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Gallium 68 Radiochemistry and Labelling Strategies

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Message from the Guest Editors

Gallium-68 (^{68}Ga) has proven to be an essential radionuclide for the fundamental biological studies, development of radiopharmaceuticals for clinical use, and drug development due to its favorable physical and chemical properties as well as ready availability from a generator system. The interest in ^{68}Ga has increased tremendously in the recent decade as a result of wide clinical applications in combination with positron emission tomography (PET) and its connection to the subsequent radiotherapy in the context of (radio)theranostics. The crucial advantages of ^{68}Ga are its availability from a $^{68}\text{Ge}/^{68}\text{Ga}$ generator and its labelling chemistry amenable to the automation and kit-type preparation. Moreover, it can nowadays also be produced with a cyclotron using solid and liquid targets.

This Special Issue will focus on the development of ^{68}Ga radiopharmaceuticals and their applications. The subject may range from radioactive isotope production, labeling chemistry and quality control to preclinical evaluation and clinical trials and clinical routine application. The (radio)theranostic and pharmacokinetic modelling studies are also of strong interest.



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Special Issue



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