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Section Radiopharmaceutical Sciences

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Section Information

The aim of Radiopharmaceutical Sciences section of the journal is to provide academic and industrial communities with open access to publications on development of primarily novel radiopharmaceuticals and their application for fundamental and applied studies in biology and medicine. The development of the radiopharmaceuticals considers the design, synthesis and radiolabeling of the agents, their biological and preclinical evaluation, and finally clinical application. Contributions may concern targeted, pre-targeted, and non-targeted radiopharmaceuticals ranging from small molecules via peptides, peptidomimetics and antibodies and derivatives thereof to particles for their use in gamma scintigraphy including single photon emission tomography (SPECT), positron emission tomography (PET) and endoradiotherapy. The field of diagnostic imaging and (radio) pharmaceutical therapy guided by the diagnostic imaging is of strong interest. The related topics of physics, dosimetry, radiopharmacy, and hybrid imaging are also accepted.

Section Editor-in-Chief

Dr. Irina Velikyan

Editorial Office

pharmaceuticals@mdpi.com

MDPI

Grosspeteranlage 5

4052 Basel, Switzerland

Tel: +41 61 683 77 34

mdpi.com

Keywords

- Radiopharmaceuticals, agents, probes
- Radionuclides
- Imaging biomarkers
- Biological/preclinical evaluation
- First in-human clinical studies
- SPECT, PET/CT, PET/MRI
- Labeling chemistry
- Medicinal radiochemistry, (pre)clinical radiopharmacology, and radiopharmacy including GMP-compliant production
- Radiopharmaceutical drug development
- Radiotheranostics
- Hybrid imaging
- Organic molecules, high-molecular weight biomolecules, nano- and microparticles