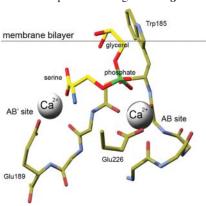
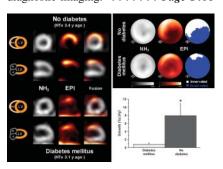
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Monitoring molecular change: Eisenhut and Haberkorn describe the role of radio-labeled annexin as an in vivo imaging indicator of apoptosis in cancer treatment and emphasize the importance of molecular structure in site-specific labeling. ... Page 1400



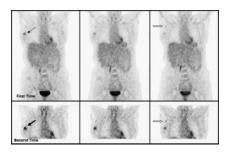


Evaluating coronary vasomotor function:

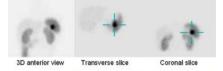
Siegrist and colleagues study the repeatability of endothelium-related myocardial blood flow responses to cold pressor testing as assessed by PET in groups of tobacco smokers and nonsmokers. Page 1420

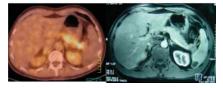
Angiogenesis imaging in breast cancer: Bach-Gansmo and colleagues describe a proof-of-concept efficacy and safety study of a novel technetium-labeled agent for breast cancer scintigraphy. . . Page 1434





PET in advanced NPC: Chan and colleagues compare whole-body ¹⁸F-FDG PET and conventional work-up in monitoring response after primary curative therapy for locoregional advanced nasopharyngeal carcinoma and look at the effects of PET findings on subsequent patient management. Page 1447



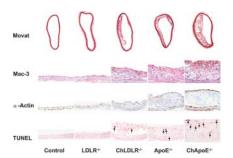


One-take cholecystitis assessment: Krishnamurthy and Krishnamurthy analyze the effects of opioid intake on scintigraphy of gallbladder response to cholecystokinin-8 and discuss the role of this approach in evaluating acute and chronic cholecystitis in a single hepatobiliary study. *Page 1463*

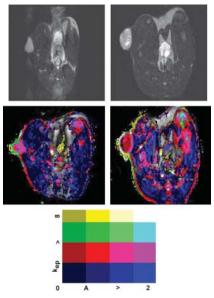
Refining peptide receptor therapy: Cremonesi and colleagues review published reports of peptide receptor radionuclide therapy

dosimetry, including radiopharmaceutical characteristics, data processing, dosimetric outcomes, and methods to protect critical organs, and describe a model for determining biological effective dose. Page 1467

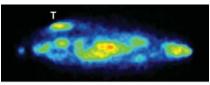
Delivery of adenoviral vectors: ter Horst and colleagues evaluate whether a convection-enhanced approach improves intratumoral delivery of adenoviral vectors in malignant gliomas and compare this with single- and multiple-injection strategies. . . . *Page 1483*

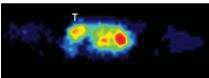


Antiangiogenic gene transfer therapy: Schmidt and colleagues investigate the effects of TnI gene transfer on endothelial cell apoptosis/proliferation in vitro and on



Monitoring angiogenesis strategies: Kunz and colleagues examine the complex cellular and molecular effects of angiopoietin-2 gene transfer in a rat hepatoma model. .Page 1515





Characterizing ¹¹C-verapamil transfer:

Chemotherapy and tracer uptake: van Waarde and colleagues explore the effects of 3 cytotoxic agents on early changes in uptake of 6 PET tracers in cultured glioma cells and describe potential predictors of therapeutic response. Page 1538

ON THE COVER

Human troponin I efficiently inhibits tumor growth by decreasing vascularization. Dynamic PET measurements with H₂¹⁵O were performed to test for differences in tissue perfusion between troponin I–expressing (bottom) and wild-type (top) Morris hepatomas. Pharmacokinetic analysis of the PET data revealed that tumor perfusion was less in troponin I tumors than in wild-type tumors. The ability to measure the decreased perfusion resulting from a decrease in vascularization makes PET a promising method for the monitoring of antiangiogenic gene therapy.

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