Special Issue

Development and Application of Nanomaterials in Biology

Message from the Guest Editors

This Special Issue aims to attract high-quality reports on different nanoarchitectures in correlation with their ability to affect biochemical processes via different mechanisms, which are exemplified as the following: Reports on the design and synthesis of nanomaterials exhibiting magnetothermal. photothermal, photodynamic and chemodynamic therapeutic effects on cell viability are appreciated. The binding of different nanomaterials with biomolecules exemplified, but not limited by enzymes, blood proteins, DNA and neurotransmitters will be in a focus of the Special Issue. The development of nanomaterials with cellular- or tissue-contrasting effects is also within the framework of the Special Issue. Research providing justifications of mechanisms of the cellular uptake behavior of nanomaterials in correlation with their nanoarchitecture is also welcome, as well as studies regarding the design and synthesis of nanomaterials for target binding with biorelevant macromolecules or penetration into specific cells and/or cell compartments.

Guest Editors

Prof. Dr. Asiva Mustafina

Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center, Russian Academy of Sciences, Kazan, Russia

Dr. Rustem Zairov

Arbuzov Institute of Organic and Physical Chemistry, FRC Kazan Scientific Center, Russian Academy of Sciences, Kazan, Russia

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

mdpi.com/journal/biomolecules





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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

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