

## SNMMI NEWSLINE

- 13N** 2015 SNMMI Highlights Lecture: Cardiovascular Nuclear and Molecular Imaging  
*Vasken Dilsizian*
- 19N** Nuclear Medicine, Social Media, and Two Degrees of Separation  
*George Segall*
- 20N** Women in Nuclear Medicine  
*Leonie Gordon, Darlene Metter, and Shana Elman*
- 21N** Phelps Receives de Hevesy Nuclear Pioneer Award
- 22N** Dale Recognized with Loevinger–Berman Award  
*George Sgouros*
- 23N** Townsend Recognized with 2015 Aebersold Award
- 24N** SNMMI Leadership Update: SNMMI Therapy Center of Excellence  
*Hossein Jadvar*

## FOCUS ON MOLECULAR IMAGING

- 1295** Surface-Enhanced Raman Spectroscopy: A New Modality for Cancer Imaging  
*Chrysaftis Andreou, Sirish A. Kishore, and Moritz F. Kircher*

## INVITED PERSPECTIVES

- 1300** Imaging of Apoptosis: The Need to Distinguish Tracer Uptake Rate from Regional Contribution of Blood Flow  
*Hans-Jürgen Machulla*
- 1302** How Should Lumped Constant Be Estimated for Hepatic  $^{18}\text{F}$ -FDG Glucose in Humans?  
*Susanne Keiding*

## CLINICAL INVESTIGATIONS

- 1304** A Phase 1, Open-Label Study of the Biodistribution, Pharmacokinetics, and Dosimetry of  $^{223}\text{Ra}$ -Dichloride in Patients with Hormone-Refractory Prostate Cancer and Skeletal Metastases  
*Sarah J. Chittenden, Cecilia Hindorf, Christopher C. Parker, Valerie J. Lewington, Brenda E. Pratt, Bernadette Johnson, and Glenn D. Flux*
- 1310** TGF- $\beta$  Antibody Uptake in Recurrent High-Grade Glioma Imaged with  $^{89}\text{Zr}$ -Fresolimumab PET  
*Martha W. den Hollander, Frederike Bensch, Andor W.J.M. Glaudemans, Thijs H. Oude Munnink, Roelien H. Enting, Wilfred F.A. den Dunnen, Mart A.A.M. Heesters, Frank A.E. Kruyt, Marjolijn N. Lub-de Hooge, Jan Cees de Groot, Joseph Pearlberg, Jourik A. Gietema, Elisabeth G.E. de Vries, and Annemiek M.E. Walenkamp*

- 1315**  $^{18}\text{F}$ -FDG PET/CT to Predict Response to Neoadjuvant Chemotherapy and Prognosis in Inflammatory Breast Cancer  
*Laurence Champion, Florence Lerebours, Jean-Louis Alberini, Emmanuelle Fourme, Eric Gontier, Françoise Bertrand, and Myriam Wartski*
- 1322** Relationship Between  $^{18}\text{F}$ -FDG PET/CT Scans and KRAS Mutations in Metastatic Colorectal Cancer  
*Kenji Kawada, Kosuke Toda, Yuji Nakamoto, Masayoshi Iwamoto, Etsuro Hatano, Fengshi Chen, Suguru Hasegawa, Kaori Togashi, Hiroshi Date, Shinji Uemoto, and Yoshiharu Sakai*
- 1328** 15-Year Experience of  $^{18}\text{F}$ -FDG PET Imaging in Response Assessment and Restaging After Definitive Treatment of Merkel Cell Carcinoma  
*Keelan Byrne, Shankar Siva, Lori Chait, Jason Callahan, Mathias Bressel, Matthew Seel, Michael P. MacManus, and Rodney J. Hicks*
- 1334** Characterizing POEMS Syndrome with  $^{18}\text{F}$ -FDG PET/CT  
*Qingqing Pan, Jian Li, Fang Li, Daobin Zhou, and Zhaohui Zhu*
- 1338** Results of a Prospective Multicenter International Atomic Energy Agency Sentinel Node Trial on the Value of SPECT/CT Over Planar Imaging in Various Malignancies  
*Amelia Jimenez-Heffernan, Annare Ellmann, Heitor Sado, Dražen Huić, Chandrasekhar Bal, Ramanathapuram Parameswaran, Francesco Giammarile, Rossana Pruzzo, Irena Kostadinova, Mariza Vorster, Paulo Almeida, Jonas Santiago, Sanjay Gambhir, Sonya Sergieva, Alvaro Calderon, Gabriela Oh Young, Renato Valdes-Olmos, John Zaknun, Vincent Peter Magboo, and Thomas N.B. Pascual*
- 1345** Combined Quantitative Assessment of Myocardial Perfusion and Coronary Artery Calcium Score by Hybrid  $^{82}\text{Rb}$  PET/CT Improves Detection of Coronary Artery Disease  
*Yafim Brodov, Heidi Gransar, Damini Dey, Aryeh Shalev, Guido Germano, John D. Friedman, Sean W. Hayes, Louise E.J. Thomson, André Rogatko, Daniel S. Berman, and Piotr J. Slomka*
- 1351** Optimal Target Region for Subject Classification on the Basis of Amyloid PET Images  
*Felix Carbonell, Alex P. Zijdenbos, Arnaud Charil, Marilyn Grand'Maison, and Barry J. Bedell*
- 1359** PET Quantification of Tau Pathology in Human Brain with  $^{11}\text{C}$ -PBB3  
*Yasuyuki Kimura, Masanori Ichise, Hiroshi Ito, Hitoshi Shimada, Yoko Ikoma, Chie Seki, Harumasa Takano, Soichiro Kitamura, Hitoshi Shinotoh, Kazunori Kawamura, Ming-Rong Zhang, Naruhiko Sahara, Tetsuya Suhara, and Makoto Higuchi*
- 1366** Methodologic Considerations for Quantitative  $^{18}\text{F}$ -FDG PET/CT Studies of Hepatic Glucose Metabolism in Healthy Subjects  
*Malene Trägårdh, Niels Møller, and Michael Sørensen*
- 1372** Quantification of Dynamic  $^{11}\text{C}$ -Phenytoin PET Studies  
*Syahir Mansor, Ronald Boellaard, Femke E. Froklage, Esther D.M. Bakker, Maqsood Yaqub, Rob A. Voskuyl, Lothar A. Schwarte, Joost Verbeek, Albert D. Windhorst, and Adriaan Lammertsma*

**1378 Image Quality and Diagnostic Performance of a Digital PET Prototype in Patients with Oncologic Diseases: Initial Experience and Comparison with Analog PET**

*Nghi C. Nguyen, Jose L. Vercher-Conejero, Abdus Sattar, Michael A. Miller, Piotr J. Maniawski, David W. Jordan, Raymond F. Muzic, Jr., Kuan-Hao Su, James K. O'Donnell, and Peter F. Faulhaber*

**BRIEF COMMUNICATIONS**

**1386 TSPO Imaging in Glioblastoma Multiforme: A Direct Comparison Between <sup>123</sup>I-CLINDE SPECT, <sup>18</sup>F-FET PET, and Gadolinium-Enhanced MR Imaging**

*Per Jensen, Ling Feng, Ian Law, Claus Svarer, Gitte M. Knudsen, Jens D. Mikkelsen, Robin de Nijs, Vibeke A. Larsen, Agnete Dyssegaard, Gerda Thomsen, Walter Fischer, Denis Guilloteau, and Lars H. Pinborg*

**1391 Dose Optimization of the Administered Activity in Pediatric Bone Scintigraphy: Validation of the North American Consensus Guidelines**

*Karen L. Ayres, Stephanie E. Spottswood, Dominique Delbeke, Ronald Price, Pamela K. Hodges, Li Wang, and William H. Martin*

**CONTINUING EDUCATION**

**1395 Gastrointestinal Motility, Part 2: Small-Bowel and Colon Transit**

*Alan H. Maurer*

**BASIC SCIENCE INVESTIGATIONS**

**1401 Auger Radiopharmaceutical Therapy Targeting Prostate-Specific Membrane Antigen**

*Ana P. Kiess, Il Minn, Ying Chen, Robert Hobbs, George Sgouros, Ronnie C. Mease, Mrudula Pullambhatla, Colette J. Shen, Catherine A. Foss, and Martin G. Pomper*

**1408 Multimodal Partial-Volume Correction: Application to <sup>18</sup>F-Fluoride PET/CT Bone Metastases Studies**

*Elisabetta Grecchi, Jim O'Doherty, Mattia Veronese, Charalampos Tsoumpas, Gary J. Cook, and Federico E. Turkheimer*

**1415 Preclinical Kinetic Analysis of the Caspase-3/7 PET Tracer <sup>18</sup>F-C-SNAT: Quantifying the Changes in Blood Flow and Tumor Retention After Chemotherapy**

*Mikael Palner, Bin Shen, Jongho Jeon, Jianguo Lin, Frederick T. Chin, and Jianghong Rao*

**1422 Diabody Pretargeting with Click Chemistry In Vivo**

*Sander M.J. van Duijnhoven, Raffaella Rossin, Sandra M. van den Bosch, Michael P. Wheatcroft, Peter J. Hudson, and Marc S. Robillard*

**1429 Retention Kinetics of the <sup>18</sup>F-Labeled Sympathetic Nerve PET Tracer LMI1195: Comparison with <sup>11</sup>C-Hydroxyephedrine and <sup>123</sup>I-MIBG**

*Rudolf A. Werner, Christoph Rischpler, David Onthank, Constantin Lapa, Simon Robinson, Samuel Sannick, Mehrbod Javadi, Markus Schwaiger, Stephan G. Nekolla, and Takahiro Higuchi*

**1434 Trimeric Radiofluorinated Sulfonamide Derivatives to Achieve In Vivo Selectivity for Carbonic Anhydrase IX-Targeted PET Imaging**

*Joseph Lau, Zhibo Liu, Kuo-Shyan Lin, Jinhe Pan, Zhengxing Zhang, Daniela Vullo, Claudiu T. Supuran, David M. Perrin, and François Bénard*

**1441 Monte Carlo Evaluation of Auger Electron-Emitting Theranostic Radionuclides**

*Nadia Falzone, José M. Fernández-Varea, Glenn Flux, and Katherine A. Vallis*

**1447 Phantom and Clinical Evaluation of the Bayesian Penalized Likelihood Reconstruction Algorithm Q.Clear on an LYSO PET/CT System**

*Eugene J. Teoh, Daniel R. McGowan, Ruth E. Macpherson, Kevin M. Bradley, and Fergus V. Gleeson*

**1453 Impact of Recent Change in the National Institute of Standards and Technology Standard for <sup>18</sup>F on the Relative Response of <sup>68</sup>Ge-Based Mock Syringe Dose Calibrator Standards**

*Brian E. Zimmerman, Denis E. Bergeron, and Jeffrey T. Cessna*

**1458  $\beta$ -Radioluminescence Imaging: A Comparative Evaluation with Cerenkov Luminescence Imaging**

*Martin T. King, Colin M. Carpenter, Conroy Sun, Xiaowei Ma, Quynh-Thu Le, John B. Sunwoo, Zhen Cheng, Guillem Pratx, and Lei Xing*

**DEPARTMENTS**

**1465 Book Reviews**

**1466 Letters to the Editor**

**11A This Month in JNM**

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**UPCOMING EDUCATION ARTICLE**

**Multimodality Brain Tumor Imaging: MR Imaging, PET, and PET/MR Imaging**

*James Fink, Mark Muzi, Melinda Peck, and Kenneth A. Krohn*

For CE credit, you can access educational activities through the SNMMI website (<http://www.snmmilearningcenter.org>)