

## Special Issue

# Research Progress in Artificial Intelligence of Radiation Oncology: Diagnosis and Therapy

### Message from the Guest Editor

Artificial intelligence is increasingly shaping how we approach cancer diagnosis and treatment, and radiation oncology is one of the areas where this change is especially evident. In recent years, advancements in deep learning, large vision-language models, radiomics, high-quality histopathological images and multimodal data integration have opened new possibilities for enhancing precision, efficiency and personalisation in cancer care. At the same time, the field is still growing. Questions around clinical reliability, validation across diverse populations, interpretability, integration into routine workflows and ethical use remain highly relevant. It is therefore important to not only present technical advances but also examine how these tools can be translated into meaningful clinical benefits. This Special Issue aims to bring together high-quality contributions that reflect the current progress of AI in radiation oncology, with particular focus on its role in diagnosis and therapy. By gathering work from researchers and clinicians across disciplines, we hope this issue will provide a valuable picture of the domain and encourage further discussion on its future direction.

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### Guest Editor

Dr. Abadh Kishore Chaurasia  
Menzies Institute for Medical Research, Hobart, Australia

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### Deadline for manuscript submissions

31 October 2026



## Cancers

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*Cancers*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[cancers@mdpi.com](mailto:cancers@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Cancers* (ISSN 2072-6694) is an international, online journal addressing both clinical and basic science issues related to cancer research. The journal will continue its 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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### Editor-in-Chief

Prof. Dr. Samuel C. Mok

Department of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

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