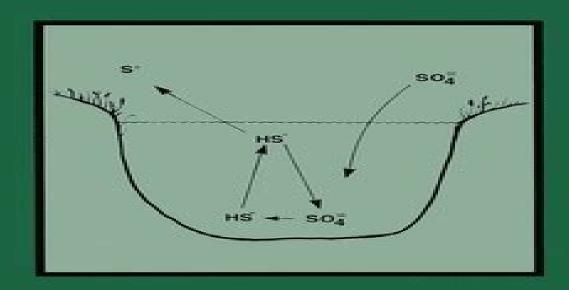
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The Sulfate-Reducing Bacteria: Contemporary Perspectives



The Sulfate Reducing Bacteria Contemporary Perspectives

Larry L. Barton, W. Allan Hamilton

The Sulfate Reducing Bacteria Contemporary Perspectives:

The Sulfate-Reducing Bacteria: Contemporary Perspectives J.M. Odom, Rivers Jr. Singleton, 2013-11-11 Sulfate reducing bacteria comprise a diverse and ecologically interactive group of anaerobic prokaryotes which share an extraordinary trait growth by sulfate respiration with hydrogen sulfide as a major end product Sulfate reducers are found in diverse environments ranging from estuaries to geological oil bearing formations They have attracted considerable scientific and commercial interest These organisms have been actively investigated by researchers in microbial energetics protein chemistry ecology and more recently molecular biology. This interest has increased greatly over the past decade and this volume presents the first book length summary of our knowledge of sulfate reducing bacteria in nearly 10 years Featuring an introduction by the eminent microbiologist John Postgate and comprehensive reviews from recognized authorities this book will be of interest to microbiologists with interests in physiology evolution and ecology The Sulfate-Reducing Bacteria: Contemporary Perspectives James Odom, Rivers Jr. Singleton, 1992-12-11 Sulfate reducing bacteria comprise a diverse and ecologically interactive group of anaerobic prokaryotes which share an extraordinary trait growth by sulfate respiration with hydrogen sulfide as a major end product Sulfate reducers are found in diverse environments ranging from estuaries to geological oil bearing formations They have attracted considerable scientific and commercial interest These organisms have been actively investigated by researchers in microbial energetics protein chemistry ecology and more recently molecular biology This interest has increased greatly over the past decade and this volume presents the first book length summary of our knowledge of sulfate reducing bacteria in nearly 10 years Featuring an introduction by the eminent microbiologist John Postgate and comprehensive reviews from recognized authorities this book will be of interest to microbiologists with interests in physiology evolution and ecology The Prokaryotes Stanley Falkow, Eugene Rosenberg, Karl-Heinz Schleifer, Erko Stackebrandt, 2006-07-13 The revised Third Edition of The Prokaryotes acclaimed as a classic reference in the field offers new and updated articles by experts from around the world on taxa of relevance to medicine ecology and industry Entries combine phylogenetic and systematic data with insights into genetics physiology and application Existing entries have been revised to incorporate rapid progress and technological innovation. The new edition improves on the lucid presentation logical layout and abundance of illustrations that readers rely on adding color illustration throughout Expanded to seven volumes in its print form the new edition adds a new searchable online version Microbiologically Influenced **Corrosion** Reza Javaherdashti, 2008-02-20 Microbiologically influenced corrosion MIC is one of the greatest mysteries of corrosion science and engineering This book introduces a new approach to the basics of MIC and explains how to recognise understand mitigate and or prevent this type of corrosion The material covered will benefit professional and consultant engineers in power generating oil and gas and marine and mining industries It will also benefit researchers in a variety of fields Sulfate-Reducing Bacteria and Archaea Larry L. Barton, Guy D. Fauque, 2022-05-17 The abundance of sulfate

reducing bacteria and archaea SRBA is impressive and new isolates are being reported continuously A few decades ago only two genera of sulfate reducing bacteria SRB had been identified As of 2018 92 genera containing more than 420 species of SRB have been isolated and characterized and there are several species of archaea This book addresses the development of the research with SRBA and includes historical background of this field Biochemical characterization of the enzymes cytochromes and electron carriers involved with dissimilatory sulfate reduction are reviewed and the presence of relevant genes in cultured and uncultured SRBA are assessed using genome analysis The contributions of transmembrane electron transport complexes as related to cell energetics are discussed This book highlights the unique cellular and molecular features of the SRBA and discusses the biochemical interactions behind their metabolic capabilities which enable SRBA to grow in extreme environments Examples are provided to detoxify and alleviate pollution situations to evaluate mechanisms proposed for corrosion of ferrous metals and to examine the effects of SRB on human and animal hosts

Sulphate-Reducing Bacteria Larry L. Barton, W. Allan Hamilton, 2007-05-31 The sulphate reducing bacteria SRB are a large group of anaerobic organisms that play an important role in many biogeochemical processes Not only are they of early origins in the development of the biosphere but their mechanisms of energy metabolism shed light on the limits of life processes in the absence of oxygen They are widely distributed in nature and are regular components of engineered systems including for example petroleum reservoirs and oil production facilities SRB are currently subject to extensive genomic studies which are yielding fresh understanding of their basic biochemical mechanisms and aiding in the development of novel techniques for the analyses of their environmental roles This volume provides a timely update on these important microorganisms from basic science to applications and will therefore serve as a valuable resource for researchers and graduate students in the fields of microbial ecology microbial physiology bioengineering biogeochemistry and related areas of environmental science Sulfate-Reducing Bacteria Larry L. Barton, 2013-06-29 In this well illustrated reference contributors summarize current research on sulfate reducing bacteria and examine their relationship to biotechnology processes This approach enables researchers to identify and define appropriate questions for future research Chapters examine the biochemical and physiological characteristics of sulfate reducing eubacteria and archaebacteria and review environmental and industrial activities of these bacteria This volume features the first review on bioremediation by sulfate reducing bacteria Sulfate-Reducing Bacteria Larry Barton, 1995-05-31 In this well illustrated reference contributors summarize current research on sulfate reducing bacteria and examine their relationship to biotechnology processes This approach enables researchers to identify and define appropriate questions for future research Chapters examine the biochemical and physiological characteristics of sulfate reducing eubacteria and archaebacteria and review environmental and industrial activities of these bacteria This volume features the first review on bioremediation by sulfate reducing bacteria Combined Application of Physico-Chemical & Microbiological Processes for Industrial Effluent Treatment Plant Maulin

Shah, Aditi Banerjee, 2020-03-30 In recent decades scientific insight into the chemistry of water has increased enormously leading to the development of advanced wastewater and water purification technologies However the quality of freshwater resources has continually deteriorated worldwide both in industrialized and developing countries Although traditional wastewater technologies focus on the removal of suspended solids nutrients and bacteria hundreds of organic pollutants occur in wastewater and urban surface waters These new pollutants are synthetic or naturally occurring chemicals that are not often monitored in the environment but have the potential to enter the environment and cause known or suspected adverse ecological and or human health effects Collectively referred to as the emerging contaminants they are mostly derived from domestic use and occur in trace concentrations ranging from pico to micrograms per liter Environmental contaminants are resistant to conventional wastewater treatment processes and most of them remain unaffected leading to the contamination of the receiving water As such there is a need for advanced wastewater treatment process that is capable of removing environmental contaminants to ensure safe fresh water supplies This book explains the biological and chemical wastewater treatment technologies The biological wastewater treatment processes presented include 1 bioremediation of wastewater such as aerobic and anaerobic treatment 2 phytoremediation of wastewater using engineered wetlands rhizofiltration rhizodegradation phytodegradation phytoaccumulation phytotransformation and hyperaccumulators and 3 mycoremediation of wastewater The chemical wastewater treatment processes discussed include chemical precipitation ion exchange neutralization adsorption and disinfection In addition the book describes wastewater treatment plants in terms of plant size layout and design as well as installation location Also presenting the latest innovative effluent water treatment processes it is a valuable resource for biochemical and wastewater treatment engineers environmental scientists and environmental microbiologists Biological Wastewater Treatment: Principles, Modeling and Design Guang-Hao Chen, Mark C.M. van Loosdrecht, G.A. Ekama, Damir Brdjanovic, 2020-07-15 The first edition of this book was published in 2008 and it went on to become IWA Publishing's bestseller Clearly there was a need for it because over the twenty years prior to 2008 the knowledge and understanding of wastewater treatment had advanced extensively and moved away from empirically based approaches to a fundamental first principles approach based on chemistry microbiology physical and bioprocess engineering mathematics and modelling However the quantity complexity and diversity of these new developments was overwhelming for young water professionals particularly in developing countries without readily available access to advanced level tertiary education courses in wastewater treatment For a whole new generation of young scientists and engineers entering the wastewater treatment profession this book assembled and integrated the postgraduate course material of a dozen or so professors from research groups around the world who have made significant contributions to the advances in wastewater treatment This material had matured to the degree that it had been codified into mathematical models for simulation with computers The first edition of the book offered that upon completion of an in depth study of its contents the

modern approach of modelling and simulation in wastewater treatment plant design and operation could be embraced with deeper insight advanced knowledge and greater confidence be it activated sludge biological nitrogen and phosphorus removal secondary settling tanks or biofilm systems However the advances and developments in wastewater treatment have accelerated over the past 12 years since publication of the first edition While all the chapters of the first edition have been updated to accommodate these advances and developments some such as granular sludge membrane bioreactors sulphur conversion based bioprocesses and biofilm reactors which were new in 2008 have matured into new industry approaches and are also now included in this second edition The target readership of this second edition remains the young water professionals who will still be active in the field of protecting our precious water resources long after the aging professors who are leading some of these advances have retired The authors all still active in the field are aware that cleaning dirty water has become more complex but that it is even more urgent now than 12 years ago and offer this second edition to help the young water professionals engage with the scientific and bioprocess engineering principles of wastewater treatment science and technology with deeper insight advanced knowledge and greater confidence built on stronger competence

Structural and Functional Relationships in Prokaryotes Larry Barton, 2005 This new textbook on bacterial physiology is aimed at senior level students pursuing a one semester course in the biology or microbiology curriculum. The text takes a balanced view of prokaryotic physiology discussing both bioenergetics and bacterial metabolism in a way that establishes general principles and concepts and emphasizes throughout the information gained from model systems The book also covers some experimental design issues giving students an appreciation of the practical aspects and consequences of bacterial metabolism It also stimulates students interests in future developments in the field by including discussions by five world famous bacterial physiologists about future developments in the field **Proceedings of the 50th Industrial Waste** Conference May 8, 9, 10, 1995 Purdue Research Foun, 1997-05-01 Proceedings of the 50th Industrial Waste Conference is the only comprehensive documentation of the entire seminar It is an overview of the current state of hazardous waste identification management and disposal Experimental Methods in Wastewater Treatment Mark C. M. van Loosdrecht, Per Halkjaer Nielsen, C. M. Lopez-Vazquez, Damir Brdjanovic, 2016-05-15 Over the past twenty years the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based approaches to a fundamentally based first principles approach embracing chemistry microbiology and physical and bioprocess engineering often involving experimental laboratory work and techniques Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice For sector professionals especially a new generation of young scientists and engineers entering the wastewater treatment profession the quantity complexity and diversity of these new developments can be overwhelming particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available In addition

information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines This book seeks to address these deficiencies It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world Experimental Methods in Wastewater Treatment forms part of the internet based curriculum in wastewater treatment at UNESCO IHE and as such may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do The book is written for undergraduate and postgraduate students researchers laboratory staff plant operators consultants and other sector professionals Recent Advances in Marine Biotechnology, Vol. 8 Milton Fingerman, 2003-01-01 This book discusses petroleum spill bioremediation the use of spectroscopy to identify microbial metabolic pathways the detoxification of mercury by using recombinant mercury resistant bacteria and the use of manganese oxidizing bacteria for bioremediation **Comprehensive Biotechnology**, 2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews. This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science The microbial sulfur cycle Martin G. Klotz, Donald A. Bryant, Thomas A. Hanson, 2011-12-01 Sulfur is the tenth most abundant element in the universe and the sixth most abundant element in microbial biomass By virtue of its chemical properties particularly the wide range of stable redox states sulfur plays a critical role in central biochemistry as a structural element redox center and carbon carrier In addition redox reactions involving reduced and oxidized inorganic sulfur compounds can be utilized by microbes for the generation and conservation of biochemical energy Microbial transformation of both inorganic and organic sulfur compounds has had a profound effect on the properties of the biosphere and continues to affect geochemistry today For these reasons we present here a collection of articles from the leading edge of the field of sulfur microbiology focusing on reactions and compounds of geochemical significance **Advances in Microbial Physiology** ,2019-05-22 Advances in Microbial Physiology Volume 74 the latest release in this ongoing series continues the long tradition of topical important cutting edge reviews in microbiology The book contains updates in the field with comprehensive chapters covering The electrifying physiology of Geobacter bacteria 30 years on Adaptive morphogenesis in bacteria Bacterial energetics and respiratory metabolism Bacteria respiration during infection Regulation of Organohalide Respiration Bioenergetics of Campylobacter jejuni Formate Hydrogenlyases Bioenergetical Aspects of the Bacterial and Archaeal

Hydrogen Metabolism and more Contains contributions from leading authorities in microbial physiology Informs and updates on all the latest developments in the field of microbial physiology Treatise on Geochemistry ,2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition. The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 Biochemistry and Physiology of Anaerobic Bacteria Lars G. Ljungdahl, Michael W. volumes including index volume Adams, Larry L. Barton, James G. Ferry, Michael K. Johnson, 2007-05-08 During the past twenty years multitudes of exciting discoveries in the field of anaerobic bacteria have been made Biochemistry and Physiology of Anaerobic Bacteria explores the full range of these microorganisms Many anaerobes have been found to have the uniquely fascinating quality of being able to survive indeed even thrive in extreme environments Anaerobic bacteria often do not require oxygen can survive extremes in temperature and can withstand the presence of toxins and heavy metals In addition these organisms have very different metabolic processes than conventional microorganisms. The wide diversity of metabolism in anaerobes is only part of the story They have distinct energies cytochromes electron transport proteins hydrogenases and dehydrogenases Their molecular biology physiology and ability to use many types of electron receptors CO2 sulfur nitrogen and metal oxides are also extraordinary With practical applications ranging from wastewater treatment to food storage issues clinical diagnosis and treatment of a wide range of medical conditions to decontamination of heavy metal exposures Biochemistry and Physiology of Anaerobic Bacteria will prove indispensable to researchers and students alike Biogeochemistry W.H. Schlesinger, 2005-06-08 The Treatise on Geochemistry is the first work providing a comprehensive integrated summary of the present state of geochemistry It deals with all the major subjects in the field ranging from the chemistry of the solar system

to environmental geochemistry The Treatise on Geochemistry has drawn on the expertise of outstanding scientists throughout the world creating the reference work in geochemistry for the next decade Each volume consists of fifteen to twenty five chapters written by recognized authorities in their fields and chosen by the Volume Editors in consultation with the Executive Editors Particular emphasis has been placed on integrating the subject matter of the individual chapters and volumes Elsevier also offers the Treatise on Geochemistry in electronic format via the online platform ScienceDirect the most comprehensive database of academic research on the Internet today enhanced by a suite of sophisticated linking searching and retrieval tools

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