## JNM











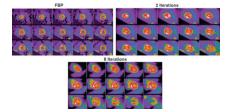




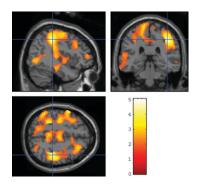


**PET/CT in recurrent esophageal cancer:** Guo and colleagues report on the diagnostic and prognostic roles of <sup>18</sup>F-FDG PET/CT in

**Algorithms not interchangeable:** Chen and colleagues provide data on the selection of reconstruction algorithms for <sup>13</sup>N-NH<sub>3</sub> PET estimation of quantitative myocardial blood flow. . . . . . *Page 1259* 



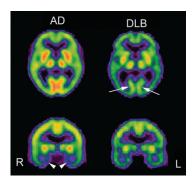
**SPECT and rCBF in depression treatment:** Kohn and colleagues use <sup>99m</sup>Tc-HMPAO SPECT to determine whether reversal of compromised regional cerebral blood flow in patients with major depressive disorder is dependant on the mode of antidepressant treatment. . . *Page 1273* 



<sup>18</sup>F-MPPF PET for longitudinal studies: Costes and colleagues assess the reliability and reproducibility of binding parameter quantification for this radiolabeled 5-HT<sub>1A</sub>

receptor antagonist through a test-retest study over a long-term period. . . . . . . Page 1279

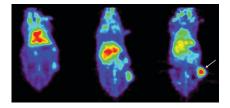
Advances in Alzheimer's assessment: Matsuda provides an educational overview of the role of neuroimaging in Alzheimer's disease, with a special focus on the utility of statistical analyses in brain perfusion SPECT, PET, and MRI techniques. . . . . . Page 1289

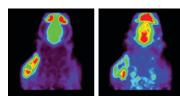


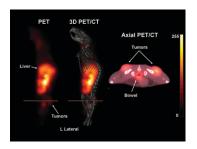
**Monitoring myocardial therapy:** Taki and colleagues evaluate <sup>99m</sup>Tc-annexin-V uptake in a rat model of ischemia and reperfusion to determine whether postconditioning or ischemic preconditioning suppress myocardial cell damage or apoptosis. . . . . . . *Page 1301* 

<sup>18</sup>F-FDG and mitochondrial membrane potential: Smith and Blaylock report on in vitro research in breast tumor cells to determine how the loss of mitochondrial membrane potential in apoptosis influences <sup>18</sup>F-FDG incorporation. . . . . . Page 1308

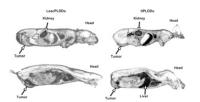
**VEGF tumor imaging:** Nagengast and colleagues describe the development of a radiolabeled humanized monoclonal antibody for noninvasive in vivo vascular endothelial growth factor visualization and quantification with <sup>111</sup>In and <sup>89</sup>Zr PET. . . . . . . . . Page 1313







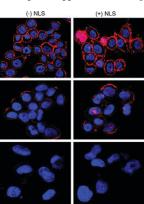
**Novel carrier modules in lymphoma:** DeNardo and colleagues characterize the pharmacokinetics of selective high-affinity ligand molecules that show promise as effective radioisotope carriers for molecular-based imaging and treatment of lymphoma. . . . . . *Page 1338* 

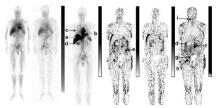


**Imaging of melanoma metastases:** Pham and colleagues describe mouse studies with a novel <sup>123</sup>I-labeled molecule for SPECT imaging and staging of metastatic dissemination of melanoma tumors and the potential for therapeutic applications. . . . . *Page 1348* 



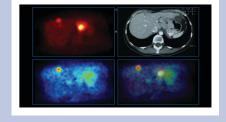
111In-trastuzumab and nuclear targeting: Costantini and colleagues evaluate the cytotoxicity and tumor-targeting properties of the monoclonal antibody trastuzumab modified with peptides harboring nuclear localization sequences and discuss the potential for radio-immunotherapeutic applications. . . Page 1357





## ON THE COVER

<sup>68</sup>Ga-BZH<sub>3</sub> may be helpful diagnostically in some patients with gastrointestinal stromal tumor. Here, <sup>18</sup>F-FDG shows hypermetabolic areas in the liver and stomach, CT shows hypodensity in the same areas, bombesin shows enhancement clearly in the liver but slightly in the stomach, and <sup>18</sup>F-FDG-bombesin fusion shows agreement between the tracers in the liver but not in the stomach. Histology revealed stomach tumor and liver metastasis.



See page 1248.