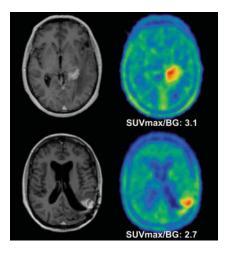
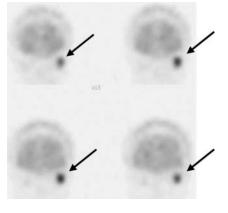
THIS MONTH IN

Bodei and colleagues review current understanding of receptor-guided tumor targeting with radionuclides and introduce an article in this month's *JNM* that offers new data for clinical applications in radionuclide therapy. *Page 375*

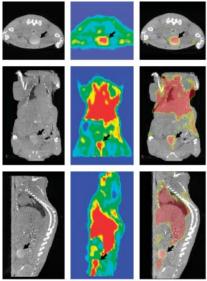


Kato and colleagues assess the relative usefulness of ¹²³I-IMP SPECT and



Vegt and colleagues research the effects of infusion of low doses of the plasma expander succinylated gelatin on renal uptake of ¹¹¹In-labeled octreotide and discuss possible toxicity-limiting applications in peptide receptor–mediated radiotherapy.

Lee and colleagues characterize the mechanisms that mediate ¹²³I-MIBG transport in pulmonary endothelial cells and investigate the effects of stimuli associated with pulmonary dysfunction. Page 437



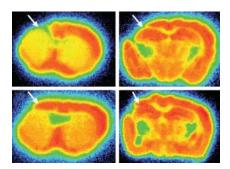
MicroCT

MicroPET/MicroCT

Yi and colleagues compare the diagnostic accuracies of helical dynamic CT and integrated PET/CT in patients with malignant solitary pulmonary nodules. . . Page 443

MicroPET

Herrero and colleagues assess the relative abilities of ¹⁵O-water and ¹¹C-acetate microPET in noninvasively quantifying myocardial blood flow in rats. **Page 477** Shichinohe and colleagues elucidate the mechanism of restored neurologic function through bone marrow stromal cell expression of the neuron-specific γ -aminobutyric acid receptor transplanted into a mouse model of cerebral infarction. . . *Page 486*



Zhang and colleagues describe the devel-

opment of ¹⁸F-labeled bombesin analogs

for PET imaging of gastrin-releasing pep-

tide receptor expression in prostate cancer

xenograft models. Page 492

Cescato and colleagues apply novel im-

munocytochemical methods to measure

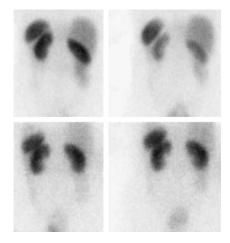
somatostatin receptor internalization in-

duced by a variety of somatostatin analogs,

facilitating characterization of trafficking

of somatostatin receptor subtypes in vitro

at the protein level. Page 502



Breitz and colleagues evaluate the pharmacokinetics and radiation-absorbed dose to all organs from the β -emitting radiopharmaceutical ¹⁶⁶Ho-DOTMP, which localizes to bone surfaces and shows promise for skeleton-targeted radiotherapy in multiple myeloma. Page 534

ON THE COVER

PET/CT protocols for single-phase (top) and multiphase (bottom) examinations. At top, the purple spiral represents the whole body in portal-venous contrast enhancement. The scan includes the base of the skull to the proximal thigh, as in PET (blue cylinder). At bottom, the technical standard of the multiphase protocol requires 2 CT examinations: one covering the base of the skull to the lower borders of the kidneys during arterial contrast enhancement (red spiral) and another covering the base of the lungs to the proximal thighs in portal-venous phase enhancement (purple spiral). After reconstruction, low-dose CT (gray spiral) and PET are performed. The thickness of the spirals indicates the dose, and the width the collimation.

SEE PAGE 472

