



TOPICS IN ECOLOGICAL AND ENVIRONMENTAL MICROBIOLOGY

Edited by Thomas M. Schmidt
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Topics In Ecological And Environmental Microbiology

Ian L. Pepper, Charles P. Gerba



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Environmental Microbiology Ralph Mitchell, Ji-Dong Gu, 2010-01-08 The bestselling reference on environmental microbiology now in a new edition This is the long awaited and much anticipated revision of the bestselling text and reference Based on the latest information and investigative techniques from molecular biology and genetics this Second Edition offers an in depth examination of the role of microbiological processes related to environmental deterioration with an emphasis on the detection and control of environmental contaminants Its goal is to further our understanding of the complex microbial processes underlying environmental degradation its detection and control and ultimately its prevention Features new to this edition include A completely new organization with topics such as pathogens in developing countries effects of genetically modified crops on microbial communities and transformations of toxic metals Comprehensive coverage of key topics such as bacteria in the greenhouse and low energy waste treatment New coverage relating core book content to local regional and global environmental problems Environmental Microbiology Second Edition is essential reading for environmental microbiologists and engineers general environmental scientists chemists and chemical engineers who are interested in key current subjects in environmental microbiology It is also appropriate as a textbook for courses in environmental science chemistry engineering and microbial ecology at the advanced undergraduate and graduate levels

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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It also serves as a highly useful reference for scientists and environmental professionals Environmental Microbiology Ian
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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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