Special Issue

Image-Assisted High-Precision Radiation Oncology

Message from the Guest Editor

Radiation oncology has achieved remarkable advancements in cancer care, with image-assisted techniques emerging as a cornerstone for achieving effective and high-precision treatment. By integrating medical imaging modalities such as computed tomography (CT), magnetic resonance imaging (MRI), positron emission tomography (PET), four-dimensional CT (4DCT), dual-energy CT (DECT), and optical surface imaging, radiation therapy can be tailored to the unique anatomical and physiological characteristics of each patient. Furthermore, the addition of artificial intelligence (AI) techniques and radiomics promote efficient and standardized radiotherapy, while also offering predictive insights into treatment optimization and tumor response. As the field progresses, image-assisted high-precision radiation therapy is poised to improve survival rates and reduce treatment-related complications, marking a significant leap toward personalized oncology care.

Guest Editor

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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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