



Epigenetics and Molecular Genetics of Cancer

Guest Editor:

Dr. Carmen Cristina Diaconu

Stefan S. Nicolau Institute of
Virology, Romanian Academy,
030304 Bucharest, Romania

Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editor

Cancer results from the disruption of the balance of cell growth and cell death that is driven by genetic and epigenetic alterations. The molecular profiling of cancer, especially after the emergence of Next-Generation Sequencing technologies, was a huge leap in understanding carcinogenesis, the development of biomarkers for early diagnosis and the development of targeted treatments.

Since most cancers are sporadic, we are still far from understanding the whole complexity of the molecular mechanisms, genes and epigenetic regulators that play a role in cancer development and that have the potential to be exploited as biomarkers for diagnosis, prognosis, personalized therapy targets and the prediction of treatment response.

Another important challenge is to comprehend the role of environmental factors in the modulation of the epigenome and how we can use this knowledge in cancer prevention.

The aim of this Special Issue of *IJMS* is to assemble the most relevant works on the epigenetics and molecular genetics mechanisms involved in cancer development, and on how these mechanisms are modulated and can be exploited for the development of more effective treatment strategies.





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