



Microbiology of Aerosols

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DESCRIPTION

An introduction to the microbiology of bioaerosols and their impact on the world in which we live

The microbiology of aerosols is an emerging field of research that lies at the interface of a variety of scientific and health-related disciplines. This eye-opening book synthesizes the current knowledge about microorganisms—bacteria, archaea, fungi, viruses—that are aloft in the atmosphere. The book is written collaboratively by an interdisciplinary and international panel of experts and carefully edited to provide a high-level overview of the emerging field of aerobiology.

Four sections within *Microbiology of Aerosols* present the classical and online methods used for sampling and characterizing airborne microorganisms, their emission sources and short- to long-distance dispersal, their influence on atmospheric processes and clouds, and their consequences for human health and agro-ecosystems. Practical considerations are also discussed, including sampling techniques, an overview of the quantification and characterization of bioaerosols, transport of bioaerosols, and a summary of ongoing research opportunities in the field. Comprehensive in scope, the book:

- Explores this new field that is applicable to many disparate disciplines
- Covers the emission of bioaerosols to their deposit, covering both quantitative and qualitative aspects
- Provides insights into social and environmental effects of the presence of bioaerosols in the atmosphere
- Details the impact of bioaerosols on human health, animal and plant health, and on physical and chemical atmospheric processes

Written by authors internationally recognized for their work on biological aerosols and originating from a variety of scientific fields collaborated on, *Microbiology of Aerosols* is an excellent resource for researchers and graduate or PhD students interested in atmospheric sciences or microbiology.

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