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Statistical Methods in Environmental Epidemiology

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Message from the Guest Editors

Assessing the impact of diverse environmental exposures on public health is not a simple task.

Indeed, the environment and its interaction with human societies is complex, with a number of interacting variables and confounders that modify the impacts. Examples include interactions between variables such as temperature, humidity, and fine particulate matter, as well as a built environment that can create so-called urban heat islands, not to mention climate changes that introduce some uncertainty regarding the evolution of these exposures and their impact on health. Fortunately, the ever-increasing amount of available data and monitored phenomena allow for more and more accurate assessments of the impact of environmental exposures on populations health.

To take full advantage of all the available information, it is important to have powerful statistical methods at one's disposal. Advances such as distributed lag models and nonlinear regression models allow for significant improvements in our understanding of the impact of environmental exposures such as air pollution and extreme temperatures.

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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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