



## Advances in Radiation Therapy for Tumor Treatment

Guest Editors:

**Dr. Matteo Pepa**

Bioengineering Unit, Clinical  
Department, National Center for  
Oncological Hadrontherapy  
(CNAO), 27100 Pavia, Italy

**Dr. Stefania Volpe**

1. Department of Oncology and  
Hemato-Oncology, University of  
Milan, 20122 Milan, Italy  
2. Division of Radiation Oncology,  
IEO European Institute of  
Oncology IRCCS, 20141 Milan,  
Italy

Deadline for manuscript  
submissions:

**closed (10 January 2024)**

### Message from the Guest Editors

Dear Colleagues,

We are inviting submissions to the Special Issue on Advances in Radiation Therapy for Tumor Treatment, which aims to cover all of the latest outstanding developments in radiation oncology.

Radiotherapy has a central role in the multidisciplinary field of oncology, being indicated in approximately half of cancer patients, possibly in synergistic combination with other treatment modalities. Technological advances in imaging and treatment planning and delivery have led to more accurate treatments, reduced treatment times, improved oncological outcomes, and reduced toxicity. A deeper understanding of tumour biology has fostered the personalization of treatments and a more accurate selection of patients. The advent of artificial intelligence and the availability of a large amount of data hold promise for the optimization of the whole radiotherapy workflow and refinement of the response assessment.

Overall, advances in radiation oncology have enabled highly personalized and precise treatments, with a positive impact on tumour outcomes and patients' quality of life.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**  
Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](https://twitter.com/Applsci)