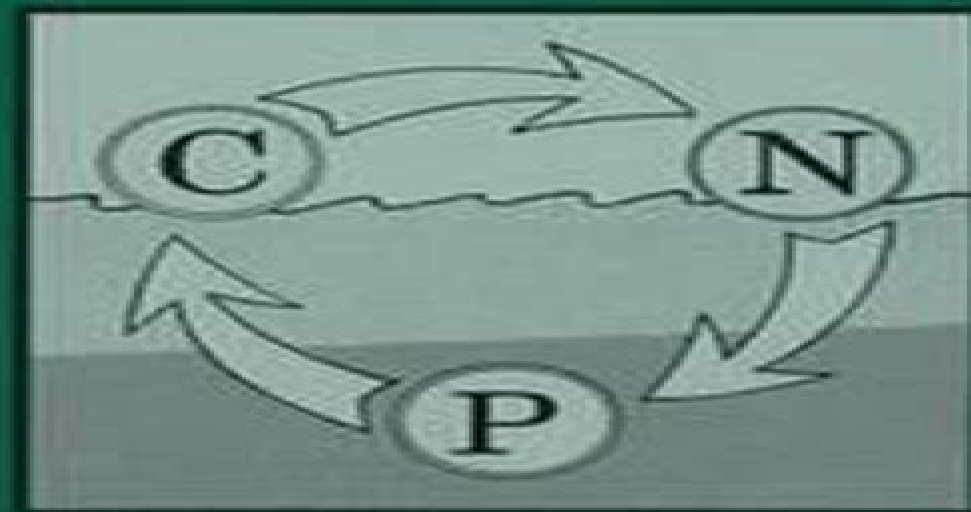


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Microbial Enzymes in Aquatic Environments



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Stuart Findlay, Robert L. Sinsabaugh



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Microbial Enzymes in Aquatic Environments Ryszard J. Chrost, 2012-12-06 Organic matter in aquatic environments consists mostly of large compounds which cannot be taken up and utilized directly by microbial cells Prior to incorporation polymeric materials undergo degradation by cell bound and extracellular enzymes produced by these microbes in fact such enzymatic mobilization and transformation is the key process which regulates the turnover of organic as well as inorganic compounds in aquatic environments This volume brings together studies on enzymatic degradation processes from disciplines as diverse as water and sediment research bacterial and algal aquatic ecophysiology eutrophication and nutrient cycling and biogeochemistry in both freshwater and marine ecosystems Its scope extends from fundamental research exploring the contribution of microbial enzymatic processes to whole ecosystem functioning to practical applications in water biotechnology The first comprehensive publication providing an overview of this emerging field of enzymology Microbial Enzymes in Aquatic Environments will be of great interest to ecologists and microbiologists alike

Extracellular Enzymes in Aquatic Environments: Exploring the Link Between Genomic Potential and Biogeochemical

Consequences Maria Montserrat Sala, Judith Piontek, Sonja Endres, Anna Maria Romani, Sonya Dyhrman, Andrew Decker Steen, 2019-09-19 Microbial extracellular enzymes are fundamental to the cycling of elements in aquatic systems The regulation of these enzymatic reactions in oceans lakes and streams is under complex multiple control by environmental factors and the metabolic capacities of different taxa and communities While the environmental control of enzyme mediated processes has been investigated for over 100 years in recent years tremendous progress in techniques to characterize the metabolic potential of microbial communities omics techniques has been made such as high throughput sequencing and new analytical algorithms This book explores the controls activities and biogeochemical consequences of enzymes in aquatic environments It brings together experimental studies and fieldwork conducted with natural microbial communities in marine and freshwater ecosystems as well as physiological biochemical and molecular studies on microbial communities in these environments or species isolated from them Additionally the book contributes to the ongoing debate on the impact of anthropogenic climate change and pollution on microbes extracellular enzymes and substrate turnover

Enzymes in the Environment Richard G. Burns, Richard P. Dick, 2002-01-29 The need to understand the biological processes that are important for essential aquatic and terrestrial ecosystem function has prompted much research into the field of ecological enzymology This book presents the two broad areas of application in a compilation of reviews by 21 international experts in their respective fields The first explores enzymatic activities to assess the processes or mechanisms that operate in a given system such as the rhizosphere plant leaves and shoots soil surfaces and biofilms The second considers enzymes or microbial cells as sensors to detect microbial activity and stresses due to pollution management or climatic change in both aquatic and terrestrial ecosystems

Aquatic Ecosystems: Interactivity of Dissolved Organic Matter Stuart Findlay, Robert L.

Sinsabaugh, 2003 Overviews of the source supply and variability of DOM surveys of the processes that mediate inputs to microbial food webs and syntheses consolidating research findings provide a comprehensive review of what is known of DOM in freshwater This book will be important to anyone interested in understanding the fundamental factors associated with DOM that control aquatic ecosystems **BOOK JACKET** Microbial Ecology of Lake Plußsee Jürgen Overbeck, Ryszard J. Chrost, 2012-12-06 Lake Plu see is a small eutrophic kettle lake in northern Germany Because it is sheltered and has no inflow from rivers the Plu see exhibits stable stratification and is especially suitable for limnological studies This book presents the results of extensive research conducted on the ecophysiology of microorganisms principally bacteria at the Plu see over the past several decades It begins with three chapters on the general limnological state of the lake physical factors inorganic nutrients plankton composition and succession fish fauna etc These chapters are followed by discussions of dissolved organic matter and photosynthetic production of organic matter by phytoplankton The remainder of the book addresses the dynamics of structure function and metabolism of the microorganisms in the Plu see **The Dynamics and Use of Lacustrine Ecosystems** V. Ilmavirta, R.I. Jones, 2012-12-06 Limnology is increasingly concerned with water supply and the relation of man to aquatic environments Without the continued availability of pure water all progress in technology and other fields of human life will be to no avail The global problems concerning clear water are already extremely pressing More limnology knowledge is needed to solve these problems The responsibility of man to save water and to take more intensive care of the environment is raised in many of the papers in this book This emphasizes the necessary and unquestionable relevance of limnology to human society Too often the abuse of water usage reflects the neglect of scientific results Limnologists have a responsibility to ensure that administrators understand what is going on The coverage of the book is wide including papers on microbiology to engineering sciences The biology of waters is handled at both species and ecosystem levels The geographical distribution of topics ranges from the tropics to northern temperate areas In fact limnology is increasingly becoming a science which is rightly relevant to everyday life not just an academic subject

Aquatic Humic Substances Dag Hessen, Lars J. Tranvik, 2013-03-09 Humic substances occur in all kinds of aquatic systems but are particularly important in northern coniferous areas They strongly modify the aquatic ecosystems and also constitute a major problem in the drinking water supply This volume covers all aspects of aquatic humic substances from their origin and chemical properties their effects on light and nutrient regimes and biogeochemical cycling to their role regarding organisms productivity and food web organization from bacteria to fish Special emphasis is paid to carbon cycling and food web organization in humic lakes but aspects of marine carbon cycling related to humus are treated as well

Chemical Biomarkers in Aquatic Ecosystems Thomas S. Bianchi, Elizabeth A. Canuel, 2011-02-28 This textbook provides a unique and thorough look at the application of chemical biomarkers to aquatic ecosystems Defining a chemical biomarker as a compound that can be linked to particular sources of organic matter identified in the sediment record the

book indicates that the application of these biomarkers for an understanding of aquatic ecosystems consists of a biogeochemical approach that has been quite successful but underused This book offers a wide ranging guide to the broad diversity of these chemical biomarkers is the first to be structured around the compounds themselves and examines them in a connected and comprehensive way This timely book is appropriate for advanced undergraduate and graduate students seeking training in this area researchers in biochemistry organic geochemistry and biogeochemistry researchers working on aspects of organic cycling in aquatic ecosystems and paleoceanographers petroleum geologists and ecologists Provides a guide to the broad diversity of chemical biomarkers in aquatic environments The first textbook to be structured around the compounds themselves Describes the structure biochemical synthesis analysis and reactivity of each class of biomarkers Offers a selection of relevant applications to aquatic systems including lakes rivers estuaries oceans and paleoenvironments Demonstrates the utility of using organic molecules as tracers of processes occurring in aquatic ecosystems both modern and ancient

Microscale Testing in Aquatic Toxicology Peter G. Wells, Kenneth Lee, Christian Blaise, 2018-05-04 Bioassays are among the ecotoxicologist s most effective weapons in the evaluation of water quality and the assessment of ecological impacts of effluents chemicals discharges and emissions on the aquatic environment Information on these assessment aids is needed throughout the international scientific and environmental management community This comprehensive reference provides an excellent overview of the small scale aquatic bioassay techniques and applications currently in use around the world This special volume is the result of several years of collaboration between Environment Canada and Fisheries and Oceans Canada Internationally recognized research scientists at many institutions have contributed to this state of the art examination of the exciting environmentally important field of microscale testing in aquatic toxicology Microscale Testing in Aquatic Toxicology contains over forty chapters covering relevant principles new techniques and recent advancements and applications in scientific research environmental management academia and the private sector

Management of Fish Diseases Sumanta Kumar Mallik, Neetu Shahi, Pramod Kumar Pandey, 2025-03-22 This book covers various aspects of aquatic animal health such as pathogenic and beneficial microbes disease diagnosis treatment and preventive measures biosecurity disease management The environmental factors affecting aquatic animal well being and their nutritional requirements are also discussed Finally emerging trends and future research and management directions are also concluded in this book Aquatic animals are a crucial source of nutrition for people worldwide as they provide at least 20% of animal protein intake for over 3 billion individuals according to the Food and Agriculture Organization FAO Furthermore fishing and aquaculture industries generate employment and income for millions particularly in developing countries However pollution habitat destruction overfishing climate change and disease outbreaks pose a threat to aquatic animal health Disease outbreaks and pathogenic microbes can cause significant harm necessitating immediate attention Addressing this issue requires multifaceted approach that includes enhancing water quality managing animal stress levels improving biosecurity measures

and practicing responsible aquaculture techniques Finally collaboration between government industry and researchers is critical to developing new and effective strategies for mitigating the impact of disease outbreaks on aquatic animal health This book provides concise information for students teachers researchers and academicians interested in the field of aquatic animal health It also serves as a reference book to administrators practitioners stakeholders and non professionals interested in sustainable aquatic animal health management

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