



## **Advances in Spatial and Temporal Analysis of Respiratory Tract Infection Epidemics**

Guest Editors:

**Dr. Diego Fernando Cuadros**

**Dr. Susanne Awad**

**Dr. Jingjing Li**

Deadline for manuscript  
submissions:

**closed (31 January 2022)**

### **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.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Paul B. Tchounwou**

RCMI Center for Urban Health  
Disparities Research and  
Innovation, Richard Dixon  
Research Center, Morgan State  
University, 1700 E. Cold Spring  
Lane, Baltimore, MD 21251, USA

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, PubMed, MEDLINE, PMC, Embase, GEOBASE, CAPus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Public Health, Environmental and Occupational Health*)

## Contact Us

---

International Journal of  
*Environmental Research and Public  
Health* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/ijerph](http://mdpi.com/journal/ijerph)  
[ijerph@mdpi.com](mailto:ijerph@mdpi.com)  
[X@IJERPH\\_MDPI](https://twitter.com/IJERPH_MDPI)