new edition is targeted specifically at graduate students and environmental professionals

Uncertainty Underground Allison Macfarlane, Rodney C. Ewing, 2006 Experts from science industry and government discuss the unresolved scientific and technical issues surrounding the Yucca Mountain site as a geologic repository for high level nuclear waste

Ecological Distribution, Functional Diversity, and the Biogeochemical Cycle of Microorganisms in Karst Hongchen Jiang, Xiangyu Guan, Werner W. E. Müller, Qiang Li, 2023-09-06

Advances in Geophysics Barry Saltzman, 2000-10-17 This series provides a venue for longer reviews of current advances in geophysics Written at a level accessible to graduate students the articles serve to broaden knowledge of various fields and may be useful in courses and seminars

Earth and Life Processes Discovered from Subseafloor Environments, 2014-12-03 The Integrated Ocean Drilling Program IODP 2000 2013 has provided crucial records of past and present processes and interactions within and between the biosphere cryosphere atmosphere hydrosphere and geosphere Research in IODP encompasses a wide range of fundamental and applied issues that affect society such as global climate change biodiversity the origin of life natural hazards involving the study of earthquakes processes and the internal structure and dynamics of our planet This compilation of major findings from the 2003 2013 14 phase of IODP focusing on scientific results rather than description of data acquisition and early inferences provides invaluable information Anyone wondering what scientific drilling can achieve will gain quick understanding of the range of questions that are uniquely addressed with this methodology and the ways these data dovetail with other regional information The excitement of breakthrough findings that occasionally accompanies a drilling project will be evident IODP obtained unique records from the global ocean basins during the 2003 2013 program phase This book highlights findings in three theme areas Subseafloor life and the marine biosphere Earth's changing environments and Dynamics of the solid Earth Each core or borehole log provides a window revealing insights that no other data achieve Presents syntheses of key results from the Integrated Ocean Drilling Program Encompasses a wide range of issues that affect society Describes the Integrated Ocean Drilling Program and its expeditions

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