



Advancements in Lung Cancer Precision Oncology Research and Treatments

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Message from the Guest Editors

Dear Colleagues,

Lung cancer is one of the most common malignancies and the first cause of cancer death worldwide. Significant improvements in lung cancer survival have been obtained in the last decade by introducing two novel therapeutic approaches for patients affected by non-small cell lung cancer (NSCLC), a histological subtype that includes approximately 85% of lung cancers: immunotherapy and gene-targeted therapy. These treatments are based on identifying predictive biomarkers, revolutionizing daily practice in modern pathology and medical oncology, and bridging consistent survival advantages in NSCLC patients. Currently, EGFR, KRAS, BRAF, ERBB2, ALK, ROS1, MET, RET, and NTRK genetic alterations and PD-L1 immunohistochemical expression are used to make treatment decisions, and a great number of ongoing clinical trials investigate novel molecular targets, medications, treatment combinations and protocols against lung cancer. This Special Issue aims to shed light on the most recent advancements in precision oncology research and current innovations in targeted and immunological treatments against lung cancer.





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Message from the Editor-in-Chief

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