Special Issue

State-of-Art in Protein Engineering

Message from the Guest Editors

Protein engineering is a branch of molecular biology and biotechnology aimed at the modification of natural protein structures and functions to obtain new proteins with altered or novel structural properties and/or biological functions for better use in scientific research. medicine, agriculture and industry. Protein engineers use recombinant DNA technology to create genes for new proteins with desirable amino acid sequences. Directed evolution methods select variants with desirable properties among a great variety of randomly engineered sequences, thus mimicking natural evolution processes. Both approaches are complimentary and widely use computational methods, among them being the very promising new technique of artificial intelligence. Modern protein engineering includes the modification of protein stability, ligandbinding properties, enzyme activity and specificity; de novo design; the improvement of the therapeutic properties of medicinal proteins, etc. Original manuscripts and reviews dealing with any aspect of protein engineering are very welcome for inclusion in the Special Issue.

Guest Editors

Prof. Dr. Dmitry A. Dolgikh

Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, ul. Miklukho-Maklaya, 16/10, 117997 Moscow, Russia

Dr. Lada E. Petrovskaya

Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences, ul. Miklukho-Maklaya, 16/10, 117997 Moscow, Russia

Deadline for manuscript submissions

closed (30 April 2022)



Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/80270

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

mdpi.com/journal/biomolecules





Biomolecules

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 9.2 Indexed in PubMed



About the Journal

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.

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

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)

