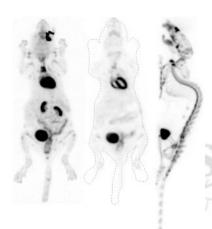
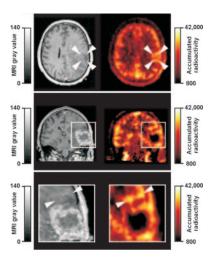
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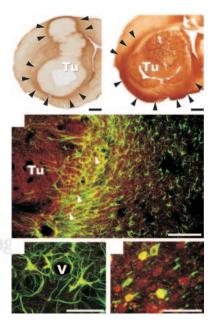


 Yen and colleagues report on the potential of ¹⁸F-FDG PET to identify distant metastases when staging patients with nasopharyngeal carcinoma, an epithelial malignancy with high frequency in some areas of China. Page 405



Beyer and colleagues compare several intravenous contrast injection protocols for routine whole-body PET/CT, with a goal of

reducing the common occurrence of highdensity imaging artifacts. Page 429

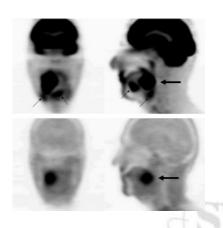


Keidar and colleagues investigate the ability of PET/CT to accurately differentiate between osteomyelitis and soft-tissue infection in the diabetic foot. Page 444

Bauer and colleagues report on the molecular imaging utility of ¹⁸F-CPFPX, a novel PET tracer, as a potential indicator of local cerebral response to tumor invasion in a glioma-bearing rat model. *Page 450*

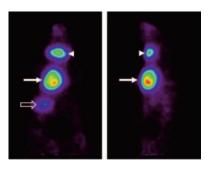
Tai and colleagues evaluate the basic performance of a new-generation, scintillator-based small-animal PET scanner and compare it with previous models. . . *Page 455*

Elgqvist and colleagues describe the myelotoxicity and relative biologic effectiveness of the α -emitter ²¹¹At conjugated to monoclonal antibodies in a mouse model and compare the results with those from ^{99m}Te-monoclonal antibodies and external radiation from a ⁶⁰Co source. . . *Page 464*



 Talbot and colleagues describe the results of experiments in baboons to assess the potential of the radioligand ¹¹C-GR103545 for PET imaging of brain κ-opioid receptors. ... Page 484

Nakamura and colleagues investigate the antisense targeting of P-glycoprotein expression in vitro and suggest a potential application for antisense imaging of multidrug resistance in cancer. ... *Page 509*



ON THE COVER

In this 50-y-old man with a nonhealing wound in the right forefoot, osteomyelitis complicating diabetic foot was diagnosed on the basis of PET/CT findings. From left to right, ¹⁸F-FDG PET coronal







and transaxial images show an area of increased ¹⁸F-FDG uptake in the lateral aspect of the forefoot, PET/CT image localizes abnormal ¹⁸F-FDG uptake to the head of the fourth metatarsus, and CT image shows normal bone structure in corresponding area. Osteomyelitis was further confirmed by histopathologic examination of tissue samples obtained at surgery.