Tentative Outline

Special Issue for Current Medicinal Chemistry

Guest Editor: Agostino Chiaravalloti

Brain Imaging with Positron Emission Tomography: novel radiopharmaceuticals

Aims & Scope:

The aim of a dedicated issue on Positron Emission Tomography (PET) brain imaging is to provide an in depth review of the novel radiolabelled compounds that have been developed and used in the last years for imaging of various neurological diseases. PET imaging show detailed images deriving from the evaluation of biochemical processes (i.e hypoxia and tumor metabolism) and from the in-vivo binding of pathological substances (i.e. amyloid). In this issue, the Authors will address the pharmacological aspects and in vivo applications of the radiotracers used for imaging of brain tumors, neurodegenerative diseases and neuroinflammation.

Keywords: Molecular imaging, PET/CT, radiopharmaceuticals; amyloid imaging, neuroinflammation imaging; dementia; parkinson disease; lewy boody disease; tau imaging; perfusion imaging

Sub topics:

1. Neuroinflammation
2. Brain tumors
3. Neurodegenerative disorders
4. Molecular Imaging
5. Radiochemistry

Tentative Publication Date: September 2016