

SNM NEWSLINE

- 13N** SNM 2010 Image of the Year
- 13N** JNM Named Top Imaging Journal
- 14N** ⁹⁹Mo/^{99m}Tc Generator Shortage: Free, Web-Based Software
Diego Cecchin, Pietro Zucchetta, Paolo Faggini, Enrico Bolla, and Franco Bui
- 16N** Mathis Receives Aebersold Award
- 16N** Långström Receives de Hevesy Award
- 17N** In Memoriam: Powell “Jim” Richards 1917–2010
Suresh C. Srivastava
- 18N** In Memoriam: L. Stephen Graham, PhD 1933–2010
Frederic H. Fahey and Marvin B. Cohen
- 19N** Outstanding Contributors Honored
- 19N** Molecular Imaging Update: A New Vision for the MICoE
Carolyn J. Anderson
- 20N** SNM Leadership Update: Molecular Imaging at the Forefront: SNM’s 57th Annual Meeting
Virginia Pappas
- 21N** From the Literature

FOCUS ON MOLECULAR IMAGING

- 1167** Tumor pH and Its Measurement
Xiaomeng Zhang, Yuxiang Lin, and Robert J. Gillies

INVITED PERSPECTIVE

- 1171** ¹²³I-Metaiodobenzylguanidine Imaging in the Era of Implantable Cardioverter Defibrillators: Beyond Ejection Fraction
Ichiro Matsunari, Junichi Taki, Kenichi Nakajima, and Seigo Kinuya

CLINICAL INVESTIGATIONS

- 1174** Correlation Between Glycolytic Phenotype and Tumor Grade in Soft-Tissue Sarcomas by ¹⁸F-FDG PET
Matthias R. Benz, Sarah M. Dry, Fritz C. Eilber, Martin S. Allen-Auerbach, William D. Tap, David Elashoff, Michael E. Phelps, and Johannes Czernin

- 1182** Single-Phase CT Aligned to Gated PET for Respiratory Motion Correction in Cardiac PET/CT
R. Glenn Wells, Terrence D. Ruddy, Rob A. DeKemp, Jean N. DaSilva, and Rob S. Beanlands
- 1191** The XbaI G>T Polymorphism of the Glucose Transporter 1 Gene Modulates ¹⁸F-FDG Uptake and Tumor Aggressiveness in Breast Cancer
Florian Grabellus, Sien-Yi Sheu, Hagen S. Bachmann, Nils Lehmann, Friedrich Otterbach, Till A. Heusner, Gerald Antoch, Andreas Bockisch, Rainer Kimmig, Kurt W. Schmid, and Alexander R. Stahl
- 1198** Hybrid PET/MRI of Intracranial Masses: Initial Experiences and Comparison to PET/CT
Andreas Boss, Sotirios Bisdas, Armin Kolb, Matthias Hofmann, Ulrike Ernemann, Claus D. Claussen, Christina Pfannenberger, Bernd J. Pichler, Matthias Reimold, and Lars Stegger
- 1206** The Significance of ^{99m}Tc-MAA SPECT/CT Liver Perfusion Imaging in Treatment Planning for ⁹⁰Y-Microsphere Selective Internal Radiation Treatment
Hojjat Ahmadzadehfar, Amir Sabet, Kim Biermann, Marianne Muckle, Holger Brockmann, Christiane Kuhl, Kai Wilhelm, Hans-Jürgen Biersack, and Samer Ezziddin
- 1213** ¹⁸F-FDG PET/CT Findings and Circulating Tumor Cell Counts in the Monitoring of Systemic Therapies for Bone Metastases from Breast Cancer
Ugo De Giorgi, Michal Mego, Eric M. Rohren, Ping Liu, Beverly C. Handy, James M. Reuben, Homer A. Macapinlac, Gabriel N. Hortobagyi, Massimo Cristofanilli, and Naoto T. Ueno
- 1219** Added Value of Intraoperative Real-Time Imaging in Searches for Difficult-to-Locate Sentinel Nodes
Sergi Vidal-Sicart, Pilar Paredes, Gabriel Zanón, Jaume Pahisa, Sergio Martinez-Román, Xavier Caparrós, Antoni Vilalta, Ramon Rull, and Francesca Pons
- 1226** Quantification of Smoking-Induced Occupancy of β_2 -Nicotinic Acetylcholine Receptors: Estimation of Nondisplaceable Binding
Irina Esterlis, Kelly P. Cosgrove, Jeffery C. Batis, Frederic Bois, Stephanie M. Stiklus, Evgenia Perkins, John P. Seibyl, Richard E. Carson, and Julie K. Staley
- 1234** ¹⁸F-FDG PET/CT for Detection of Metastatic Infection in Gram-Positive Bacteremia
Fidel J. Vos, Chantal P. Bleeker-Rovers, Patrick D. Sturm, Paul F.M. Krabbe, Arie P.J. van Dijk, Maria L.H. Cuijpers, Eddy M.M. Adang, Geert J.A. Wanten, Bart-Jan Kullberg, and Wim J.G. Oyen
- 1241** Impairment of Cardiac Sympathetic Innervation and Myocardial Perfusion Is Related to Lethal Arrhythmic Events: Quantification of Cardiac Metaiodobenzylguanidine and Tetrofosmin Activities in Patients Treated with Implantable Cardioverter Defibrillators
Kimio Nishisato, Akiyoshi Hashimoto, Tomoaki Nakata, Takahiro Doi, Hitomi Yamamoto, Daigo Nagahara, Shinya Shimoshige, Satoshi Yuda, Kazufumi Tsuchihashi, and Kazuaki Shimamoto

1250 Progression from Unilateral to Bilateral Parkinsonism in Early Parkinson Disease: Implication of Mesocortical Dopamine Dysfunction by PET

Shunsuke Yagi, Etsuji Yoshikawa, Masami Futatsubashi, Masamichi Yokokura, Yujiro Yoshihara, Tatsuo Torizuka, and Yasuomi Ouchi

CONTINUING EDUCATION

1258 A Bridge Not Too Far: Linking Disciplines Through Molecular Imaging Probes

John F. Valliant

BASIC SCIENCE INVESTIGATIONS

1269 Molecular Imaging of Cardiac Sympathetic Innervation by ¹¹C-*m*HED and PET: From Man to Mouse?

Marilyn P. Law, Klaus Schäfers, Klaus Kopka, Stefan Wagner, Otmär Schober, and Michael Schäfers

1277 Isochronous Assessment of Cardiac Metabolism and Function in Mice Using Hybrid PET/MRI

Katharina Büscher, Martin S. Judenhofer, Michael T. Kuhlmann, Sven Hermann, Hans F. Wehrl, Klaus P. Schäfers, Michael Schäfers, Bernd J. Pichler, and Lars Stegger

1285 Small-Animal PET/CT for Monitoring the Development and Response to Chemotherapy of Thymic Lymphoma in *Trp53*^{-/-} Mice

Martin A. Walter, Isabel J. Hildebrandt, Katrin Hacke, Adam L. Kesner, Owen Kelly, Gregory W. Lawson, Michael E. Phelps, Johannes Czernin, Wolfgang A. Weber, and Robert H. Schiestl

1293 ⁸⁹Zr-DFO-J591 for ImmunoPET of Prostate-Specific Membrane Antigen Expression In Vivo

Jason P. Holland, Vadim Divilov, Neil H. Bander, Peter M. Smith-Jones, Steven M. Larson, and Jason S. Lewis

1301 ¹⁸F-FEAC and ¹⁸F-FEDAC: PET of the Monkey Brain and Imaging of Translocator Protein (18 kDa) in the Infarcted Rat Brain

Joji Yui, Jun Maeda, Katsushi Kumata, Kazunori Kawamura, Kazuhiko Yanamoto, Akiko Hatori, Tomoteru Yamasaki, Nobuki Nengaki, Makoto Higuchi, and Ming-Rong Zhang

1310 Synthesis and Preliminary Evaluation of 18-¹⁸F-Fluoro-4-Thia-Oleate as a PET Probe of Fatty Acid Oxidation

Timothy R. DeGrado, Falguni Bhattacharyya, Mukesh K. Pandey, Anthony P. Belanger, and Shuyan Wang

1318 In Vivo Formation of γ -H2AX and 53BP1 DNA Repair Foci in Blood Cells After Radioiodine Therapy of Differentiated Thyroid Cancer

Michael Lassmann, Heribert Hänscheid, Daniela Gassen, Johannes Biko, Viktor Meineke, Christoph Reiners, and Harry Scherthan

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UPCOMING EDUCATION ARTICLES

Target-Specific PET Probes for Neurodegenerative Disorders Related to Dementia

Ahmadul Kadir and Agneta Nordberg

Complementary Roles of Whole-Body Diffusion-Weighted MRI and ¹⁸F-FDG PET: The State of the Art and Potential Applications

Thomas C. Kwee, Taro Takahara, Reiji Ochiai, Dow-Mu Koh, Yoshiharu Ohno, Katsuyuki Nakanishi, Tetsu Niwa, Thomas L. Chenevert, Peter R. Luijten, and Abass Alavi

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