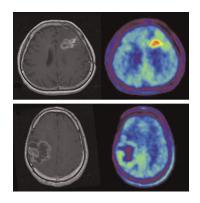
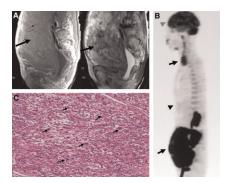
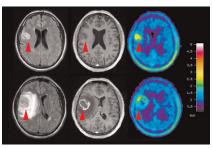
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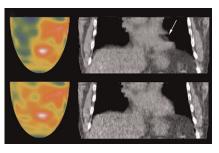
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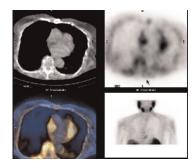


**Radiation dose in cardiac PET/CT:** Gould and colleagues test the quantitative accuracy of a single poststress cine CT attenuation scan for reconstructing cardiac rest perfusion images, thus eliminating resting CT attenuation scans and reducing cumulative radiation dose. . . . . . Page 738



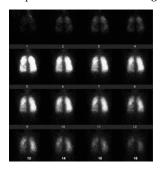
Gated SPECT for diastolic function: Patel and colleagues explore the benefits of combining data on perfusion defects with data on diastolic impairment to predict left ventricular end-diastolic pressure at subsequent cardiac catheterization. ... Page 746

**SPECT/CT and brown adipose tissue:** Goetze and colleagues assess the frequency with which uptake of <sup>99m</sup>Tc-MIBI is present in brown adipose tissue in an adult patient population. . . . . . *Page 752* 

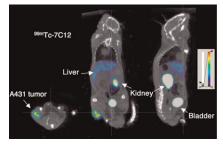


**SPECT and the pathophysiology of anxiety:** van der Wee and colleagues use SPECT to examine <sup>123</sup>I- $\beta$ -CIT binding potentials for serotonin and dopamine transporters in individuals with and without a generalized social anxiety disorder. ...... Page 757

**rhTSH-stimulated ablation and recurrence:** Tuttle and colleagues report on rates of disease recurrence with recombinant human thyroid-stimulating hormone administration after radioiodine therapy and compare these rates with those from conventional thyroid hormone withdrawal. .... Page 764

Xenon gas index for emphysema: Mathews and colleagues investigate the potential of a new quantitative gas trapping 

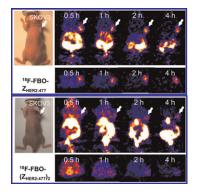
In vivo evaluation of nanobodies: Gainkam and colleagues use SPECT/CT to compare in vivo tumor uptake and biodistribution of two <sup>99m</sup>Tc-labeled anti–epidermal growth factor receptor nanobodies with potential for radioimmunodetection of specific targets early after therapy. ..... Page 788

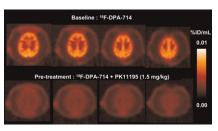


Galectin-3 targeting and breast tumors: Kumar and Deutscher evaluate the tumor cell-targeting and SPECT properties of a <sup>111</sup>In-labeled galectin-3–avid peptide in human breast carcinoma cells and human breast tumor–bearing mice. ... Page 796



**HER2 PET with <sup>18</sup>F-labeled affibody:** Cheng and colleagues explore the potential of 2 radiofluorinated anti-human epidermal growth factor receptor type 2 protein scaffold molecules as potential molecular probes for small-animal PET. . . *Page 804* 



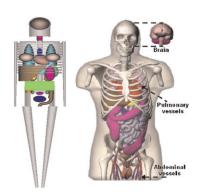


**Imaging probe for melanoma:** Miao and colleagues evaluate the potential utility of

an imaging surrogate for an experimentally successful peptide-targeted  $\alpha$ -therapy for melanoma and discuss the potential for patient-specific dosimetry and monitoring of tumor response. . . . . . . . *Page 823* 

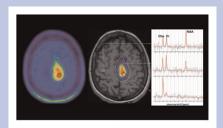
**Dosimetry in myeloablative RIT:** Rajendran and colleagues review the records of 100 patients who underwent tracer infusion of <sup>131</sup>I-tositumomab before radioimmunotherapy for B-cell non-Hodgkin's lymphoma for data supporting an optimal approach to dosimetry. ...... Page 837

**Radioiodine therapy and pregnancy:** Garsi and colleagues update a 10-y-old study about pregnancy outcomes and the health of offspring of women exposed to <sup>131</sup>I during thyroid carcinoma treatment. .... *Page 845* 



## ON THE COVER

<sup>18</sup>F-FET PET and <sup>1</sup>H MRSI provide insight into metabolic changes related to pathologic processes. Coregistration of data from these techniques with MRI data allows direct correlation of changes in amino acid uptake with changes in membrane, energy, and neuronal metabolism. The 2 metabolic imaging methods have been shown to provide complementary information on glioma metabolism that may be useful in planning and targeting surgery and radiochemotherapy.



See page 724.