# Microbiology and Biogeochemistry of HYPERSALINE ENVIRONMENTS



AHARON OREN

# <u>Microbiology And Biogeochemistry Of Hypersaline</u> <u>Environments</u>

Steven Lane Percival, James Taggari Walker, Paul R. Hunter

#### Microbiology And Biogeochemistry Of Hypersaline Environments:

**Hypersaline Environments** Barbara J. Javor,2012-12-06 Hypersaline environments are the principal habitats of petroleum deposition They are also of intense evolutionary and ecological interest This book presents a cross disciplinary examination of the variety of halophilic microorganisms and their roles in modifying the ecology and geochemistry of hypersaline environments The book also covers in detail the various inland and coastal habitats where halophilic microorganisms thrive Geographically hypersaline environments extend from the tropics to the poles and from the terrestrial to the submarine Organisms capable of living in such environments have faced unique evolutionary challenges

Microbiology and Biogeochemistry of Hypersaline Environments Aharon Oren, 1998-09-16 This book intended for researchers and students in the fields of microbiology biochemistry and biogeochemistry details the biology and biogeochemistry of various halophilic microorganisms that live in high density saline environments worldwide These organisms are especially important to biodegradation and hazardous site clean up Topics include the biochemistry genetics and molecular biology of these organisms new methods to type them and osmotic adaption *Hypersaline Environments* Barbara J Javor, 1989-05-19 HALOPHILIC BACTERIA Francisco Rodriguez-Valera, 1988 The Biology of Halophilic Bacteria Russell H. Vreeland, Lawrence I. Hochstein, 2020-08-18 A book for anyone interested in halophilic bacteria The Biology of Halophilic Bacteria presents detailed information regarding methods for working with halophilic bacteria Helpful hints for performing various tests and assays in high salts are given and information about data presentation and analysis is provided as well The book will be useful to molecular biologists biochemists ecologists and others interested in halophilic Journey to Diverse Microbial Worlds Joseph Seckbach, 2012-12-06 In this Journey to Microbial Worlds we bacteria present the diversity of microorganisms from the state of fossil microbes in Archaean age rocks to the possibilities of extraterrestrial life This volume discusses the extremophiles living in harsh environments from our anthropocentric point and describes them in considerable detail Some chapters also review topics such as symbiosis bacterial luminescence methanogens and petroleum grown cells The final chapters of this book shed new light on astrobiology and speculate on extremophiles as candidates for extraterrestrial life All chapters are updated to the latest research level Advances in Microbial Ecology J.G. Jones, 2013-06-29 This is the third volume of Advances in Microbial Ecology to be produced by the current editorial board I would therefore like to take this opportunity to thank my co editors for all their efforts particularly in maintaining a balance of subject matter and geographical distribution of the contributions Volume 15 is no exception in that we have a balance between the prokaryo tic and eukaryotic organisms and a range of subject matter from applied ecology through process ecology to ecological theory. The response from our readers has been encouraging in the sense that the breadth of coverage is much appreciated particularly by teachers and postgraduate postdoctoral researchers However we still strive to improve our coverage and particularly to move wider than the North America Europe axis for contributions

Similarly we would like to see coverage of the more unusual microbes perhaps a chapter devoted to the ecology of a particular species or genus There must exist many ecological notes on rarer organisms that have not found their way into the standard textbooks or taxonomic volumes properly compiled these could provide valuable information for the field ecologist Ecological theory has until recently been the domain of the macroecolo gist Recent advances in molecular techniques will ensure that the microbial ecologist will playa more significant role in the development of the subject We shall not therefore change our policy of encouraging our contributors to specu late permitting them sufficient space to develop their ideas

Halophilic Microorganisms and their Environments Aharon Oren, 2006-04-06 This water he told me runs out to the eastern region and flows into the Arabah and when it comes into the sea into the sea of foul waters i e the Dead Sea the water will become wholesome Every living creature that swarms will be able to live wherever this stream goes the fish will be very abundant once these waters have reached there It will be wholesome and everything will live wherever this stream goes Fishermen shall stand beside it all the way from En gedi to En eglaim it shall be a place for drying nets and the fish will be of various kinds and most plentiful like the fish of the Great Sea Ezekiel s prophecy Ezekiel 47 8 10 for revival and purification of the Dead Sea waters This new book on Halophilic Microorganisms and their Environments is the fifth volume in the COLE series Cellular Origin and Life in Extreme Habitats see http www wkap nl prod s COLE In the previous books we covered aspects of enigmatic microorganisms microbial diversity astrobiology and symbiosis so this book on halophilic microbes adds a fitting link to the rest of series books Since ancient times hypersaline habitats have been considered extreme environments and some were thought not to sustain life at all Yet every organism requires salt for its existence Salty places have been compared to an environment of extinction e g the Dead Sea Evolutionary Theory and Processes: Modern Perspectives Solomon P. Wasser, 2012-12-06 This volume consists of papers written by evolutionary molecular and organismal biologists geneticists ecologists behavioural ecologists morphologists mathematicians theoreticians and experimentalists in honour of Professor Eviatar Eibi Nevo on the occasion of his seventieth birthday The contributors are only a small subset of Eibi s many friends collaborators and students not that one can distinguish these categories among Eibi s colleagues His widespread influence and activity both in Israel and more generally as a leading evolutionary biologist is indicated by his many co authors on books and papers and by his many students integrated in teaching and research This volume presents some of the most recent dramatic results of molecular genomic and organismal evolutionary processes It represents analyses experiments observations reviews discussions and forecasts of evolutionary theory comprising both novel methods and results reanalyzed and reviewed data sets based on comparative experimental and theoretical studies utilizing model organisms across phylogeny including bacteria fungi plants animals and humans It elucidates the revolution in molecular biology that ushered in our understanding of the evolutionary process over time and space The topics discussed include major problems of evolutionary theory concerning origins phylogeny relative importance of evolutionary forces structure and

function adaptation and speciation in space and time in changing and stressful environments A major emerging generalization is the nonrandomness of genome structure highlighting the importance of natural selection as a major organizing evolutionary force not only at the phenotypic level but most importantly at the interlinked genotypic molecular level The integration between the molecular and organismal levels unifies life which is subjected to the mechanism of natural selection as a major orienting evolutionary force Halophilic Microorganisms Antonio Ventosa, 2013-11-21 Various groups of microorganisms bacteria archaea algae and even fungi have adapted to a life in a hypersaline environment Halophilic Microorganisms explores the many fold aspects of life under these extreme conditions Several contributions analyze the microbial communities in different hypersaline environments such as salterns soda lakes and the Dead Sea or salt sediments Reviews of their biodiversity phylogeny and genetics are given as well as of the diverse adaptation strategies of salt tolerant or salt requiring microorganisms Microorganisms that have adapted to moderate salt concentrations or to habitats with drastic fluctuations are also treated in addition to the extreme halophiles Their physiological biochemical and molecular mechanisms developed in response to salinity and high osmotic pressure as well as current and future biotechnological Algae and Cyanobacteria in Extreme Environments Joseph Seckbach, 2007-09-25 This applications are presented collection of essays is devoted to algae that are unexpectedly found in harsh habitats The authors explain how these algae thrive in various temperature ranges extreme pH values salt solutions UV radiation dryness heavy metals anaerobic niches various levels of illumination and hydrostatic pressure Not only do the essays provide clues about life on the edges of the Earth but possibly elsewhere in the universe as well Origins Joseph Seckbach, 2006-05-07 In this book forty eminent scientists examine the astrobiological origins of life and the emergence of biodiversity in extreme environments The coverage includes extremophiles microbes living in hostile conditions of high temperature psychrophilic UV radiation and halophilic environments Also discussed are the origin and history of Martian water and the possible biogeochemistry inside Titan

Adaptation to Life at High Salt Concentrations in Archaea, Bacteria, and Eukarya Nina Gunde-Cimerman, Aharon Oren, Ana Plemenitaš, 2005-12-28 Salt is an essential requirement of life Already from ancient times e g see the books of the Bible its importance in human life has been known For example salt symbolizes destruction as in Sodom and Gomorra but on the other hand it has been an ingredient of every sacrifice during the Holy Temple periods Microbial life in concentrated salt solutions has fascinated scientists since its discovery Recently there have been several international meetings and books devoted entirely to halophiles This book includes the proceedings of the Halophiles 2004 conference held in Ljubljana Slovenia in September 2004 www u lj si bfbhaloph index html This meeting was attended by 120 participants from 25 countries The editors have selected presentations given at the meeting for this volume and have also invited a number of contributions from experts who had not been present in Ljubljana This book complements Halophilic Microorganisms edited by A Ventosa and published by Springer Verlag 2004 Halophilic Microorganism and their Environments by A Oren 2002

published by Kluwer Academic Publishers as volume 5 of Cellular Origins Life in Extreme Habitats and Astrobiology COLE and Microbiology and Biogeochemistry of Hypersaline Environments edited by A Oren and published by CRC Press Boca Raton 1999 Salt loving halophilic microorganisms grow in salt solutions above seawater salinity 3 5% salt up to saturation ranges i e around 35% salt High concentrations of salt occur in natural environments e g Extremophiles Ravi V. Durvasula, D. V. Subba Rao, 2018-01-09 Highly recommended by CHOICE Oct 2018 Extremophiles are nature sultimate survivors thriving in environments ranging from the frozen Antarctic to abyssal hot hydrothermal vents Their lifeforms span bacteria to fishes and are categorized as halophiles from hypersaline environments acidophiles from acidic waters psychrophiles from cold habitats and thermophiles from warm waters Extremophiles From Biology to Biotechnology comprehensively covers the basic biology physiology habitats secondary metabolites for bioprospecting and biotechnology of these extreme survivors The chapters focus on the novel genetic and biochemical traits that lend these organisms to biotechnological applications Couples studies of marine extremophile biology genomics and extremophile culture for biotechnological applications with the latest advances in bio prospecting and bio product development Includes practical experiments that a laboratory can use to replicate extreme habitats for research purposes Presents latest advances in extremophile genomics to give the reader a better understanding of the regulatory mechanisms of extremophiles Offers insights into the production of commercially important extremozymes carotenoids bioactive compounds and secondary metabolites of medicinal value This unique guide serves as a resource for biotechnologists who wish to explore extremophiles for their commercial potential as well as a valuable reference for teaching undergraduate graduate and postgraduate Antibiotic Resistance Kateryna Kon, Mahendra Rai, 2016-06-14 Antibiotic Resistance Mechanisms and New students Antimicrobial Approaches discusses up to date knowledge in mechanisms of antibiotic resistance and all recent advances in fighting microbial resistance such as the applications of nanotechnology plant products bacteriophages marine products algae insect derived products and other alternative methods that can be applied to fight bacterial infections Understanding fundamental mechanisms of antibiotic resistance is a key step in the discovery of effective methods to cope with resistance This book also discusses methods used to fight antibiotic resistant infection based on a deep understanding of the mechanisms involved in the development of the resistance Discusses methods used to fight antibiotic resistant infection based on a deep understanding of mechanisms involved in the development of the resistance Provides information on modern methods used to fight antibiotic resistance Covers a wide range of alternative methods to fight bacterial resistance offering the most complete information available Discusses both newly emerging trends and traditionally applied methods to fight antibiotic resistant infections in light of recent scientific developments Offers the most up to date information in fighting antibiotic resistance Includes involvement of contributors all across the world presenting questions of interest to readers of both developed and developing countries Microbiological Aspects of Biofilms and Drinking Water Steven Lane

Percival, James Taggari Walker, Paul R. Hunter, 2000-05-23 The development of biofilms and their role in public health particularly drinking water is often overlooked Ideal for anyone interested in water related issues Microbiological Aspects of Biofilms and Drinking Water presents an overview of the public health effects associated with drinking water It highlights the microbiological aspects relat **Rifts and Passive Margins** Michal Nemčok, 2016-03-02 This is a comprehensive synthesis of state of the art information on vitally important hydrocarbon habitats for advanced geology students and researchers exploration geoscientists and petroleum managers Extremophiles as Astrobiological Models Joseph Seckbach, Helga Stan-Lotter, 2021-01-13 The data in this book are new or updated and will serve also as Origin of Life and evolutionary studies Endospores of bacteria have a long history of use as model organisms in astrobiology including survival in extreme environments and interplanetary transfer of life Numerous other bacteria as well as archaea lichens fungi algae and tiny animals tardigrades or water bears are now being investigated for their tolerance to extreme conditions in simulated or real space environments Experimental results from exposure studies on the International Space Station and space probes for up to 1 5 years are presented and discussed Suggestions for extaterrestrial energy sources are also indicated Audience Researchers and graduate students in microbiology biochemistry molecular biology and astrobiology as well as anyone interested in the search for extraterrestrial life and its technical preparations The Proceedings from Halophiles 2013, the International Congress on Halophilic Microorganisms R. Thane Papke, Aharon Oren, Antonio Ventosa, Jesse Dillon, 2015-07-08 The Halophiles 2013 meeting is a multidisciplinary international congress with a strong history of regular triennial meetings since 1978 Our mission is to bring researchers from a wide diversity of investigation interests e g protein and species evolution niche adaptation ecology taxonomy genomics metagenomics horizontal gene transfer gene regulation DNA replication repair and recombination signal transduction community assembly and species distribution astrobiology biotechnological applications adaptation to radiation desiccation osmotic stress into a single forum for the integration and synthesis of ideas and data from all three domains of life and their viruses yet from a single environment salt concentrations greater than seawater This cross section of research informs our understanding of the microbiological world in many ways The halophilic environment is extreme especially above 10% NaCl restricting life solely to microbes The microorganisms that live there are adapted to extreme conditions and are notable for their ability to survive high doses of radiation and desiccation Therefore the hypersaline environment is a model system both the abiotic and biologic factors for insightful understanding regarding conditions and life in the absence of plant and animals e g life on the early earth and other solar system bodies like Mars and Europa Lower salinity conditions e g 6 10% NaCl form luxuriant microbial mats considered modern analogues of fossilized stromatolites which are enormous microbially produced structures fashioned during the Precambrian and still seen today in places like Shark's Bay Australia Hypersaline systems are island like habitats spread patchily across the earth's surface and similar to the Galapagos Islands represent unique systems excellent for studying the

evolutionary pressures that shape microbial community assembly adaptation and speciation The unique adaptations to this extreme environment produce valuable proteins enzymes and other molecules capable of remediating harsh human instigated environments and are useful for the production of biofuels vitamins and retinal implants for example This research topic is intended to capture the breadth and depth of these topics **Biological and Environmental Chemistry of DMSP and Related Sulfonium Compounds** M.D. Keller,R.P. Kiene,G.O. Kirst,P.T. Visscher,2012-12-06 An essential book for people working in the area of sulfur compounds in the environment and should be in all institutional libraries Well indexed well presented SGM Quarterly November 1997 Extremely useful and well produced symposium volume that should be of interest to many environmental scientists microbial and plant physiologists and aquatic ecologists The Quarterly Review of Biology June 1998

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