



Rare Diseases Associated with SNPs and Protein Structure Modifications

Guest Editors:

Prof. Dr. Sabina Janciauskiene

German Center for Lung
Research, Hannover, Germany

Dr. Artur Góra

Tunneling Grup, Biotechnology
Centre, Silesian University of
Technology, Krzywoustego 8, 44-
100 Gliwice, Poland

Deadline for manuscript
submissions:

closed (31 August 2022)

Message from the Guest Editors

Dear Colleagues,

Insufficient data limits our knowledge of rare diseases. Genetic disorders often manifest in mutated proteins with modified structure and functionality, and finally lead to changes in metabolic pathways and organism homeostasis. The discovery of the linkage between single-nucleotide modification and the observed dysfunction of the organism is a challenging task, and requires the co-operation of genetics, biochemists, structural biologists, and many other specialists.

The aim of the current Special Issue is to provide substantial contributions to the field examining the structure–function relationship of the changes in proteins caused by single-nucleotide polymorphisms or their combination. We welcome original research papers presenting novel computational/experimental studies, as well as reviews, in themes including, but not limited to:

- Newly identified disorders modifying proteins' function;
- Studies of the linkages of mutations in proteins with metabolic pathways;
- Structural analysis of the molecular basis of protein disfunction.

Prof. Dr. Sabina Wallmark

Dr. Artur Góra

Guest Editors





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 and Molecular Biology) / CiteScore - Q1 (Biochemistry)

Contact Us

Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
X@Biomol_MDPI