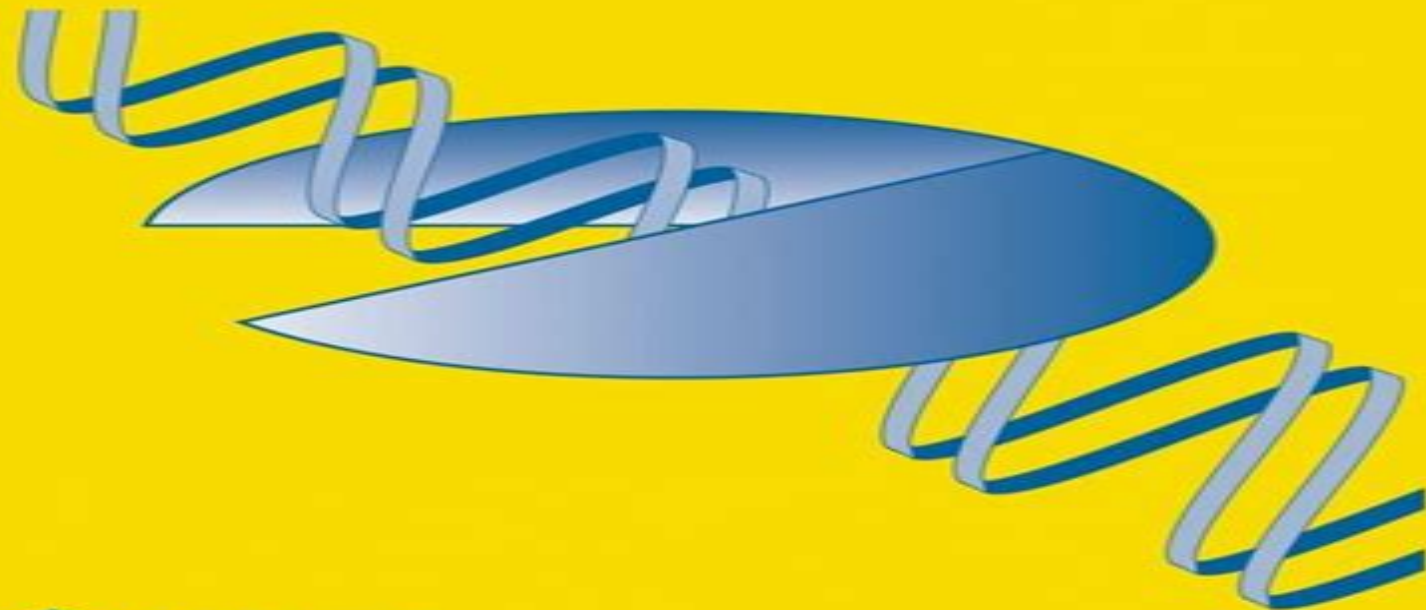


Molecular Microbial Ecology Manual

Second Edition - Volume 1

Edited by

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Jan Dirk van Elsas



 Springer

Microbial Ecology Manual

**Cindy H. Nakatsu, Robert V.
Miller, Suresh D. Pillai**



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Molecular Microbial Ecology Manual, 2004 Manual of Environmental Microbiology Cindy H. Nakatsu, Robert V. Miller, Suresh D. Pillai, 2016-05-02 The single most comprehensive resource for environmental microbiology. Environmental microbiology, the study of the roles that microbes play in all planetary environments, is one of the most important areas of scientific research. The *Manual of Environmental Microbiology*, Fourth Edition, provides comprehensive coverage of this critical and growing field. Thoroughly updated and revised, the Manual is the definitive reference for information on microbes in air, water, and soil, and their impact on human health and welfare. Written in accessible, clear prose, the manual covers four broad areas: general methodologies, environmental public health microbiology, microbial ecology, and biodegradation and biotransformation. This wealth of information is divided into 18 sections, each containing chapters written by acknowledged topical experts from the international community. Specifically, this new edition of the Manual contains completely new sections covering microbial risk assessment, quality control, and microbial source tracking. It incorporates a summary of the latest methodologies used to study microorganisms in various environments, synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments. The *Manual of Environmental Microbiology* is an essential reference for environmental microbiologists, microbial ecologists, and environmental engineers, as well as those interested in human diseases, water, and wastewater treatment, and biotechnology.

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Rao, 2006 Plants have evolved both general and highly specialized defence mechanisms that function to prevent diseases caused by the majority of microbial pathogens they encounter Highly specialized defence is governed by specific interactions between pathogen avr avirulence genes loci and alleles of the corresponding plant disease resistance R loci These defences can be very dynamic as microbes from the same species can act differently in their co evolution with the specific host plant which in turn has similarly evolved its response to external threats There have been major developments in the field of plant microbe interactions in recent years due to newly developed techniques and the availability of genomic information

Molecular Plant Microbe Interactions explores these new discoveries focusing primarily on the mechanisms controlling plant disease resistance the cross talk among the pathways involved and the strategies used by the pathogens to suppress these defences By exploring developments in plant defences pathogen s counter defences and mutually beneficial plant microbe interactions this book will be useful for researchers and students in plant pathology and plant biology related areas

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