

Special Issue

The Exciting Opportunities That Radiopharmaceuticals Have to Offer: Nuclear Medicine Imaging, Therapy and Drug Delivery Systems

Message from the Guest Editors

Radiopharmaceuticals play a transformative role in nuclear medicine by enabling both precise imaging and targeted treatment at the molecular level. Recent innovations in radiochemistry, molecular probe design, and drug delivery platforms have significantly enhanced the specificity, bioavailability, and therapeutic index of these agents. Advances in targeted radionuclide therapy (TRT) have opened up new therapeutic pathways for combatting cancer and inflammatory diseases. At the same time, engineering drug delivery systems—such as nanocarriers and ligand-conjugated scaffolds—has improved the in vivo stability, biodistribution, and cell/tissue penetration of radiopharmaceuticals. This Special Issue aims to gather original research and reviews on cutting-edge developments in the design, synthesis, and application of radiopharmaceuticals for both diagnostic and therapeutic purposes. Topics of interest include novel imaging probes, PET/SPECT tracers, theranostic agents, and innovative drug delivery approaches for crossing biological barriers. Contributions highlighting the translational and clinical potential of radiopharmaceuticals are particularly welcome.

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