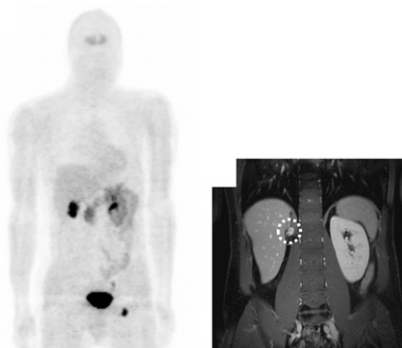


**Signaling pathways in cancer:** Holland and colleagues review recent developments in targeting pharmacodynamic biomarkers that could utilize PET of signal transduction pathways in cancer and suggest new strategies for optimizing this potential . . . *Page 1333*

**Axillary uptake in breast cancer:** Song and colleagues determine standardized uptake values of metastatic axillary lymph nodes in patients with invasive ductal breast cancer to assess the pretreatment prognostic value of  $^{18}\text{F}$ -FDG PET/CT. . . *Page 1337*

**Colorectal liver metastases and PET/CT:** Muralidharan and colleagues look at the predictive utility of metabolic measurements derived from  $^{18}\text{F}$ -FDG PET before liver resection and compare this with other prognostic scoring systems. . . *Page 1345*

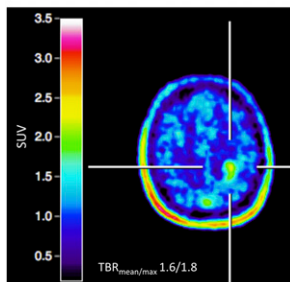
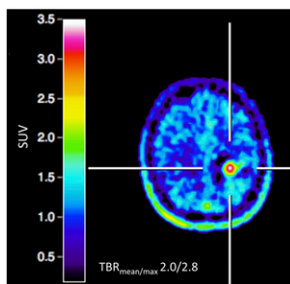
**PET, PCC/PGL, and genotype:** Rischke and colleagues explore the ability of  $^{18}\text{F}$ -DOPA PET to detect and stage pheochromocytomas/paragangliomas and ask whether specific genotypes correlate with tracer uptake . . . *Page 1352*



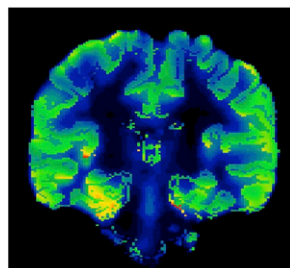
**Response to  $^{177}\text{Lu}$ -octreotate therapy:** van Vliet and colleagues compare the response of bone lesions with that of soft tissues to treatment with  $^{177}\text{Lu}$ -octreotate in patients

with gastroenteropancreatic and bronchial neuroendocrine tumors. . . . . *Page 1359*

**PET and brain metastases:** Galldiks and colleagues investigate the potential of  $^{18}\text{F}$ -FET PET for differentiating local recurrent brain metastasis from radiation necrosis after radiation therapy . . . . . *Page 1367*



**PET for temporal lobectomy:** Theodore and colleagues assess the relative value of data from 5-HT<sub>1A</sub> PET and cerebral metabolic rate of glucose information from  $^{18}\text{F}$ -FDG PET for temporal lobectomy planning . . . . . *Page 1375*



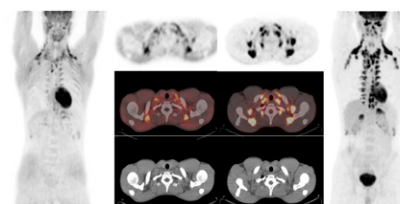
**FAA synthesis and lipid incorporation:** Pichika and colleagues describe work with

a stereoselective synthetic method for  $^{19}\text{F}$ -FAA and discuss its potential in PET imaging of human brain arachidonic metabolism in neuroinflammatory disorders such as Alzheimer disease. . . *Page 1383*

**Rest-stress functional change:** Karimi-Ashtiani and colleagues develop and validate a novel approach for automatic SPECT quantification of rest-stress myocardial motion and thickening changes. . . *Page 1392*

**CZT MPI in obesity:** Fiechter and colleagues evaluate the effect of increased body mass on myocardial perfusion imaging quality using a latest-generation  $\gamma$ -camera with cadmium-zinc-telluride semiconductor detectors in patients with high body mass indices . . . . . *Page 1401*

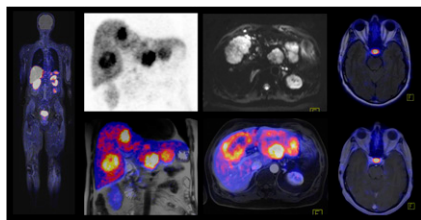
**BAT activity in healthy men:** Vrieze and colleagues use  $^{18}\text{F}$ -FDG PET/CT to examine the differential effects of an overnight fast and the postprandial state on brown adipose tissue activity . . . . . *Page 1407*



**Age effects on serotonin receptors:** Matuskey and colleagues use an  $^{11}\text{C}$ -labeled tracer and PET to determine whether the availability of brain serotonin receptor 5-HT<sub>1B</sub> decreases with aging in healthy adults . . . . . *Page 1411*

**PET/MRI workflow:** Martinez-Möller and colleagues provide an educational overview of considerations relating to workflow, imaging protocols, and image analysis for

whole-body PET/MRI in oncology, based on early experience with an integrated PET/MRI scanner . . . . . **Page 1415**



**Imaging lymph node metastases:** Hall and colleagues develop and compare various dual-labeled monoclonal antibodies against the epithelial cell-adhesion molecule for both noninvasive and intraoperative detection of metastatic lymph nodes in prostate cancer . . . . . **Page 1427**

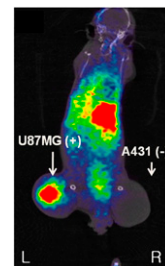
**Positron lymphography:** Thorek and colleagues investigate multimodal imaging in animal models using intradermal administration of <sup>18</sup>F-FDG for combined diagnostic and intraoperative use, including the use of Cerenkov radiation to op-

tically guide surgical resection of lymph nodes . . . . . **Page 1438**

**Site-specific protein radiolabeling:** Wällberg and colleagues describe a rapid technique for PET imaging of HER2-positive tumors in less than 1 h using a site-specific <sup>11</sup>C-labeled Sel-tagged Affibody molecule. . . . . **Page 1446**

**Pre dosing for ADCs:** Boswell and colleagues evaluate in a mouse model a pre dosing strategy with unconjugated antibody to block antibody–drug conjugate uptake while preserving tumor uptake and efficacy . . . . . **Page 1454**

**Amphiphile-encapsulated nanoparticles:** Lee and colleagues develop and validate a method for modifying nanoparticles by encapsulation with specific ligand-conjugated amphiphiles and discuss the potential for multimodality and multispecific molecular imaging . . . . . **Page 1462**



**<sup>18</sup>F-nifene kinetics:** Hillmer and colleagues use both kinetic modeling and graphical analysis techniques to analyze the in vivo kinetic properties of this  $\alpha 4\beta 2^*$  nicotinic acetylcholine receptor agonist PET radioligand . . . . . **Page 1471**

**Radiometals and sst<sub>2</sub> antagonists:** Fani and colleagues explore whether chelated somatostatin antagonists are sensitive to radiometal modifications and look at explanations for this sensitivity . . . . . **Page 1481**

**SNMMI/ABNM statement on training:** Delbeke and colleagues provide context for and full text of the SNMMI/American Board of Nuclear Medicine joint position statement on optimizing training in nuclear medicine in the era of hybrid imaging. . . . . **Page 1490**

## ON THE COVER

This image shows the lymphatics and the main nodal stations in a mouse after injection of <sup>18</sup>F-FDG intracutaneously into the tail in a 3-dimensional PET/CT reconstruction.

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