



## Design, Synthesis and Biological Applications of Functional Compounds and Materials

Guest Editor:

**Dr. Olga Yu Bakulina**

Institute of Chemistry, Saint  
Petersburg State University,  
198504 Peterhof, Russia

Deadline for manuscript  
submissions:

**30 July 2024**

### Message from the Guest Editor

This Special Issue will primarily focus on the rational design and synthesis of the organic functional compounds and materials employed in the biological applications and will include (but are not limited to) discussions of drug development, administration and delivery, personalized healthcare and the monitoring of the parameters of biological objects and living bodies.

The modern toolbox of synthetic chemistry provides extremely broad chemical diversity, and rational design plays an extremely vital role in the development of functional compounds and materials, increasing the win rate of the targeted synthesis. Approaches to the targeted synthesis of biological and other applications are also essential for the development of the functional compounds and materials.

In this Special Issue, we welcome the studies devoted to the design of functional compounds and materials and synthetic approaches for the preparation of various classes, families and scaffolds of such materials. We are also interested in structure–property studies, examinations of biological activity and research into other functional applications of organic compounds and materials.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maurizio Battino

Department of  
Odontostomatologic and  
Specialized Clinical Sciences,  
Sez-Biochimica, Faculty of  
Medicine, Università Politecnica  
delle Marche, Via Ranieri 65,  
60100 Ancona, Italy

## Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

## 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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

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

## Contact Us

*International Journal of Molecular  
Sciences* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

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

mdpi.com/journal/ijms  
ijms@mdpi.com  
X@IJMS\_MDPI