

SNMMI NEWSLINE

- 9N In Memoriam: David E. Kuhl, MD 1929–2017**
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- 12N Nuclear Medicine Career Portal for Young Physicians**
Jay A. Harolds and George M. Segall
- 12N Nominations Open for 2 SNMMI Awards**
- 14N From the ABNM: Updates on MOC Part 3**
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- 15N SNMMI Leadership Update: Strategic Advocacy**
Bennett S. Greenspan
- 16N Newsbriefs**
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HOT TOPICS

- 1357 Is Tau Imaging More Than Just Upside-Down ¹⁸F-FDG Imaging?**
Thilo van Eimeren, Gérard N. Bischof, and Alexander Drzezga

CONTINUING EDUCATION

- 1360 Operational and Dosimetric Aspects of Pediatric PET/CT**
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FOCUS ON MOLECULAR IMAGING

- 1367 Functional Optical Imaging of Primary Human Tumor Organoids: Development of a Personalized Drug Screen**
Alex J. Walsh, Rebecca S. Cook, and Melissa C. Skala

ONCOLOGY

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- 1373 Diagnostic PET Imaging of Mammary Microcalcifications Using ⁶⁴Cu-DOTA-Alendronate in a Rat Model of Breast Cancer**
Bradley J. Ahrens, Lin Li, Alexandra K. Ciminera, Junie Chea, Erasmus Poku, James R. Bading, Michael R. Weist, Marcia M. Miller, David M. Colcher, and John E. Shively
- 1380 Brachytherapy with Intratumoral Injections of Radiometal-Labeled Polymers That Thermoresponsively Self-Aggregate in Tumor Tissues**
Kohei Sano, Yuko Kanada, Kengo Kanazaki, Ning Ding, Masahiro Ono, and Hideo Saji
- 1386 ⁸⁹Zr-DFO-AMG102 Immuno-PET to Determine Local Hepatocyte Growth Factor Protein Levels in Tumors for Enhanced Patient Selection**
Eric W. Price, Kathryn E. Carnazza, Sean D. Carlin, Andrew Cho, Kimberly J. Edwards, Kuntal K. Sevak, Jonathan M. Glaser, Elisa de Stanchina, Yelena Y. Janjigian, and Jason S. Lewis

1395 Cerenkov Radiation-Induced Photoimmunotherapy with ¹⁸F-FDG

Yuko Nakamura, Tadanobu Nagaya, Kazuhide Sato, Shuhei Okuyama, Fusa Ogata, Karen Wong, Stephen Adler, Peter L. Choyke, and Hisataka Kobayashi

Clinical

1401 Expression of Gastrin-Releasing Peptide Receptor in Breast Cancer and Its Association with Pathologic, Biologic, and Clinical Parameters: A Study of 1,432 Primary Tumors

Clément Morgat, Gaétan MacGrogan, Véronique Brouste, Valérie Vélasco, Nicolas Sévenet, Hervé Bonnefoi, Philippe Fernandez, Marc Debled, and Elif Hindié

1408 Phase 2 Study of ^{99m}Tc-Trofolastat SPECT/CT to Identify and Localize Prostate Cancer in Intermediate- and High-Risk Patients Undergoing Radical Prostatectomy and Extended Pelvic LN Dissection

Karolien E. Goffin, Steven Joniau, Peter Tenke, Kevin Slawin, Eric A. Klein, Nancy Stambler, Thomas Strack, John Babich, Thomas Armor, and Vivien Wong

1414 Role of ¹⁸F-FDG PET/CT in Posttreatment Evaluation of Anal Carcinoma

Clémence Houard, Jean-Baptiste Pinaquy, Charles Mesguich, Bénédicte Henriques de Figueiredo, Anne-Laure Cazeau, Jean-Baptiste Allard, Hortense Laharie, Laurence Bordenave, Philippe Fernandez, and Véronique Vendrely

1421 ■ FEATURED ARTICLE OF THE MONTH. Prediction of Response to Immune Checkpoint Inhibitor Therapy Using Early-Time-Point ¹⁸F-FDG PET/CT Imaging in Patients with Advanced Melanoma

Steve Y. Cho, Evan J. Lipson, Hyung-Jun Im, Steven P. Rowe, Esther Mena Gonzalez, Amanda Blackford, Alin Chirindel, Drew M. Pardoll, Suzanne L. Topalian, and Richard L. Wahl

1429 Quantitation of Cancer Treatment Response by ¹⁸F-FDG PET/CT: Multicenter Assessment of Measurement Variability

Joo Hyun O, Heather Jacene, Brandon Lubber, Hao Wang, Minh-Huy Huynh, Jeffrey P. Leal, and Richard L. Wahl

THERANOSTICS

Basic

1435 Biodistribution, Pharmacokinetics, and Dosimetry of ¹⁷⁷Lu-, ⁹⁰Y-, and ¹¹¹In-Labeled Somatostatin Receptor Antagonist OPS201 in Comparison to the Agonist ¹⁷⁷Lu-DOTATATE: The Mass Effect

Guillaume P. Nicolas, Rosalba Mansi, Lisa McDougall, Jens Kaufmann, Hakim Bouterfa, Damian Wild, and Melpomeni Fani

1442 ■ FEATURED BASIC SCIENCE ARTICLE. Dual-Target Binding Ligands with Modulated Pharmacokinetics for Endoradiotherapy of Prostate Cancer

James M. Kelly, Alejandro Amor-Coarasa, Anastasia Nikolopoulou, Till Wüstemann, Peter Barelli, Dohyun Kim, Clarence Williams Jr., Xiwei Zheng, Cong Bi, Bao Hu, et al.

Clinical

1450 ■ INVITED PERSPECTIVE. Improving Tools and Options for the Management of Patients with Neuroendocrine Tumors: A Patient Perspective

Josh Mailman

1452 ⁶⁸Ga-DOTATOC Imaging of Neuroendocrine Tumors: A Systematic Review and Metaanalysis

Michael M. Graham, Xiaomei Gu, Timothy Ginader, Patrick Breheny, and John J. Sunderland

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1459 Prognostic Value of Myocardial Perfusion Imaging with a Cadmium-Zinc-Telluride SPECT Camera in Patients Suspected of Having Coronary Artery Disease

Elsemieck M. Engbers, Jorik R. Timmer, Mohamed Mouden, Siert Knollema, Pieter L. Jager, and Jan Paul Ottervanger

NEUROLOGY

Translational

1464 Initial Evaluation of an Adenosine A_{2A} Receptor Ligand, ¹¹C-Preladenant, in Healthy Human Subjects

Muneyuki Sakata, Kenji Ishibashi, Masamichi Imai, Kei Wagatsuma, Kenji Ishii, Xiaoyun Zhou, Erik F.J. de Vries, Philip H. Elsinga, Kiichi Ishiwata, and Jun Toyohara

Clinical

1471 Cerebrospinal Fluid Clearance in Alzheimer Disease Measured with Dynamic PET

Mony J. de Leon, Yi Li, Nobuyuki Okamura, Wai H. Tsui, Les A. Saint-Louis, Lidia Glodzik, Ricardo S. Osorio, Juan Fortea, Tracy Butler, Elizabeth Pirraglia, et al.

1477 ¹¹C-PBR28 and ¹⁸F-PBR111 Detect White Matter Inflammatory Heterogeneity in Multiple Sclerosis

Gourab Datta, Alessandro Colasanti, Nicola Kalk, David Owen, Gregory Scott, Eugenii A. Rabiner, Roger N. Gunn, Anne Lingford-Hughes, Omar Malik, Olga Ciccarelli, et al.

1483 Validation of the Semiquantitative Static SUVR Method for ¹⁸F-AV45 PET by Pharmacokinetic Modeling with an Arterial Input Function

Julie Ottoy, Jeroen Verhaeghe, Ellis Niemantsverdriet, Leonie Wyffels, Charisse Somers, Ellen De Roeck, Hanne Struyfs, Femke Soetewey, Steven Deleye, Tobi Van den Bossche, et al.

1490 Alteration of Monoamine Receptor Activity and Glucose Metabolism in Pediatric Patients with Anticonvulsant-Induced Cognitive Impairment

Yuankai Zhu, Jianhua Feng, Jianfeng Ji, Haifeng Hou, Lin Chen, Shuang Wu, Qing Liu, Qiong Yao, Peizhen Du, Kai Zhang, et al.

RADIATION BIOLOGY

1498 Biodistribution and Radiation Dosimetry for the Tau Tracer ¹⁸F-THK-5351 in Healthy Human Subjects

Ing-Tsung Hsiao, Kun-Ju Lin, Kuo-Lun Huang, Chin-Chang Huang, Han-Shiuan Chen, Shiao-Pyng Wey, Tzu-Chen Yen, Nobuyuki Okamura, and Jung-Lung Hsu

INFLAMMATION/INFECTIOUS DISEASE

1504 ¹⁸F-FDG PET/CT Optimizes Treatment in *Staphylococcus Aureus* Bacteremia and Is Associated with Reduced Mortality

Marvin A.H. Berrevoets, Ilse J.E. Kouijzer, Erik H.J.G. Aarntzen, Marcel J.R. Janssen, Lioe-Fee De Geus-Oei, Heiman F.L. Wertheim, Bart-Jan Kullberg, Jaap Ten Oever, Wim J.G. Oyen, and Chantal P. Bleeker-Rovers

PHYSICS/INSTRUMENTATION

1511 Studies of a Next-Generation Silicon-Photomultiplier-Based Time-of-Flight PET/CT System

David F.C. Hsu, Ezgi Ilan, William T. Peterson, Jorge Uribe, Mark Lubberink, and Craig S. Levin

1519 PET/MRI for Oncologic Brain Imaging: A Comparison of Standard MR-Based Attenuation Corrections with a Model-Based Approach for the Siemens mMR PET/MR System

Ivo Rausch, Lucas Rischka, Claes N. Ladefoged, Julia Furtner, Matthias Fenchel, Andreas Hahn, Rupert Lanzenberger, Marius E. Mayerhoefer, Tatjana Traub-Weidinger, and Thomas Beyer

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