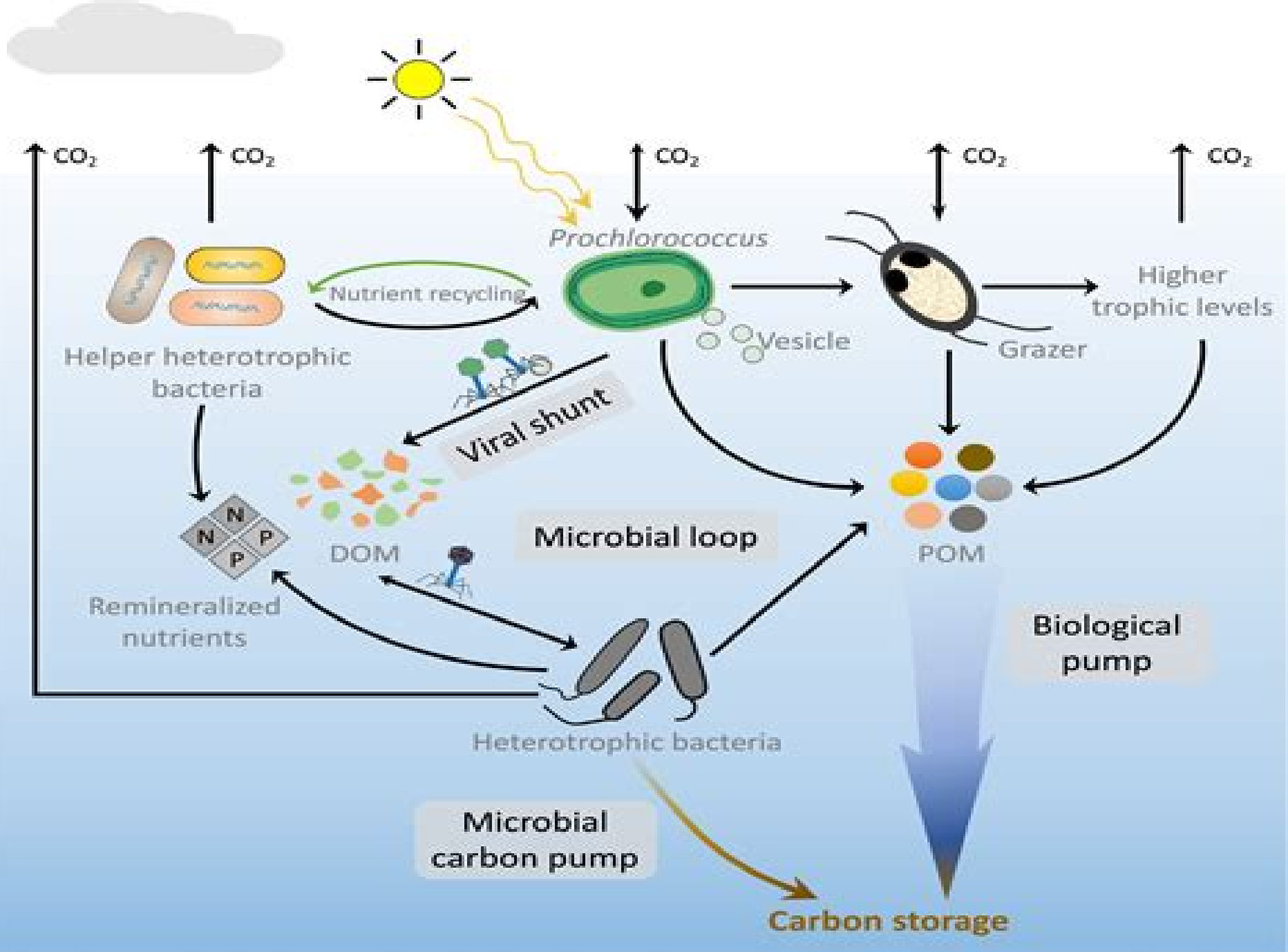




Microbial Metabolism And The Carbon Cycle

Martin Evans



Microbial Metabolism And The Carbon Cycle:

Microbial Metabolism and the Carbon Cycle Kunz Hagedorn-Hanson, 1988-05-03 First published in 1988 Routledge is an imprint of Taylor Francis an informa company **Microbial Metabolism and the Carbon Cycle** Stanley Dagley, 1988

Microbial Role in the Carbon Cycle in Tropical Inland Aquatic Ecosystems André Megali Amado, Fábio Roland, 2017-03-15 Aquatic microorganisms are tidily related to the carbon cycle in aquatic systems especially in respect to its accumulation and emission to atmosphere In one hand the autotrophs are responsible for the carbon input to the ecosystems and trophic chain On the other hand the heterotrophs traditionally play a role in the carbon mineralization and since microbial loop theory may play a role to carbon flow through the organisms However it is not yet clear how the heterotrophs contribute to carbon retention and emission especially from tropical aquatic ecosystems Most of the studies evaluating the role of microbes to carbon cycle in inland waters were performed in high latitudes and only a few studies in the tropical area In the prospective of global changes where the warm tropical lakes and rivers become even warmer it is important to understand how microorganisms behave and interact with carbon cycle in the Earth region with highest temperature and light availability This research topic documented microbial responses to natural latitudinal gradients spatial within and between ecosystems gradients temporal approaches and temperature and nutrient manipulations in the water and in the sediment *Principles of Microbial Metabolism and Metabolic Ecology* Alfred M. Spormann, 2023-12-30 This textbook examines the fundamental principles of microbial metabolism and how a microbe s ecology is intrinsically interwoven with and a consequence of its metabolism Further it answers many questions frequently asked by students such as What are the mechanistic connections between simple phenotypic traits ecological patterns and microbial metabolism and diversity In the process readers will be introduced to essential topics like metabolism and metabolic pathways flux of energy and nutrients genome size and fitness competition selection and drift Moreover the book conveys fundamental principles that show students how to approach the field of microbiology from a different more unifying angle e g how microbes access to environmentally available energy resources and the specific metabolism involved lies at the root of every ecologically significant microbial speciation This aspect together with its special focus on metabolism and ecological implications make the book a must read for all students of microbiology **Microbial Metabolism of Xenobiotic Compounds** Pankaj Kumar Arora, 2019-06-27 Xenobiotic compounds including pesticides nitrophenols pyridine polycyclic aromatic compounds and polychlorinated biphenyls are widely spread in environment due to anthropogenic activities Most of them are highly toxic to living beings due to their mutagenic and carcinogenic properties Therefore the removal of these compounds from environment is an essential step for environmental sustainability Microbial remediation has emerged as an effective technology for degradation of these xenobiotic compounds as microorganisms have unique ability to utilize these compounds as their sole source of carbon and energy The primary goal of this book is to provide detailed information of microbial

degradation of many xenobiotic compounds in various microorganisms

Microbial Regulation of Soil Carbon Cycling in Terrestrial Ecosystems Hui Li,Yu Luo,Mikhail Semenov ,Ye Deng,Yakov Kuzyakov,2023-11-15

Biochemistry of microbial degradation Colin Ratledge,2012-12-06 Life on the planet depends on microbial activity The recycling of carbon nitrogen sulphur oxygen phosphate and all the other elements that constitute living matter are continuously in flux microorganisms participate in key steps in these processes and without them life would cease within a few short years The comparatively recent advent of man made chemicals has now challenged the environment where degradation does not occur accumulation must perforce take place Surprisingly though even the most recalcitrant of molecules are gradually broken down and very few materials are truly impervious to microbial attack Microorganisms by their rapid growth rates have the most rapid turn over of their DNA of all living cells Consequently they can evolve altered genes and therefore produce novel enzymes for handling foreign compounds the xenobiotics in a manner not seen with such effect in other organisms Evolution with the production of micro organisms able to degrade molecules hitherto intractable to breakdown is therefore a continuing event Now through the agency of genetic manipulation it is possible to accelerate this process of natural evolution in a very directed manner The time scale before a new microorganism emerges that can utilize a recalcitrant molecule has now been considerably shortened by the application of well understood genetic principles into microbiology However before these principles can be successfully used it is essential that we understand the mechanism by which molecules are degraded otherwise we shall not know where best to direct these efforts

Understanding Terrestrial Microbial Communities Christon J. Hurst,2019-03-27 This book presents a summary of terrestrial microbial processes which are a key factor in supporting healthy life on our planet The authors explain how microorganisms maintain the soil ecosystem through recycling carbon and nitrogen and then provide insights into how soil microbiology processes integrate into ecosystem science helping to achieve successful bioremediation as well as safe and effective operation of landfills and enabling the design of composting processes that reduce the amount of waste that is placed in landfills The book also explores the effect of human land use including restoration on soil microbial communities and the response of wetland microbial communities to anthropogenic pollutants Lastly it discusses the role of fungi in causing damaging and often lethal infectious diseases in plants and animals

The Ecological Role of Micro-organisms in the Antarctic Environment Susana Castro-Sowinski,2019-01-11 This book provides up to date multidisciplinary information regarding microbial physiological groups in terms of their role in the Antarctic ecology How do microorganisms shape the Antarctic environment The book presents a thorough overview of the most important physiological microbial groups or microbial systems that shape the Antarctic environment Each microbial model is described in terms of their physiology and metabolism and their role in the Antarctic environmental sustainability The individual chapters prepare readers for understanding the relevance of the microbial models from both an historical perspective and considering the latest developments This book will appeal to researchers and teachers interested in the

Antarctic science but also to students who want to understand the role of microbes in the ecology of extreme environments

The Ocean Carbon Cycle and Climate Mick Follows, Temel Oguz, 2012-12-06 Our desire to understand the global carbon cycle and its link to the climate system represents a huge challenge These overarching questions have driven a great deal of scientific endeavour in recent years What are the basic oceanic mechanisms which control the oceanic carbon reservoirs and the partitioning of carbon between ocean and atmosphere How do these mechanisms depend on the state of the climate system and how does the carbon cycle feed back on climate What is the current rate at which fossil fuel carbon dioxide is absorbed by the oceans and how might this change in the future To begin to answer these questions we must first understand the distribution of carbon in the ocean its partitioning between different ocean reservoirs the solubility and biological pumps of carbon the mechanisms controlling these reservoirs and the relationship of the significant physical and biological processes to the physical environment The recent surveys from the JGOFS and WOCE Joint Global Ocean Flux Study and World Ocean Circulation Experiment programs have given us a first truly global survey of the physical and biogeochemical properties of the ocean These new high quality data provide the opportunity to better quantify the present oceans reservoirs of carbon and the changes due to fossil fuel burning In addition diverse process studies and time series observations have clearly revealed the complexity of interactions between nutrient cycles ecosystems the carbon cycle and the physical environment

Microbial Stress: From Sensing to Intracellular and Population Responses Daniela De Biase, John P. Morrissey, Conor P. O'Byrne, 2020-09-18 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Microbial Utilization and Transformation of Dissolved Organic Matter in Aquatic Environments - from Streams to the Deep Ocean Johanna Sjöstedt, Jean-Francois Lapierre, Youhei Yamashita, Federico Baltar, 2021-07-28

Carbon Cycles and Climate Jerry S. Olson, Linda J. Allison, Bobbie-Neal Collier, 1980 This partially annotated bibliography contains the first 1000 references from a computerized file of literature on the global ecological implications of carbon cycles and climatic changes Many early citations originated from the Biogeochemical Ecological Information Center established at Oak Ridge National Laboratory in 1968 and from profiles of computerized files such as Government Research Abstracts GRA and Biological Abstracts BA Later citations have been extracted from the open literature through 1978 and early 1979 from government reports and impact statements and from profiles of GRA BA and the Energy Data Base of the Department of Energy Technical Information Center Oak Ridge Tennessee The subject categories covered by this bibliography may be divided into two main topics carbon cycling

and climate system analysis Volume I contains an introduction and overview Volume 2 contains an alphabetical by author listing of citations Volume 3 provides indexes for author organization corporate authority keywords or free index terms taxonomic category subject category Chemical Abstracts codes Biological Abstracts codes crosscode and COSATI Weekly Government Abstracts codes concentrated with permuted title words *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 Principles of Microbiology C. Manoharachary, K.V.B.R. Tilak, 2012-01-19 The present book spread in 19 chapters broadly deals with basic concepts historical aspects microscopy diversity cultivation and control of microorganisms bacteria and viruses at length nutrition and physiology of microbes immunology taxonomy microbial genetics and microbes in human welfare and other related aspects Geomorphology and the Carbon Cycle Martin Evans, 2022-01-28 The first systematic examination of the role of geomorphological processes in the cycling of carbon through the terrestrial system Argues that knowledge of geomorphological processes is fundamental to understanding the ways in which carbon is stored and recycled in the terrestrial environment Integrates classical geomorphological theory with understanding of microbial processes controlling the decomposition of organic matter Develops an interdisciplinary research agenda for the analysis of the terrestrial carbon cycle Informed by work in ecology microbiology and biogeochemistry in order to analyse spatial and temporal patterns of terrestrial carbon cycling at the landscape scale Considers the ways in which as Humanity enters the Anthropocene the application of this science has the potential to manage the terrestrial carbon cycle to limit increases in atmospheric carbon Biochar Ecotechnology for Sustainable Agriculture and Environment Abhay Kumar, Majeti Narasimha Vara Prasad, Pallavi Kumari, Manoj Kumar Solanki, 2025-02-06 Biochar Ecotechnology for Sustainable Agriculture and Environment summarizes current accomplishments in biochar ecotechnologies for enhancing agricultural production encouraging sustainable waste management and fostering a circular bioeconomy by advancing the pyrolysis process at both large scale industrial and small scale local levels Chapters in the book synthesize recent breakthroughs in biochar agro ecotechnologies for increasing agricultural productivity and promoting circular bioeconomy by advancing the pyrolysis process and add mechanisms involved in biochar fertilizer mediated in soil biogeochemical cycle and nutrients retention

availability and their losses soil microbial responses emission of greenhouse gases and plant responses Finally this book aims to increase research understanding of nanotechnological breakthroughs in the production of biochar based slow release fertilizers including their Nano characteristics involved in increasing fertilizer usage efficiency and managing chemical losses for sustainable agriculture and the environment Describes the benefits of biochar in uplifting circular bioeconomy through sustainable waste management practices Discusses cutting edge approaches for investigating biochar plant and environment interactions including the use of biochar to improve soil fertility biological functioning and plant responses Summarizes nanotechnological breakthroughs in the synthesis and qualities of producing biochar based slow release fertilizer via pre and post pyrolysis changes Provides a grasp of the Nano characteristics of biochar that are engaged in boosting fertilizer usage efficiency and managing chemical losses

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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 **Microbial Action on**

Hydrocarbons Vivek Kumar,Manoj Kumar,Ram Prasad,2019-02-08 The book discusses ways to overcome the side effects of using hydrocarbon based products as energy sources Hydrocarbons produce raw crude oil waste of around 600 000 metric tons per annum with a range of uncertainty of 200 000 metric tons per year The various chapters in this book focus on approaches to reduce these wastes through the application of potential microbes in a process called bioremediation The book is a one stop reference resource on the methods mechanisms and application of the bio composites in the laboratory and field Focusing on resolving a very pressing environmental issue it not only provides details of existing challenges but also offers deeper insights into the possibility of solving problems using hydrocarbon bioremediation

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