

Special Issue

Structure and Function of Small Heat Shock Proteins

Message from the Guest Editor

Small heat shock proteins form a very large and diverse family of proteins ubiquitously expressed in viruses, archaea, bacteria, plants, and animals. Together with other chaperones small heat shock proteins control proper protein folding and prevent accumulation of denatured proteins in the cells. Small heat shock proteins are involved in many intra- and extracellular processes including control of redox state, proteasomal and autosomal protein degradation, apoptosis, regulation of cytoskeleton and muscle contraction, immunological response and many others. Mutations of small heat shock proteins correlate with many congenital disorders including cataract, different neurodegenerative diseases, cardiomyopathies and myopathies. Moreover, small heat shock proteins can be used as markers of different human diseases including cancer.

We call for original research and reviews and perspectives that to explore the current knowledge on the structure and function of small heat shock proteins and their probable involvement in different cellular processes and human diseases.

Guest Editor

Prof. Dr. Nikolai B. Gusev

Department of Biochemistry, School of Biology, Moscow State University, Moscow 119991, Russian Federation

Deadline for manuscript submissions

closed (31 March 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/33039

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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.

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

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 and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)