

Methylotrophy and Methanogenesis Large

Methylotrophy And Methanogenesis Aspects Of Microbiology

P Large



Methyлотrophy And Methanogenesis Aspects Of Microbiology:

Methyлотrophy and Methanogenesis P. Large, 2012-12-06 This short book attempts to give a reader who has a basic biochemical and microbiological background one to two years at University level an idea of the ecological biochemical physiological and biotechnological importance of methane methanol and related compounds in the microbial world Because the book covers several different scientific disciplines readers may encounter unfamiliar terminology The glossary at the end of the book defines the more obscure of these The book has been written during a period of heavy teaching commitments and despite the helpful comments of many colleagues it is likely that errors have crept in As I have no co author whom I can blame I must accept sole responsibility for these I wish to thank the many friends students and colleagues who have read all or part of the manuscript Charlie Bamforth Rick Gibson Jeff Green Theo Hansen Wim Harder Geoff Haywood and above all Hans van Dijken

Methyлотrophy and Methanogenesis Peter J. Large, 1983

Methyлотrophy and Methanogenesis P. Large, 2014-01-15

Bioprocessing and Biotreatment of Coal Donald L. Wise, 2017-11-22 Within technical overview sections on such emerging areas as bioprocessing bioconversion biosolubilization biosystems and biocleaning this handsomely illustrated reference specifically surveys pioneering work in the genetic production of sulfatase enzymes for removing organic sulfur from coal

Climate Change and Microbiome Dynamics Javid Ahmad Parray, 2023-01-01 The book provides an overview relevant to various biological mechanisms that regulate carbon exchanges between the major components and their response to climate change Climate change has a significant impact on people's lives energy demand food security etc The soil microbial ecology is vital for assessing terrestrial and aquatic carbon cycles and climate feedback However the primary concern is the complexity of the soil microbial community and its severely affected functions due to the climate and other global changes Global warming comprises an assessment of the dynamic interactions and feedback between microbes plants and their physical environment due to climate change The book will address the need to use a multifactor experimental approach to understand how soil microorganisms and their activities adapt to climate change and the implications of carbon cycle feedback The most pressing concern is a clearer understanding of the biological factors that regulate carbon exchanges between land oceans and the atmosphere and how these exchanges will respond to climate change via climate ecosystem feedbacks which could augment or quell regional and global climate change Terrestrial ecosystems play an important role in climate feedback as they produce and absorb greenhouse gases like carbon dioxide methane and nitrous oxides They also strongly contribute to storing enormous amounts of carbon in living vegetation and soils rendering them a significant global carbon sink If climate change projections are realistic such a rapid increase in carbon loss from soil could exacerbate the soil carbon cycle feedback The book will determine the role of microbial feedback in regulating soil land atmosphere carbon exchange under changing climatic conditions at the regional and global levels The current book will also focus on recent research designed to use beneficial microbes such as plant growth promoting

microorganisms fungi endophytic microbes and others to improve understanding of the interaction and their potential role in promoting advanced management for sustainable agricultural solutions Understanding the influence on the native microbiome such as the distribution of methanogens and methanotrophs nutritional content microbial biomass and other factors is becoming increasingly crucial to establishing climate resilient agriculture

Microbes for Climate Resilient Agriculture Prem Lal Kashyap,Alok Kumar Srivastava,Shree Prakash Tiwari,Sudheer Kumar,2018-03-07 A comprehensive edited volume pulling together research on manipulation of the crop microbiome for climate resilient agriculture Microbes for Climate Resilient Agriculture provides a unique collection of data and a holistic view of the subject with quantitative assessment of how agricultural systems will be transformed in coming decades using hidden treasure of microbes Authored by leaders in the field and edited to ensure conciseness and clarity it covers a broad range of agriculturally important crops discusses the impact of climate change on crops and examines biotechnologically and environmentally relevant microbes The book encapsulates the understanding of microbial mediated stress management at field level and will serve as a springboard for novel research findings and new applications in the field Chapter coverage includes the role of the phytomicrobiome in maintaining biofuel crop production in a changing climate the impact of agriculture on soil microbial community composition and diversity in southeast Asia climate change impact on plant diseases microalgae photosynthetic microorganisms and bioenergy prospects amelioration of abiotic stresses in plants through multi faceted beneficial microorganisms role of methylotrophic bacteria in climate change mitigation conservation agriculture for climate change resilience archaeal community structure mycorrhiza helping plants to navigate environmental stresses endophytic microorganisms bacillus thuringiensis and microbial nanotechnology for climate resilient agriculture Clear and succinct chapters contributed and edited by leaders in the field Covers microbes beneficial and detrimental roles in the microbiome as well as the functions they perform under stress Discusses the crop microbiome nutrient cycling microbes endophytes mycorrhizae and various pests and diseases and their roles in sustainable farming Places research in larger context of climate change s effect on global agriculture Microbes for Climate Resilient Agriculture is an important text for scientists and researchers studying microbiology biotechnology environmental biology agronomy plant physiology and plant protection

Zeitschrift für Allgemeine Mikrobiologie. Volume 24, Number 5 W. Schwartz,U. Taubeneck,2022-03-21 No detailed description available for ZEITSCHR ALLGEM MIKROBIOL VOL 24 NR 5 ZAM E BOOK

Metal Ions in Biological Systems Helmut Sigel,Astrid Sigel,2024-11-01 This book considers nickel in the environment and in aquatic systems and outlines its role for plants It discusses the toxicology of nickel compounds and the role of nickel in carcinogenesis focusing on the analysis of nickel in biological materials and the related difficulties

National Library of Medicine Current Catalog National Library of Medicine (U.S.), **Microbiomes and the Global Climate Change** Showkat Ahmad Lone,Abdul Malik,2021-07-02 This book covers the contemporary environmental issues faced by life on the planet and the role planetary

microbiomes play in such issues Providing insights on the net favorable and adverse effect of microbial processes this volume covers both the spontaneous and anthropogenic events that impact climate change and life on the planet The book describes the ecological significance of microbiomes associated with the kingdoms Plantae and Animalia with respect to climate change natural and anthropogenic causes of climate change microbial interactions in nature planetary microbiomes and food security climate change in relation to disease epidemiology and human health and engineering microorganisms to mitigate the consequences of climate change The individual chapters in the intended book provide both theoretical and practical exposure to the current issues and future challenges of climate change in relation to the microbiomes This collection should serve as ready reference to the researchers working in the area to reshape their future research in addressing the challenges of global climate change

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