

SNMMI NEWSLINE

- 9N** 2014 SNMMI Highlights Lecture: Neuroscience
Nicolaas I. Bohnen
- 15N** A New Focus on Women in Nuclear Medicine
Leonie Gordon
- 16N** 2014 Aebersold Award Presented to Barrett
- 16N** Charkes Receives 2014 de Hevesy Award
- 17N** NRC Seeks Public Comment on 2 Sets of Regulations
- 18N** SNMMI 2014 Annual Meeting
- 19N** FDA Details Expectations for Drug Compounders
- 20N** SNMMI Leadership Update: Advancing the Profession and Meeting Member Needs
Peter Herscovitch

EDITORIAL

- 1395** Ventilation–Perfusion Lung Scanning: Stuck in a Rut?
Michael M. Graham

FOCUS ON MOLECULAR IMAGING

- 1397** Molecular Imaging Insights into Neurodegeneration: Focus on α -Synuclein Radiotracers
Maliha Shah, John Seibyl, Anna Cartier, Ram Bhatt, and Ana M. Catafau

INVITED PERSPECTIVE

- 1401** Is Radiocholine PET/CT Already Clinically Useful in Patients with Prostate Cancer?
Luigi Mansi, Vincenzo Cuccurullo, and Laura Evangelista

CLINICAL INVESTIGATIONS

- 1404** The Efficacy of Hepatic ^{90}Y Resin Radioembolization for Metastatic Neuroendocrine Tumors: A Meta-Analysis
Zlatko Devcic, Jarrett Rosenberg, Arthur J.A. Braat, Tust Techasith, Arjun Banerjee, Daniel Y. Sze, and Marnix G.E.H. Lam
- 1411** Head and Neck PET/CT: Therapy Response Interpretation Criteria (Hopkins Criteria)—Interreader Reliability, Accuracy, and Survival Outcomes
Charles Marcus, Anthony Ciarallo, Abdel K. Tahari, Esther Mena, Wayne Koch, Richard L. Wahl, Ana P. Kiess, Hyunseok Kang, and Rathan M. Subramaniam

- 1417** Assessment of Simplified Methods to Measure ^{18}F -FLT Uptake Changes in EGFR-Mutated Non-Small Cell Lung Cancer Patients Undergoing EGFR Tyrosine Kinase Inhibitor Treatment
Virginie Frings, Maqsood Yaqub, Lieke L. Hoyng, Sandeep S.V. Golla, Albert D. Windhorst, Robert C. Schuit, Adriaan A. Lammertsma, Otto S. Hoekstra, Egbert F. Smit, and Ronald Boellaard

- 1424** Early Biochemical Relapse After Radical Prostatectomy: Which Prostate Cancer Patients May Benefit from a Restaging ^{11}C -Choline PET/CT Scan Before Salvage Radiation Therapy?
Paolo Castellucci, Francesco Ceci, Tiziano Graziani, Riccardo Schiavina, Eugenio Brunocilla, Renzo Mazzarotto, Cinzia Pettinato, Monica Celli, Filippo Lodi, and Stefano Fanti

- 1430** Comparison of Image Quality, Myocardial Perfusion, and Left Ventricular Function Between Standard Imaging and Single-Injection Ultra-Low-Dose Imaging Using a High-Efficiency SPECT Camera: The MILLISIEVERT Study
Andrew J. Einstein, Ron Blankstein, Howard Andrews, Mathews Fish, Richard Padgett, Sean W. Hayes, John D. Friedman, Mehreen Qureshi, Harivony Rakotoarivelo, Piotr Slomka, Ryo Nakazato, Sabahat Bokhari, Marcello Di Carli, and Daniel S. Berman

- 1438** Absolute Quantitation of Myocardial Blood Flow in Human Subjects With or Without Myocardial Ischemia Using Dynamic Flurpiridaz F 18 PET
René R.S. Packard, Sung-Cheng Huang, Magnus Dahlbom, Johannes Czernin, and Jamshid Maddahi

- 1445** Biodistribution and Radiation Dosimetry of LMI1195: First-in-Human Study of a Novel ^{18}F -Labeled Tracer for Imaging Myocardial Innervation
Albert J. Sinusas, Joel Lazewatsky, Jacqueline Brunetti, Gary Heller, Ajay Srivastava, Yi-Hwa Liu, Richard Sparks, Andrey Pureskiy, Shu-fei Lin, Paul Crane, Richard E. Carson, and L. Veronica Lee

- 1452** The Impact of Image Reconstruction Bias on PET/CT ^{90}Y Dosimetry After Radioembolization
Katie N. Tapp, William B. Lea, Matthew S. Johnson, Mark Tann, James W. Fletcher, and Gary D. Hutchins

- 1459** Fetal and Maternal Absorbed Dose Estimates for Positron-Emitting Molecular Imaging Probes
Tianwu Xie and Habib Zaidi

- 1467** In Vivo Evaluation of Angiogenic Activity and Its Correlation with Efficacy of Indirect Revascularization Surgery in Pediatric Moyamoya Disease
Yong-il Kim, Ji Hoon Phi, Jin Chul Paeng, Hongyoon Choi, Seung-Ki Kim, Yun-Sang Lee, Keon Wook Kang, Ji Yeoun Lee, Jae Min Jeong, June-Key Chung, Dong Soo Lee, and Kyu-Chang Wang

- 1473** ^{18}F -FDG PET and MR Imaging Associations Across a Spectrum of Pediatric Brain Tumors: A Report from the Pediatric Brain Tumor Consortium
Katherine Zukotynski, Frederic Fahey, Mehmet Kocak, Larry Kun, James Boyett, Maryam Fouladi, Sridhar Vajapeyam, Ted Treves, and Tina Y. Poussaint

- 1481** Optimum Lean Body Formulation for Correction of Standardized Uptake Value in PET Imaging
Abdel K. Tahari, David Chien, Javad R. Azadi, and Richard L. Wahl

CONTINUING EDUCATION

- 1485** **Radioiodine Therapy for Thyroid Cancer in the Era of Risk Stratification and Alternative Targeted Therapies**
Daniel A. Pryma and Susan J. Mandel

BASIC SCIENCE INVESTIGATIONS

- 1492** **Efficient 1-Step Radiolabeling of Monoclonal Antibodies to High Specific Activity with ^{225}Ac for α -Particle Radioimmunotherapy of Cancer**
William F. Maguire, Michael R. McDevitt, Peter M. Smith-Jones, and David A. Scheinberg
- 1499** **Preclinical Evaluation of a High-Affinity ^{18}F -Trifluoroborate Octreotate Derivative for Somatostatin Receptor Imaging**
Zhibo Liu, Maral Pourghasian, François Bénard, Jinhe Pan, Kuo-Shyan Lin, and David M. Perrin
- 1506** **Preclinical Evaluation of 3- ^{18}F -Fluoro-2,2-Dimethylpropionic Acid as an Imaging Agent for Tumor Detection**
Timothy H. Witney, Federica Pisaneschi, Israt S. Alam, Sebastian Trousil, Maciej Kaliszczak, Frazer Twyman, Diana Brickute, Quang-Dé Nguyen, Zachary Schug, Eyal Gottlieb, and Eric O. Aboagye
- 1513** **Discovery and Development of ^{11}C -Lu AE92686 as a Radioligand for PET Imaging of Phosphodiesterase10A in the Brain**
Jan Kehler, John Paul Kilburn, Sergio Estrada, Søren Rahn Christensen, Anders Wall, Alf Thibblin, Mark Lubberink, Christoffer Bundgaard, Lise Tøttrup Brennum, Björn Steiniger-Brach, Claus Tornby Christoffersen, Stine Timmermann, Mads Kreilgaard, Gunnar Antoni, Benny Bang-Andersen, and Jacob Nielsen
- 1519** **SPECT- and Fluorescence Image-Guided Surgery Using a Dual-Labeled Carcinoembryonic Antigen-Targeting Antibody**
Mark Rijpkema, Wim J. Oyen, Desiree Bos, Gerben M. Franssen, David M. Goldenberg, and Otto C. Boerman
- 1525** **A Tyrosine Kinase Inhibitor-Based High-Affinity PET Radiopharmaceutical Targets Vascular Endothelial Growth Factor Receptor**
Feng Li, Sheng Jiang, Youli Zu, Daniel Y. Lee, and Zheng Li
- 1532** **Radiosynthesis, Photoisomerization, Biodistribution, and Metabolite Analysis of ^{11}C -PBB3 as a Clinically Useful PET Probe for Imaging of Tau Pathology**
Hiroki Hashimoto, Kazunori Kawamura, Nobuyuki Igarashi, Makoto Takei, Tomoya Fujishiro, Yoshiharu Aihara, Satoshi Shiomi, Masatoshi Muto, Takehito Ito, Kenji Furutsuka, Tomoteru Yamasaki, Joji Yui, Lin Xie, Maiko Ono, Akiko Hatori, Kazuyoshi Nemoto, Tetsuya Suhara, Makoto Higuchi, and Ming-Rong Zhang

- 1539** **Improved Modeling of In Vivo Kinetics of Slowly Diffusing Radiotracers for Tumor Imaging**
Moses Q. Wilks, Scott M. Knowles, Anna M. Wu, and Sung-Cheng Huang

- 1545** **PET/MR Imaging and Optical Imaging of Metastatic Rhabdomyosarcoma in Mice**
Sorin Armeanu-Ebinger, Christoph M. Griessinger, Delia Herrmann, Jörg Fuchs, Manfred Kneilling, Bernd J. Pichler, and Guido Seitz

- 1552** **Preclinical Evaluation of Robotic-Assisted Sentinel Lymph Node Fluorescence Imaging**
Michael A. Liss, Salman Farshchi-Heydari, Zhengtao Qin, Sean A. Hickey, David J. Hall, Christopher J. Kane, and David R. Vera

SPECIAL CONTRIBUTION

- 1557** **MIRD Pamphlet No. 25: MIRDcell V2.0 Software Tool for Dosimetric Analysis of Biologic Response of Multicellular Populations**
Behrooz Vaziri, Han Wu, Atam P. Dhawan, Peicheng Du, and Roger W. Howell

DEPARTMENTS

- 1565** **Book Review**
- 8A** **This Month in JNM**

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UPCOMING EDUCATION ARTICLE

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

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