

## Special Issue

# Nuclear Medicine and Radiotherapy in Cancer Treatment

### Message from the Guest Editors

In tackling the global health challenge of cancer, this Special Issue offers a critical exploration of innovative solutions. As technology assumes an increasingly pivotal role in modern medicine, the convergence of nuclear and radiation physics with oncology presents boundless potential. Radiation therapy, a cornerstone in cancer treatment, provides precise and effective means to combat tumors and alleviate patient suffering. On the other hand, nuclear medicine's versatile applications, spanning from precise imaging for diagnosis, planning, and follow-up, to targeted therapies using radiopharmaceuticals, have revolutionized cancer care, ushering in personalized treatment paradigms. This Special Issue serves as a platform to delve into recent advancements and pioneering techniques in both domains. We welcome original contributions that probe into the development of cutting-edge methodologies for accurate diagnosis, treatment planning, and/or follow-up, alongside optimized approaches for radiation therapy-related dosimetry and technical enhancements in therapy delivery.

---

### Guest Editors

Dr. Pedro Costa

Nuclear Medicine Department, ESS - Polytechnic of Porto, 4200-072 Porto, Portugal

Dr. Ana Cravo Sá

Department of Radiotherapy, ESS - Polytechnic University of Porto, 4200-072 Porto, Portugal

---

### Deadline for manuscript submissions

closed (20 June 2025)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/204596](https://mdpi.com/si/204596)

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

[mdpi.com/journal/](https://mdpi.com/journal/)

[applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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.

---

### Editor-in-Chief

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

---

### 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, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )