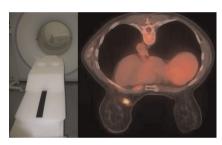
JNM

"Amphibian cars" for molecular imaging:

Boerman and Oyen look at the challenges surrounding development of hybrid PET/MRI scanners and previews an article in this issue of *JNM* introducing a molecular probe that provides a signal in both modalities. . . *Page 1213*



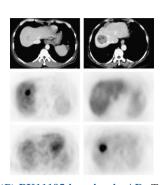
Breath-hold PET/CT in lung cancer: Kawano and colleagues describe the ad-

Kawano and colleagues describe the advantages of breath-hold over free-breathing PET/CT in providing more precise measurement of maximum SUVs. . . . Page 1223

Optimal imaging for paraganglioma:

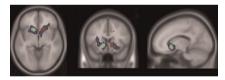
Gene modulation of ¹⁸F-FDG kinetics:

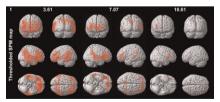
¹¹C-choline PET in hepatocellular cancer:

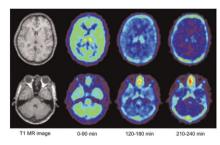


¹¹C-(*R*)-PK11195 imaging in AD: Tomasi and colleagues report on a reference region model for estimating the binding potential of a PET radiotracer that shows increased microglial activity and decreased vascular

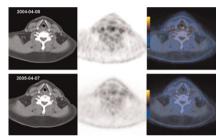
Opioidergic system and rewards: Schreckenberger and colleagues use ¹⁸F-DPN to investigate the neurobiologic correlates of reward dependence and discuss the implications of these findings for predicting predisposition to addictive behavior. . . *Page 1257*

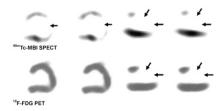






Reversal of vascular ¹⁸F-FDG uptake:





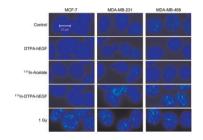


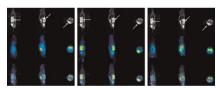
Overview of SPECT/CT: Buck and colleagues offer an educational review of the current status and future prospects of hybrid SPECT/CT in cardiac, neurologic, and oncologic applications. . . Page 1305



Pharmacokinetics of ^{99m}Tc(N)-DBODC(5): Bolzati and colleagues elucidate the mechanisms of distribution, retention, and elimination of a promising myocardial imaging agent and de-

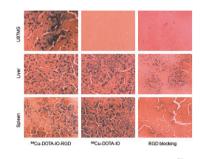
Cytotoxicity of ¹¹¹**In-DTPA-hEGF:** Cai and colleagues investigate the relationships among human epidermal growth factor expression, DNA damage, and cytotoxicity in cells exposed to an Auger electron–emitting radiopharmaceutical. *Page 1353*

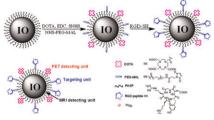




Bifunctional PET/MRI probe: Lee and colleagues detail the development of a

bifunctional iron oxide nanoparticle probe for PET and MRI scans of tumor integrin $\alpha_v \beta_3$ expression. Page 1371

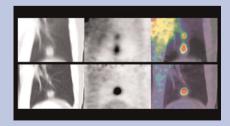




Case against radioiodine ablation: Hay and colleagues take issue with widely used postoperative radioiodine remnant ablation as adjuvant therapy in patients with well-differentiated thyroid carcinoma and outline reasons for suggesting that ablation is often the wrong choice. Page 1395

ON THE COVER

The maximum SUV of free-breathing PET should not be accepted as accurate, especially in the lower lung and for small pulmonary lesions. In this patient, blurring of ¹⁸F-FDG accumulation was more apparent in fusion free-breathing PET/CT (top) than in fusion breath-hold PET/CT (bottom). Breath-hold imaging realizes a complete match between CT and PET and is thus recommended as part of the standard protocol for lung cancer.



See page 1229.