SNMMI NEWSLINE

9N NIH AD Summit 2018 Yields Research Recommendations

10N ORNL Advances 99Mo Production Technologies

11N Annual Report: Cancer Mortality Continues Decline

11N New Approvals for 131I-Labeled Tx in Pediatric Cancer

12N SNMMI Leadership Update: Trailblazing and Expanding Frontiers

13N Newsbriefs

16N From the Literature

THE STATE OF THE ART

1007 A Perspective on the Evolving Story of PSMA Biology, PSMA-Based Imaging, and Endoradiotherapeutic Strategies
Denise S. O’Keefe, Dean J. Bacich, Steve S. Huang, and Warren D.W. Heston

ISSUES AND CONTROVERSIES

1014 INVITED PERSPECTIVE. Radiation Dose Does Matter: Mechanistic Insights into DNA Damage and Repair Support the Linear No-Threshold Model of Low-Dose Radiation Health Risks
James R. Duncan, Michael R. Lieber, Noritaka Adachi, and Richard L. Wahl

1017 The BEIR VII Estimates of Low-Dose Radiation Health Risks Are Based on Faulty Assumptions and Data Analyses: A Call for Reassessment
Jeffry A. Siegel, Bennett S. Greenspan, Alan H. Maurer, Andrew T. Taylor, William T. Phillips, Douglas Van Nostrand, Bill Sacks, and Edward B. Silberstein

CONTINUING EDUCATION

1020 α-Emitters for Radiotherapy: From Basic Radiochemistry to Clinical Studies—Part 2
Sophie Poty, Lynn C. Francesconi, Michael R. McDevitt, Michael J. Morris, and Jason S. Lewis

FOCUS ON MOLECULAR IMAGING

1028 Additional Clinical Value for PET/MRI in Oncology: Moving Beyond Simple Diagnosis
Kenneth A. Miles, Stefan A. Voo, and Ashley M. Groves

EDITORIAL

1033 Predictive Factors of Response and Overall Survival in Patients with Castration-Resistant Metastatic Prostate Cancer Undergoing 177Lu-PSMA Therapy
Hojjat Ahmadzadehfar and Markus Essler

ONCOLOGY

Clinical

1035 Breast Cancer Blood Flow and Metabolism on Dual-Acquisition 18F-FDG PET: Correlation with Tumor Phenotype and Neoadjuvant Chemotherapy Response
Olivier Humbert, Maud Lasserre, Aurélie Bertaut, Pierre Fumoleau, Charles Coutant, François Brunotte, and Alexandre Cochet

1042 90Y Radioembolization for Locally Advanced Hepatocellular Carcinoma with Portal Vein Thrombosis: Long-Term Outcomes in a 185-Patient Cohort

1049 Does PET Reconstruction Method Affect Deauville Score in Lymphoma Patients?
Blandine Enilorac, Charline Lasnon, Cynthia Nganoa, Christophe Fruchart, Anne-Claire Gas, Gandhi Damaj, and Nicolas Aide

Basic

1056 Preclinical Evaluation of Mesothelin-Specific Ligands for SPECT Imaging of Triple-Negative Breast Cancer
Christopher Montemagno, Sandrine Bacot, Mitra Ahmadi, Brigitte Kerfelec, Daniel Baty, Marlene Debiossat, Audrey Soubies, Pascale Perret, Laurent Riou, Daniel Fagret, et al.

1063 Thymidine Metabolism as a Confounding Factor for 3’-Deoxy-3’-18F-Fluorothymidine Uptake After Therapy in a Colorectal Cancer Model

THERANOSTICS

Clinical

1070 EBONI: A Tool for Automated Quantification of Bone Metastasis Load in PSMA PET/CT
Jochen Hammes, Philipp Tager, and Alexander Drzezga

1076 Intraindividual Comparison of 18F-PSMA-1007 and 18F-DCFPyL PET/CT in the Prospective Evaluation of Patients with Newly Diagnosed Prostate Carcinoma: A Pilot Study
Frederik L. Giesel, Leon Will, Ismaheel Lawal, Thabo Lengana, Clemens Kratochwil, Mariza Vorster, Oliver Neels, Florette Reyneke, Uwe Haberkon, Klaus Kopka, et al.

1081 BRIEF COMMUNICATION. Effects of Fasting on 18F-DCFPyL Uptake in Prostate Cancer Lesions and Tissues with Known High Physiologic Uptake
Maurits Wondergem, Friso M. van der Zant, Peter W. Vlottes, and Remco J.J. Knol

1085 SPECIAL CONTRIBUTION. SSTR-RADS Version 1.0 as a Reporting System for SSTR PET Imaging and Selection of Potential PRRT Candidates: A Proposed Standardization Framework
FEATURED ARTICLE OF THE MONTH.
Radionuclide Therapy of HER2-Expressing Human Xenografts Using Affibody-Based Peptide Nucleic Acid-Mediated Pretargeting: In Vivo Proof of Principle
Kristina Westerlund, Mohamed Alaa, Bogdan Mitran, Mark Konijnenberg, Maryam Oroujeni, Christina Atterby, Marion de Jong, Anna Orlova, Johanna Mattsson, Patrick Micke, et al.

CARDIOLOGY

Impact of Novel Antidepressants on Cardiac 123I-Metaiodobenzylguanidine Uptake: Experimental Studies on SK-N-SH Cells and Healthy Rabbits
Rudolf A. Werner, Ryohei Kobayashi, Mehrbod Som Javadi, Zoe Kock, Hiroshi Wakabayashi, Stefan Unterecker, Kenichi Nakajima, Constantin Lapa, Andreas Menke, and Takahiro Higuchi

NEUROLOGY

Validation of Noninvasive Tracer Kinetic Analysis of 18F-Florbetaben PET Using a Dual-Time-Window Acquisition Protocol
Santiago Bullich, Henryk Barthel, Norman Koglin, Georg A. Becker, Susan De Santi, Aleksandar Jovalekic, Andrew W. Stephens, and Osama Sabri

Generation of Structural MR Images from Amyloid PET: Application to MR-Less Quantification
Hongyoon Choi and Dong Soo Lee, for the Alzheimer's Disease Neuroimaging Initiative

Modeling the Effects of Age and Sex on Normal Pediatric Brain Metabolism Using 18F-FDG PET/CT
Sophie Turpin, Patrick Martineau, Marc-André Levasseur, and Raymond Lambert

MUSCULOSKELETAL

FEATURED CLINICAL INVESTIGATION ARTICLE.
Translocator Protein as an Imaging Marker of Macrophage and Stromal Activation in Rheumatoid Arthritis Pannus

RADIOBIOLOGY/DOSIMETRY

Whole-Body Voxel-Based Personalized Dosimetry: The Multiple Voxel S-Value Approach for Heterogeneous Media with Nonuniform Activity Distributions
Min Sun Lee, Joong Hyun Kim, Jin Chul Paeng, Keon Wook Kang, Jae Min Jeong, Dong Soo Lee, and Jae Sung Lee

RADIOCHEMISTRY

Noninvasive Whole-Body Imaging of Phosphatidylethanolamine as a Cell Death Marker Using 99mTc-Duramycin During TNF-Induced SIRS
Tinneke Delvaeye, Leonie wyffels, Steven Deleye, Kelly Lemeire, Amanda Gonçalves, Elke Decrock, Steven Staelens, Luc Leybaert, Peter Vandenabeele, and Dmitri V. Krysko

In Vivo Characterization of Platinum(II)-Based Linker Technology for the Development of Antibody-Drug Conjugates: Taking Advantage of Dual Labeling with 195mPt and 89Zr
Joey A. Muns, Veronica Montserrat, Hendrik-Jan Houthoff, Karlijn Codée-van der Schilden, Oene Zwaagstra, Niels J. Sijbrandi, Eugen Merkul, and Gaus A.M.S. van Dongen

PHYSICS AND INSTRUMENTATION

Evaluation of Penalized-Likelihood Estimation Reconstruction on a Digital Time-of-Flight PET/CT Scanner for 18F-FDG Whole-Body Examinations
Elin Lindström, Anders Sundin, Carlos Trampal, Lars Lindsjö, Ezgi Ilan, Torsten Danfors, Gunnar Antoni, Jens Sörensen, and Mark Lubberink

Impact of the Arterial Input Function Recording Method on Kinetic Parameters in Small-Animal PET
Hanna Napieceynska, Armin Kolb, Prateek Katiyar, Matteo Tonietto, Minhaz Ud-Dean, Ramona Stumm, Kristina Herfert, Carsten Calaminus, and Bernd J. Pichler

DEPARTMENTS

This Month in JNM
Erratum
Letters to the Editor