

Special Issue

Lung Cancer Diagnosis and Prognosis Prediction

Message from the Guest Editors

Lung cancer remains the leading cause of cancer-related mortality worldwide, and its curability depends on earliest detection and precise estimation of biological aggressiveness. Advances in tomographic techniques, image analytics, and systems-level biology have transformed radiology into a quantitative bioscience that non-invasively interrogates tumor phenotype, microenvironment, and evolutionary trajectories. This paradigm shift has generated imaging biomarkers that rival or replace tissue-based metrics for detection, stratification, diagnosis, and prognosis. This Special Issue invites original research and reviews on clinical translation of imaging biomarkers in early-stage lung cancer, especially low-dose CT screening, dual-energy CT, photon-counting CT, hybrid PET/CT, and AI-driven radiomics and habitat imaging to decode subtypes, molecular phenotypes, heterogeneity, and metastatic potential.

Guest Editors

Dr. Jieke Liu

1. School of Medicine, University of Electronic Science and Technology of China, Chengdu, China
2. Department of Radiology, Sichuan Cancer Hospital & Institute, Chengdu, China

Dr. Zhigang Chu

Department of Radiology, The First Affiliated Hospital of Chongqing Medical University, Chongqing, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diagnostics@mdpi.com

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Editor-in-Chief

Prof. Dr. Andreas Kjaer

Department of Clinical Physiology, Nuclear Medicine & PET National University Hospital, Rigshospitalet, University of Copenhagen, Blegdamsvej 9, DK-2100 Copenhagen, Denmark

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