



Telomeres in Development, Senescence and Genome Instability

Guest Editor:

Dr. Alla Kalmykova

Head of Laboratory of
Developmental Epigenetics,
Koltzov Institute of
Developmental Biology of RAS,
119334 Moscow, Russia

Deadline for manuscript
submissions:

30 August 2024

Message from the Guest Editor

Dear Colleagues,

Telomere biology, as a special area of biology, was brought to light in 1971–1973 by the brilliant prediction of Alexey Olovnikov (1936–2022) about the under-replication of the ends of linear chromosomes. In his telomeric theory of aging, Alexey Olovnikov also determined the key role of telomeres in various fundamental processes, such as cell death, cancer, and aging. Indeed, telomere functions are closely linked to many cellular processes, in particular through the telomere signalling mechanisms, although their molecular basis remains poorly understood. Telomere shortening and telomere dysfunction are the hallmarks of cellular senescence, aging and oncogenesis, highlighting the importance of telomere state in genome stability. The aim of this Special Issue is to bring together research and methodological articles, reviews and opinions of the authors studying the diverse and fascinating field of telomere biology.

Topics include, but are not limited to, the following: Telomere disorders and cell death; Telomeres and genome stability; Epigenetics of telomeres in development and aging; Telomeres in aging and senescence.





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

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI