

SNMMI NEWSLINE

9N 2014 Cassen Lecture: What Have We Learned from the National Oncologic PET Registry?

Barry A. Siegel

16N Commentary: Medical Imaging: The Challenges of Radiation Risk Assessment

Jeffrey A. Siegel and Michael G. Stabin

18N SNMMI Leadership Update: A Strong Foundation for the New Year and Beyond

Virginia Pappas

19N Newsbriefs

FOCUS ON MOLECULAR IMAGING

1919 Theranostic Nanoparticles

Feng Chen, Emily B. Ehlerding, and Weibo Cai

INVITED PERSPECTIVES

1923 The Customer Is Always Right, Even When You Are Justifiably Wrong

Rodney J. Hicks

CLINICAL INVESTIGATIONS

1925 Perceived Misinterpretation Rates in Oncologic ¹⁸F-FDG PET/CT Studies: A Survey of Referring Physicians

Dimitrios Karantanis, Dimitrios Kalkanis, Johannes Czernin, Ken Herrmann, Kelsey L. Pomykala, Trond V. Bogsrud, Rathan M. Subramaniam, Val J. Lowe, and Martin S. Allen-Auerbach

1930 Diagnostic Value of Diffusion-Weighted Imaging in Simultaneous ¹⁸F-FDG PET/MR Imaging for Whole-Body Staging of Women with Pelvic Malignancies

Johannes Grueneisen, Benedikt Michael Schaarschmidt, Karsten Beiderwellen, Antonia Schulze-Hagen, Martin Heubner, Sonja Kinner, Michael Forsting, Thomas Lauenstein, Verena Ruhlmann, and Lale Umutlu

1936 Prospective International Cohort Study Demonstrates Inability of Interim PET to Predict Treatment Failure in Diffuse Large B-Cell Lymphoma

Robert Carr, Stefano Fanti, Diana Paez, Juliano Cerci, Tamás Györke, Francisca Redondo, Tim P. Morris, Claudio Meneghetti, Chirayu Auewarakul, Reena Nair, Charity Gorospe, June-Key Chung, Isinsu Kuzu, Monica Celli, Sumeet Gujral, Rose Ann Padua, Maurizio Dondi, and the IAEA Lymphoma Study Group

1945 Folate Receptor- β Imaging Using ^{99m}Tc-Folate to Explore Distribution of Polarized Macrophage Populations in Human Atherosclerotic Plaque

Nynke A. Jager, Johanna Westra, Reza Golestani, Gooitzen M. van Dam, Philip S. Low, René A. Tio, Riemer H.J.A. Slart, Hendrikus H. Boersma, Marc Bijl, and Clark J. Zeebregts

1952 Comparison and Prognostic Validation of Multiple Methods of Quantification of Myocardial Blood Flow with ⁸²Rb PET

Venkatesh L. Murthy, Benjamin C. Lee, Arkadiusz Sitek, Masanao Naya, Jonathan Moody, Vivek Polavarapu, Edward P. Ficaro, and Marcelo F. Di Carli

1959 ¹⁸F-FDG PET and Perfusion SPECT in the Diagnosis of Alzheimer and Lewy Body Dementias

John T. O'Brien, Michael J. Firbank, Christopher Davison, Nicky Barnett, Claire Bamford, Cam Donaldson, Kirsty Olsen, Karl Herholz, David Williams, and Jim Lloyd

1966 In Vivo Quantification of Cerebral Translocator Protein Binding in Humans Using 6-Chloro-2-(4'-¹²³I-iodophenyl)-3-(N,N-Diethyl)-Imidazo[1,2-a]Pyridine-3-Acetamide SPECT

Ling Feng, Claus Svare, Gerda Thomsen, Robin de Nijs, Vibeke A. Larsen, Per Jensen, Dea Adamsen, Agnete Dyssegaard, Walter Fischer, Per Meden, Derk Krieger, Kirsten Møller, Gitte M. Knudsen, and Lars H. Pinborg

1973 First-in-Human Evaluation of ¹⁸F-Mefway, a PET Radioligand Specific to Serotonin-1A Receptors

Ansel T. Hillmer, Dustin W. Wooten, Alisha K. Bajwa, Andrew T. Higgins, Patrick J. Lao, Tobey J. Betthausen, Todd E. Barnhart, Howard A. Rowley, Charles K. Stone, Sterling C. Johnson, Jogeshwar Mukherjee, and Bradley T. Christian

1980 Respective Performance of ¹⁸F-FDG PET and Radiolabeled Leukocyte Scintigraphy for the Diagnosis of Prosthetic Valve Endocarditis

François Rouzet, Renata Chequer, Khadija Benali, Laurent Lepage, Walid Ghodbane, Xavier Duval, Bernard Jung, Alec Vahanian, Dominique Le Guludec, and Fabien Hyafil

1986 Anti-1-Amino-3-¹⁸F-Fluorocyclobutane-1-Carboxylic Acid: Physiologic Uptake Patterns, Incidental Findings, and Variants That May Simulate Disease

David M. Schuster, Cristina Nanni, Stefano Fanti, Shuntaro Oka, Hiroyuki Okudaira, Yusuke Inoue, Jens Sørensen, Rikard Owenius, Peter Choyke, Baris Turkbey, Trond V. Bogsrud, Tore Bach-Gansmo, Raghuvver K. Halkar, Jonathon A. Nye, Oluwaseun A. Odewole, Bital Savir-Baruch, and Mark M. Goodman

1993 Whole-Body Radiation Dosimetry of ¹¹C-Carbonyl-URB694: A PET Tracer for Fatty Acid Amide Hydrolase

Isabelle Boileau, Peter M. Bloomfield, Pablo Rusjan, Romina Mizrahi, Asfandyar Mufti, Irina Vitcu, Stephen J. Kish, Sylvain Houle, Alan A. Wilson, and Junchao Tong

1998 Using SUV as a Guide to ¹⁸F-FDG Dose Reduction

David W. Cheng, Devrim Ersahin, Lawrence H. Staib, Daniele Della Latta, Assuero Giorgetti, and Francesco d'Errico

CONTINUING EDUCATION

2003 Multimodality Imaging of Alzheimer Disease and Other Neurodegenerative Dementias

Ilya M. Nasrallah and David A. Wolk

BASIC SCIENCE INVESTIGATIONS

2012 The Advantage of Antibody Cocktails for Targeted Alpha Therapy Depends on Specific Activity

Jordan B. Pasternack, Jason D. Domogauer, Alisha Khullar, John M. Akudugu, and Roger W. Howell

2020 The Somatostatin Analog ¹⁸⁸Re-P2045 Inhibits the Growth of AR42J Pancreatic Tumor Xenografts

Carol A. Nelson, Michael T. Azure, Christopher T. Adams, and Kurt R. Zinn

2026 Imaging DNA Damage Allows Detection of Preneoplasia in the BALB-neuT Model of Breast Cancer

Bart Cornelissen, Sarah Able, Christiana Kartsonaki, Veerle Kersemans, P. Danny Allen, Federica Cavallo, Jean-Baptiste Cazier, Manuela Iezzi, James Knight, Ruth Muschel, Sean Smart, and Katherine A. Vallis

2032 Glypican-3-Targeting F(ab')₂ for ⁸⁹Zr PET of Hepatocellular Carcinoma

Jonathan G. Sham, Forrest M. Kievit, John R. Grierson, Peter A. Chiarelli, Robert S. Miyaoka, Miqin Zhang, Raymond S. Yeung, Satoshi Minoshima, and James O. Park

2038 Regulation of ¹⁸F-FDG Accumulation in Colorectal Cancer Cells with Mutated KRAS

Masayoshi Iwamoto, Kenji Kawada, Yuji Nakamoto, Yoshiro Itatani, Susumu Inamoto, Kosuke Toda, Hiroyuki Kimura, Takehiko Sasazuki, Senji Shirasawa, Hiroaki Okuyama, Masahiro Inoue, Suguru Hasegawa, Kaori Togashi, and Yoshiharu Sakai

2045 Annotating STEAP1 Regulation in Prostate Cancer with ⁸⁹Zr Immuno-PET

Michael G. Doran, Philip A. Watson, Sarah M. Cheal, Daniel E. Spratt, John Wongvipat, Jeffrey M. Steckler, Jorge A. Carrasquillo, Michael J. Evans, and Jason S. Lewis

2050 Preclinical Comparison of Al¹⁸F- and ⁶⁸Ga-Labeled Gastrin-Releasing Peptide Receptor Antagonists for PET Imaging of Prostate Cancer

Kristell L.S. Chatalic, Gerben M. Franssen, Wytse M. van Weerden, William J. McBride, Peter Laverman, Erik de Blois, Bouchra Hajjaj, Luc Brunel, David M. Goldenberg, Jean-Alain Fehrentz, Jean Martinez, Otto C. Boerman, and Marion de Jong

2057 Introduction of an 8-Aminooctanoic Acid Linker Enhances Uptake of ^{99m}Tc-Labeled Lactam Bridge-Cyclized α -MSH Peptide in Melanoma

Haixun Guo and Yubin Miao

2064 IQ SPECT Allows a Significant Reduction in Administered Dose and Acquisition Time for Myocardial Perfusion Imaging: Evidence from a Phantom Study

Federico Caobelli, Stefano Ren Kaiser, James T. Thackeray, Frank M. Bengel, Matteo Chierigato, Alberto Soffientini, Claudio Pizzocaro, Giordano Savelli, Marco Galelli, and Ugo Paolo Guerra

2071 PET Attenuation Correction Using Synthetic CT from Ultrashort Echo-Time MR Imaging

Snehashis Roy, Wen-Tung Wang, Aaron Carass, Jerry L. Prince, John A. Butman, and Dzung L. Pham

DEPARTMENTS

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UPCOMING EDUCATION ARTICLE

Update on Time-of-Flight PET Imaging

Suleman Surti

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