

SNMMI NEWSLINE

- 13N** 2015 SNMMI Highlights Lecture: Neurosciences
Nicolaas I. Bohnen
- 21N** ABNM FAQs on Proposed Merger, Dissolution of ABNM
- 24N** SNMMI Leadership Update: SNMMI Mid-Winter Meeting Warms Up in Orlando
Virginia Pappas

FOCUS ON MOLECULAR IMAGING

- 1469** Nanoparticles for Cardiovascular Imaging and Therapeutic Delivery, Part 1: Compositions and Features
John C. Stendahl and Albert J. Sinusas

INVITED PERSPECTIVES

- 1476** ¹⁸F-Fluoride PET in the Assessment of Malignant Bone Disease
Andrei Iagaru
- 1478** Promising New ¹⁸F-Labeled Tracers for PET Myocardial Perfusion Imaging
Richard C. Brunken

CLINICAL INVESTIGATIONS

- 1480** Administration of Radioactive Iodine Therapy Within 1 Year After Total Thyroidectomy Does Not Affect Vocal Function
Chang Hwan Ryu, Junsun Ryu, Youn Mi Ryu, You Jin Lee, Eun-Kyung Lee, Seok-Ki Kim, Tae-Sung Kim, Tae Hyun Kim, Chang Yoon Lee, Seog Yun Park, Ki Wook Chung, and Yuh-S. Jung
- 1487** Clinical Relevance of Targeting the Gastrin-Releasing Peptide Receptor, Somatostatin Receptor 2, or Chemokine C-X-C Motif Receptor 4 in Breast Cancer for Imaging and Therapy
Simone U. Dalm, Anieta M. Sieuwerts, Maxime P. Look, Marleen Melis, Carolien H.M. van Deurzen, John A. Foekens, Marion de Jong, and John W.M. Martens
- 1494** Relationship Between ¹⁸F-FDG Uptake on PET and Recurrence Patterns After Curative Surgical Resection in Patients with Advanced Gastric Cancer
Jeong Won Lee, Kwanhyeong Jo, Arthur Cho, Sung Hoon Noh, Jong Doo Lee, and Mijin Yun

- 1501** Time Evolution of DOTATOC Uptake in Neuroendocrine Tumors in View of a Possible Application of Radioguided Surgery with β^- Decay

Francesco Collamati, Fabio Bellini, Valerio Bocci, Erika De Lucia, Valentina Ferri, Federica Fioroni, Elisa Grassi, Mauro Iori, Michela Marafini, Silvio Morganti, Riccardo Paramatti, Vincenzo Patera, Luigi Recchia, Andrea Russomando, Alessio Sarti, Adalberto Sciubba, Martina Senzacqua, Elena Solfaroli Camillocci, Annibale Versari, Cecilia Voena, and Riccardo Faccini

- 1507** Determination of Skeletal Tumor Burden on ¹⁸F-Fluoride PET/CT

Eric M. Rohren, Elba C. Etchebehere, John C. Araujo, Brian P. Hobbs, Nancy M. Swanston, Michael Everding, Tracy Moody, and Homer A. Macapinlac

- 1513** Clinical Efficacy and Safety Comparison of ¹⁷⁷Lu-EDTMP with ¹⁵³Sm-EDTMP on an Equidose Basis in Patients with Painful Skeletal Metastases
Pradeep Thapa, Dilip Nikam, Tapas Das, Geeta Sonawane, Jai Prakash Agarwal, and Sandip Basu

- 1520** Quantification, Variability, and Reproducibility of Basal Skeletal Muscle Glucose Uptake in Healthy Humans Using ¹⁸F-FDG PET/CT

Olivier Gheysens, Andrey Postnov, Christophe M. Deroose, Corinne Vandermeulen, Jan de Hoon, Ruben Declercq, Justin Dennie, Lori Mixson, Inge De Lepeleire, Koen Van Laere, Michael Klimas, and Manu V. Chakravarthy

- 1527** High Concordance Between Mental Stress-Induced and Adenosine-Induced Myocardial Ischemia Assessed Using SPECT in Heart Failure Patients: Hemodynamic and Biomarker Correlates

Andrew J. Wawrzyniak, Vasken Dilsizian, David S. Krantz, Kristie M. Harris, Mark F. Smith, Anthony Shankovich, Kerry S. Whittaker, Gabriel A. Rodriguez, John Gottdiener, Shuying Li, Willem Kop, and Stephen S. Gottlieb

- 1534** Impact of Personal Characteristics and Technical Factors on Quantification of Sodium ¹⁸F-Fluoride Uptake in Human Arteries: Prospective Evaluation of Healthy Subjects

Björn Alexander Blomberg, Anders Thomassen, Pim A. de Jong, Jane A. Simonsen, Marnix G.E.H. Lam, Anne L. Nielsen, Hans Mickley, Willem P.T.M. Mali, Abass Alavi, and Poul F. Højlund-Carlson

- 1541** ¹⁸F-FDG PET Is an Early Predictor of Overall Survival in Suspected Atypical Parkinsonism

Sabine Hellwig, Lars Frings, Florian Amtage, Ralph Buchert, Timo S. Spehl, Michel Rijntjes, Oliver Tüscher, Cornelius Weiller, Wolfgang A. Weber, Werner Vach, and Philipp T. Meyer

- 1547** ¹⁸F-FDG PET Improves Diagnosis in Patients with Focal-Onset Dementias

Carl Taswell, Victor L. Villemagne, Paul Yates, Hitoshi Shimada, Cristian E. Leyton, Kirrie J. Ballard, Olivier Piguet, James R. Burrell, John R. Hodges, and Christopher C. Rowe

CONTINUING EDUCATION

- 1554** Multimodality Brain Tumor Imaging: MR Imaging, PET, and PET/MR Imaging

James R. Fink, Mark Muzi, Melinda Peck, and Kenneth A. Krohn

BASIC SCIENCE INVESTIGATIONS

- 1562 Estimation of Tumor Volumes by ^{11}C -MeAIB and ^{18}F -FDG PET in an Orthotopic Glioblastoma Rat Model**
Bo Halle, Helge Thisgaard, Svend Hvidsten, Johan H. Dam, Charlotte Aaberg-Jessen, Anne S. Thykjær, Poul F. Højlund-Carlson, Mette K. Schulz, Claus Andersen, and Bjarne W. Kristensen
- 1569 Development of ^{68}Ga - and ^{89}Zr -Labeled Exendin-4 as Potential Radiotracers for the Imaging of Insulinomas by PET**
Andreas Bauman, Ibai E. Valverde, Christiane A. Fischer, Sandra Vomstein, and Thomas L. Mindt
- 1575 In Vivo Imaging of Natural Killer Cell Trafficking in Tumors**
Filippo Galli, Anna Serafina Rapisarda, Helena Stabile, Gaurav Malviya, Isabella Manni, Elena Bonanno, Giulia Piaggio, Angela Gismondi, Angela Santoni, and Alberto Signore
- 1581 Comparison of ^{18}F -Labeled Fluoroalkylphosphonium Cations with ^{13}N - NH_3 for PET Myocardial Perfusion Imaging**
Dong-Yeon Kim, Hyeon Sik Kim, Sybille Reder, Jin Hai Zheng, Michael Herz, Takahiro Higuchi, AYoung Pyo, Hee-Seung Bom, Markus Schwaiger, and Jung-Joon Min
- 1587 Multimodal Molecular Imaging Reveals High Target Uptake and Specificity of ^{111}In - and ^{68}Ga -Labeled Fibrin-Binding Probes for Thrombus Detection in Rats**
Bruno L. Oliveira, Francesco Blasi, Tyson A. Rietz, Nicholas J. Rotile, Helen Day, and Peter Caravan
- 1593 Quantification of β -Amyloidosis and rCBF with Dedicated PET, 7 T MR Imaging, and High-Resolution Microscopic MR Imaging at 16.4 T in APP23 Mice**
Florian C. Maier, Marianne D. Keller, Daniel Bukala, Benjamin Bender, Julia G. Mannheim, Ian M. Brereton, Graham J. Galloway, and Bernd J. Pichler
- 1600 Radioisotopic Purity of Sodium Pertechnetate $^{99\text{m}}\text{Tc}$ Produced with a Medium-Energy Cyclotron: Implications for Internal Radiation Dose, Image Quality, and Release Specifications**
Svetlana V. Selivanova, Éric Lavallée, Helena Senta, Lyne Caouette, Jayden A. Sader, Erik J. van Lier, Alexander Zyuzin, Johan E. van Lier, Brigitte Guérin, Éric Turcotte, and Roger Lecomte

- 1609 Clinical Translation of an Albumin-Binding PET Radiotracer ^{68}Ga -NEB**
Jingjing Zhang, Lixin Lang, Zhaohui Zhu, Fang Li, Gang Niu, and Xiaoyuan Chen
- 1615 Impact of Image-Derived Input Function and Fit Time Intervals on Patlak Quantification of Myocardial Glucose Uptake in Mice**
James T. Thackeray, Jens P. Bankstahl, and Frank M. Bengel
- 1622 New Approaches for Modeling Radiopharmaceutical Pharmacokinetics Using Continuous Distributions of Rates**
Igor Shuryak and Ekaterina Dadachova

SPECIAL CONTRIBUTIONS

- 1629 Current Status of Nuclear Medicine Practice in Latin America and the Caribbean**
Diana Páez, Pilar Orellana, Claudia Gutiérrez, Raúl Ramirez, Fernando Mut, and Leonel Torres

DEPARTMENTS

- 1635 Book Reviews**
- 1635 Letters to the Editor**
- 8A This Month in JNM**

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UPCOMING EDUCATION ARTICLE

Molecular Imaging to Plan Radiotherapy and Evaluate Its Efficacy

Robert Jeraj, Tyler Bradshaw, and Urban Simončič

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