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Advanced Studies in Epidemiology and Statistical Modeling of COVID-19 and Other Infectious Diseases

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Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editors

Probably, infectious diseases have always spread among living species. The first scientific publications on deterministic mathematical models to quantitatively describe the evolution of epidemics appeared in the first half of the 20th century. However, even nowadays, probabilistic models and statistics are fundamental in epidemiology. To fight against the COVID-19 pandemic and to control it, ancient and modern methods have been used, such as quarantine, face masks, disinfection, and mRNA vaccines. In addition, probabilistic models and statistical methods have been providing a significant contribution to this aim, for example to identify the factors that are mainly influencing COVID-19 diffusion, to predict the effect of measures for reducing virus diffusion, and to optimize vaccination campaigns. Beside COVID-19, it is also important to study other infectious diseases, e.g., tuberculosis, AIDS, monkeypox, etc.

This Special Issue will focus on some advanced statistical studies on COVID-19 and other infection diseases.

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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X), founded in 2013, now has a firm history of publishing peer-reviewed, state-of-the-art research papers on vaccines and vaccination in the broadest sense. Areas covered include, but are not limited to, novel and emerging vaccine technologies, building on in-depth knowledge of what constitutes a protective immune response. These can be new vaccines for old diseases, or old vaccines for new diseases. Vaccines against cancer and autoimmune diseases explicitly are also within the scope of the journal. Because public opinion and even government policies towards vaccines and vaccination have changed, vaccine policy and public health issues are major concerns. Climate change will also have an impact on the spread of infectious diseases, and thus also on vaccine and vaccination policies worldwide.

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