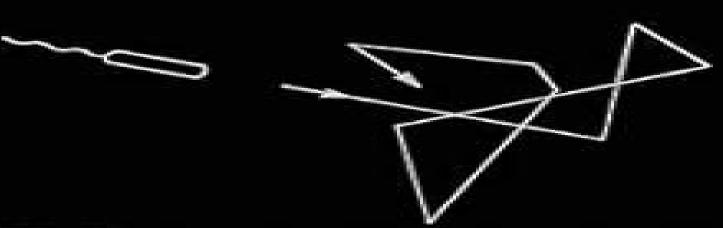
MODELING THE METABOLIC AND PHYSIOLOGIC ACTIVITIES OF MICROORGANISMS



Edited by Christon J. Hurst

Modeling The Metabolic And Physiologic Activities Of Microorganisms

Julian W.T. Wimpenny

Modeling The Metabolic And Physiologic Activities Of Microorganisms:

Modeling the Metabolic and Physiologic Activities of Microorganisms Christon J. Hurst, 1992-09-17 Describes methods for formulating models of the metabolic and physiological processes of microorganisms from a mathematical perspective The models used biodegradation individual cellular functions and environmental cycles are practical mathematical tools that enable researchers to predict and control microorganism behavior. The focus is on their behavior in the natural environment with mixed populations of microorganisms and heterogeneous substrates Modeling in Microbial Ecology A.L. Koch, Joseph A. Robinson, George A. Milliken, 2012-12-06 From the Chapman Hall Microbiology Series this unique resource offers specific experimental and practical applications of mathematical modeling in microbial ecology The text presents a variety of systems ranging from subcellular systems to ecosystems and shows how to test whether the models provide a good representation of the system The book also encourages further development and application of modeling to burgeoning problems associated with microbial ecology such as the pollution and destruction of Modeling Disease Transmission and Its Prevention by Disinfection Christon J. Hurst, 1996-11-13 pesticides and herbicides Pathogenic microorganisms exploit a number of different routes for transmission and this book demonstrates how the spread of disease can be prevented through the practices of disinfection and controlling microbial growth The book is organized into Manual of Environmental Microbiology Christon J. Hurst, Ronald L. Crawford, Jay L. Garland, David A. four sections Lipson, 2007-05-14 The most definitive manual of microbes in air water and soil and their impact on human health and welfare Incorporates a summary of the latest methodology used to study the activity and fate of microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments Features a section on biotransformation and biodegradation Serves as an indispensable reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology Their World: A Diversity of Microbial Environments Christon J. Hurst, 2016-05-02 This volume summarizes recent advances in environmental microbiology by providing fascinating insights into the diversity of microbial life that exists on our planet The first two chapters present theoretical perspectives that help to consolidate our understanding of evolution as an adaptive process by which the niche and habitat of each species develop in a manner that interconnects individual components of an ecosystem This results in communities that function by simultaneously coordinating their metabolic and physiologic actions The third contribution addresses the fossil record of microorganisms and the subsequent chapters then introduce the microbial life that currently exists in various terrestrial and aquatic ecosystems Coverage of the geosphere addresses endolithic organisms life in caves and the deep continental biosphere including how subsurface microbial life may impact spent nuclear fuel repositories. The discussion of the hydrosphere includes hypersaline environments and arctic food chains By better understanding examples from the micro

biosphere we can elucidate the many ways in which the niches of different species both large and small interconnect within the overlapping habitats of this world which is governed by its microorganisms Physiological Models in Microbiology M. Bazin, 2018-01-18 Physiological Models in Microbiology consists of two volumes Volume I considers models of basic growth processes and the effects of environmental factors on microbial growth Volume II describes models of secondary processes in particular microbial death spore germination chemotaxis and surface growth **Handbook of Food Safety Engineering** Da-Wen Sun, 2011-11-03 This book presents a comprehensive and substantial overview of the emerging field of food safety engineering bringing together in one volume the four essential components of food safety the fundamentals of microbial growth food safety detection techniques microbial inactivation techniques food safety management systems Written by a team of highly active international experts with both academic and professional credentials the book is divided into five parts Part I details the principles of food safety including microbial growth and modelling Part II addresses novel and rapid food safety detection methods Parts III and IV look at various traditional and novel thermal and non thermal processing techniques for microbial inactivation Part V concludes the book with an overview of the major international food safety management systems such as GMP SSOP HACCP and ISO22000 **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 aguatic ecosystems BOOK JACKET Advances in Bioprocess Engineering Enrique Galindo, Octavio R. Ramírez, 2013-06-29 Bioprocess engineering plays a key role in the development and optimization of bioprocesses leading to the products of biotechnology A survey of the state of the art in this field is greatly needed This work covers all the essential sub areas and as such is required reading for scientists active in all the disciplines involved in bioprocess engineering This review of basic and applied approaches is brought together by a broad international group of expert authors The work is a reflection of the First International Symposium on Bioprocess Engineering June 1994 However it must be emphasized that the book cannot be perceived as a regular symposium proceedings volume a strict peer review process assures the readers of a high level of quality more than a quarter of the work consists of invited contributions while less than half of the spontaneously submitted manuscripts were accepted for publication Advances in Bioprocess Engineering belongs among the indispensable set of instruments of today s researcher in this field Bibliography of Agriculture with Subject Index ,1993 Biosimulation in Drug Development Martin Bertau, Erik Mosekilde, Hans V. Westerhoff, 2008-09-08 This first comprehensive survey to cover all pharmaceutically relevant topics provides a comprehensive introduction to this novel and revolutionary tool presenting both concepts and application examples of biosimulated cells organs and organisms Following an introduction to the role of biosimulation in drug

development the authors go on to discuss the simulation of cells and tissues as well as simulating drug action and effect A further section is devoted to simulating networks and populations and the whole is rounded off by a look at the potential for biosimulation in industrial drug development and for regulatory decisions Part of the authors are members of the BioSim Network of Excellence that encompasses more than 40 academic institutions pharmaceutical companies and regulatory authorities dealing with drug development other contributors come from industry resulting in a cross disciplinary expert Revival: CRC Handbook of Laboratory Model Systems for Microbial Ecosystems, Volume I (1988) Julian W.T. Wimpenny, 2019-01-15 These volumes present the main classes of useful laboratory model systems used to study microbial ecosystems with emphasis on the practical details for the use of each model The most commonly used model the homogeneous fermenter is featured along with linked homogeneous culture systems film fermenters and percolating columns Additionally gel stabilized culture systems which incorporate molecular diffusion as their main solute transfer mechanism and the microbial colony are explained Chapters comparing model systems with microcosms are included along with discussions of the value of computer models in microbial ecosystem research Highlighted is a global discussion of the value Cellular Dynamics Simulation of Microbial Chemotaxis in Porous Media of laboratory models in microbial ecology Jason R. Mondro, 2002 The Connections Between Ecology and Infectious Disease Christon J. Hurst, 2018-08-30 This book summarizes current advances in our understanding of how infectious disease represents an ecological interaction between a pathogenic microorganism and the host species in which that microbe causes illness The contributing authors explain that pathogenic microorganisms often also have broader ecological connections which can include a natural environmental presence possible transmission by vehicles such as air water and food and interactions with other host species including vectors for which the microbe either may or may not be pathogenic. This field of science has been dubbed disease ecology and the chapters that examine it have been grouped into three sections The first section introduces both the role of biological community interactions and the impact of biodiversity on infectious disease In turn the second section considers those diseases directly affecting humans with a focus on waterborne and foodborne illnesses while also examining the critical aspect of microbial biofilms Lastly the third section presents the ecology of infectious diseases from the perspective of their impact on mammalian livestock and wildlife as well as on humans Given its breadth of coverage the volume offers a valuable resource for microbial ecologists and biomedical scientists alike Modeling Processes and Their Interactions in Cropping Systems Lajpat R. Ahuja, Kurt C. Kersebaum, Ole Wendroth, 2022-08-09 Modeling Processes and Their Interactions in Cropping Systems A complete discussion of soil plant climate management processes In Modeling Processes and Their Interactions in Cropping Systems Challenges for the 21st Century a team of distinguished researchers delivers a comprehensive and up to date scientific textbook devoted to teaching the modeling of soil plant climate management processes at the upper undergraduate and graduate levels The book emphasizes the new opportunities and paradigms

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