

## SNM NEWSLINE

- 13N** Standardizing Radiation Dose in Pediatric Nuclear Medicine
- 14N** South Africa Hosts WFNMB Congress  
*Dominique Delbeke*
- 15N** Sino-American Conference Date Set
- 15N** Molecular Imaging Update: Clinical Trials Network Strives for Standardization  
*Michael Graham, Peter Conti, and John Hoffman*
- 16N** SNM Leadership Update: Reaching Out with Radioimmunotherapy  
*Dominique Delbeke*
- 17N** Newsbriefs
- 21N** From the Literature

## FOCUS ON MOLECULAR IMAGING

- 1659** Apoptosis Imaging: Beyond Annexin V  
*Gang Niu and Xiaoyuan Chen*

## INVITED PERSPECTIVES

- 1663** Breast Cancer and Hormonal Stimulation: Is Glycolysis the First Sign of Response?  
*Hannah M. Linden and David A. Mankoff*
- 1665** Are Health Economics Making Us Sick?  
*Rodney J. Hicks and Jeff Borland*

## CLINICAL INVESTIGATIONS

- 1668** Cost-Effectiveness of Hybrid PET/CT for Staging of Non-Small Cell Lung Cancer  
*Jonas Schreyögg, Julia Weller, Tom Stargardt, Ken Herrmann, Christina Bluemel, Tobias Dechow, Gerhard Glatting, Bernd J. Krause, Felix Mottaghy, Sven N. Reske, and Andreas K. Buck*
- 1676** Functional Imaging of Localized Prostate Cancer Aggressiveness Using  $^{11}\text{C}$ -Acetate PET/CT and  $^1\text{H}$ -MR Spectroscopy  
*Ivan Jambor, Ronald Borra, Jukka Kempainen, Virva Lepomäki, Riitta Parkkola, Kirsti Dean, Kalle Alanen, Eveliina Arponen, Martti Nurmi, Hannu J. Aronen, and Heikki Minn*

- 1684** Quantitative Parametric Perfusion Images Using  $^{15}\text{O}$ -Labeled Water and a Clinical PET/CT Scanner: Test-Retest Variability in Lung Cancer  
*Astrid A.M. van der Veldt, N. Harry Hendrikse, Hendrik J. Harms, Emile F.I. Comans, Pieter E. Postmus, Egbert F. Smit, Adriaan A. Lammertsma, and Mark Lubberink*
- 1691** Phenotyping of Tumor Biology in Patients by Multimodality Multiparametric Imaging: Relationship of Microcirculation,  $\alpha_v\beta_3$  Expression, and Glucose Metabolism  
*Stephan Metz, Carl Ganter, Sylvie Lorenzen, Sandra van Marwick, Ken Herrmann, Florian Lordick, Stephan G. Nekolla, Ernst J. Rummeny, Hans-Jürgen Wester, Gunnar Brix, Markus Schwaiger, and Ambros J. Beer*
- 1699** Detection of Hepatocellular Carcinoma with PET/CT: A Prospective Comparison of  $^{18}\text{F}$ -Fluorocholine and  $^{18}\text{F}$ -FDG in Patients with Cirrhosis or Chronic Liver Disease  
*Jean-Noël Talbot, Laetitia Fartoux, Sona Balogova, Valérie Nataf, Khaldoun Kerrou, Fabrice Gutman, Virginie Huchet, David Ancel, Jean-Didier Grange, and Olivier Rosmorduc*
- 1707**  $^{111}\text{In}$ -Bevacizumab Imaging of Renal Cell Cancer and Evaluation of Neoadjuvant Treatment with the Vascular Endothelial Growth Factor Receptor Inhibitor Sorafenib  
*Ingrid M.E. Desar, Alexander B. Stillebroer, Egbert Oosterwijk, William P.J. Leenders, Carla M.L. van Herpen, Winette T.A. van der Graaf, Otto C. Boerman, Peter F.A. Mulders, and Wim J.G. Oyen*
- 1716** In Vivo Assay of Folate Receptors in Nonfunctional Pituitary Adenomas with  $^{99\text{m}}\text{Tc}$ -Folate SPECT/CT  
*James R. Galt, Raghuv eer K. Halkar, Chheng-Orn Evans, Naema A. Osman, David LaBorde, Timothy H. Fox, Bajat A. Faraj, Kush Kumar, Houping Wang, and Nelson M. Oyesiku*
- 1724** Quantitative Upright-Supine High-Speed SPECT Myocardial Perfusion Imaging for Detection of Coronary Artery Disease: Correlation with Invasive Coronary Angiography  
*Ryo Nakazato, Balaji K. Tamarappoo, Xingping Kang, Arik Wolak, Faith Kite, Sean W. Hayes, Louise E.J. Thomson, John D. Friedman, Daniel S. Berman, and Piotr J. Slomka*
- 1732** Voxel-Based Analysis of Asymmetry Index Maps Increases the Specificity of  $^{18}\text{F}$ -MPPF PET Abnormalities for Localizing the Epileptogenic Zone in Temporal Lobe Epilepsies  
*Adrien Didelot, François Mauguère, Jérôme Redouté, Sandrine Bouvard, Amélie Lothe, Anthonin Reilhac, Alexander Hammers, Nicolas Costes, and Philippe Ryvlin*

## BASIC SCIENCE INVESTIGATIONS

- 1740**  $^{17}\beta$ -Estradiol Augments  $^{18}\text{F}$ -FDG Uptake and Glycolysis of T47D Breast Cancer Cells via Membrane-Initiated Rapid PI3K-Akt Activation  
*Bong-Ho Ko, Jin-Young Paik, Kyung-Ho Jung, and Kyung-Han Lee*

**1748** Brief Intraperitoneal Radioimmunotherapy of Small Peritoneal Carcinomatosis Using High Activities of Noninternalizing <sup>125</sup>I-Labeled Monoclonal Antibodies

Vincent Boudousq, Stéphanie Ricaud, Véronique Garambois, Caroline Bascoul-Mollevi, Samir Boutaleb, Muriel Busson, François Quenet, Pierre-Emmanuel Colombo, Manuel Bardiès, Pierre-Olivier Kotzki, Isabelle Navarro-Teulon, André Pèlerin, and Jean-Pierre Pouget

**1756** A New <sup>18</sup>F-Labeled Folic Acid Derivative with Improved Properties for the PET Imaging of Folate Receptor-Positive Tumors

Tobias L. Ross, Michael Honer, Cristina Müller, Viola Groehn, Roger Schibli, and Simon M. Ametamey

**1763** Radiosynthesis and Evaluation of <sup>11</sup>C-CIMBI-5 as a 5-HT<sub>2A</sub> Receptor Agonist Radioligand for PET

Anders Ettrup, Mikael Palner, Nic Gillings, Martin A. Santini, Martin Hansen, Birgitte R. Kornum, Lars K. Rasmussen, Kjell Någren, Jacob Madsen, Mikael Begtrup, and Gitte M. Knudsen

**1771** Radiolabeled Bicyclic Somatostatin-Based Analogs: A Novel Class of Potential Radiotracers for SPECT/PET of Neuroendocrine Tumors

Melpomeni Fani, Andreas Mueller, Maria-Luisa Tamma, Guillaume Nicolas, Hans R. Rink, Renzo Cescato, Jean Claude Reubi, and Helmut R. Maecke

**1780** Pretargeted <sup>177</sup>Lu Radioimmunotherapy of Carcinoembryonic Antigen-Expressing Human Colonic Tumors in Mice

Rafke Schoffelen, Winette T.A. van der Graaf, Gerben Franssen, Robert M. Sharkey, David M. Goldenberg, William J. McBride, Edmund A. Rossi, Annemarie Eek, Wim J.G. Oyen, and Otto C. Boerman

**1788** Progressive Metabolic and Structural Cerebral Perturbations After Traumatic Brain Injury: An In Vivo Imaging Study in the Rat

Ying R. Liu, Lisa Cardamone, R. Edward Hogan, Marie-Claude Gregoire, John P. Williams, Rod J. Hicks, David Binns, Amelia Koe, Nigel C. Jones, Damian E. Myers, Terence J. O'Brien, and Viviane Boullieret

**1796** PET of Tumor CXCR4 Expression with 4-<sup>18</sup>F-T140

Orit Jacobson, Ido D. Weiss, Dale O. Kiesewetter, Joshua M. Farber, and Xiaoyuan Chen

**1805** Molecular Imaging of MDM2 Messenger RNA with <sup>99m</sup>Tc-Labeled Antisense Oligonucleotides in Experimental Human Breast Cancer Xenografts

Peng Fu, Baozhong Shen, Changjiu Zhao, and Guomei Tian

## PRACTICE GUIDELINE

**1813** SNM Practice Guideline for Sodium <sup>18</sup>F-Fluoride PET/CT Bone Scans 1.0

George Segall, Dominique Delbeke, Michael G. Stabin, Einat Even-Sapir, Joanna Fair, Rebecca Sajdak, and Gary T. Smith

## DEPARTMENTS

**1804** Erratum

**1821** Book Review

**11A** This Month in JNM

**26A** Recruitment Advertising

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## UPCOMING EDUCATION ARTICLES

**Imaging of Inflammation by PET, Conventional Scintigraphy, and Other Imaging Techniques**

Martin Gotthardt, Chantal P. Bleeker-Rovers, Otto C. Boerman, and Wim J.G. Oyen

For CE credit, you can access Continuing Education Activities through the SNM Web site ([http://www.snm.org/ce\\_online](http://www.snm.org/ce_online))