

Special Issue

Radiofluorination Chemistry: New Concepts and Techniques

Message from the Guest Editors

The PET image as a biomarker is created by radiotracers labeled with positron emitters with a clear preference and dominance for fluorine-18 ($t_{1/2}=109.8$ min, ^{18}F). The synthesis of ^{18}F -labeled radiotracers requires innovative radiochemistry for the rapid and effective incorporation of ^{18}F under conditions compatible with the structural and functional integrity of the target compounds. This Special Issue will discuss new radiochemistry concepts and techniques for the preparation of ^{18}F -labeled compounds with a special emphasis on radiofluorine-acceptor chemistry, umpolung, late-stage radio-fluorinations, and transition-metal-mediated cross-coupling reactions.

Guest Editors

Prof. Dr. Frank Wuest

Department of Oncology, University of Alberta, 6820 116 Street,
Edmonton, AB T6G 2R3, Canada

Prof. Dr. Ralf Schirmacher

Department of Oncology, University of Alberta, 6820 116 Street,
Edmonton, AB T6G 2R3, Canada

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Thomas J. Schmidt

Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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