

## Special Issue

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

### 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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### Guest Editors

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### Deadline for manuscript submissions

closed (31 August 2023)



## Vaccines

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## About the Journal

### 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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### Editor-in-Chief

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#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.1 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).