

SNMMI NEWSLINE

15N 2012 SNM Highlights Lectures

Frank M. Bengel and Satoshi Minoshima

33N SNMMI Leadership Update: Promoting Radiation Dose Optimization

Frederic H. Fahey

FOCUS ON MOLECULAR IMAGING

1333 PET of Signal Transduction Pathways in Cancer

Jason P. Holland, Paul Cumming, and Neil Vasdev

CLINICAL INVESTIGATIONS

1337 ¹⁸F-FDG Uptake by Metastatic Axillary Lymph Nodes on Pretreatment PET/CT as a Prognostic Factor for Recurrence in Patients with Invasive Ductal Breast Cancer

Bong-Il Song, Sang-Woo Lee, Shin Young Jeong, Yee Soo Chae, Won Kee Lee, Byeong-Cheol Ahn, and Jaetae Lee

1345 Prognostic Ability of ¹⁸F-FDG PET/CT in the Assessment of Colorectal Liver Metastases

Vijayaragavan Muralidharan, Marco Kwok, Sze Ting Lee, Lawrence Lau, Andrew M. Scott, and Christopher Christophi

1352 Correlation of the Genotype of Paragangliomas and Pheochromocytomas with Their Metabolic Phenotype on 3,4-Dihydroxy-6-¹⁸F-Fluoro-L-Phenylalanin PET

H. Christian Rischke, Matthias R. Benz, Damian Wild, Michael Mix, Rebecca A. Dumont, Dean Campbell, Jochen Seufert, Thorsten Wiech, Jochen Rössler, Wolfgang A. Weber, and Hartmut P.H. Neumann

1359 Tumor Response Assessment to Treatment with [¹⁷⁷Lu-DOTA⁰,Tyr³]Octreotate in Patients with Gastroenteropancreatic and Bronchial Neuroendocrine Tumors: Differential Response of Bone Versus Soft-Tissue Lesions

Esther I. van Vliet, John J. Hermans, Maria A. de Ridder, Jaap J. Teunissen, Boen L. Kam, Ronald R. de Krijger, Eric P. Krenning, and Dik J. Kwekkeboom

1367 Role of O-(2-¹⁸F-Fluoroethyl)-L-Tyrosine PET for Differentiation of Local Recurrent Brain Metastasis from Radiation Necrosis

Norbert Galldiks, Gabriele Stoffels, Christian P. Filss, Marc D. Piroth, Michael Sabel, Maximilian I. Ruge, Hans Herzog, Nadim J. Shah, Gereon R. Fink, Heinz H. Coenen, and Karl-Josef Langen

1375 PET of Serotonin 1A Receptors and Cerebral Glucose Metabolism for Temporal Lobectomy

William H. Theodore, Ashley R. Martinez, Omar I. Khan, Clarissa J. Liew, Sungyoung Auh, Irene M. Dustin, John Heiss, and Susumu Sato

1383 The Synthesis and In Vivo Pharmacokinetics of Fluorinated Arachidonic Acid: Implications for Imaging Neuroinflammation

Rama Pichika, Ameer Y. Taha, Fei Gao, Kishore Kotta, Yewon Cheon, Lisa Chang, Dale Kiesewetter, Stanley I. Rapoport, and William C. Eckelman

1392 Direct Quantification of Left Ventricular Motion and Thickening Changes Using Rest-Stress Myocardial Perfusion SPECT

Shahryar Karimi-Ashtiani, Reza Arsanjani, Mathews Fish, Paul Kavanagh, Guido Germano, Daniel Berman, and Piotr Slomka

1401 Cadmium-Zinc-Telluride Myocardial Perfusion Imaging in Obese Patients

Michael Fiechter, Cathérine Gebhard, Tobias A. Fuchs, Jelena R. Ghadri, Julia Stehli, Egle Kazakauskaite, Bernhard A. Herzog, Aju P. Pazhenkottil, Oliver Gaemperli, and Philipp A. Kaufmann

BRIEF COMMUNICATIONS

1407 Fasting and Postprandial Activity of Brown Adipose Tissue in Healthy Men

Anne Vrieze, Josefina E. Schopman, Wanda M. Admiraal, Maarten R. Soeters, Max Nieuwdorp, Hein J. Verberne, and Frits Holleman

1411 Age Effects on Serotonin Receptor 1B as Assessed by PET

David Matuskey, Brian Pittman, Beata Planeta-Wilson, Espen Walderhaug, Shannan Henry, Jean-Dominique Gallezot, Nabeel Nabulsi, Yu-Shin Ding, Zubin Bhagwagar, Robert Malison, Richard E. Carson, and Alexander Neumeister

CONTINUING EDUCATION

1415 Workflow and Scan Protocol Considerations for Integrated Whole-Body PET/MRI in Oncology

Axel Martinez-Möller, Matthias Eiber, Stephan G. Nekolla, Michael Souatzoglou, Alexander Drzezga, Sibylle Ziegler, Ernst J. Rummeny, Markus Schwaiger, and Ambros J. Beer

BASIC SCIENCE INVESTIGATIONS

1427 Comparison of mAbs Targeting Epithelial Cell Adhesion Molecule for the Detection of Prostate Cancer Lymph Node Metastases with Multimodal Contrast Agents: Quantitative Small-Animal PET/CT and NIRF

Mary A. Hall, Kenneth L. Pinkston, Nathaniel Wilganowski, Holly Robinson, Pradip Ghosh, Ali Azhdarinia, Karina Vazquez-Arreguin, Arseniy M. Kolonin, Barrett R. Harvey, and Eva M. Sevick-Muraca

1438 Positron Lymphography: Multimodal, High-Resolution, Dynamic Mapping and Resection of Lymph Nodes After Intradermal Injection of ¹⁸F-FDG

Daniel L.J. Thorek, Diane S. Abou, Bradley J. Beattie, Rachel M. Bartlett, Ruimin Huang, Pat B. Zanzonico, and Jan Grimm

1446 HER2-Positive Tumors Imaged Within 1 Hour Using a Site-Specifically ¹¹C-Labeled Sel-Tagged Affibody Molecule

Helena Wällberg, Jonas Grafström, Qing Cheng, Li Lu, Hanna-Stina Martinsson Ahlzén, Erik Samén, Jan-Olov Thorell, Katarina Johansson, Finn Dunås, Maria Hägg Olofsson, Sharon Stone-Elander, Elias S.J. Arnér, and Stefan Ståhl

1454 Differential Effects of Predosing on Tumor and Tissue Uptake of an ¹¹¹In-Labeled Anti-TENB2 Antibody-Drug Conjugate

C. Andrew Boswell, Eduardo E. Mundo, Crystal Zhang, Shannon L. Stainton, Shang-Fan Yu, Jennifer A. Lacap, Weiguang Mao, Katherine R. Kozak, Aimee Fourie, Paul Polakis, Leslie A. Khawli, and Kedan Lin

1462 Nanoparticles Modified by Encapsulation of Ligands with a Long Alkyl Chain to Affect Multispecific and Multimodal Imaging

Young Kyoung Lee, Jae Min Jeong, Lathika Hoigebazar, Bo Yeun Yang, Yun-Sang Lee, Byung Chul Lee, Hyewon Youn, Dong Soo Lee, June-Key Chung, and Myung Chul Lee

1471 PET Imaging of $\alpha 4\beta 2^*$ Nicotinic Acetylcholine Receptors: Quantitative Analysis of ¹⁸F-Nifene Kinetics in the Nonhuman Primate

Ansel T. Hillmer, Dustin W. Wooten, Maxim S. Slesarev, Elizabeth O. Ahlers, Todd E. Barnhart, Dhanabalan Murali, Mary L. Schneider, Jogeshwar Mukherjee, and Bradley T. Christian

1481 Unexpected Sensitivity of sst₂ Antagonists to N-Terminal Radiometal Modifications

Melpomeni Fani, Friederike Braun, Beatrice Waser, Karin Beetschen, Renzo Cescato, Judit Erchegyi, Jean E. Rivier, Wolfgang A. Weber, Helmut R. Maecke, and Jean Claude Reubi

POSITION STATEMENT

1490 SNMMI/ABNM Joint Position Statement on Optimizing Training in Nuclear Medicine in the Era of Hybrid Imaging

Dominique Delbeke, Henry D. Royal, Kirk A. Frey, Michael M. Graham, and George M. Segall

DEPARTMENTS

1495 Book Reviews

1496 Errata

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