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Advancements in Image-Guided Radiotherapy for the Treatment of Lung Cancer

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Deadline for manuscript
submissions:

30 November 2024

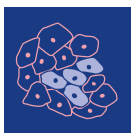
Message from the Guest Editors

Image-guided radiotherapy (IGRT) takes place at every step of the treatment in lung cancer, from treatment planning with fusion imaging, to daily in-room repositioning. Managing tumor and organ motion has been possible since the introduction of routine four-dimensional computed tomography (4DCT) use. The assessment of respiratory motion has been performed with “passive” techniques based on reconstruction images from 4DCT planning, or “active” techniques adapted to the patient's breathing. Additionally metabolic imaging has a great importance in radiotherapy planning, dose delivering and adaptive approach, with the aim to increase the accuracy in target definition and sparing of healthy tissues. Magnetic resonance imaging (MRI) and functional imaging also play an important role in lung cancer radiation and open the way for adaptive RT. Topics for this Special Issue include technical advances in RT and their clinical impact on lung cancer treatment.



mdpi.com/si/198558

Special Issue



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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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Journal Rank: JCR - Q1 (Oncology) / CiteScore - Q1 (Oncology)

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