

Special Issue

Cancer Genomics and Transcriptomics: Uncovering New Frontiers in Tumor Biology

Message from the Guest Editors

Cancer genomics and transcriptomics have revolutionized our understanding of tumor biology, revealing the intricate molecular landscapes that drive cancer progression and response to therapy. Key topics include understanding the functional roles of established oncogenes and tumor suppressor genes, the impacts of non-coding RNAs in cancer, and the influence of somatic mutations on tumor heterogeneity and drug resistance. Furthermore, we will highlight integrative strategies that merge genomics and transcriptomics with other omics data to unravel the complexities of tumor biology and enhance patient stratification. This Special Issue will also address the challenges and opportunities associated with translating genomic and transcriptomic discoveries into clinical practice. By bringing together contributions from leading researchers in the field, this Special Issue will provide insights into the latest methodologies, foster collaborative efforts, and stimulate future research directions. Ultimately, our goal is to enhance our understanding of the molecular mechanisms driving cancer, paving the way for more effective and targeted treatment strategies.

Guest Editors

Dr. Panagiotis Adamopoulos

Department of Biochemistry and Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens, Athens, Greece

Dr. Panagiotis Tsiakanikas

Department of Biochemistry and Molecular Biology, Faculty of Biology, National and Kapodistrian University of Athens, Athens, Greece

Deadline for manuscript submissions

12 December 2025



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/217907

Life

Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
life@mdpi.com

mdpi.com/journal/

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





Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



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



About the Journal

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.

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

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, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)