

SNMMI NEWSLINE

- 7N** 2019 SNMMI Highlights Lecture: Cardiovascular Nuclear and Molecular Imaging
Mehran M. Sadeghi
- 13N** Grants, Awards, Scholarships Now Open for Application
- 14N** NRC Advisory Committee on Medical Uses of Isotopes Fall Meeting
Caitlin Kubler
- 15N** Commentary: Perseverating on Epidemiology and Linearity: A Journey into the Minds of LNT Model Advocates
Jeffrey A. Siegel, Bill Sacks, Charles W. Pennington, and Bennett S. Greenspan
- 17N** SNMMI Leadership Update: The State of SNMMI: Financially Strong and Positioned for Growth
Virginia Pappas
- 18N** From the Literature

EDITOR'S PAGE

- 1657** Of Sheep and Wolves: Curtailing Coverage for Essential Imaging Tests Based on Flawed Use and Cost Arguments
Johannes Czernin, Martin Allen-Auerbach, and Jeremie Calais

DISCUSSIONS WITH LEADERS

- 1659** A Conversation Between Stefano Buono and Ken Herrmann
Stefano Buono and Ken Herrmann

HOT TOPICS

- 1663** The Path to the Future: Education of Nuclear Medicine Therapeutic Specialists as Responsible Physicians
Lisa Bodei, Arturo Chiti, Irvin M. Modlin, Andrew M. Scott, and Heiko Schöder

THE STATE OF THE ART

- 1665** Molecular Imaging with Reporter Genes: Has Its Promise Been Delivered?
Inna Serganova and Ronald G. Blasberg

CONTINUING EDUCATION

- 1682** Long-Term Clinical and Neuronuclear Imaging Sequelae of Cancer Therapy, Trauma, and Brain Injury
April Alcantara, Gholam R. Berenji, Carole S. Scherling, Beata Durcanova, Daniel Diaz-Aguilar, and Daniel H.S. Silverman

FOCUS ON MOLECULAR IMAGING

- 1691** Targeting P-Selectin Adhesion Molecule in Molecular Imaging: P-Selectin Expression as a Valuable Imaging Biomarker of Inflammation in Cardiovascular Disease
Lydia A. Perkins, Carolyn J. Anderson, and Enrico M. Novelli

ONCOLOGY

Clinical

- 1698** Prospective Evaluation of a Tumor Control Probability Model Based on Dynamic ^{18}F -FMISO PET for Head and Neck Cancer Radiotherapy
Daniela Thorwarth, Stefan Welz, David Mönnich, Christina Pfannenber, Konstantin Nikolaou, Matthias Reimold, Christian La Fougère, Gerald Reischl, Paul-Stefan Mauz, Frank Paulsen, et al.
- 1705** ^{18}F -Choline PET/mpMRI for Detection of Clinically Significant Prostate Cancer: Part 2. Cost-Effectiveness Analysis
Christine L. Barnett, Matthew S. Davenport, Jeffrey S. Montgomery, Lakshmi Priya Kunju, Brian T. Denton, and Morand Piert
- 1713** ■ **BRIEF COMMUNICATION. No Added Value of ^{18}F -Sodium Fluoride PET/CT for the Detection of Bone Metastases in Patients with Newly Diagnosed Prostate Cancer with Normal Bone Scintigraphy**
Helle D. Zacho, Mads R. Jochumsen, Niels C. Langkilde, Jesper C. Mortensen, Christian Haarmark, Helle W. Hendel, Jørgen B. Jensen, and Lars J. Petersen

THERANOSTICS

Clinical

- 1717** A Prospective Observational Study to Evaluate the Effects of Long-Acting Somatostatin Analogs on ^{68}Ga -DOTATATE Uptake in Patients with Neuroendocrine Tumors
Anni Gålne, Helen Almquist, Martin Almquist, Cecilia Hindorf, Tomas Ohlsson, Erik Nordenström, Anna Sundlöv, and Elin Trägårdh
- 1724** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE. ^{68}Ga -Pentixafor PET/CT for Imaging of Chemokine Receptor 4 Expression in Waldenström Macroglobulinemia/Lymphoplasmacytic Lymphoma: Comparison to ^{18}F -FDG PET/CT**
Yaping Luo, Xinxin Cao, Qingqing Pan, Jian Li, Jun Feng, and Fang Li
- 1730** Simplified Methods for Quantification of ^{18}F -DCFPyL Uptake in Patients with Prostate Cancer
Bernard H.E. Jansen, Maqsood Yaqub, Jens Voortman, Matthijs C.F. Cysouw, Albert D. Windhorst, Robert C. Schuit, Gerbrand M. Kramer, Alfons J.M. van den Eertwegh, Lothar A. Schwarte, N. Harry Hendrikse, et al.
- 1736** Radiation Dosimetry and Biodistribution of ^{18}F -PSMA-11 for PET Imaging of Prostate Cancer
Sarah Piron, Kathia De Man, Nick Van Laeken, Yves D'Asseler, Klaus Bacher, Ken Kersemans, Piet Ost, Karel Decaestecker, Pieter Deseyne, Valérie Fonteyne, et al.

CARDIOLOGY

Basic

- 1743** ■ **FEATURED ARTICLE OF THE MONTH. Molecular Imaging of Fibroblast Activity After Myocardial Infarction Using a ^{68}Ga -Labeled Fibroblast Activation Protein Inhibitor, FAPI-04**
Zohreh Varasteh, Sarajo Mohanta, Stephanie Robu, Miriam Braeuer, Yuanfang Li, Negar Omidvari, Geoffrey Topping, Ting Sun, Stephan G. Nekolla, Antonia Richter, et al.

1750 Imaging of Chemotherapy-Induced Acute Cardiotoxicity with ¹⁸F-Labeled Lipophilic Cations

Stuart P. McCluskey, Anna Haslop, Christopher Coello, Roger N. Gunn, Edward W. Tate, Richard Southworth, Christophe Plisson, Nicholas J. Long, and Lisa A. Wells

NEUROLOGY

Clinical

1757 Presynaptic Striatal Dopaminergic Function in Atypical Parkinsonism: A Metaanalysis of Imaging Studies

Valtteri Kaasinen, Tuomas Kankare, Juho Joutsa, and Tero Vahlberg

1764 Limits for Reduction of Acquisition Time and Administered Activity in ¹⁸F-FDG PET Studies of Alzheimer Dementia and Frontotemporal Dementia

Florian Schiller, Lars Frings, Johannes Thurow, Philipp T. Meyer, and Michael Mix

1771 A Fully Automatic Technique for Precise Localization and Quantification of Amyloid- β PET Scans

Mouna Tahmi, Wassim Bou-Zeid, and Qolamreza R. Razlighi

Basic

1780 In Vivo Synaptic Density Imaging with ¹¹C-UCB-J Detects Treatment Effects of Saracatinib in a Mouse Model of Alzheimer Disease

Takuya Toyonaga, Levi M. Smith, Sjoerd J. Finnema, Jean-Dominique Gallezot, Mika Naganawa, Jason Bini, Tim Mulnix, Zhengxin Cai, Jim Ropchan, Yiyun Huang, et al.

1787 Longitudinal PET Monitoring of Amyloidosis and Microglial Activation in a Second-Generation Amyloid- β Mouse Model

Christian Sacher, Tanja Blume, Leonie Beyer, Finn Peters, Florian Eckenweber, Carmelo Sgobio, Maximilian Deussing, Nathalie L. Albert, Marcus Unterrainer, Simon Lindner, et al.

RADIOBIOLOGY/DOSIMETRY

Clinical

1794 Biodistribution and Dosimetry of Intraventricularly Administered ¹²⁴I-Omburtamab in Patients with Metastatic Leptomeningeal Tumors

Neeta Pandit-Taskar, Pat B. Zanzonico, Kim Kramer, Milan Grkovski, Edward K. Fung, Weiji Shi, Zhigang Zhang, Serge K. Lyashchenko, Alex M. Fung, Keith S. Pentlow, et al.

Basic

1802 PARaDIM: A PHITS-Based Monte Carlo Tool for Internal Dosimetry with Tetrahedral Mesh Computational Phantoms

Lukas M. Carter, Troy M. Crawford, Tatsuhiko Sato, Takuya Furuta, Chansoo Choi, Chan Hyeong Kim, Justin L. Brown, Wesley E. Bolch, Pat B. Zanzonico, and Jason S. Lewis

MOLECULAR IMAGING

Basic

1812 The Characterization of ¹⁸F-hGTS13 for Molecular Imaging of x_c⁻ Transporter Activity with PET

Corinne Beinat, Gayatri Gowrishankar, Bin Shen, Israt S. Alam, Elise Robinson, Tom Haywood, Chirag B. Patel, Emily Carmen Azevedo, Jessa B. Castillo, Ohad Ilovich, et al.

PHYSICS AND INSTRUMENTATION

Basic

1818 Performance Evaluation of a High-Resolution Nonhuman Primate PET/CT System

Zsolt Sarnyai, Kálmán Nagy, Gergely Patay, Milán Molnár, Göran Rosenqvist, Miklós Tóth, Akihiro Takano, Balázs Gulyás, Péter Major, Christer Halldin, et al.

Translational

1825 ■ FEATURED TRANSLATIONAL SCIENCE ARTICLE. ⁸⁹Zr-Immuno-PET: Toward a Noninvasive Clinical Tool to Measure Target Engagement of Therapeutic Antibodies In Vivo

Yvonne W.S. Jauw, Joseph A. O'Donoghue, Josée M. Zijlstra, Otto S. Hoekstra, C. Willemien Menke-van der Houven van Oordt, Franck Morschhauser, Jorge A. Carrasquillo, Sonja Zweegman, Neeta Pandit-Taskar, Adriaan A. Lammertsma, et al.

DEPARTMENTS

6A This Month in JNM

1833 Book Reviews

1834 Letters to the Editor

20A Recruitment