

## SNMMI NEWSLINE

- 11N** NIH Completes Genomic Analysis of 33 Cancer Types
- 12N** Outstanding *JNMT* Articles for 2017
- 13N** Proceedings of the NCI SBIR Workshop on Molecularly Targeted Radionuclide Therapy  
Christie A. Canaria, M. Lisa Yeom, Jacek Capala, and Deepa Narayanan
- 15N** Outstanding *JNM* Articles for 2017
- 16N** ABNM Support for Research During Training  
George M. Segall
- 17N** SNMMI Leadership Update: Implementing the Value Initiative  
Bennett S. Greenspan
- 18N** Aria Razmaria, MD, Awarded 2018 Henkin Fellowship
- 19N** Newsbriefs
- 21N** From the Literature

## HOT TOPICS

- 863** Now Is the Time to Use <sup>18</sup>F-FDG PET/CT to Optimize Neoadjuvant Treatment in Triple-Negative Breast Cancer!  
David Groheux

## ISSUES AND CONTROVERSIES

- 865** ■ **INVITED PERSPECTIVE.** Perspective on How the FDA Should Review Diagnostic Radiopharmaceuticals  
Sally W. Schwarz and Bonnie Clarke
- 868** How Should the FDA Review Diagnostic Radiopharmaceuticals?  
Carol S. Marcus

## THE STATE OF THE ART

- 871** Imaging of Nonprostate Cancers Using PSMA-Targeted Radiotracers: Rationale, Current State of the Field, and a Call to Arms  
Roberto A. Salas Fragomeni, Tali Amir, Sara Sheikhbahaei, Susan C. Harvey, Mehrbod S. Javadi, Lilja B. Solnes, Ana P. Kiess, Mohamad E. Allaf, Martin G. Pomper, Michael A. Gorin, et al.

## CONTINUING EDUCATION

- 878**  $\alpha$ -Emitters for Radiotherapy: From Basic Radiochemistry to Clinical Studies—Part 1  
Sophie Poty, Lynn C. Francesconi, Michael R. McDevitt, Michael J. Morris, and Jason S. Lewis

## FOCUS ON MOLECULAR IMAGING

- 885** Same-Day Imaging Using Small Proteins: Clinical Experience and Translational Prospects in Oncology  
Ahmet Krasniqi, Matthias D'Huyvetter, Nick Devoogdt, Fredrik Y. Frejd, Jens Sörensen, Anna Orlova, Marleen Keyaerts, and Vladimir Tolmachev

## ONCOLOGY

### Clinical

- 892** Glioma Survival Prediction with Combined Analysis of In Vivo <sup>11</sup>C-MET PET Features, Ex Vivo Features, and Patient Features by Supervised Machine Learning  
László Papp, Nina Pötsch, Marko Grahovac, Victor Schmidbauer, Adelheid Woehrer, Matthias Preusser, Markus Mitterhauser, Barbara Kiesel, Wolfgang Wadsak, Thomas Beyer, et al.
- 900** First-in-Human Human Epidermal Growth Factor Receptor 2-Targeted Imaging Using <sup>89</sup>Zr-Pertuzumab PET/CT: Dosimetry and Clinical Application in Patients with Breast Cancer  
Gary A. Ulaner, Serge K. Lyashchenko, Christopher Riedl, Shutian Ruan, Pat B. Zanzonico, Diana Lake, Komal Jhaveri, Brian Zeglis, Jason S. Lewis, and Joseph A. O'Donoghue

## THERANOSTICS

### Clinical

- 907** ■ **INVITED PERSPECTIVE.** Somatostatin Receptor Imaging of Neuroendocrine Tumors: From Agonists to Antagonists  
Lisa Bodei and Wolfgang A. Weber
- 909** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** Safety, Biodistribution, and Radiation Dosimetry of <sup>68</sup>Ga-OPS202 in Patients with Gastroenteropancreatic Neuroendocrine Tumors: A Prospective Phase I Imaging Study  
Guillaume P. Nicolas, Seval Beykan, Hakim Bouterfa, Jens Kaufmann, Andreas Bauman, Michael Lassmann, Jean Claude Reubi, Jean E.F. Rivier, Helmut R. Maecke, Melpomeni Fani, et al.
- 915** Sensitivity Comparison of <sup>68</sup>Ga-OPS202 and <sup>68</sup>Ga-DOTATOC PET/CT in Patients with Gastroenteropancreatic Neuroendocrine Tumors: A Prospective Phase II Imaging Study  
Guillaume P. Nicolas, Nils Schreiter, Felix Kaul, John Uiters, Hakim Bouterfa, Jens Kaufmann, Tobias E. Erlanger, Richard Cathomas, Emanuel Christ, Melpomeni Fani, et al.
- 922** PET Using a GRPR Antagonist <sup>68</sup>Ga-RM26 in Healthy Volunteers and Prostate Cancer Patients  
Jingjing Zhang, Gang Niu, Xinrong Fan, Lixin Lang, Guozhu Hou, Libo Chen, Huanwen Wu, Zhaohui Zhu, Fang Li, and Xiaoyuan Chen
- 929** ■ **BRIEF COMMUNICATION.** The Effect of Total Tumor Volume on the Biologically Effective Dose to Tumor and Kidneys for <sup>177</sup>Lu-Labeled PSMA Peptides  
Nusrat J. Begum, Anne Thieme, Nina Eberhardt, Robert Tauber, Calogero D'Alessandria, Ambros J. Beer, Gerhard Glatting, Matthias Eiber, and Peter Kletting
- 934** ■ **INVITED PERSPECTIVE.** Penetrating the Barriers to Successful  $\alpha$ -Radioimmunotherapy  
Sean Carlin

## NEUROLOGY

### Clinical

- 937 Test-Retest Reproducibility for the Tau PET Imaging Agent Flortaucipir F 18**  
Michael D. Devous Sr., Abhinay D. Joshi, Michael Navitsky, Sudeepti Southekal, Michael J. Pontecorvo, Haiqing Shen, Ming Lu, William R. Shankle, John P. Seibyl, Ken Marek, et al.

- 944 Flortaucipir F 18 Quantitation Using Parametric Estimation of Reference Signal Intensity**  
Sudeepti Southekal, Michael D. Devous Sr., Ian Kennedy, Michael Navitsky, Ming Lu, Abhinay D. Joshi, Michael J. Pontecorvo, and Mark A. Mintun

### Basic

- 952 Glutamatergic Biomarkers for Cocaine Addiction: A Longitudinal Study Using MR Spectroscopy and mGluR5 PET in Self-Administering Rats**  
Bart de Laat, Akila Weerasekera, Gil Leurquin-Sterk, Guy Bormans, Uwe Himmelreich, Cindy Casteels, and Koen Van Laere
- 960 Comparative In Vitro and In Vivo Quantifications of Pathologic Tau Deposits and Their Association with Neurodegeneration in Tauopathy Mouse Models**  
Ruiqing Ni, Bin Ji, Maiko Ono, Naruhiko Sahara, Ming-Rong Zhang, Ichio Aoki, Agneta Nordberg, Tetsuya Suhara, and Makoto Higuchi

## MUSCULOSKELETAL

### Clinical

- 967 <sup>18</sup>F-FDG PET/MRI in Chronic Sciatica: Early Results Revealing Spinal and Nonspinal Abnormalities**  
Peter W. Cipriano, Daehyun Yoon, Harsh Gandhi, Dawn Holley, Dushyant Thakur, Brian A. Hargreaves, David J. Kennedy, Matthew W. Smuck, Ivan Cheng, and Sandip Biswal

## RADIOCHEMISTRY

### Clinical

- 973 Molecular Imaging of ABCB1 and ABCG2 Inhibition at the Human Blood-Brain Barrier Using Elacridar and <sup>11</sup>C-Erlotinib PET**  
Remy B. Verheijen, Maqsood Yaqub, Emilia Sawicki, Olaf van Tellingen, Adriaan A. Lammertsma, Bastiaan Nuijen, Jan H.M. Schellens, Jos H. Beijnen, Alwin D.R. Huitema, N. Harry Hendrikse, et al.

## INFLAMMATION/INFECTIOUS DISEASE

### Basic

- 980 ■ FEATURED ARTICLE OF THE MONTH. Immuno-PET in Inflammatory Bowel Disease: Imaging CD4-Positive T Cells in a Murine Model of Colitis**  
Amanda C. Freise, Kirstin A. Zettlitz, Felix B. Salazar, Richard Tavaré, Wen-Ting K. Tsai, Arion F. Chatziioannou, Nora Rozenfurt, Jonathan Braun, and Anna M. Wu

## MOLECULAR IMAGING

### Basic

- 986 Tracers for Fluorescence-Guided Surgery: How Elongation of the Polymethine Chain in Cyanine Dyes Alters the Pharmacokinetics of a Dual-Modality c[RGDyK] Tracer**  
Tessa Buckle, Danny M. van Willigen, Silvia J. Spa, Albertus W. Hensbergen, Steffen van der Wal, Clarize M. de Korne, Mick M. Welling, Henk G. van der Poel, James C.H. Hardwick, and Fijs W.B. van Leeuwen

## PHYSICS AND INSTRUMENTATION

- 993 Development and Evaluation of mini-EXPLORER: A Long Axial Field-of-View PET Scanner for Nonhuman Primate Imaging**  
Eric Berg, Xuezhu Zhang, Julien Bec, Martin S. Judenhofer, Brijesh Patel, Qiyu Peng, Maciej Kapusta, Matthias Schmand, Michael E. Casey, Alice F. Tarantal, et al.
- 999 Reproducibility of MR-Based Attenuation Maps in PET/MRI and the Impact on PET Quantification in Lung Cancer**  
Anders Olin, Claes N. Ladefoged, Natasha H. Langer, Sune H. Keller, Johan Löfgren, Adam E. Hansen, Andreas Kjær, Seppo W. Langer, Barbara M. Fischer, and Flemming L. Andersen

## RADIOBIOLOGY/DOSIMETRY

- 1005 ■ SPECIAL CONTRIBUTION. New-Generation Fetal Dose Estimates for Radiopharmaceuticals**  
Michael G. Stabin

## DEPARTMENTS

- 10A This Month in JNM**
- 992 Erratum**