

## Special Issue

# Advanced Radiopharmaceuticals for Cancer Imaging and Therapy

### Message from the Guest Editor

Advanced radiopharmaceuticals are transforming cancer imaging and therapy by providing highly targeted treatments. Targeted Alpha Therapy (TAT) utilizes alpha-emitting radionuclides to deliver potent radiation doses directly to cancer cells, sparing surrounding healthy tissue. Radiotherapy using beta-emitting radionuclides like Lutetium-177 and Yttrium-90 is another promising approach. Positron Emission Tomography (PET) imaging isotopes play a crucial role in cancer diagnosis and treatment planning. PET imaging provides detailed metabolic and molecular information about tumors, enabling precise staging and monitoring of treatment response. Overall, the integration of TAT, beta-emitting radionuclides, and PET imaging isotopes represents a significant advancement in personalized cancer therapy, offering improved outcomes through precise targeting and innovative imaging technologies.

### Keywords

- targetted alpha therapy
- radiotherapy
- positron emission tomography
- isotopes

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### Guest Editor

Dr. Arif Gulzar  
Center for Advanced Imaging, University of Queensland, Brisbane, QLD  
4072, Australia

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### Deadline for manuscript submissions

closed (30 November 2025)



## Applied Sciences

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Impact Factor 2.5  
CiteScore 5.5



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

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### Editor-in-Chief

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

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