



an Open Access Journal by MDPI

# Chemical Biology and Biotechnology of Nucleosides, Nucleotides, and Nucleic Acids

Guest Editors:

#### Prof. Dr. Xingguo Liang

 College of Food Science and Engineering, Ocean University of China, Qingdao 266003, China
Laboratory for Marine Drugs and Bioproducts, Qingdao National Laboratory for Marine Science and Technology, Qingdao 266235, China

#### Prof. Dr. Xinjing Tang

State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing, China

Deadline for manuscript submissions: **31 December 2025** 



mdpi.com/si/210685

## Message from the Guest Editors

## Dear Colleagues,

Recently, there has been a great development of science and technology for NASs (nucleic acid substances of nucleic acids, nucleotides, and nucleosides), especially highlighted by the success of mRNA vaccines. Many new functions have been discovered for nucleic acids, such as circular RNA, circular ssDNA, and lncRNA, as well as other NASs. For example, circular RNAs have been found to regulate gene expression with many interesting pathways, and some nucleosides and nucleotides have been found to encompass nutritional and healthcare functions. On the other hand, many novel understandings of the relationship between their structures and functions are proposed, especially for left-handed DNA or RNA, guadruplex, triplex, R-loop, as well as the complex between NASs and other molecules such as proteins and carbohydrates. For this Special lssue entitled "Chemical Biology and Biotechnology of Nucleosides, Nucleotides, and Nucleic Acids", the wide scope of research on NASs of either natural or artificially synthesized ones is welcome. We hope that these high-level research results can deepen our understanding of biomolecules and even life.







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