

## Special Issue

# Advances in Lung Cancer: From Genetic Landscape to Treatment

### Message from the Guest Editor

Precision medicine, including both targeted therapies and immunotherapy, has dramatically changed and improved the clinical practice of lung cancer. The molecular characterization of targetable alterations is mandatory to assess the best therapeutic approaches. In this context, liquid biopsy, particularly circulating cell free tumor DNA, has recently acquired great value as a complement of tissue testing. In addition, molecular investigations of lung cancer are warranted to uncover and face resistance mechanisms to therapy, and identify new predictive biomarkers. Therefore, the continuous optimization of next-generation sequencing techniques is crucial for a complete molecular analysis, including a plethora of genetic alterations from gene mutations to gene fusions and gene expression profiling.

This Special Issue of the International Journal of Molecular Sciences welcomes original articles, case reports, reviews and metanalyses on the advances in lung cancer covering the genetic landscape to treatment.

We look forward to receiving your contributions.

---

### Guest Editor

Dr. Rossella Bruno

Unit of Pathological Anatomy, University Hospital of Pisa, Via Roma 67, 56126 Pisa, Italy

---

### Deadline for manuscript submissions

26 August 2025



## International Journal of Molecular Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/194766](https://mdpi.com/si/194766)

*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)