



life



an Open Access Journal by MDPI

Genomic and Transcriptomic Alterations in Cancer and Aging

Guest Editor:

Dr. Anastasiya V. Snezhkina
Engelhardt Institute of Molecular
Biology, Russian Academy of
Sciences, 119991 Moscow, Russia

Deadline for manuscript
submissions:

closed (15 July 2022)

Message from the Guest Editor

Carcinogenesis is widely associated with genomic and transcriptomic alterations, including genetic mutations (base substitutions, insertions, deletions, and chromosomal rearrangements), copy number variations, changes in mRNA and noncoding RNA expression levels, and alternatively spliced variants. All these changes also occur during aging that, in turn, is a major risk factor for cancer development. In both cases, the key question is how genomic and transcriptomic alterations support cancer initiation and progression and what their contribution to aging is. The close interconnection of cancer and aging implies the possibly shared mechanisms underpinning the two processes. However, the causative relations are not straightforward, as these processes are fundamentally opposite in the context of cell biological functioning. A better understanding of cancer and aging biology will allow revealing the molecular connections that presently remain unclear.



mdpi.com/si/64117

Special Issue



life



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona Institute of Science and Technology, 08028 Barcelona, Spain

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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](#), [CAPlus / SciFinder](#), [AGRIS](#), and [other databases](#).

Journal Rank: JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)

Contact Us

Life Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/life
life@mdpi.com
[X@Life_MDPI](#)