Special Issue

Early-Stage Lung Cancer Diagnostics

Message from the Guest Editors

Lung cancer remains the leading cause of cancerrelated 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, dualenergy CT, photon-counting CT, hybrid PET/CT, and Aldriven radiomics and habitat imaging to decode subtypes, molecular phenotypes, heterogeneity, and metastatic potential.

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