

## SNMMI NEWSLINE

- 9N** 2014 SNMMI Highlights Lecture: Cardiovascular Imaging  
*Vasken Dilsizian*
- 15N** Dilsizian Recognized with Blumgart Award
- 16N** SNMMI Exhibitors Hall 2014  
*George Zubal*
- 19N** Adelstein Recognized with Loevinger–Berman Award; Completes SNMMI ‘Triple Crown’  
*Roger W. Howell, Wesley E. Bolch, A. Bertrand Brill, and George Sgouros*
- 20N** SNMMI Leadership Update: SNMMI Mid-Winter Meeting Heads to San Antonio  
*Virginia Pappas*
- 21N** Newsbriefs

## FOCUS ON MOLECULAR IMAGING

- 1567** Hyperpolarized  $^{13}\text{C}$  MR for Molecular Imaging of Prostate Cancer  
*David M. Wilson and John Kurhanewicz*

## INVITED PERSPECTIVES

- 1573** Is Assessment of Absolute Myocardial Perfusion with SPECT Ready for Prime Time?  
*Chi Liu and Albert J. Sinusas*
- 1576** Diagnostic Imaging in Neuroendocrine Tumors  
*Luigi Mansi and Vincenzo Cuccurullo*

## CLINICAL INVESTIGATIONS

- 1578** Retrospective Analysis of  $^{18}\text{F}$ -FDG PET/CT for Staging Asymptomatic Breast Cancer Patients Younger Than 40 Years  
*Christopher C. Riedl, Elina Slobod, Maxine Jochelson, Monica Morrow, Debra A. Goldman, Mithat Gonen, Wolfgang A. Weber, and Gary A. Ulaner*
- 1584** Value of Metabolic Tumor Volume on Repeated  $^{18}\text{F}$ -FDG PET/CT for Early Prediction of Survival in Locally Advanced Non–Small Cell Lung Cancer Treated with Concurrent Chemoradiotherapy  
*Wei Huang, Min Fan, Bo Liu, Zheng Fu, Tao Zhou, Zicheng Zhang, Heyi Gong, and Baosheng Li*
- 1591** Combined PET and Biopsy Evidence of Marrow Involvement Improves Prognostic Prediction in Diffuse Large B-Cell Lymphoma  
*Juliano J. Cerci, Tamás Györke, Stefano Fanti, Diana Paez, José Cláudio Meneghetti, Francisca Redondo, Monica Celli, Chirayu Auewarakul, Venkatesh Rangarajan, Sumeet Gujral, Charity Gorospe, Maejoy V. Campo, June-Key Chung, Tim P. Morris, Maurizio Dondi, and Robert Carr on behalf of the IAEA Lymphoma Study Group*

- 1598**  $^{68}\text{Ga}$ -DOTATATE PET/CT,  $^{99\text{m}}\text{Tc}$ -HYNIC-Octreotide SPECT/CT, and Whole-Body MR Imaging in Detection of Neuroendocrine Tumors: A Prospective Trial  
*Elba Cristina Sá de Camargo Etchebehere, Allan de Oliveira Santos, Brenda Gumz, Andreia Vicente, Paulo Ghem Hoff, Gustavo Corradi, Wilson André Ichiki, José Geraldo de Almeida Filho, Saulo Cantoni, Edwaldo Eduardo Camargo, and Frederico Perego Costa*

- 1605** Clinical Significance of Tryptophan Metabolism in the Nontumoral Hemisphere in Patients with Malignant Glioma

*David O. Kamson, Tiffany J. Lee, Kaushik Varadarajan, Natasha L. Robinette, Otto Muzik, Pulak K. Chakraborty, Michael Snyder, Geoffrey R. Barger, Sandeep Mittal, and Csaba Juhász*

- 1611** Comparison of the Amino Acid Tracers  $^{18}\text{F}$ -FET and  $^{18}\text{F}$ -DOPA in High-Grade Glioma Patients

*Constantin Lapa, Thomas Linsenmann, Camelia Maria Monoranu, Samuel Samnick, Andreas K. Buck, Christina Bluemel, Johannes Czernin, Almuth F. Kessler, Gyoergy A. Homola, Ralf-Ingo Ernestus, Mario Löhr, and Ken Herrmann*

- 1617** Segmentation-Based MR Attenuation Correction Including Bones Also Affects Quantitation in Brain Studies: An Initial Result of  $^{18}\text{F}$ -FP-CIT PET/MR for Patients with Parkinsonism

*Hongyoon Choi, Gi Jeong Cheon, Han-Joon Kim, Seung Hong Choi, Jae Sung Lee, Yong-il Kim, Keon Wook Kang, June-Key Chung, E. Edmund Kim, and Dong Soo Lee*

- 1623** Automated Quantification of  $^{18}\text{F}$ -Flutemetamol PET Activity for Categorizing Scans as Negative or Positive for Brain Amyloid: Concordance with Visual Image Reads  
*Lennart Thurjfell, Johan Lilja, Roger Lundqvist, Chris Buckley, Adrian Smith, Rik Vandenberghe, and Paul Sherwin*

- 1629** A Randomized Trial on the Optimization of  $^{18}\text{F}$ -FDG Myocardial Uptake Suppression: Implications for Vulnerable Coronary Plaque Imaging

*Fabian Demeure, François-Xavier Hanin, Anne Bol, Marie-Françoise Vincent, Anne-Catherine Pouleur, Bernhard Gerber, Agnès Pasquet, François Jamar, Jean-Louis J. Vanoverschelde, and David Vancaeynest*

- 1636** Dose Escalation and Dosimetry of First-in-Human  $\alpha$  Radioimmunotherapy with  $^{212}\text{Pb}$ -TCMC-Trastuzumab  
*Ruby Meredith, Julien Torgue, Sui Shen, Darrell R. Fisher, Eileen Banaga, Patty Bunch, Desiree Morgan, Jinda Fan, and J. Michael Straughn, Jr.*

- 1643** Fat-Constrained  $^{18}\text{F}$ -FDG PET Reconstruction in Hybrid PET/MR Imaging

*Sven Prevrhal, Susanne Heinzer, Christian Wülker, Steffen Renisch, Osman Ratib, and Peter Börnert*

## CONTINUING EDUCATION

- 1650** Targeting Neuropeptide Receptors for Cancer Imaging and Therapy: Perspectives with Bombesin, Neurotensin, and Neuropeptide-Y Receptors  
*Clément Morgat, Anil Kumar Mishra, Raunak Varshney, Michèle Allard, Philippe Fernandez, and Elif Hindîé*

## BASIC SCIENCE INVESTIGATIONS

- 1658 Promising Prospects for  $^{44}\text{Sc}$ -/ $^{47}\text{Sc}$ -Based Theragnostics: Application of  $^{47}\text{Sc}$  for Radionuclide Tumor Therapy in Mice**  
*Cristina Müller, Maruta Bunka, Stephanie Haller, Ulli Köster, Viola Groehn, Peter Bernhardt, Nicholas van der Meulen, Andreas Türler, and Roger Schibli*
- 1665 Early Response Monitoring with  $^{18}\text{F}$ -FDG PET and Cetuximab-F(ab')<sub>2</sub>-SPECT After Radiotherapy of Human Head and Neck Squamous Cell Carcinomas in a Mouse Model**  
*Laura K. van Dijk, Otto C. Boerman, Gerben M. Franssen, Jasper Lok, Johannes H.A.M. Kaanders, and Johan Bussink*
- 1671 Preclinical Characterization of 5-Amino-4-Oxo-[6- $^{11}\text{C}$ ]Hexanoic Acid as an Imaging Probe to Estimate Protoporphyrin IX Accumulation Induced by Exogenous Aminolevulinic Acid**  
*Chie Suzuki, Atsushi B. Tsuji, Koichi Kato, Tatsuya Kikuchi, Hitomi Sudo, Maki Okada, Aya Sugyo, Ming-Rong Zhang, Yasushi Arano, and Tsuneo Saga*
- 1678  $^{99\text{m}}\text{Tc}$ -cAbVCAM1-5 Imaging Is a Sensitive and Reproducible Tool for the Detection of Inflamed Atherosclerotic Lesions in Mice**  
*Alexis Broisat, Jakub Toczek, Laurent S. Dumas, Mitra Ahmadi, Sandrine Bacot, Pascale Perret, Lotfi Slimani, Gilles Barone-Rochette, Audrey Soubies, Nick Devoogdt, Tony Lahoutte, Daniel Fagret, Laurent M. Riou, and Catherine Ghezzi*
- 1685 Dynamic SPECT Measurement of Absolute Myocardial Blood Flow in a Porcine Model**  
*R. Glenn Wells, Rachel Timmins, Ran Klein, Julia Lockwood, Brian Marvin, Robert A. deKemp, Lihui Wei, and Terrence D. Ruddy*
- 1692 Detection of Increased  $^{64}\text{Cu}$  Uptake by Human Copper Transporter 1 Gene Overexpression Using PET with  $^{64}\text{CuCl}_2$  in Human Breast Cancer Xenograft Model**  
*Kwang Il Kim, Su Jin Jang, Ju Hui Park, Yong Jin Lee, Tae Sup Lee, Kwang Sun Woo, Hyun Park, Jae Gol Choe, Gwang Il An, and Joo Hyun Kang*
- 1699 Oxidized Low-Density Lipoprotein Stimulates Macrophage  $^{18}\text{F}$ -FDG Uptake via Hypoxia-Inducible Factor-1 $\alpha$  Activation Through Nox2-Dependent Reactive Oxygen Species Generation**  
*Su Jin Lee, Cung Hoa Thien Quach, Kyung-Ho Jung, Jin-Young Paik, Jin Hee Lee, Jin Won Park, and Kyung-Han Lee*
- 1706 A Modular Labeling Strategy for In Vivo PET and Near-Infrared Fluorescence Imaging of Nanoparticle Tumor Targeting**  
*Carlos Pérez-Medina, Dalya Abdel-Atti, Yachao Zhang, Valerie A. Longo, Christopher P. Irwin, Tina Binderup, Jesús Ruiz-Cabello, Zahi A. Fayad, Jason S. Lewis, Willem J.M. Mulder, and Thomas Reiner*

**1712 Adenosine 2A Receptor Occupancy by Tozadenant and Preladenant in Rhesus Monkeys**

*Olivier Barret, Jonas Hannestad, David Alagille, Christine Vala, Adriana Tavares, Caroline Papin, Thomas Morley, Krista Fowles, Hsiaoju Lee, John Seibyl, Dominique Tytgat, Marc Laruelle, and Gilles Tamagnan*

**1719 N-Terminal Modifications Improve the Receptor Affinity and Pharmacokinetics of Radiolabeled Peptidic Gastrin-Releasing Peptide Receptor Antagonists: Examples of  $^{68}\text{Ga}$ - and  $^{64}\text{Cu}$ -Labeled Peptides for PET Imaging**

*Eleni Gourni, Rosalba Mansi, Mazen Jamous, Beatrice Waser, Christiane Smerling, Antje Burian, Franz Buchegger, Jean Claude Reubi, and Helmut R. Maecke*

**1726 Imaging the Evolution of Reactivation Pulmonary Tuberculosis in Mice Using  $^{18}\text{F}$ -FDG PET**

*Allison M. Murawski, Saumya Gurbani, Jamie S. Harper, Mariah Klunk, Laurent Younes, Sanjay K. Jain, and Bruno M. Jedynak*

**1730 Distinctive In Vivo Kinetics of the New  $\sigma_1$  Receptor Ligands (R)-(+)- and (S)-(-)- $^{18}\text{F}$ -Fluspidine in Porcine Brain**

*Peter Brust, Winnie Deuther-Conrad, Georg Becker, Marianne Patt, Cornelius K. Donat, Shannon Stittsworth, Steffen Fischer, Achim Hiller, Barbara Wenzel, Sladjana Dukic-Stefanovic, Swen Hesse, Jörg Steinbach, Bernhard Wünsch, Susan Z. Lever, and Osama Sabri*

**1737 Feasibility of  $^{18}\text{F}$ -FDG PET as a Noninvasive Diagnostic Tool of Muscle Denervation: A Preliminary Study**

*Seung Hak Lee, Byung-Mo Oh, Gangpyo Lee, Hongyoon Choi, Gi Jeong Cheon, and Shi-Uk Lee*

## DEPARTMENTS

**1741 Book Review**

**1742 Notification of Proposed SNMMI Bylaws Change**

**8A This Month in JNM**

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## UPCOMING EDUCATION ARTICLE

**Radionuclide Imaging in Ischemic Stroke**

*Wolf-Dieter Heiss*

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