



Matrix Metalloproteinases in Health and Disease in the Times of COVID-19

Guest Editors:

Dr. Carlos Fernandez-Patron

Department of Biochemistry,
Mazankowski Alberta Heart
Institute, Cardiovascular
Research Center, Faculty of
Medicine and Dentistry,
University of Alberta, Edmonton,
AB, Canada

Dr. Eugenio Hardy

Lead, Drug Delivery Lab, Center
for Molecular Immunology,
Havana, Cuba

Deadline for manuscript
submissions:

closed (20 November 2021)

Message from the Guest Editors

Dear Colleagues,

The pandemic triggered by SARS-CoV-2 (the virus causative of COVID-19) highlights the urgent need to advance our understanding of the interactions between emerging pathogens and their host, as a way to catalyze the design of biomedical and social interventions to mitigate and treat infections. Pathogen–host interactions involve target tissues as well as the immune system and proteinases, enzymes that catalyze the cleavage of specific protein substrates. The role that proteinases play in these interactions is unclear. Matrix metalloproteinases (MMPs) catalyze the cleavage of extracellular matrix components, growth factors, cytokines, and receptors thereof to govern immune responses; cardiovascular function; and the development of cardiovascular diseases, diabetes, cancer, and rheumatoid arthritis (a chronic autoimmune disorder). Individuals with these comorbidities have an increased susceptibility to developing severe COVID-19 illnesses. The roles played by proteinases (MMPs in particular) in the regulation of SARS-CoV-2–host interactions and in increasing the susceptibility to COVID-19 illnesses are largely unknown. [...]





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and
Molecular Medicine, Faculty of
Health and Medical Sciences,
University of Copenhagen,
Blegdamsvej 3C, DK-2200
Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer
Science, Virginia Commonwealth
University, Richmond, VA 23284,
USA

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Biochemistry*)

Contact Us

Biomolecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
[X@Biomol_MDPI](https://twitter.com/Biomol_MDPI)