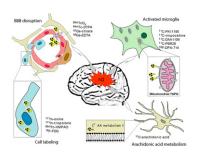
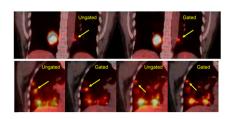
# JNM



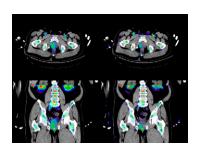
Assessing PET/CT reports: Graham reviews quality and significance factors relative to data generated for the National Oncologic PET Registry and previews an article in this issue of *JNM* on PET/CT reports from this database. . . . . . . . . Page 5

# PET and dopamine cell transplantation:

# Automated PET/CT amplitude gating:



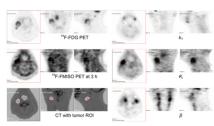
<sup>18</sup>F-FDG avidity in lymphoma: Weiler-Sagie and colleagues report on the results of <sup>18</sup>F-FDG PET/CT in a large cohort of patients newly diagnosed with Hodgkin disease and non-Hodgkin lymphoma, with special attention to tracer avidity in distinct subtypes of lymphoma. . . . . . . Page 25



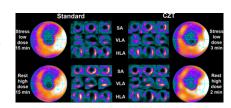
SPECT/CT prostate tumor grading: Seo and colleagues describe phantom studies evaluating a method using <sup>111</sup>In-capromab pendetide SPECT/CT for in vivo quantification of antibody uptake and accurate

### <sup>18</sup>F-FMISO in head and neck cancer:

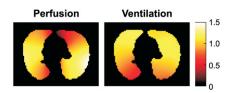
staging of prostate tumors. . . . . Page 31

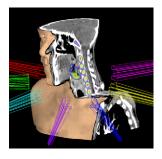


CZT nuclear cardiac imaging: Herzog and colleagues establish optimal scan times for nuclear myocardial perfusion imaging on an ultrafast cardiac  $\gamma$ -camera using novel cadmium-zinc-telluride solid-state detector technology. . . . . . Page 46

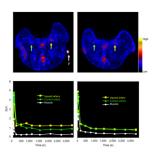


### Imaging cirrhotic portal hypertension:

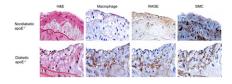




**COMKAT software for image quantification:** Fang and colleagues describe an integrated, open-source software package with multiple functions for incorporating tracer pharmacokinetic analysis into molecular imaging research. . . . . . . Page 77



**Imaging RAGE:** Tekabe and colleagues determine whether expression of the receptor for advanced glycation end products can be detected in atherosclerosis using SPECT and describe the potential for this technique in identifying early accelerated disease in diabetes mellitus. . . . . . Page 92



Cancer-targeted multimodal imaging: Hwang and colleagues report on development of and animal studies with an aptamer-conjugated nanoparticle for concurrent in vivo fluorescence, radionuclide, and MR imaging. . . . . . . . . . Page 98

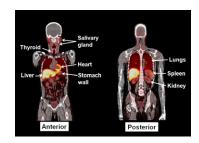
Genetic PET in breast cancer: Thakur and colleagues investigate the utility of a radiolabeled peptide analog for PET discrimination of breast cancer in a transgenic mouse model and discuss possible applications in early imaging of primary and metastatic disease. . . . . . . Page 106



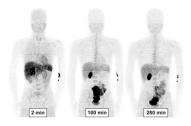
**PET and photodynamic therapy:** Fei and colleagues explore the use of <sup>11</sup>C-choline PET to monitor very early tumor response to photodynamic therapy in mouse models of human prostate cancer. . . . . *Page 130* 

**Biodistribution and dosimetry of** <sup>11</sup>C-(*R*) **PK11195:** Kumar and colleagues derive biodistribution data and radiation dose

estimates for this PET tracer, which facilitates noninvasive imaging of microglial activation in several pediatric and adult neurologic disorders. . . . . Page 139



**Dosimetry of** <sup>18</sup>F-PBR06 in humans: Fujimura and colleagues estimate radiation absorbed doses for this PET tracer that measures the translocator protein 18 kDa, a biomarker for inflammation in the human



**Rituximab and <sup>90</sup>Y-ibritumomab dosimetry:** Shen and colleagues determine whether the therapeutic effects of <sup>90</sup>Y-ibritumomab in relapsed B-cell non-Hodg-kin lymphoma might be enhanced by a full course of rituximab followed by single dose of <sup>90</sup>Y-ibritumomab. . . . . *Page 150* 

## ON THE COVER

Clinical benefit and graft viability have been found to be sustained for up to 4 y after transplantation of human embryonic dopaminergic tissue for advanced Parkinson disease. Changes in imaging measures, as shown by these maps of mean striatal <sup>18</sup>F-FDOPA uptake in transplant recipients, were associated with clinical outcome over the entire posttransplantation time course.

See page 11.

