

## 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.

### Guest Editors

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### Deadline for manuscript submissions

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## Vaccines

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## About the Journal

### Message from the Editor-in-Chief

*Vaccines* (ISSN 2076-393X) has had a 6-year history of publishing peer-reviewed state of the art research that advances the knowledge of immunology in human disease protection. Immunotherapeutics, prophylactic vaccines, immunomodulators, adjuvants and the global differences in regulatory affairs are some of the highlights of the research published that have shaped global health. Our open access policy allows all researchers and interested parties to immediately scrutinize the rigorous evidence our publications have to offer. We are proud to present the work and perspectives of many to contribute to future decisions concerning human health.

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### Editor-in-Chief

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