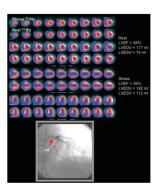
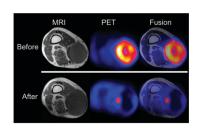
## INM

**Targeting infection:** Bleeker-Rovers and colleagues evaluate the safety of interleukin-8 (IL-8) in humans and assess the value of <sup>99m</sup>Tc-IL-8 scintigraphy in patients with suspected localized infections. . . . . . *Page 337* 



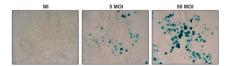


**SPECT brain tracer binding:** Booij and colleagues report on the influence of paroxetine, a selective serotonin reuptake inhibitor, on <sup>123</sup>I-FP-CIT binding to dopamine transporter in the healthy striatum. ... *Page 359* 

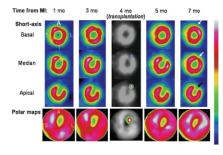


Clarifying posttreatment PET: Brepoels and colleagues investigate whether post-

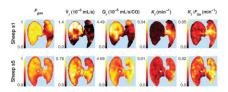
Advancing gene therapy: Lim and colleagues explore the effect of retinoic acid on adenovirus-mediated expression of the human sodium iodide symporter gene in a breast cancer cell line. . . . . . . . Page 398

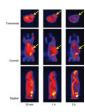


**SPECT and stem cell therapy:** Tran and colleagues describe an original pinhole SPECT technique in a rat model of myocardial infarction and analyze local improvement in myocardial perfusion after engraftment of bone marrow–derived stem cells. . . *Page 405* 

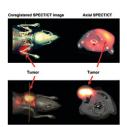


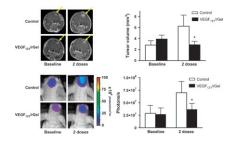
Acute responses to smoke inhalation: Schroeder and colleagues test whether cigarette smoke–related PET imaging changes in regional intrapulmonary distribution of <sup>18</sup>F-FDG uptake in a sheep model are related to changes in regional lung function as assessed with infused <sup>13</sup>NN-saline. . . . . . Page 413





## Two-step tumor imaging with phage:





**Fatty acid analog for PET:** Guiducci and colleagues describe the biodistribution and partitioning of <sup>18</sup>F-FTHA, a fatty acid analog, across different lipid pools in plasma and in metabolically

**3D**, time-of-flight PET: Surti and colleagues report performance results from a fully 3D-mode PET/CT scanner that uses lutetium-yttrium oxyorthosilicate crystals for the PET component and achieves time-of-flight imaging without sacrificing conventional PET or CT capabilities. . . . . . . Page 471

**Ultra-high-resolution SPECT:** Vastenhouw and Beekman describe a combined acquisition and reconstruction strategy for whole-body mouse imaging using a new stationary SPECT system dedicated to small-animal imaging. . . . . . Page 487

## ON THE COVER

Bioprobes are monoclonal antibody—equipped nanoparticles that, when given systemically, can reach and bind to tumor cells and provide a new way to direct thermal ablation specifically to those cells via external application of an alternating magnetic field. 

111 In-Bioprobes containing iron oxide have been shown effective in targeting human breast cancer xenografts in mice. Radionuclide concentration enabled calculation of total heat doses that were predictive of tumor response achieved without toxicity.

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