

## Special Issue

# The Cellular Response to DNA Damage: From DNA Repair to Polyploidy and Beyond

### Message from the Guest Editor

The purpose of this Special Issue is to provide a comprehensive update on the growing complexity of cellular responses to DNA-damaging agents. Articles on advances in single-cell detection methodology to study the long-term fate of human cells following anticancer treatment are particularly welcomed. Potential topics include, but are not limited to:

- DNA repair deficiency syndromes
- DNA repair pathways
- Cell cycle checkpoints
- Biological outputs orchestrated by p53 signaling
- Cancer cell dormancy and disease relapse post-therapy
- Reversible apoptosis (anastasis)
- Reversible polyploidy/multinucleation (atavistic model of cancer)
- Novel therapeutic strategies targeting dormant cancer cells

### Guest Editor

Prof. Dr. Razmik Mirzayans

Department of Oncology, University of Alberta, Cross Cancer Institute, Edmonton, AB T6G 1Z2, Canada

### Deadline for manuscript submissions

closed (31 August 2020)



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/17192](https://mdpi.com/si/17192)

*International Journal of  
Molecular Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[ijms@mdpi.com](mailto:ijms@mdpi.com)

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





# International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



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



## About the Journal

### 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.

---

### 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

---

### 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 (Organic Chemistry)