



Radiopharmaceuticals: From Design to Applications

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Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editor

Radiopharmaceuticals play a pivotal role in nuclear medicine, where they are widely used as diagnostic and therapeutic agents with their most important applications found in the understanding of neurodegenerative diseases, myocardial imaging, and the diagnosis and treatment of cancer.

For the potential impact of nuclear medicine in patient management and personalized medicine to be fully realized, there remains an urgent need to develop new radiopharmaceuticals for molecular targets of disease relevance that are not currently addressed while exhibiting optimal *in vivo* performance. Nevertheless, the development of the “ideal” radiopharmaceutical is challenging since a plethora of issues need to be addressed such as selectivity and specificity for the molecular target in question, feasible chemistry for clinical applications, and optimal pharmacokinetic characteristics.

This Special Issue is dedicated to all efforts towards the development of target-specific radiopharmaceuticals aiming to address unmet clinical needs, as well as novel methodologies for the design and development of more effective radiopharmaceuticals with optimal *in vivo* performance.





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Message from the Editor-in-Chief

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