

## SNM NEWSLINE

- 14N** 2009 SNM Highlights Lecture: Creating a New, Smarter Health Care  
*Henry N. Wagner, Jr.*
- 33N** In Memoriam: Susan C. Weiss, BS, CNMT, 1944–2009  
*James Conway*
- 35N** Thomas Receives Loevinger–Berman Award  
*George Sgouros*
- 36N** SNM Leadership Update: Embracing the Challenges Ahead—Together  
*Michael Graham*
- 37N** Molecular Imaging Update: MI Grants Fuel Advances in Molecular Imaging Research  
*Craig Levin*
- 38N** Newsbriefs
- 42N** From the Literature

## FOCUS ON MOLECULAR IMAGING

- 1387** New Agents and Techniques for Imaging Prostate Cancer  
*Atif Zaheer, Steve Y. Cho, and Martin G. Pomper*

## INVITED PERSPECTIVE

- 1391** Molecular Imaging of Cartilage  
*Laure Sarda-Mantel and Dominique Le Guludec*

## CLINICAL INVESTIGATIONS

- 1394** Influence of Trigger PSA and PSA Kinetics on  $^{11}\text{C}$ -Choline PET/CT Detection Rate in Patients with Biochemical Relapse After Radical Prostatectomy  
*Paolo Castellucci, Chiara Fuccio, Cristina Nanni, Ivan Santi, Anna Rizzello, Filippo Lodi, Alessandro Franceschelli, Giuseppe Martorana, Fabio Manfredi, and Stefano Fanti*
- 1401** Initial Characterization of a Dedicated Breast PET/CT Scanner During Human Imaging  
*Spencer L. Bowen, Yibao Wu, Abhijit J. Chaudhari, Lin Fu, Nathan J. Packard, George W. Burkett, Kai Yang, Karen K. Lindfors, David K. Shelton, Rosalie Hagge, Alexander D. Borowsky, Steve R. Martinez, Jinyi Qi, John M. Boone, Simon R. Cherry, and Ramsey D. Badawi*
- 1409** Optimization of the Injected Activity in Dynamic 3D PET: A Generalized Approach Using Patient-Specific NECs as Demonstrated by a Series of  $^{15}\text{O}$ - $\text{H}_2\text{O}$  Scans  
*Matthew D. Walker, Julian C. Matthews, Marie-Claude Asselin, Azeem Saleem, Clare Dickinson, Natalie Charnley, Peter J. Julyan, Patricia M. Price, and Terry Jones*

- 1418** Automated Quality Control for Segmentation of Myocardial Perfusion SPECT  
*Yuan Xu, Paul Kavanagh, Mathews Fish, James Gerlach, Amit Ramesh, Mark Lemley, Sean Hayes, Daniel S. Berman, Guido Germano, and Piotr J. Slomka*
- 1427**  $^{68}\text{Ga}$ -DOTA-Tyr<sup>3</sup>-Octreotide PET for Assessing Response to Somatostatin-Receptor-Mediated Radionuclide Therapy  
*Michael Gabriel, Andreas Oberauer, Georg Dobrozemsky, Clemens Decristoforo, Daniel Putzer, Dorota Kendler, Christian Uprimny, Peter Kovacs, Reto Bale, and Irene J. Virgolini*
- 1435** Prediction Model of Chemotherapy Response in Osteosarcoma by  $^{18}\text{F}$ -FDG PET and MRI  
*Gi Jeong Cheon, Min Suk Kim, Jun Ah Lee, Soo-Yong Lee, Wan Hyeong Cho, Won Seok Song, Jae-Soo Koh, Ji Young Yoo, Dong Hyun Oh, Duk Seop Shin, and Dae-Geun Jeon*
- 1441** Imaging of Proliferation in Hepatocellular Carcinoma with the In Vivo Marker  $^{18}\text{F}$ -Fluorothymidine  
*Florian Eckel, Ken Herrmann, Stefan Schmidt, Claudia Hillerer, Hinrich A. Wieder, Bernd-Joachim Krause, Tibor Schuster, Rupert Langer, Hans-Jurgen Wester, Roland M. Schmid, Markus Schwaiger, and Andreas K. Buck*
- 1448** Usefulness of  $^{123}\text{I}$ -MIBG Scintigraphy in the Evaluation of Patients with Known or Suspected Primary or Metastatic Pheochromocytoma or Paraganglioma: Results from a Prospective Multicenter Trial  
*Gregory A. Wiseman, Karel Pacak, Mary S. O'Dorisio, Donald R. Neumann, Alan D. Waxman, David A. Mankoff, Sherif I. Heiba, Aldo N. Serafini, Sabah S. Tumeh, Natalie Khutoryansky, and Arnold F. Jacobson*
- 1455**  $^{123}\text{I}$ -5-IA-85380 SPECT Imaging of Nicotinic Receptors in Alzheimer Disease and Mild Cognitive Impairment  
*Effie M. Mitsis, Kristina M. Reech, Frederic Bois, Gilles D. Tamagnan, Martha G. MacAvoy, John P. Seibyl, Julie K. Staley, and Christopher H. van Dyck*
- 1464** Relationship of Cerebrospinal Fluid Markers to  $^{11}\text{C}$ -PIB and  $^{18}\text{F}$ -FDDNP Binding  
*Nelleke Tolboom, Wiesje M. van der Flier, Maqsood Yaqub, Ronald Boellaard, Nicolaas A. Verwey, Marinus A. Blankenstein, Albert D. Windhorst, Philip Scheltens, Adriaan A. Lammertsma, and Bart N.M. van Berckel*
- 1471** Directions and Magnitudes of Misregistration of CT Attenuation-Corrected Myocardial Perfusion Studies: Incidence, Impact on Image Quality, and Guidance for Reregistration  
*John A. Kennedy, Ora Israel, and Alex Frenkel*

## BRIEF COMMUNICATION

- 1479** Hypertension Increases Cerebral 6- $^{18}\text{F}$ -Fluorodopa-Derived Radioactivity  
*David S. Goldstein, Courtney Holmes, LaToya Sewell, and Irwin J. Kopin*

## CONTINUING EDUCATION

- 1483** Dosimetry of Pediatric PET/CT  
*Frederic H. Fahey*

## BASIC SCIENCE INVESTIGATIONS

- 1492** **A 2-Helix Small Protein Labeled with  $^{68}\text{Ga}$  for PET Imaging of *HER2* Expression**  
*Gang Ren, Rong Zhang, Zhe Liu, Jack M. Webster, Zheng Miao, Sanjiv S. Gambhir, Faisal A. Syud, and Zhen Cheng*
- 1500** **Recombinant Anti-CD20 Antibody Fragments for Small-Animal PET Imaging of B-Cell Lymphomas**  
*Tove Olafsen, David Betting, Vania E. Kenanova, Felix B. Salazar, Pat Clarke, Jonathan Said, Andrew A. Raubitschek, John M. Timmerman, and Anna M. Wu*
- 1509** **In Vivo Characterization of a Series of  $^{18}\text{F}$ -Diaryl Sulfides ( $^{18}\text{F}$ -2-(2'-((Dimethylamino)Methyl)-4'-(Fluoroalkoxy)Phenylthio)Benzenamine) for PET Imaging of the Serotonin Transporter**  
*Julie L. Wang, Ajit K. Parhi, Shunichi Oya, Brian Lieberman, and Hank F. Kung*
- 1518** **Whole-Body Dosimetry for Individualized Treatment Planning of  $^{131}\text{I}$ -MIBG Radionuclide Therapy for Neuroblastoma**  
*Susan E. Buckley, Sarah J. Chittenden, Frank H. Saran, Simon T. Meller, and Glenn D. Flux*
- 1525** **Evaluation of the Role of Hexokinase Type II in Cellular Proliferation and Apoptosis Using Human Hepatocellular Carcinoma Cell Lines**  
*Keun Jae Ahn, Hee Sung Hwang, Jeon Han Park, Seong Hye Bang, Won Jun Kang, Mijin Yun, and Jong Doo Lee*
- 1533**  **$^{18}\text{F}$ -FDG PET SUVmax Correlates with Osteosarcoma Histologic Response to Neoadjuvant Chemotherapy: Preclinical Evaluation in an Orthotopic Rat Model**  
*Aurélie Dutour, Anne-Valérie Decouvelaere, Jacques Monteil, Marie-Eve Duclos, Olivier Roualdes, Raphaël Rousseau, and Perrine Marec-Bérard*

- 1541** **First Preclinical Imaging of Primary Cartilage Neoplasm and Its Local Recurrence Using  $^{99\text{m}}\text{Tc}$ -NTP 15-5 Radiotracer**  
*Elisabeth Miot-Noirault, François Gouin, Aurélien Vidal, Maryse Rapp, Jean Maublant, Serge Askienazy, Jean-Michel Chezal, Dominique Heymann, Françoise Redini, and Nicole Moins*
- 1548** **Combination of Converging Collimators for High-Sensitivity Brain SPECT**  
*Ruben Ter-Antonyan, Ronald J. Jaszczak, Kim L. Greer, James E. Bowsher, Scott D. Metzler, and R. Edward Coleman*

## DEPARTMENTS

- 1393** Errata
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## UPCOMING EDUCATION ARTICLES

**$^{18}\text{F}$ -FDG PET/CT for Image-Guided and Intensity-Modulated Radiotherapy**  
*Eric C. Ford, Joseph Herman, Ellen Yorke, and Richard L. Wahl*

For CE credit, you can access Continuing Education Activities through the SNM Web site ([http://www.snm.org/ce\\_online](http://www.snm.org/ce_online))