

Personalized Radiation Therapy for Oncology

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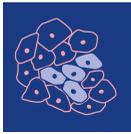
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Message from the Guest Editor

Improvements in the targeting of genomic and immunosuppressive cancer drivers have led to major advances in the treatment of various tumors. Personalized oncology treats patients according to these specific disease mechanisms of their individual cancers and aims to improve the outcome. In the era of targeted therapies, radiation therapy has the potential to become a critical component of systemic cancer therapy. Combined-modality approaches with immunotherapy or other targeted therapies may have synergistic effects. Radiation therapy also has the possibility to personalize treatments through changes in treatment technique or the combination of different modalities, such as photon radiotherapy with particle therapy. Personalized radiation oncology can include RT technical aspects, imaging, and radiomics. The recent technology-driven improvements of treatment conformity, imaging, and adaptive radiotherapy are widening the therapeutic window of radiation oncology in the era of precision medicine and allow individual dose escalation strategies but also allow new possibilities for re-irradiation in recurrent situations.





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Message from the Editor-in-Chief

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