

Advances in Autotrophic Microbiology and One-Carbon Metabolism
Vol. 1

Autotrophic Microbiology and One-Carbon Metabolism

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Autotrophic Microbiology And One Carbon Metabolism

Israel A. Goldberg, J. Stefan Rokem



Autotrophic Microbiology And One Carbon Metabolism:

Autotrophic Microbiology and One-Carbon Metabolism G.A. Codd,L. Dijkhuizen,F. Robert Tabita,1990-05-31 Autotrophic and methylotrophic microorganisms are able to grow at the expense of one carbon compounds e g carbon dioxide formaldehyde as the principal carbon sources for the synthesis of cell material using light inorganic compounds or one carbon compounds as energy sources The study of the special adaptations required in aerobic and anaerobic microorganisms to sustain an autotrophic or methylotrophic mode of life is a fascinating field of research for scientists from various disciplines Current research efforts not only focus on fundamental aspects i e metabolic pathways and their regulation ecology energy conversion and genetics but also the possible application of these organisms in waste water treatment degradation of xenobiotics single cell protein production as biocatalysts for the production of fine chemicals draws strong attention The aim of this series is to provide annual reviews on the biochemistry physiology ecology genetics and application of microbial autotrophs and methylotrophs The scope of the series includes all aspects of the biology of these microbes and will deal with phototrophic and chemolithotrophic prokaryotic autotrophs carboxydobacteria acetogenic methanogenic and methylotrophic bacteria as well as methylotrophic eukaryotes The exciting advances made in recent years in the study of these organisms is reflected in the chapters of this first volume which have been written by experts in the field We would like to express our sincere thanks to all the contributors for their stimulating and comprehensive chapters **Autotrophic**

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concern about climate change caused by the exploitation of fossil fuels is encouraging the use of renewable energies For instance the European Union aims to be climate neutral by 2050 Biogas is an interesting renewable energy source due to its high calorific value Today biogas is mainly used for the production of electricity and heat by a combined heat and power engine However before its valorization biogas needs to be desulfurized H₂S removal to avoid corrosion and sulfur oxides emissions during its combustion Biogas can be upgraded CO₂ removal and used as vehicle fuel or injected into the natural gas grid In the last 15 years significant advances have occurred in the development of biological desulfurization processes In this book with five chapters the reader can find some of the latest advances in the biogas desulfurization and an overview of the state of the art research Three of them are research studies and two are reviews concerning the current state of biogas desulfurization technologies economic analysis of alternatives and the microbial ecology in biofiltration units Biogas desulfurization is considered to be essential by many stakeholders biogas producers suppliers of biogas upgrading devices gas traders researchers etc all around the world

Methane and Methanol Utilizers J. Colin Murrell, Howard Dalton, 2013-06-29 Methane and its oxidation product methanol have occupied an important position in the chemical industry for many years the former as a feedstock the latter as a primary chemical from which many products are produced More recently the role played by methane as a potent greenhouse gas has aroused considerable attention from environmentalists and climateologists alike This role for C compounds has of course been quite incidental to the myriad of microorganisms on this planet that have adapted their life styles to take advantage of these readily available ambient sources Methane a renewable energy source that will always be with us is actually a difficult molecule to activate so any microorganism that can effect this may point the way to catalytic chemists looking for controllable methane oxidation Methanol formed as a breakdown product of plant material is also ubiquitous and has also encouraged the growth of prokaryotes and eukaryotes alike In an attempt to give a balanced view of how microorganisms have been able to exploit these simple carbon sources we have asked a number of leading scientists modesty forbids our own inclusion here to contribute chapters on their specialist areas of the subject

Acetogenesis Harold L. Drake, 2012-12-06 This is the first volume to provide comprehensive coverage of acetogenesis Leading experts present state of the art research investigating the structure and function relationship of key acetogenic processes including synthesis of ATP the conservation of energy and intersecting metabolic pathways It explores the interactions between acetogenic bacteria and the flow of matter and energy giving the reader an integrated perspective on acetogens and the environment It presents landmark advances in the biochemistry phylogeny and molecular biology of acetogens with lucid explanations of background material making this volume accessible to newcomers to the subject It discusses diverse functions of acetogenesis in soils and gastrointestinal tracts as well as current and potential commercial and environmental applications This volume will serve as a broad and in depth review of basic and emerging issues in acetogenesis for microbiologists molecular biologists biochemists and ecologists and as a stimulus for future research

Biology of Methylootrophs Israel A. Goldberg, J. Stefan Rokem, 2013-10-22 *Biology of Methylootrophs* introduces the reader to the study of methylootrophs microorganisms that use reduced one carbon compounds for growth The book is divided into five parts Part I covers the taxonomy morphology and ultrastructure of methylootrophic bacteria Part II discusses the processes involved in their growth and metabolism Part III talks about the possible applications of methylootrophs and their enzymes in industrial fields as well as chemistry Part IV deals with the molecular genetics and the gene expression of methylootrophs and Part V deals with their habitat and role in the environment The text is recommended for microbiologists who would like to be acquainted with the subject or make further studies about methylootrophs Photosynthesis in Algae Anthony W. D. Larkum, S. Douglas, John A. Raven, 2012-12-06 This book introduces the reader to algal diversity as currently understood and then traces the photosynthetic structures and mechanisms that contribute so much to making the algae unique Indeed the field is now so large that no one expert can hope to cover it all The 19 articles are each written by experts in their area ranging over all the essential aspects and making for a comprehensive coverage of the whole field Important developments in molecular biology especially transformation mutants in *Chlamydomonas* are dealt with as well as areas important to global climate change carbon dioxide exchange light harvesting energy transduction biotechnology and many others The book is intended for use by graduate students and beginning researchers in the areas of molecular and cell biology integrative biology plant biology biochemistry and biophysics biotechnology global ecology and phycology **World List of Serials in Agricultural Biotechnology** Robert D. Warmbrodt, Diana Airozo, 1993 **The Ecology of Cyanobacteria** B.A. Whitton, M. Potts, 2000-06-30 Begins with an overview of blue green algae then looks at their diversity in the geological record and their ecology in present environments

The Enigmatic Realm of **Autotrophic Microbiology And One Carbon Metabolism**: Unleashing the Language is Inner Magic

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