



Advances in Spatial and Temporal Analysis of Respiratory Tract Infection Epidemics

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Message from the Guest Editors

Major epidemics, including some that qualify as pandemics, including severe acute respiratory syndrome (SARS), Middle East respiratory syndrome (MERS), influenza A, and the novel COVID-19, affect the respiratory tract in humans. These epidemics remain as one of the top global causes of death, and the emergence of novel diseases continues to be a major concern. Geographic analysis of infectious diseases may serve to shed important insights on the etiology and transmission dynamics of these diseases. The identification of spatial and temporal factors associated with disease incidence and dispersion may identify target risk factors or environmental conditions that can be used for the development and implementation of efficient and cost-effective intervention programs, including vaccines. Spatial and temporal statistical and mathematical models may be of great value for the design of geographically targeted program interventions. The focus of this Special Issue is to present novelties in the domain of spatial and temporal analysis that are relevant to modeling respiratory tract infections, including COVID-19.





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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. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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