

MICROBIOLOGY MONOGRAPHS

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Complex Intracellular Structures in Prokaryotes



Springer

Complex Intracellular Structures In Prokaryotes Microbiology Monographs

Dietrich H. Nies, Simon Silver



Complex Intracellular Structures In Prokaryotes Microbiology Monographs:

Complex Intracellular Structures in Prokaryotes Jessup M. Shively, 2006-08-16 The new series Microbiology Monographs begins with two volumes on intracellular components in prokaryotes In this second volume Complex Intracellular Structures in Prokaryotes the components labeled complex intracellular structures encompass a multitude of important cellular functions Continuing and newly initiated research will provide a clearer understanding of the complex intracellular structures known at present and will bring to light surprising new ones as well

Encyclopedia of Microbiology, 2009-01-14 Available as an exclusive product with a limited print run Encyclopedia of Microbiology 3e is a comprehensive survey of microbiology edited by world class researchers Each article is written by an expert in that specific domain and includes a glossary list of abbreviations defining statement introduction further reading and cross references to other related encyclopedia articles Written at a level suitable for university undergraduates the breadth and depth of coverage will appeal beyond undergraduates to professionals and academics in related fields 16 separate areas of microbiology covered for breadth and depth of content Extensive use of figures tables and color illustrations and photographs Language is accessible for undergraduates depth appropriate for scientists Links to original journal articles via Crossref 30% NEW articles and 4 color throughout NEW

Recent Advances in Phototrophic Prokaryotes Patrick C. Hallenbeck, 2010-06-08 ISPP2009 the 13th International Symposium on Phototrophic Prokaryotes was held in Montreal Canada from August 9 to August 14 This was only the second time that the ISPP series was in North America ISPP2009 was well attended with about 280 registered participants from over 30 countries A stimulating and informative program showcased the recent developments in this ever evolving field This is always one of my favourite conference series to attend because not only does it inform my specific research passions it broadly educates me in ways that improve my teaching and increase my breadth of understanding in a variety of outside areas Indeed the ISPP series brings together a broad spectrum of interests techniques and disciplines Both established researchers and newcomers to this field gave oral presentations in a large number 80 of plenary and parallel symposia sessions which proved to have active audience participation and lively discussions A large number of excellent poster presentations supplemented the oral program I think that the high quality of the scientific presentations as well as the enjoyable social events was widely appreciated Things ran very smoothly from the original registration to the closing ceremony thanks to Isabel Stengler and her team at IS Event Solutions

Advances in Microbial Physiology, 2012-09-01 Advances in Microbial Physiology is one of the most successful and prestigious series from Academic Press an imprint of Elsevier It publishes topical and important reviews interpreting physiology to include all material that contributes to our understanding of how microorganisms and their component parts work First published in 1967 it is now in its 60th volume The Editors have always striven to interpret microbial physiology in the broadest context and have never restricted the contents to traditional views of whole cell physiology Now edited by Professor Robert Poole University of Sheffield Advances

in Microbial Physiology continues to be an influential and very well reviewed series Contributions from leading authorities
Informs and updates on all the latest developments in the field **Handbook of Photosynthesis** Mohammad

Pessarakli,2016-04-06 Since the publication of the previous editions of the Handbook of Photosynthesis many new ideas on photosynthesis have emerged in the past decade that have drawn the attention of experts and researchers on the subject as well as interest from individuals in other disciplines Updated to include 37 original chapters and making extensive revisions to the chapters that have been retained 90% of the material in this edition is entirely new With contributions from over 100 authors from around the globe this book covers the most recent important research findings It details all photosynthetic factors and processes under normal and stressful conditions explores the relationship between photosynthesis and other plant physiological processes and relates photosynthesis to plant production and crop yields The third edition also presents an extensive new section on the molecular aspects of photosynthesis focusing on photosystems photosynthetic enzymes and genes New chapters on photosynthesis in lower and monocellular plants as well as in higher plants are included in this section The book also addresses growing concerns about excessive levels and high accumulation rates of carbon dioxide due to industrialization It considers plant species with the most efficient photosynthetic pathways that can help improve the balance of oxygen and carbon dioxide in the atmosphere Completely overhauled from its bestselling predecessors the Handbook of Photosynthesis Third Edition provides a nearly entirely new source on the subject that is both comprehensive and timely It continues to fill the need for an authoritative and exhaustive resource by assembling a global team of experts to provide thorough coverage of the subject while focusing on finding solutions to relevant contemporary issues related to the field **Handbook Of Porphyrin Science: With Applications To Chemistry, Physics, Materials Science,**

Engineering, Biology And Medicine (Volumes 16-20) Karl M Kadish,Roger Guilard,Kevin M Smith,2012-06-08 This is the fourth set of Handbook of Porphyrin Science Porphyrins phthalocyanines and their numerous analogues and derivatives are materials of tremendous importance in chemistry materials science physics biology and medicine They are the red color in blood heme and the green in leaves chlorophyll they are also excellent ligands that can coordinate with almost every metal in the Periodic Table Grounded in natural systems porphyrins are incredibly versatile and can be modified in many ways each new modification yields derivatives demonstrating new chemistry physics and biology with a vast array of medicinal and technical applications As porphyrins are currently employed as platforms for study of theoretical principles and applications in a wide variety of fields the Handbook of Porphyrin Science represents a timely ongoing series dealing in detail with the synthesis chemistry physicochemical and medical properties and applications of polypyrrole macrocycles Professors Karl Kadish Kevin Smith and Roger Guilard are internationally recognized experts in the research field of porphyrins each having his own separate area of expertise in the field Between them they have published over 1500 peer reviewed papers and edited more than three dozen books on diverse topics of porphyrins and phthalocyanines In assembling the new volumes of this

unique handbook they have selected and attracted the very best scientists in each sub discipline as contributing authors This handbook will prove to be a modern authoritative treatise on the subject as it is a collection of up to date works by world renowned experts in the field Complete with hundreds of figures tables and structural formulas and thousands of literature citations all researchers and graduate students in this field will find the Handbook of Porphyrin Science an essential major reference source for many years to come **The Structural Basis of Biological Energy Generation** Martin F.

Hohmann-Marriott,2014-04-30 The fascinating machinery that life uses to harness energy is the focus of this volume of the Advances in Photosynthesis and Respiration series Experts in the field communicate their insights into the mechanisms that govern biological energy conversion from the atomic scale to the physiological integration within organisms By leveraging the power of current structural techniques the authors reveal the inner workings of life Microbial Megaplasms Edward

Schwartz,2009-01-29 Megaplasms are extrachromosomal genetic elements in the size range of 100 kb and larger They are found in physiologically and phylogenetically diverse groups of bacteria and archaea By definition megaplasms are not essential for the viability of their hosts under all growth conditions but paradoxically many megaplasms carry the genetic information for the defining and characteristic traits of the organism in which they reside Microbial Megaplasms reviews our knowledge of the extensively studied representatives such as the catabolic plasmids of the pseudomonads the rhizobial Sym plasmids the Ti plasmids of the genus Agrobacterium and the giant enterobacterial virulence plasmids It also presents snapshots of more recently discovered megaplasms The contribution of megaplasms to the biology of their hosts is described highlighting the interactions between megaplasmid and chromosomal genes *Encyclopedia of Microbiology*

Thomas M. Schmidt,2019-09-11 Encyclopedia of Microbiology Fourth Edition Five Volume Set gathers both basic and applied dimensions in this dynamic field that includes virtually all environments on Earth This range attracts a growing number of cross disciplinary studies which the encyclopedia makes available to readers from diverse educational backgrounds The new edition builds on the solid foundation established in earlier versions adding new material that reflects recent advances in the field New focus areas include Animal and Plant Microbiomes and Global Impact of Microbes The thematic organization of the work allows users to focus on specific areas e g for didactical purposes while also browsing for topics in different areas Offers an up to date and authoritative resource that covers the entire field of microbiology from basic principles to applied technologies Provides an organic overview that is useful to academic teachers and scientists from different backgrounds Includes chapters that are enriched with figures and graphs and that can be easily consulted in isolation to find fundamental definitions and concepts Functional Genomics and Evolution of Photosynthetic Systems Robert Burnap,Wim

Vermaas,2011-09-18 New possibilities have been brought about by the stunning number of genomic sequences becoming available for photosynthetic organisms This new world of whole genome sequence data spans the phyla from photosynthetic microbes to algae to higher plants These whole genome projects are intrinsically interesting but also inform the variety of

other molecular sequence databases including the recent meta genomic sequencing efforts that analyze entire communities of organisms As impressive as they are are obviously only the beginning of the effort to decipher the biological meaning encoded within them This book aims to highlight progress in this direction This book aims toward a genome level understanding of the structure function and evolution of photosynthetic systems and the advantages accrued from the availability of phyletically diverse sets of gene sequences for the major components of the photosynthetic apparatus While not meant to be fully comprehensive in terms of the topics covered it does provide detailed views of specific cases and thereby illustrates important new directions that are being taken in this fast moving field a field that involves the integration of bioinformatics molecular biology physiology and ecology **Biology of Rhodococcus** Héctor M. Alvarez, 2010-09-07

Rhodococcus a metabolically versatile actinobacteria which is frequently found in the environment has gained increasing interest due to its potential biotechnological applications This Microbiology Monographs volume provides a thorough review of the various aspects of the biochemistry physiology and genetics of the Genus Rhodococcus Following an overview of its taxonomy chapters cover the structural aspects of rhodococcal cellular envelope genomes and plasmids metabolic and catabolic pathways such as those of aromatic compounds steroids and nitriles and desulfurization pathways as well as the adaption to organic solvents Further reviews discuss applications of Rhodococcus in the bioremediation of contaminated environments in triacylglycerol accumulation and in phytopathogenic strategies as well as the potential of biosurfactants A final chapter describes the sole pathogenic Rhodococcus member R equi **Light Harvesting in Photosynthesis** Roberta Croce, Rienk van Grondelle, Herbert van Amerongen, Ivo van Stokkum, 2018-01-12 This landmark collective work introduces the physical chemical and biological principles underlying photosynthesis light absorption excitation energy transfer and charge separation It begins with an introduction to properties of various pigments and the pigment proteins in plant algae and bacterial systems It addresses the underlying physics of light harvesting and key spectroscopic methods including data analysis It discusses assembly of the natural system its energy transfer properties and regulatory mechanisms It also addresses light harvesting in artificial systems and the impact of photosynthesis on our environment The chapter authors are amongst the field s world recognized experts Chapters are divided into five main parts the first focused on pigments their properties and biosynthesis and the second section looking at photosynthetic proteins including light harvesting in higher plants algae cyanobacteria and green bacteria The third part turns to energy transfer and electron transport discussing modeling approaches quantum aspects photoinduced electron transfer and redox potential modulation followed by a section on experimental spectroscopy in light harvesting research The concluding final section includes chapters on artificial photosynthesis with topics such as use of cyanobacteria and algae for sustainable energy production **Plant Growth and Health Promoting Bacteria** Dinesh K. Maheshwari, 2010-09-28 To cope with the increasing problems created by agrochemicals such as plant fertilizers pesticides and other plant protection agents biological alternatives have been

developed over the past years These include biopesticides such as bacteria for the control of plant diseases and biofertilizer to improve crop productivity and quality Especially plant growth promoting rhizobacteria PGPR are as effective as pure chemicals in terms of plant growth enhancement and disease control in addition to their ability to manage abiotic and other stresses in plants The various facets of these groups of bacteria are treated in this Microbiology Monograph with emphasis on their emergence in agriculture Further topics are Bacillus species that excrete peptides and lipopeptides with antifungal antibacterial and surfactant activity plant bacteria environment interactions mineral nutrient exchange nitrogen assimilation biofilm formation and cold tolerant microorganisms

Synthetic Biology Christina Smolke, 2018-06-05 A review of the interdisciplinary field of synthetic biology from genome design to spatial engineering Written by an international panel of experts Synthetic Biology draws from various areas of research in biology and engineering and explores the current applications to provide an authoritative overview of this burgeoning field The text reviews the synthesis of DNA and genome engineering and offers a discussion of the parts and devices that control protein expression and activity The authors include information on the devices that support spatial engineering RNA switches and explore the early applications of synthetic biology in protein synthesis generation of pathway libraries and immunotherapy Filled with the most recent research compelling discussions and unique perspectives Synthetic Biology offers an important resource for understanding how this new branch of science can improve on applications for industry or biological research

Structures and Organelles in Pathogenic Protists W. de Souza, 2010-09-10 Parasitic protozoa including some which are agents of human and veterinary diseases display special cytoplasmic structures and organelles Metabolic pathways have been discovered in these organelles which open up new possibilities for drug targets This work presents reviews dealing with cytoskeletal structures such as the mastigont system found in trichomonads the sub pellicular microtubules in trypanosomatids and the paraflagellar rod Further chapters cover structures involved in the synthesis secretion and uptake of molecules including the flagellar pocket of trypanosomatids the reservosome of Trypanosoma and the megasome found in Leishmania the traffic of vesicles in Entamoeba histolytica secretory organelles and the secretory events of intestinal parasites during encystation Reviews on special organelles such as the kinetoplast mitochondrion complex the apicoplast found in Apicomplexa the glycosomes in Kinetoplastida and the acidocalcisomes found in several protozoa complete the volume

Photosynthesis Research for Food, Fuel and Future Tingyun Kuang, Congming Lu, Lixin Zhang, 2013-08-31 Photosynthesis is the process by which plants algae and certain species of bacteria transform solar energy into chemical energy in the form of organic molecules In fact all life on the planet ultimately depends on photosynthetic energy conversion The book provides a compressive and state of the art of very recent progress on photosynthesis research The topics span from atom to intact plants from femtosecond reactions to season long production from physics to agronomy The book is to offer advanced undergraduate students graduate students and research specialists the most recent advances in the all aspects of photosynthesis research The book

is intended to offer researchers detailed information on the most recent advances in all aspects of photosynthesis research

Tingyun Kuang is a professor at Institute of Botany the Chinese Academy of Sciences CAS and the Academician of CAS

Congming Lu is a professor at Institute of Botany CAS Lixin Zhang is a professor at Institute of Botany CAS and the Chief Scientist in the National Basic Research Program of China on photosynthesis Molecular Microbiology of Heavy Metals

Dietrich H. Nies, Simon Silver, 2007-03-24 All forms of life depend on a variety of heavy metal ions Nearly one third of all gene products require a metal ion for proper folding or function However even metals generally regarded as non poisonous are toxic at higher concentrations including the essential ones Thus sensitive regulation of metal uptake storage allocation and detoxification is needed to maintain cellular homeostasis of heavy metal ions

Molecular Microbiology of Heavy Metals includes chapters on allocation of metals in cells metal transporter storage and metalloregulatory proteins cellular responses to metal ion stress transcription of genes involved in metal ion homeostasis uptake of essential metals metal efflux and other detoxification mechanisms Also discussed are metal bioreporters for the nanomolar range of concentration and tools to address the metallome Chapters in the second part cover specific metals such as Fe Mn Cu Ni Co Zn and Mo as key nutrient elements and Ag As Cd Hg and Cr as toxic elements **Microbial Linear Plasmids**

Friedhelm Meinhardt, Roland Klassen, 2007-07-31 Linear plasmids of microbes represent a heterogeneous group of extrachromosomal genetic elements initially assumed to be rare and peculiar However we now know that they are fairly frequently occurring plasmids in bacterial and eukaryotic species Viral strategies to avoid shortening of the linear molecules during replication imply a common ancestry Linear plasmids may be beneficial neutral or detrimental for the respective host functions include production of protein toxins specific catabolic capabilities antibiotic resistance pathogenicity factors and senescence induction

Microbial Linear Plasmids constitutes the first attempt to comprehensively assemble current knowledge of different types of such elements highlight recent developments in the field and challenge the distinction between viruses and linear plasmids *Encyclopedia of Biological Chemistry*, 2013-01-08

The 4 volume *Encyclopedia of Biological Chemistry* Second Edition represents the current state of a dynamic and crucial field of study The *Encyclopedia* pulls together over 500 articles that help define and explore contemporary biochemistry with content experts carefully chosen by the Editorial Board to assure both breadth and depth in its coverage

Editors In Chief William J Lennarz and M Daniel Lane have crafted a work that proceeds from the acknowledgement that understanding every living process from physiology to immunology and genetics is impossible without a grasp on the basic chemistry that provides its underpinning Each article in the work provides an up to date snapshot of a given topic written by experts as well as suggestions for further readings for students and researcher wishing to go into greater depth Available on line via SciVerse ScienceDirect the functionality of the *Encyclopedia* will provide easy linking to referenced articles electronic searching as well an online index and glossary to aid comprehension and searchability This 4 volume set thoroughly up to date and comprehensive expertly captures this fast moving field Curated

by two esteemed editors in chief and an illustrious team of editors and contributors representing the state of the field. Suggestions for further readings offer researchers and students avenues for deeper exploration; a wide-ranging glossary aids comprehension.

Prokaryotic Symbionts in Plants Katharina Pawlowski, 2009-06-17

Endophytic prokaryotes can invade the tissue of the host plant without triggering defense reactions or disease symptoms. Instead, they promote the growth of the host plant due to their ability to fix atmospheric dinitrogen and/or to produce plant growth-promoting substances. This Microbiology Monographs volume presents up-to-date findings on the interactions between plants and beneficial prokaryotes, including the use of genomics for the analysis of plant-prokaryote symbioses and their evolution. Rhizobia-legume actinorhizal and cyanobacterial symbioses are presented.

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