

SNM NEWSLINE

- 15N Annual Newsline Review: The State of Nuclear Medicine, 2008**
Conrad Nagle
- 16N Continuing and Accumulating Successes**
Alexander J. McEwan
- 18N Our Future Takes Shape**
David Gilmore
- 19N Meeting Needs of Today, Tomorrow**
Virginia Pappas
- 20N Physics Applications in Nuclear Medicine: 2007**
Michael Stabin and A.B. Brill
- 25N Molecular Imaging: The State of the Science**
- 26N From the SNM Academic Council**
Jay Harolds
- 28N From the SNM Brain Imaging Council**
Christopher Rowe
- 28N From the SNM Correlative Imaging Council**
George Segall
- 29N From the SNM Gastrointestinal Council**
Alan H. Maurer
- 30N From the SNM Nuclear Oncology Council**
Joseph G. Rajendran
- 31N SNM Education Committee**
George Segall and N. Lynn Barnes
- 32N From the SNM MIRD Committee**
Stephen R. Thomas
- 34N From the MICOE: Translating Molecular Imaging Techniques into Practical Medicine**
Martin Pomper
- 35N Maintenance of Certification: The Year in Review**
- 37N Action Plan for Emerging Molecular Imaging Technologies**
Alexander J. McEwan, Henry F. Van Brocklin, and Chaitanya Divgi
- 41N Commentary: Released Nuclear Medicine Patients, Security Checkpoints, and the NRC**
Jeffrey A. Siegel, Carol S. Marcus, Luba Katz, and Armin Ansari
- 45N Health Policy and Regulatory Affairs Update: Funding for Basic Nuclear Medicine Research Restored**
Hugh Cannon

46N Newsbriefs

50N From the Literature

FOCUS ON MOLECULAR IMAGING

169 Multimodality Molecular Imaging with Combined Optical and SPECT/PET Modalities

Joseph Culver, Walter Akers, and Samuel Achilefu

INVITED PERSPECTIVES

173 A Potential Key Role for Radionuclide Imaging in the Prediction and Prevention of Sudden Arrhythmic Cardiac Death

Mark I. Travin

176 Revisiting an Old Issue: The Discrepancy Between Tissue Ratio-Derived Binding Parameters and Kinetic Modeling-Derived Parameters After a Bolus of the Serotonin Transporter Radioligand ¹²³I-ADAM

Mark Slifstein

CLINICAL INVESTIGATIONS

179 A Comparison of the Diagnostic Accuracy of ¹⁸F-FDG PET and CT in the Characterization of Solitary Pulmonary Nodules

James W. Fletcher, Steven M. Kymes, Michael Gould, Naomi Alazraki, R. Edward Coleman, Val J. Lowe, Charles Marn, George Segall, Lyn A. Thet, and Kelvin Lee

186 A Multicenter Clinical Trial on the Diagnostic Value of Dual-Tracer PET/CT in Pulmonary Lesions Using 3'-Deoxy-3'-¹⁸F-Fluorothymidine and ¹⁸F-FDG

Jiahe Tian, Xiaofeng Yang, Lijuan Yu, Ping Chen, Jun Xin, Liming Ma, Huiru Feng, Yieyin Tan, Zhoushe Zhao, and Wenkai Wu

195 ¹⁸F-FDG PET/CT, ^{99m}Tc-MIBI, and MRI in Evaluation of Patients with Multiple Myeloma

Rosa Fonti, Barbara Salvatore, Mario Quarantelli, Cesare Sirignano, Sabrina Segreto, Fara Petruzzello, Lucio Catalano, Raffaele Liuzzi, Bruno Rotoli, Silvana Del Vecchio, Leonardo Pace, and Marco Salvatore

201 Assessing Tumor Hypoxia in Cervical Cancer by PET with ⁶⁰Cu-Labeled Diacetyl-Bis(*N*⁴-Methylthiosemicarbazone)

Farrokh Dehdashti, Perry W. Grigsby, Jason S. Lewis, Richard Laforest, Barry A. Siegel, and Michael J. Welch

206 ¹⁻¹¹C-Acetate Kinetics of Prostate Cancer

Christiaan Schiepers, Carl K. Hoh, Johan Nuyts, Marc Seltzer, Christine Wu, Sung-Cheng Huang, and Magnus Dahlbom

216 Diagnostic Performance of an Expert System for Interpretation of ^{99m}Tc MAG3 Scans in Suspected Renal Obstruction

Andrew Taylor, Ernest V. Garcia, Jose Nilo G. Binongo, Amita Manatunga, Raghuvveer Halkar, Russell D. Folks, and Eva Dubovsky

225 Predicting the Need for an Implantable Cardioverter Defibrillator Using Cardiac Metaiodobenzylguanidine Activity Together with Plasma Natriuretic Peptide Concentration or Left Ventricular Function

Daigo Nagahara, Tomoaki Nakata, Akiyoshi Hashimoto, Takeru Wakabayashi, Michifumi Kyuma, Ryosuke Noda, Shinya Shimoshige, Kikuya Uno, Kazufumi Tsuchihashi, and Kazuaki Shimamoto

234 Evidence for Pre- to Postsynaptic Mismatch of the Cardiac Sympathetic Nervous System in Ischemic Congestive Heart Failure

James H. Caldwell, Jeanne M. Link, Wayne C. Levy, Jeanne E. Poole, and John R. Stratton

242 Shorter Examination Method for the Diagnosis of Myocardial Perfusion with Count-Based Oxygen Extraction Fraction Elevation in ¹⁵O-Gas PET

Masato Kobayashi, Takashi Kudo, Tetsuya Tsujikawa, Makoto Isozaki, Yoshikazu Arai, Yasuhisa Fujibayashi, and Hidehiko Okazawa

247 Evaluation of the Serotonin Transporter Ligand ¹²³I-ADAM for SPECT Studies on Humans

Vibe G. Frokjaer, Lars H. Pinborg, Jacob Madsen, Robin de Nijs, Claus Svarer, Aase Wagner, and Gitte M. Knudsen

BRIEF COMMUNICATIONS

255 Patterns of $\alpha_v\beta_3$ Expression in Primary and Metastatic Human Breast Cancer as Shown by ¹⁸F-Galacto-RGD PET

Ambros J. Beer, Markus Niemeyer, Janette Carlsen, Mario Sarbia, Jörg Nährig, Petra Watzlowik, Hans-Jürgen Wester, Nadia Harbeck, and Markus Schwaiger

260 Gastrin-Releasing Peptide Receptor Imaging in Human Breast Carcinoma Versus Immunohistochemistry

Christophe Van de Wiele, Philippe Phonteyne, Patrick Pauwels, Ingeborg Goethals, Rudi Van den Broecke, Veronique Cocquyt, and Rudi Andre Dierckx

CONTINUING EDUCATION

265 Uncommon Causes of Thyrotoxicosis

Erik S. Mitra, Ryan D. Niederkohr, Cesar Rodriguez, Tarek El-Maghraby, and I. Ross McDougall

BASIC SCIENCE INVESTIGATIONS

279 A Method to Correct for Radioactivity in Large Vessels That Overlap the Spine in Imaging-Based Marrow Dosimetry of Lumbar Vertebrae

Ruby F. Meredith, Sui Shen, Andres Forero, and Albert LoBuglio

285 Development of a Dual-Luciferase Reporter System for In Vivo Visualization of MicroRNA Biogenesis and Posttranscriptional Regulation

Ji Young Lee, Soonhag Kim, Do Won Hwang, Jae Min Jeong, June-Key Chung, Myung Chul Lee, and Dong Soo Lee

295 Pulsed High-Intensity Focused Ultrasound Enhances Uptake of Radiolabeled Monoclonal Antibody to Human Epidermoid Tumor in Nude Mice

Alfia Khaibullina, Beom-Su Jang, Haihao Sun, Nhat Le, Sarah Yu, Victor Frenkel, Jorge A. Carrasquillo, Ira Pastan, King C.P. Li, and Chang H. Paik

303 Changes in ¹⁸F-FDG Uptake Within Minutes After Chemotherapy in a Rabbit VX2 Tumor Model

Shao-Li Song, Jian-Jun Liu, Gang Huang, Zhao-Hai Wang, Yan-Yan Song, Xiao-Guang Sun, and Tao Chen

310 SPECT Study of Folate Receptor-Positive Malignant and Normal Tissues in Mice Using a Novel ^{99m}Tc-Radiofolate

Cristina Müller, Flavio Forrer, Roger Schibli, Eric P. Krenning, and Marion de Jong

318 Bombesin Receptor Antagonists May Be Preferable to Agonists for Tumor Targeting

Renzo Cescato, Theodosia Maina, Berthold Nock, Anastasia Nikolopoulou, David Charalambidis, Véronique Piccand, and Jean Claude Reubi

327 ¹⁻¹¹C-Acetate as a PET Radiopharmaceutical for Imaging Fatty Acid Synthase Expression in Prostate Cancer

Amy L. Vävere, Steven J. Kridel, Frances B. Wheeler, and Jason S. Lewis

DEPARTMENTS

335 Book Reviews

337 Letter to the Editor

11A This Month in JNM

55A Recruitment Advertising

JNM ONLINE

jnm.snmjournals.org

Newsline Online

www.snm.org/newsline

Information for Authors

http://www.snm.org/journals/jnm_author_info

UPCOMING EDUCATION ARTICLES

The Future of Nuclear Cardiac Stress Testing in the Era of Molecular Medicine

Mark R. Vesely and Vasken Dilsizian

For CE credit, you can access Continuing Education Activities through the SNM Web site (http://www.snm.org/ce_online)