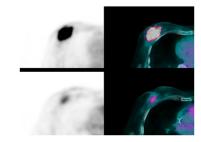
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Enhancing PET technologies: Levin offers an overview of innovations in photon detection that may enable identification of more limited numbers of cells in tissues or characterization of lower abundance of molecular targets within cells... Page 167

early changes in ¹⁸F-FDG tumor uptake during neoadjuvant chemotherapy can predict outcomes in patients with this aggressive breast cancer subtype. Page 249



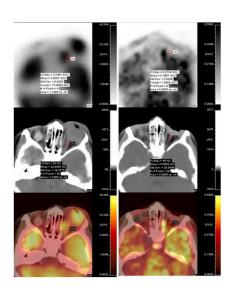
 153Sm-EDTMP dosimetry: Senthamizhchelvan and colleagues analyze the influence of administered activity, osteosarcoma tumor density and mass, and tumor shape on the absorbed dose of this promising radiopharmaceutical therapy that also facilitates scintigraphic imaging Page 215

SPECT/CT dosimetry in liver cancer: Garin and colleagues use ^{99m}Tc-MAA SPECT/CT to calculate tumor and nontumor dosimetry in patients with hepatocel-

lular carcinoma undergoing treatment with ⁹⁰Y-loaded glass microspheres....*Page 255*

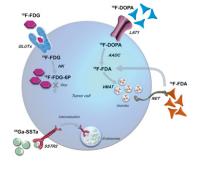
Guerra and colleagues explore associations between maximum standardized uptake values on ¹⁸F-FDG PET before and after radiation therapy and survival outcomes for patients with locally advanced non-small cell lung cancer. Page 225

SUV change and lung cancer outcomes:



TSPO expression in epilepsy: Hirvonen and colleagues use ¹¹C-PBR28 PET and MRI to determine whether expression of translocator protein, a marker of inflammation, is increased ipsilateral to seizure foci in patients with temporal lobe epilepsy. *Page 234*

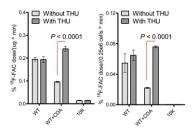
¹⁸F-FDG in cardiac sarcoidosis: Youssef and colleagues present a systematic review and metaanalysis of studies that evaluate the accuracy of ¹⁸F-FDG PET for diagnosis of cardiac sarcoidosis, using Japanese guidelines and also including data from a Canadian registry. Page 241



PET in triple-negative breast cancer: Groheux and colleagues investigate whether

Nucleoside PET for personalized therapy: Lee and colleagues explore a novel

PET assay using ¹⁸F-FAC and a related probe to profile tumor lesions for specific enzymatic activities, with implications for tailoring nucleoside analog chemotherapy to individual needs. Page 275

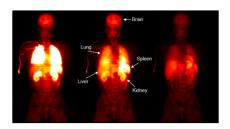


PET and TSPO expression in glioma: Tang and colleagues evaluate a high-affinity pyrazolopyrimidinyl-based translocator protein imaging ligand as a translational probe for quantification of TSPO levels in

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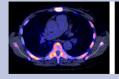
Radioligand for 5-HT6 receptors: Parker and colleagues describe preclinical studies with a promising ¹¹C-labeled tracer that could enable in vivo imaging of brain 5-HT6 receptors, assessment of their involvement in disease pathology, and development of novel therapeutics. ... Page 295

Human dosimetry of ¹¹C-DPA-713: Endres and colleagues use whole-body PET/CT to characterize the radiation dosimetry of ¹¹C-DPA-713, a specific PET ligand for assessment of translocator protein. Page 330



ON THE COVER

¹⁸F-FES, an estrogen receptor–specific PET tracer with various potential interesting applications, has been found to be a valuable additional diagnostic tool when standard work-up is inconclusive. ¹⁸F-FES uptake seemed to be predominant in bone marrow of the breast cancer patient shown above, in whom laboratory signs of bone marrow infiltration were present.





See page 188.