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Advancements in Lung Cancer Precision Oncology Research and Treatments

Guest Editors:

Dr. Panagiotis Paliogiannis

Anatomic Pathology and Histology Unit, Department of Medicine, Surgery and Pharmacy, University of Sassari, Viale San Pietro 43, Sassari, Italy

Prof. Dr. Giuseppe Palmieri

Unit of Immuno-Oncology, Department of Medicine, Surgery and Pharmacy, University of Sassari, Viale San Pietro 43, Sassari, Italy

Dr. Francesca Colonese

Medical Oncology Unit, Fondazione IRCCS San Gerardo dei Tintori Hospital in Monza, Via Giambattista Pergolesi 33, 20900 Monza, Italy

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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, genetic alterations and PD-I 1 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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Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA 2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

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