Development of Novel Radiotracers for PET Imaging

Guest Editors:

Prof. Dr. Jonathan Bayldon Baell
School of Pharmaceutical Sciences, Nanjing Tech University, No. 30 South Puzhu Road, Nanjing 211816, China

Dr. Ramesh Mudududdla
School of Pharmacy, University of Wisconsin-Madison, Madison, WI, USA

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Message from the Guest Editors

PET (positron emission tomography) is a medical imaging technique that uses a radioactive tracer to visualize metabolic and physiological processes in the body. This can help researchers better understand the mechanisms of disease and develop new therapies. The development of new radiotracers involves a multidisciplinary approach that combines chemistry, biology, pharmacology, and imaging sciences. Additionally, the radiotracer should have a high selectivity and affinity for the target molecule or biological process of interest while also minimizing off-target binding and nonspecific uptake. There are several approaches to developing new radiotracers, including the use of small molecules, peptides, antibodies, and nanoparticles. Overall, the development of novel radiotracers for PET imaging is a challenging yet critical area of research with tremendous potential for advancing our understanding of various biological processes and improving the diagnosis and treatment of diseases. This Special Issue aims to focus on the state of the art in the field of cancer and other neurological applications.

Special Issue

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter
Departamento de Química e Bioquímica (DQB) e Centro de Química e Bioquímica (CQB), Faculdade de Ciências, Universidade de Lisboa (FCUL), Rua Ernesto de Vasconcelos, Campo Grande,Edifício C8, 5º Piso, 1749-016 Lisboa, Portugal

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