

## SNMMI NEWSLINE

- 11N** 2018 SNMMI Highlights Lecture: Brain Nuclear and Molecular Imaging  
Henryk Barthel
- 18N** SNMMI Leadership Update: SNMMI Committed to Promotion of Women in Nuclear Medicine  
Satoshi Minoshima
- 19N** Newsbriefs
- 21N** From the Literature

## HOT TOPICS

- 1645** The Network Degeneration Hypothesis: Spread of Neurodegenerative Patterns Along Neuronal Brain Networks  
Alexander Drzezga

## CONTINUING EDUCATION

- 1649** Treatment of Primary Liver Tumors and Liver Metastases, Part 1: Nuclear Medicine Techniques  
Nicholas Voutsinas, Safet Lekperic, Sharon Barazani, Joseph J. Titano, Sherif I. Heiba, and Edward Kim

## FOCUS ON MOLECULAR IMAGING

- 1655** Production and Use of the First-Row Transition Metal PET Radionuclides  $^{43,44}\text{Sc}$ ,  $^{52}\text{Mn}$ , and  $^{45}\text{Ti}$   
Ivis F. Chaple and Suzanne E. Lapi

## SPECIAL CONTRIBUTION

- 1660** The Additional Value of PET in the Assessment of Cerebral Small Vessel Disease  
Wolf-Dieter Heiss

## ONCOLOGY

### Clinical

- 1665** A Prospective Comparison of  $^{18}\text{F}$ -Sodium Fluoride PET/CT and PSMA-Targeted  $^{18}\text{F}$ -DCFBC PET/CT in Metastatic Prostate Cancer  
Stephanie A. Harmon, Ethan Bergvall, Esther Mena, Joanna H. Shih, Stephen Adler, Yolanda McKinney, Sherif Mehralivand, Deborah E. Citrin, Anna Couvillon, Ravi A. Madan, et al.
- 1672**  $^{11}\text{C}$ -Choline Pharmacokinetics in Recurrent Prostate Cancer  
Milan Grkovski, Karem Gharzeddine, Peter Sawan, Heiko Schöder, Laure Michaud, Wolfgang A. Weber, and John L. Humm

## Translational

- 1679** Comparison of the RGD Motif-Containing  $\alpha_v\beta_6$  Integrin-Binding Peptides SFLAP3 and SFITGv6 for Diagnostic Application in HNSCC  
Saskia Roesch, Thomas Lindner, Max Sauter, Anastasia Loktev, Paul Flechsig, Martin Müller, Walter Mier, Rolf Warta, Gerhard Dyckhoff, Christel Herold-Mende, et al.

## Basic

- 1686** ■ **FEATURED ARTICLE OF THE MONTH.** Development of a SPECT Tracer to Image c-Met Expression in a Xenograft Model of Non-Small Cell Lung Cancer  
Zhaoguo Han, Yadi Xiao, Kai Wang, Ji Yan, Zunyu Xiao, Fang Fang, Zhongnan Jin, Yang Liu, Xilin Sun, and Baozhong Shen

## THERANOSTICS

### Clinical

- 1692**  $^{90}\text{Y}$ -DOTATOC Dosimetry-Based Personalized Peptide Receptor Radionuclide Therapy  
Yusuf Menda, Mark T. Madsen, Thomas M. O'Dorisio, John J. Sunderland, G. Leonard Watkins, Joseph S. Dillon, Sarah L. Mott, Michael K. Schultz, Gideon K.D. Zamba, David L. Bushnell, et al.
- 1699** Safety, Pharmacokinetics, and Dosimetry of a Long-Acting Radiolabeled Somatostatin Analog  $^{177}\text{Lu}$ -DOTA-EB-TATE in Patients with Advanced Metastatic Neuroendocrine Tumors  
Jingjing Zhang, Hao Wang, Orit Jacobson, Yuejuan Cheng, Gang Niu, Fang Li, Chunmei Bai, Zhaohui Zhu, and Xiaoyuan Chen
- 1706** ■ **INVITED PERSPECTIVE.** The Current State of Radiopharmaceutical Therapy  
Chaitanya Divgi
- 1708** Predictors of Survival in 211 Patients with Stage IV Pulmonary and Gastroenteropancreatic MIBG-Positive Neuroendocrine Tumors Treated with  $^{131}\text{I}$ -MIBG  
Ari Kane, Matthew P. Thorpe, Michael A. Morse, Brandon A. Howard, Jorge D. Oldan, Jason Zhu, Terence Z. Wong, Neil A. Petry, Robert Reiman, Jr., and Salvador Borges-Neto
- 1714** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** Potential Impact of  $^{68}\text{Ga}$ -PSMA-11 PET/CT on the Planning of Definitive Radiation Therapy for Prostate Cancer  
Jeremie Calais, Amar U. Kishan, Minsong Cao, Wolfgang P. Fendler, Matthias Eiber, Ken Herrmann, Francesco Ceci, Robert E. Reiter, Matthew B. Rettig, John V. Hegde, et al.

## NEUROLOGY

### Basic

- 1722** Longitudinal Characterization of mGluR5 Using  $^{11}\text{C}$ -ABP688 PET Imaging in the Q175 Mouse Model of Huntington Disease  
Daniele Bertoglio, Lauren Kosten, Jeroen Verhaeghe, David Thomae, Leonie Wyffels, Sigrid Stroobants, John Wityak, Celia Dominguez, Ladislav Mrzljak, and Steven Staelens

## CARDIOVASCULAR

### Clinical

#### **1728** Cardiac Sympathetic Denervation Can Predict the Wearing-off Phenomenon in Patients with Parkinson Disease

Jee-Eun Lee, Joong-Seok Kim, Dong-Woo Ryu, Yoon-Sang Oh, Je Ryung Yoo, and Kwang-Soo Lee

## INFECTIOUS DISEASE

### Clinical

#### **1734** $^{18}\text{F}$ -FDG PET/CT in Autosomal Dominant Polycystic Kidney Disease Patients with Suspected Cyst Infection

Jordy P. Pijl, Andor W.J.M. Glaudemans, Riemer H.J.A. Slart, and Thomas C. Kwee

## MUSCULOSKELETAL

### Clinical

#### **1742** Cost-Effectiveness of Bone SPECT/CT in Painful Total Knee Arthroplasty

Tim Van den Wyngaert, Swetha R. Palli, Ryan J. Imhoff, and Michael T. Hirschmann

## RADIOBIOLOGY/DOSIMETRY

### Clinical

#### **1751** Biodistribution and Radiation Dosimetry of $^{124}\text{I}$ -DPA-713, a PET Radiotracer for Macrophage-Associated Inflammation

Catherine A. Foss, Donika Plyku, Alvaro A. Ordonez, Julian Sanchez-Bautista, Hailey B. Rosenthal, Il Minn, Martin A. Lodge, Martin G. Pomper, George Sgouros, and Sanjay K. Jain

## MOLECULAR IMAGING

#### **1757** ■ **BRIEF COMMUNICATION.** Multispectral-Fluorescence Imaging as a Tool to Separate Healthy from Disease-Related Lymphatic Anatomy During Robot-Assisted Laparoscopy

Philippa Meershoek, Gijs H. KleinJan, Matthias N. van Oosterom, Esther M.K. Wit, Danny M. van Willigen, Kevin P. Bauwens, Erik J. van Gennep, Alexandre M. Mottrie, Henk G. van der Poel, and Fijs W.B. van Leeuwen

## PHYSICS AND INSTRUMENTATION

#### **1761** Development of a Dedicated Rebinner with Rigid Motion Correction for the mMR PET/MR Scanner, and Validation in a Large Cohort of $^{11}\text{C}$ -PIB Scans

Anthonin Reilhac, Inés Merida, Zacharie Irace, Mary C. Stephenson, Ashley A. Weekes, Christopher Chen, John J. Totman, David W. Townsend, Hadi Fayad, and Nicolas Costes

#### **1768** Measuring PET Spatial Resolution Using a Cylinder Phantom Positioned at an Oblique Angle

Martin A. Lodge, Jeffrey P. Leal, Arman Rahmim, John J. Sunderland, and Eric C. Frey

## DEPARTMENTS

**10A** This Month in JNM

**17N** Recruitment

**1776** Book Reviews

**1777** Letters to the Editor