Special Issue

Organ-Specific PET in Diagnostics

Message from the Guest Editor

Whole-body PET/CT has become one of the most important diagnostic imaging modalities because its image quality has dramatically improved in recent years due to advances in detectors and image reconstruction methods. However, since the distance between the PET detector and the subject must be reduced to achieve even higher resolution, whole-body PET/CT has limited diagnostic capability for localized depth of cancer, while it is excellent for the diagnosis of metastases. In recent years, organ-specific PET systems have been developed that are smaller than whole-body PET/CT systems. These PET scanners are designed for specific organs and have the advantages of (i) detecting smaller lesions with higher accuracy and (ii) visualizing better the minute contrast between normal and abnormal areas, which is difficult to achieve with whole-body PET/CT. Breast-specific PET was the first PET scanner to be clinically available, followed by brain-specific PET. Several other novel organ-specific PET scanners are also in development. This Special Issue aims to provide the latest findings on these systems for the further development of organ-specific PET and its contribution to patient care.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2024)

Diagnostics

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed

mdpi.com/si/183044

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