

Special Issue

New Insights into Cell Death Mechanisms and Multi-Omics in Cancer

Message from the Guest Editor

Cancer remains one of the leading causes of morbidity and mortality worldwide, and a deeper understanding of the molecular mechanisms governing cell death is central to the development of more effective therapeutic strategies. This Special Issue aims to bring together cutting-edge research that explores the diverse and interconnected pathways of cell death—including apoptosis, necroptosis, pyroptosis, ferroptosis, cuproptosis, autophagy-dependent cell death, and immunogenic cell death—in the context of human malignancies. A particular focus will be placed on the integration of **multi-omics approaches**—encompassing genomics, transcriptomics, proteomics, metabolomics, and epigenomics—to unravel the complex regulatory networks that determine cancer cell fate. By leveraging large-scale omics datasets, single-cell analyses, and real-world data, this collection seeks to identify novel biomarkers, therapeutic targets, and resistance mechanisms relevant to oncology practice.

Guest Editor

Dr. Yu-Guang Chen

Division of Hematology and Oncology, Department of Internal Medicine, Tri-Service General Hospital, National Defense Medical Center, Taipei, Taiwan

Deadline for manuscript submissions

30 December 2026



Life

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 7.1
Indexed in PubMed



mdpi.com/si/278617

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

mdpi.com/journal/

life





Life

an Open Access Journal
by MDPI

Impact Factor 3.9
CiteScore 7.1
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)