



Bioaerosols: Advances and Prospects on Assessment of Exposure to Bioaerosols and Their Effects on Health

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Message from the Guest Editors

Exposure to bioaerosols is associated with adverse effects on human health. These exposures can have a major public health impact, as they are a cause of infectious and allergic diseases, respiratory and neurological effects, and cancer.

Bioaerosol monitoring is crucial to support the establishment of exposure limits and a specific regulation of bioaerosol exposures for a more accurate risk assessment. In order to provide valid quantitative and qualitative data, a large discussion has been raised on the development of bioaerosol monitoring standardized methods for both indoor and outdoor environments.

These methods include the measurement of viable and nonviable microorganisms. While traditional culture methods have been described to be of limited use, molecular methods have been adapted to quantify exposures to microorganisms and microbial constituents such as mycotoxins and endotoxins. However, the great diversity of molecular methods makes data comparability and the definition of exposure limits difficult.

Therefore, this Issue aims to gather recent research on the development of refined exposure assessment tools and validation of newly developed bioaerosol monitoring methods.





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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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