



Cancer Molecular Imaging 2.0

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Message from the Guest Editor

The unraveling of the underlying relevant molecular pathways that drive tumor growth, through genomics, proteomics, single cell analysis, and high throughput phenotypic assays as witnessed in the last three decades, has led to a more personalized, targeted treatment approach of cancer patients. As targeted treatment implies that only a limited number of patients will benefit from a specific type of treatment, adequate selection of these patients prior to treatment initiation is of paramount importance. As opposed to morphological imaging, both single photon emission tomography (SPECT) and positron emission tomography (PET) using specific radiolabeled probes allow for non-invasive whole body imaging of the specific biological and functional characteristics that are being targeted by targeted therapies. Accordingly, the role of SPECT and PET imaging in personalized cancer patient management is increasing. This issue of *Int J Mol Sci* aims to give an update on the current status of PET and SPECT imaging in personalized cancer treatment, focusing on the underlying molecular pathways that are being targeted.





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Message from the Editor-in-Chief

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