

Special Issue

Molecular Alterations in Non-small Cell Lung Cancer: Biology and Therapeutic Implications

Message from the Guest Editor

In the last decade, studies on molecular alterations in non-small cell lung cancer (NSCLC) have improved the knowledge on the biological pathways involved in tumor development, as well as specific information involving tumor growth signals, inhibition of apoptosis, stimulation of neoangiogenesis, and escape from immune system. Some of the detected alterations in NSCLC have led to the evolution of antineoplastic therapies; notable examples are represented by activating mutations of the epidermal growth factor receptor (EGFR) gene; furthermore, the list of potentially actionable target genes in NSCLC is constantly increasing. In addition, some emerging molecular alterations appear to be associated with differences in terms of response to immune checkpoint inhibitors, and the mechanisms leading to these correlations are under investigation. This special issue explores the role of oncogenic drivers in terms of tumorigenesis and as potential therapeutic targets, as well as the NGS technologies needed to optimize the molecular characterization of NSCLC.

Guest Editor

Prof. Dr. Carlo Genova

Department of Internal Medicine and Medical Specialties, Università degli Studi di Genova, 16132 Genova, Italy

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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