

SNMMI NEWSLINE

- 8N** 2016 SNMMI Highlights Lecture: Cardiovascular Nuclear Medicine
Nagara Tamaki
- 15N** 2016 Update of the North American Consensus Guidelines for Pediatric Administered Radiopharmaceutical Activities
S. Ted Treves, Michael J. Gelfand, Frederic H. Fahey, and Marguerite T. Parisi
- 18N** In Memoriam: Robert W. Frelick, MD, 1920–2016
- 19N** SNMMI Leadership Update: A Strong Springboard for the Future
Virginia Pappas

FOCUS ON MOLECULAR IMAGING

- 1833** Clinically Approved Nanoparticle Imaging Agents
Avnesh S. Thakor, Jesse V. Jokerst, Pejman Ghanouni, Jos L. Campbell, Erik Mittra, and Sanjiv S. Gambhir

INVITED PERSPECTIVES

- 1838** Targeted α -Based Treatment of Metastatic Castration-Resistant Prostate Cancer: Revolutionizing Systemic Radiotherapy?
Wim J.G. Oyen and Johann S. de Bono
- 1840** Quantitative Radionuclide Assessment of Cardiac Dyssynchrony: Breakthrough in Patient Selection for Cardiac Resynchronization Therapy for Refractory Heart Failure?
Erica O. Miller, Saurabh Malhotra, and Ronald G. Schwartz

CLINICAL INVESTIGATIONS

- 1843** The Predictive Value of Early Assessment After 1 Cycle of Induction Chemotherapy with ^{18}F -FDG PET/CT and Diffusion-Weighted MRI for Response to Radical Chemoradiotherapy in Head and Neck Squamous Cell Carcinoma
Kee H. Wong, Rafal Panek, Liam Welsh, Dualta Mcquaid, Alex Dunlop, Angela Riddell, Iain Murray, Yong Du, Sue Chua, Dow-Mu Koh, Shreerang Bhide, Chris Nutting, Wim J.G. Oyen, Kevin Harrington, and Kate L. Newbold
- 1851** Prognostic Value of ^{18}F -FLT PET in Patients with Neuroendocrine Neoplasms: A Prospective Head-to-Head Comparison with ^{18}F -FDG PET and Ki-67 in 100 Patients
Camilla B. Johnbeck, Ulrich Knigge, Seppo W. Langer, Annika Loft, Anne Kiil Berthelsen, Birgitte Federspiel, Tina Binderup, and Andreas Kjaer

- 1858** First-in-Human Imaging with ^{89}Zr -Df-IAB2M Anti-PSMA Minibody in Patients with Metastatic Prostate Cancer: Pharmacokinetics, Biodistribution, Dosimetry, and Lesion Uptake
Neeta Pandit-Taskar, Joseph A. O'Donoghue, Shutian Ruan, Serge K. Lyashchenko, Jorge A. Carrasquillo, Glenn Heller, Danny F. Martinez, Sarah M. Cheal, Jason S. Lewis, Martin Fleisher, Jennifer S. Keppler, Robert E. Reiter, Anna M. Wu, Wolfgang A. Weber, Howard I. Scher, Steven M. Larson, and Michael J. Morris
- 1865** A Preanalytic Validation Study of Automated Bone Scan Index: Effect on Accuracy and Reproducibility Due to the Procedural Variabilities in Bone Scan Image Acquisition
Aseem Anand, Michael J. Morris, Reza Kaboteh, Mariana Reza, Elin Trägårdh, Naofumi Matsunaga, Lars Edenbrandt, Anders Bjartell, Steven M. Larson, and David Minarik
- 1872** Repeatability of Quantitative ^{18}F -NaF PET: A Multicenter Study
Christie Lin, Tyler Bradshaw, Timothy Perk, Stephanie Harmon, Jens Eickhoff, Ngoneh Jallow, Peter L. Choyke, William L. Dahut, Steven Larson, John Laurence Humm, Scott Perlman, Andrea B. Apolo, Michael J. Morris, Glenn Liu, and Robert Jeraj
- 1880** Utility of Equilibrium Radionuclide Angiogram-Derived Measures of Dyssynchrony to Predict Outcomes in Heart Failure Patients Undergoing Cardiac Resynchronization Therapy
Nitish Badhwar, Jameze James, Kurt S. Hoffmayer, John W. O'Connell, Deanna Green, Teresa De Marco, and Elias H. Botvinick
- 1887** Absolute Myocardial Blood Flow and Flow Reserve Assessed by Gated SPECT with Cadmium-Zinc-Telluride Detectors Using $^{99\text{m}}\text{Tc}$ -Tetrofosmin: Head-to-Head Comparison with ^{13}N -Ammonia PET
Rene Nkoulou, Tobias A. Fuchs, Aju P. Pazhenkottil, Silke M. Kuest, Jelena R. Ghadri, Julia Stehli, Michael Fiechter, Bernhard A. Herzog, Oliver Gaemperli, Ronny R. Buechel, and Philipp A. Kaufmann
- 1893** Diagnostic Performance of Attenuation-Corrected Myocardial Perfusion Imaging for Coronary Artery Disease: A Systematic Review and Meta-Analysis
Jei-Yie Huang, Chun-Kai Huang, Ruoh-Fang Yen, Hon-Yen Wu, Yu-Kang Tu, Mei-Fang Cheng, Ching-Chu Lu, Kai-Yuan Tzen, Kuo-Liong Chien, and Yen-Wen Wu
- 1899** ^{18}F -FDG Uptake in Less Affected Lung Field Provides Prognostic Stratification in Patients with Interstitial Lung Disease
Tomomi Nobashi, Takeshi Kubo, Yuji Nakamoto, Tomohiro Handa, Sho Koyasu, Takayoshi Ishimori, Michiaki Mishima, and Kaori Togashi
- 1905** Evidence of Brain Inflammation in Patients with Human T-Lymphotropic Virus Type 1-Associated Myelopathy (HAM): A Pilot, Multimodal Imaging Study Using ^{11}C -PBR28 PET, MR T1-Weighted, and Diffusion-Weighted Imaging
Rahul Dimber, Qi Guo, Courtney Bishop, Adine Adonis, Aisling Buckley, Agnes Kocsis, David Owen, Nicola Kalk, Rexford Newbould, Roger N. Gunn, Eugenii A. Rabiner, and Graham P. Taylor
- 1913** Nuclear Imaging for Classic Fever of Unknown Origin: Meta-Analysis
Motoki Takeuchi, Issa J. Dahabreh, Takashi Nihashi, Mitsunaga Iwata, George M. Varghese, and Teruhiko Terasawa

1920 **In Vivo Imaging of Human ^{11}C -Metformin in Peripheral Organs: Dosimetry, Biodistribution, and Kinetic Analyses**
Lars C. Gormsen, Elias Immanuel Sundelin, Jonas Brorson Jensen, Mikkel Holm Vendelbo, Steen Jakobsen, Ole Lajord Munk, Mette Marie Hougaard Christensen, Kim Brøsen, Jørgen Frøkiær, and Niels Jessen

1927 **Clinical Evaluation of Zero-Echo-Time Attenuation Correction for Brain ^{18}F -FDG PET/MRI: Comparison with Atlas Attenuation Correction**
Tetsuro Sekine, Edwin E.G.W. ter Voert, Geoffrey Warnock, Alfred Buck, Martin Huellner, Patrick Veit-Haibach, and Gaspar Delso

1933 **Quantification of Task-Specific Glucose Metabolism with Constant Infusion of ^{18}F -FDG**
Andreas Hahn, Gregor Gryglewski, Lukas Nics, Marius Hienert, Lucas Rischka, Chrysoula Vraka, Helen Sigurdardottir, Thomas Vanicek, Gregory M. James, René Seiger, Alexander Kautzky, Leo Silberbauer, Wolfgang Wadsak, Markus Mitterhauser, Marcus Hacker, Siegfried Kasper, and Rupert Lanzenberger

BRIEF COMMUNICATIONS

1941 **^{225}Ac -PSMA-617 for PSMA-Targeted α -Radiation Therapy of Metastatic Castration-Resistant Prostate Cancer**
Clemens Kratochwil, Frank Bruchertseifer, Frederik L. Giesel, Mirjam Weis, Frederik A. Verburg, Felix Mottaghy, Klaus Kopka, Christos Apostolidis, Uwe Haberkorn, and Alfred Morgenstern

1945 **The 5-HT_{1A} Receptor PET Radioligand ^{11}C -CUMI-101 Has Significant Binding to α_1 -Adrenoceptors in Human Cerebellum, Limiting Its Use as a Reference Region**
Stal S. Shrestha, Jeh-San Liow, Kimberly Jenko, Masamichi Ikawa, Sami S. Zoghbi, and Robert B. Innis

CONTINUING EDUCATION

1949 **Molecular Imaging of Gastroenteropancreatic Neuroendocrine Tumors: Current Status and Future Directions**
Christophe M. Deroose, Elif Hindié, Electron Kebebew, Bernard Goichot, Karel Pacak, David Täieb, and Alessio Imperiale

BASIC SCIENCE INVESTIGATIONS

1957 **How Sensitive Is the Upper Gastrointestinal Tract to ^{90}Y Radioembolization? A Histologic and Dosimetric Analysis in a Porcine Model**
Alexander S. Pasciak, Laurentia Nodit, Austin C. Bourgeois, Ben E. Paxton, Patricia N. Coan, Christopher T. Clark, M. Katherine Tolbert, Joleen K. Adams, Aravind Arepally, and Yong C. Bradley

1964 **Counting Rate Characteristics and Image Distortion in Preclinical PET Imaging During Radiopharmaceutical Therapy**
Emma Melhammar, Magnus Dahlbom, Johan Axelsson, and Sven-Erik Strand

1971 **Tumor Uptake of Anti-CD20 Fabs Depends on Tumor Perfusion**
Claudia Theresa Mendler, Annette Feuchtinger, Irina Heid, Michaela Aichler, Calogero D'Alessandria, Sabine Pirsig, Birgit Blechert, Hans-Jürgen Wester, Rickmer Braren, Axel Walch, Arne Skerra, and Markus Schwaiger

1978 **Synthesis and Biologic Evaluation of Novel ^{18}F -Labeled Probes Targeting Prostate-Specific Membrane Antigen for PET of Prostate Cancer**
Naoya Harada, Hiroyuki Kimura, Satoru Onoe, Hiroyuki Watanabe, Daiko Matsuoka, Kenji Arimitsu, Masahiro Ono, and Hideo Saji

1985 **^{11}C -Methionine PET of Myocardial Inflammation in a Rat Model of Experimental Autoimmune Myocarditis**
Yoshifumi Maya, Rudolf A. Werner, Claudia Schütz, Hiroshi Wakabayashi, Samuel Sannick, Constantin Lapa, Christina Zechmeister, Roland Jahns, Valérie Jahns, and Takahiro Higuchi

1991 **Tumor-Specific Binding of Radiolabeled PEGylated GIRLRG Peptide: A Novel Agent for Targeting Cancers**
Vaishali Kapoor, David Y.A. Dadey, Kim Nguyen, Scott A. Wildman, Kelly Hoye, Arpine Khudanyan, Nilantha Bandara, Buck E. Rogers, Dinesh Thotala, and Dennis E. Hallahan

1998 **Design and Fabrication of Kidney Phantoms for Internal Radiation Dosimetry Using 3D Printing Technology**
Johannes Tran-Gia, Susanne Schögl, and Michael Lassmann

2006 **PET/MRI of Hypoxic Atherosclerosis Using ^{64}Cu -ATSM in a Rabbit Model**
Xingyu Nie, Richard Laforest, Andrew Elvington, Gwendalyn J. Randolph, Jie Zheng, Tom Voller, Dana R. Abendschein, Suzanne E. Lapi, and Pamela K. Woodard

BRIEF COMMUNICATIONS

2012 **In Vivo Dynamic Metabolic Changes After Transplantation of Induced Pluripotent Stem Cells for Ischemic Injury**
Shuang Wu, Yuankai Zhu, Hao Liu, Ling Tang, Ruili Du, Yehua Shen, Jin Feng, Kai Zhang, Caiyun Xu, Shouhong Zhang, Yao Chen, Fahuan Song, Yunqi Zhu, Weizhong Gu, Ping Liang, Ignasi Carrió, Hong Zhang, and Mei Tian

SPECIAL CONTRIBUTIONS

2016 **Variations in PET/MRI Operations: Results from an International Survey Among 39 Active Sites**
Wolfgang Peter Fendler, Johannes Czernin, Ken Herrmann, and Thomas Beyer

2022 **The Use of Published Clinical Study Reports to Support U.S. Food and Drug Administration Approval of Imaging Agents**
Dwaine Rieves and Paula Jacobs

DEPARTMENTS

2027 Book Reviews

2028 Letters to the Editor

7A This Month in JNM

20A Editorial

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