

## 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.

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### Guest Editor

Prof. Dr. Carlo Genova

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### Deadline for manuscript submissions

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## International Journal of Molecular Sciences

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### Message from the Editor-in-Chief

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