

Special Issue

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

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.

Guest Editors

Prof. Dr. Mario Cannataro

Department of Medical and Surgical Sciences, University "Magna Graecia" of Catanzaro, 88100 Catanzaro, Italy

Dr. Giuseppe Agapito

Department of Legal, Historical, Economic and Social Sciences, University "Magna Graecia" of Catanzaro, 88100 Catanzaro, Italy

Deadline for manuscript submissions

closed (30 June 2022)



BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



mdpi.com/si/76495

BioTech
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biotech@mdpi.com

[mdpi.com/journal/
biotech](https://mdpi.com/journal/biotech)





BioTech

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.8
Indexed in PubMed



[mdpi.com/journal/
biotech](https://mdpi.com/journal/biotech)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Massimo Negrini
Department of Morphology, Surgery and Experimental Medicine,
University of Ferrara, Ferrara, Italy

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, PubMed, PMC, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Biotechnology and Applied Microbiology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).