

Special Issue

Molecular Biology of Cancer— Implications for Diagnosis and Treatment

Message from the Guest Editors

Cancer has a genetic background. The expression of oncogenesis is an important event in the early stages of tumour formation. Most common cancers are caused by acquired mutations in somatic cells, whilst specific germline mutations account for rare hereditary cancer syndromes. Through cutting-edge technologies, including genomics, computational biology, tumour imaging, and in vitro and in vivo functional models, it has become feasible to identify genes involved in the development of cancer. Furthermore, advances in genomics technology facilitating the routine DNA and RNA sequencing of tumours, single-cell transcriptomic profiling of cancer cells, and whole-genome CRISPR screens have contributed to the growing success of oncology-precision-medicine-targeted therapies directed against tumours and components of the tumour microenvironment. Through this Special Issue, we aim to shed light on novel molecular diagnostic technologies, along with new therapeutic approaches, based on recent advances in cancer biology and molecular genetics.

Guest Editors

Dr. Stergios Boussios

1. Faculty of Medicine, School of Health Sciences, University of Ioannina, 451 10 Ioannina, Greece
2. Department of Medical Oncology, Ioannina University Hospital, 455 00 Ioannina, Greece
3. Faculty of Medicine, Health and Social Care, Canterbury Christ Church University, Canterbury CT1 1QU, UK
4. Faculty of Life Sciences & Medicine, School of Cancer & Pharmaceutical Sciences, King's College London, London SE1 9RT, UK
5. Medway NHS Foundation Trust, Windmill Road, Gillingham ME7 5NY, Kent, UK
6. AELIA Organization, 9th Km Thessaloniki–Thermi, 57001 Thessaloniki, Greece

Prof. Dr. Matin Sheriff

Department of Medical Oncology, Medway NHS Foundation Trust, Gillingham, Kent ME7 5NY, UK

Deadline for manuscript submissions

closed (31 December 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/163770

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)