



TOPICS IN ECOLOGICAL AND ENVIRONMENTAL MICROBIOLOGY

Edited by Tom Schmidt and Moselio Schaechter



Topics In Ecological And Environmental Microbiology

Larry L. Barton, Robert J. C. McLean



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Microbiology: Fundamentals and Applications Jean-Claude Bertrand, Pierre Caumette, Philippe Lebaron, Robert Matheron, Philippe Normand, Télésphore Sime-Ngando, 2015-01-26 This book is a treatise on microbial ecology that covers traditional and cutting edge issues in the ecology of microbes in the biosphere It emphasizes on study tools microbial taxonomy and the fundamentals of microbial activities and interactions within their communities and environment as well as on the related food web dynamics and biogeochemical cycling The work exceeds the traditional domain of microbial ecology by revisiting the evolution of cellular prokaryotes and eukaryotes and stressing the general principles of ecology The overview of the topics authored by more than 80 specialists is one of the broadest in the field of environmental microbiology The overview of the topics authored by more than 80 specialists is one of the broadest in the field of environmental microbiology

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Microbial Ecology Larry L. Barton, Diana E. Northup, 2011-10-04 This book covers the ecological activities of microbes in the biosphere with an emphasis on microbial interactions within their environments and communities In thirteen concise and timely chapters Microbial Ecology presents a broad overview of this rapidly growing field explaining the basic principles in an easy to follow manner Using an integrative approach it comprehensively covers traditional issues in ecology as well as cutting edge content at the intersection of ecology microbiology environmental science and engineering and molecular biology Examining the microbial characteristics that enable microbes to grow in different environments the book provides insights into relevant methodologies for characterization of microorganisms in the environment The authors draw upon their extensive experience in teaching microbiology to address the latest hot button topics in the field such as Ecology of microorganisms in natural and engineered environments Advances in molecular based understanding of microbial phylogeny

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Environmental Microbiology

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professionals *Environmental Microbiology: Advanced Research and Multidisciplinary Applications* Arun Karnwal, Abdel Rahman Mohammad Said Al-Tawaha, 2022-09-02 *Environmental Microbiology Advanced Research and Multidisciplinary Applications* focus on the current research on microorganisms in the environment Contributions in the volume cover several aspects of applied microbial research basic research on microbial ecology and molecular genetics The reader will find a collection of topics with theoretical and practical value allowing them to connect environmental microbiology to a variety of subjects in life sciences ecology and environmental science topics Advanced topics including biogeochemical cycling microbial biosensors bioremediation application of microbial biofilms in bioremediation application of microbial surfactants microbes for mining and metallurgical operations valorization of waste and biodegradation of aromatic waste microbial communication nutrient cycling and biotransformation are also covered The content is designed for advanced undergraduate students graduate students and environmental professionals with a comprehensive and up to date discussion of environmental microbiology as a discipline that has greatly expanded in scope and interest over the past several decades

Environmental Microbiology Ian Pepper, Charles P. Gerba, Terry Gentry, 2014-03-01 Designed for advanced undergraduate students graduate students and environmental professionals this book builds upon the tremendous success of the previous editions with a comprehensive and up to date discussion of environmental microbiology as a discipline that has greatly expanded in scope and interest over the past several decades From terrestrial and aquatic ecosystems to urban and indoor environments this edition relates environmental microbiology to a variety of life science ecology and environmental science topics including biogeochemical cycling bioremediation environmental transmission of pathogens microbial risk assessment and drinking water treatment and reuse The final chapter highlights several emerging issues including microbial remediation of marine oil spills microbial contributions to global warming impact of climate change on microbial infectious disease and the development of antibiotic resistant bacteria Presents state of the art research results with key recent references to document information Emphasizes critical information using Information Boxes throughout Includes real world case studies to illustrate concepts along with frequent use of graphics cartoons and photographs Offers questions at the end of each chapter designed to test key concepts Lecture slides available for instructors online

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