



# BioTech



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## Bioinformatics and High-Performance Computing Methods for Deciphering and Fighting COVID-19

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Deadline for manuscript submissions:

**closed (30 June 2022)**

### Message from the Guest Editors

COVID-19 poses many challenges at biological, medical, and epidemiological levels. The challenges may benefit from high-performance computing infrastructures and novel software pipelines, including bioinformatics for basic research, computer simulation for epidemiology and disease modelling, and big data integration, for example, for connecting disease data with environmental and climate data, mobile applications, wearable sensors to trace people or to collect health data, telemedicine infrastructures to collect health data and to remotely assist COVID-19 patients with mild symptoms, data science and data analytics solutions for statistical and data mining analysis of data at several levels, including mood and sentiment analysis of long-time quarantined people as well as care givers and healthcare personnel.

This Special Issue invites submissions from bioinformaticians, data scientists, biologists, as well as medical doctors and epidemiologists, to present (high-performance) computing methods for deciphering COVID-19 and interdisciplinary applications for fighting the COVID-19 pandemic.



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# Special Issue