

## SNMMI NEWSLINE

- 11N** 2017 SNMMI Highlights Lecture: General Nuclear Medicine  
Patrick M. Colletti
- 16N** Availability of <sup>99m</sup>Tc-DMSA  
Justin Paolino and S. Ted Treves
- 17N** SNMMI Honors Contributors at 2017 Annual Meeting
- 18N** SNMMI Leadership Update: Improving Quality, Value, and Safety  
Bennett S. Greenspan
- 19N** Newsbriefs
- 20N** From the Literature

## HOT TOPICS

- 1709** More  $\alpha$  Than  $\beta$  for Prostate Cancer?  
Wolfgang P. Fendler and Cathy Cutler

## THE STATE OF THE ART

- 1711** Clinical Use and Utility of Amyloid Imaging  
Henryk Barthel and Osama Sabri

## CONTINUING EDUCATION

- 1718** Current Concepts in <sup>68</sup>Ga-DOTATATE Imaging of Neuroendocrine Neoplasms: Interpretation, Biodistribution, Dosimetry, and Molecular Strategies  
Lisa Bodei, Valentina Ambrosini, Ken Herrmann, and Irvin Modlin

## FOCUS ON MOLECULAR IMAGING

- 1727** Metabolic Imaging of Infection  
Ismaheel Lawal, JanRijn Zeevaert, Thomas Ebenhan, Alfred Ankrah, Mariza Vorster, Hendrik G. Kruger, Thavendran Govender, and Mike Sathekge

## EDITORIAL

- 1733** Nuclear Medicine Training in the United States  
George M. Segall, Erin E. Grady, Joanna R. Fair, Munir V. Ghesani, and Leonie Gordon

## ONCOLOGY

### Basic

- 1735** ■ **FEATURED ARTICLE OF THE MONTH.** Curative Multicycle Radioimmunotherapy Monitored by Quantitative SPECT/CT-Based Theranostics, Using Bispecific Antibody Pretargeting Strategy in Colorectal Cancer  
Sarah M. Cheal, Edward K. Fung, Mitesh Patel, Hong Xu, Hong-fen Guo, Pat B. Zanzonico, Sebastien Monette, K. Dane Wittrup, Nai-Kong V. Cheung, and Steven M. Larson

- 1743** In Vivo Quantification of ER $\beta$  Expression by Pharmacokinetic Modeling: Studies with <sup>18</sup>F-FHNP PET

Inês F. Antunes, Antoon T.M. Willemsen, Jurgen W.A. Sijbesma, Ate S. Boerema, Aren van Waarde, Andor W.J.M. Glaudemans, Rudi A.J.O. Dierckx, Elisabeth G.E. de Vries, Geke A.P. Hospers, and Erik F.J. de Vries

- 1749** The Evolving Role of Succinate in Tumor Metabolism: An <sup>18</sup>F-FDG-Based Study

Philippe Garrigue, Aurore Bodin-Hullin, Laure Balasse, Samantha Fernandez, Wassim Essamet, Françoise Dignat-George, Karel Pacak, Benjamin Guillet, and David Taïeb

### Clinical

- 1756** <sup>18</sup>F-FDG PET Response After Induction Chemotherapy Can Predict Who Will Benefit from Subsequent Esophagectomy After Chemoradiotherapy for Esophageal Adenocarcinoma

Mian Xi, Zhongxing Liao, Wayne L. Hofstetter, Ritsuko Komaki, Linus Ho, and Steven H. Lin

- 1764** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** Circulating Tumor DNA Reflects Tumor Metabolism Rather Than Tumor Burden in Chemotherapy-Naïve Patients with Advanced Non-Small Cell Lung Cancer: <sup>18</sup>F-FDG PET/CT Study

Silvia Morbelli, Angela Alama, Giulia Ferrarazzo, Simona Coco, Carlo Genova, Erika Rijavec, Francesca Bongioanni, Federica Biello, Maria Giovanna Dal Bello, Giulia Barletta, et al.

- 1770** Test-Retest Variability in Lesion SUV and Lesion SUR in <sup>18</sup>F-FDG PET: An Analysis of Data from Two Prospective Multicenter Trials

Frank Hofheinz, Ivayla Apostolova, Liane Oehme, Jörg Kotzerke, and Jörg van den Hoff

- 1776** ■ **INVITED PERSPECTIVE.** David Versus the Goliaths for the Detection of Bone Metastases

Gary A. Ulaner

- 1778** A Prospective Study Comparing <sup>99m</sup>Tc-Hydroxyethylene-Diphosphate Planar Bone Scintigraphy and Whole-Body SPECT/CT with <sup>18</sup>F-Fluoride PET/CT and <sup>18</sup>F-Fluoride PET/MRI for Diagnosing Bone Metastases

Johan Löfgren, Jann Mortensen, Sine H. Rasmussen, Claus Madsen, Annika Loft, Adam E. Hansen, Peter Oturai, Karl Erik Jensen, Mette Louise Mørk, Michala Reichkendler, et al.

## THERANOSTICS

### Basic

- 1786** Establishing <sup>177</sup>Lu-PSMA-617 Radioligand Therapy in a Syngeneic Model of Murine Prostate Cancer

Wolfgang P. Fendler, Andreea D. Stuparu, Susan Evans-Axelsson, Katharina Lücknerath, Liu Wei, Woosuk Kim, Soumya Poddar, Jonathan Said, Caius G. Radu, Matthias Eiber, et al.

### Clinical

- 1793** Most of the Intended Management Changes After <sup>68</sup>Ga-DOTATATE PET/CT Are Implemented

Jeremie Calais, Johannes Czernin, Matthias Eiber, Wolfgang P. Fendler, Jeannine Gartmann, Anthony P. Heaney, Andrew E. Hendifar, Joseph R. Pisegna, J. Randolph Hecht, Edward M. Wolin, et al.

**1797** **<sup>18</sup>F-DCFPyL PET/CT in the Detection of Prostate Cancer at 60 and 120 Minutes: Detection Rate, Image Quality, Activity Kinetics, and Biodistribution**

Maurits Wondergem, Friso M. van der Zant, Remco J.J. Knol, Sergiy V. Lazarenko, Jan Pruim, and Igle J. de Jong

**1805** **Intraindividual Comparison of <sup>18</sup>F-PSMA-1007 PET/CT, Multiparametric MRI, and Radical Prostatectomy Specimens in Patients with Primary Prostate Cancer: A Retrospective, Proof-of-Concept Study**

Claudia Kesch, Maria Vinsensia, Jan P. Radtke, Heinz P. Schlemmer, Martina Heller, Elena Ellert, Tim Holland-Letz, Stefan Duensing, Nils Grabe, Ali Afshar-Oromieh, et al.

**CARDIOLOGY**

**Clinical**

**1811** ■ **BRIEF COMMUNICATION. Motion-Corrected Imaging of the Aortic Valve with <sup>18</sup>F-NaF PET/CT and PET/MRI: A Feasibility Study**

Mhairi K. Doris, Mathieu Rubeaux, Tania Pawade, Yuka Otaki, Yibin Xie, Debiao Li, Balaji K. Tamarappoo, David E. Newby, Daniel S. Berman, Marc R. Dweck, et al.

**NEUROLOGY**

**Clinical**

**1815** **Management Impact of Imaging Brain Vesicular Monoamine Transporter Type 2 in Clinically Uncertain Parkinsonian Syndrome with <sup>18</sup>F-AV133 and PET**

Paschal K. Alexander, Yenni Lie, Gareth Jones, Chomalaven Sivaratnam, Svetlana Bozinovski, Rachel S. Mulligan, Kenneth Young, Victor L. Villemagne, and Christopher C. Rowe

**1821** **Diagnostic Performance of the Visual Reading of <sup>123</sup>I-Ioflupane SPECT Images With or Without Quantification in Patients With Movement Disorders or Dementia**

Jan Booij, Jacob Dubroff, Daniel Pryma, Jian Yu, Rajan Agarwal, Paras Lakhani, and Phillip H. Kuo

**INFECTIOUS DISEASE**

**Clinical**

**1827** **Does Antibiotic Treatment Affect the Diagnostic Accuracy of <sup>18</sup>F-FDG PET/CT Studies in Patients with Suspected Infectious Processes?**

Olga Kagna, Marina Kurash, Nesrin Ghanem-Zoubi, Zohar Keidar, and Ora Israel

**1831** **Integrating MRI and Chemokine Receptor CXCR4-Targeted PET for Detection of Leukocyte Infiltration in Complicated Urinary Tract Infections After Kidney Transplantation**

Thorsten Derlin, Faikah Gueler, Jan Hinrich Bräsen, Jessica Schmitz, Dagmar Hartung, Thomas R. Herrmann, Tobias L. Ross, Frank Wacker, Hans-Jürgen Wester, Marcus Hiss, et al.

**RADIOIMMUNOIMAGING**

**Basic**

**1838** **PET-Guided Evaluation and Optimization of Internalized Antibody-Drug Conjugates Targeting Erythropoietin-Producing Hepatoma A2 Receptor**

Orit Jacobson, Qing Li, Haojun Chen, Gang Niu, Dale O. Kiesewetter, Lan Xu, Kimberly Cook, Gengcheng Yang, William Dall'Acqua, Ping Tsui, et al.

**1845** **Imaging B Cells in a Mouse Model of Multiple Sclerosis Using <sup>64</sup>Cu-Rituximab PET**

Michelle L. James, Aileen Hoehne, Aaron T. Mayer, Kendra Lechtenberg, Monica Moreno, Gayatri Gowrishankar, Ohad Ilovich, Arutselvan Natarajan, Emily M. Johnson, Joujou Nguyen, et al.

**1852** **In Vivo Imaging of the Programmed Death Ligand 1 by <sup>18</sup>F PET**

Dinko E. González Trotter, Xiangjun Meng, Paul McQuade, Daniel Rubins, Michael Klimas, Zhizhen Zeng, Brett M. Connolly, Patricia J. Miller, Stacey S. O'Malley, Shu-An Lin, et al.

**RADIOCHEMISTRY**

**Basic**

**1858** **A Modular Dual-Labeling Scaffold That Retains Agonistic Properties for Somatostatin Receptor Targeting**

Sukhen C. Ghosh, Melissa Rodriguez, Kendra S. Carmon, Julie Voss, Nathaniel L. Wilganowski, Agnes Schonbrunn, and Ali Azhdarinia

**RADIOBIOLOGY/DOSIMETRY**

**Basic**

**1865** **New Fetal Radiation Doses for <sup>18</sup>F-FDG Based on Human Data**

Paolo Zanotti-Fregonara and Michael G. Stabin

**INSTRUMENTATION**

**1867** **Metal Artifact Reduction of CT Scans to Improve PET/CT**

Charlotte S. van der Vos, Anne I.J. Arens, James J. Hamill, Christian Hofmann, Vladimir Y. Panin, Antoi P.W. Meeuwis, Eric P. Visser, and Lioe-Fee de Geus-Oei

**1873** **Evaluation of Sinus/Edge-Corrected Zero-Echo-Time-Based Attenuation Correction in Brain PET/MRI**

Jaewon Yang, Florian Wiesinger, Sandeep Kaushik, Dattesh Shanbhag, Thomas A. Hope, Peder E.Z. Larson, and Youngho Seo

**DEPARTMENTS**

**8A** **This Month in JNM**

**1880** **Book Reviews**

**1881** **Letters to the Editor**

**1881** **Erratum**