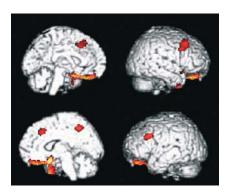
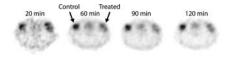
THIS MONTH IN

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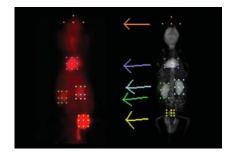


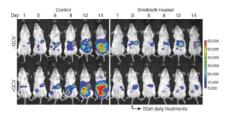
Yin and colleagues apply ^{99m}Tc-HMPAO SPECT to identify brain areas that con-

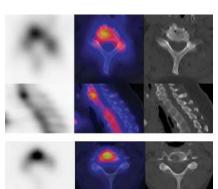


Bérard and colleagues assess the potential for dynamic, small-animal PET in monitoring transient metabolic processes and investigating the mechanisms of action of new photosensitizing drugs in photodynamic therapy of cancer. *Page 1119*

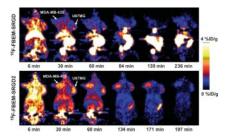
 Lantry and colleagues report on both in vitro and small animal studies of a new radiolabeled bombesin analog for imaging and systemic radiotherapy with improved pharmacokinetics and better retention of radioactivity in the tumor. . . . Page 1144



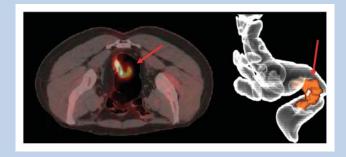


Sander and colleagues demonstrate noninvasive molecular imaging of lentiviralmarked cells by PET and discuss the implications of this capability for future monitoring of gene therapy... Page 1212



ON THE COVER

The possibility of generating 3-dimensional PET/CT images, such as illustrated here, has been demonstrated. Previously, these detailed anatomic renderings were achievable with conventional imaging but not with PET. Despite some limitations of the initial pilot study, the findings are exciting and provide the impetus for future validation studies in



controlled experiments. Additionally, the technique appears to show potential for guiding surgical procedures and for adding important diagnostic information that may herald new applications for PET/CT.

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