



Spatio-Temporal Analysis of Infectious Diseases

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Message from the Guest Editor

Epidemiological research on the pathogenesis, diagnosis, and treatment of infectious diseases is a broad field of work with renewed validity in the face of social changes and new threats. The spatiotemporal distribution is central in the knowledge of the development, transmission, spread and dynamics of these diseases.

New technologies and GIS methods together with highly structured mathematical and statistical techniques have a special utility in describing and analyzing infectious disease incidence. Specifically, Bayesian inference methods allow the analysis of models with complex and flexible structures suitable to represent the diverse characteristics present in each geographical environment and disease.

Tuberculosis, hepatitis, HIV, influenza, malaria, dengue, zika and other vector-borne diseases are a constant concern for health authorities, practitioners and patients. A variety of environmental, climatic and socio-economic factors underlie their spatiotemporal patterns. In addition, factors such as changes in climate, habits or land use intervene and complicate the understanding of these processes.





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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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