

SNM NEWSLINE

- 13N** SNM Annual Meeting Focuses on Molecular Imaging/Nuclear Medicine Research
- 14N** A Memoir of Pediatric Nuclear Medicine: Part III: Finding a Place for Nuclear Medicine
James J. Conway
- 25N** SNM Leadership Update: Connecting Our Past With the Future
Peter S. Conti
- 27N** SNM Public Affairs Update: National Oncologic PET Registry Begins Accepting Patient Data
Hugh Cannon
- 28N** Newsbriefs
- 34N** From the Literature

INVITED PERSPECTIVES

- 899** Targeted Radiotherapy: Is the “Holy Grail” in Sight?
Carmel Mothersill and Colin B. Seymour
- 901** ^{18}F -FDG PET as a Candidate for “Qualified Biomarker”: Functional Assessment of Treatment Response in Oncology
Steven M. Larson and Lawrence H. Schwartz

CLINICAL INVESTIGATIONS

- 904** ^{18}F -FDOPA PET Imaging of Brain Tumors: Comparison Study with ^{18}F -FDG PET and Evaluation of Diagnostic Accuracy
Wei Chen, Daniel H.S. Silverman, Sibylle Delaloye, Johannes Czernin, Nirav Kamdar, Whitney Pope, Nagichettiar Satyamurthy, Christiaan Schiepers, and Timothy Cloughesy
- 912** Novel Human IgG2b/Murine Chimeric Antitumor Monoclonal Antibody Construct Radiolabeled with ^{131}I and Administered into the Surgically Created Resection Cavity of Patients with Malignant Glioma: Phase I Trial Results
David A. Reardon, Jennifer A. Quinn, Gamal Akabani, R. Edward Coleman, Allan H. Friedman, Henry S. Friedman, James E. Herndon II, Roger E. McLendon, Charles N. Pegram, James M. Provenzale, Jeannette M. Dowell, Jeremy N. Rich, James J. Vredenburgh, Annick Desjardins, John H. Sampson, Sridharan Gururangan, Terence Z. Wong, Michael A. Badrudojia, Xiao-Guang Zhao, Darell D. Bigner, and Michael R. Zalutsky

- 919** Characterization of the SPECT 5-HT_{2A} Receptor Ligand ^{123}I -R91150 in Healthy Volunteers: Part 1—Pseudoequilibrium Interval and Quantification Methods
Ana M. Catafau, Monica Danus, Santiago Bullich, Jordi Llop, Javier Perich, Vincent J. Cunningham, Pedro Plaza, Maria M. Penengo, Jos L.H. Eersels, Lisa Squassante, Domenec Ros, and Manel Barbanøj
- 929** Characterization of the SPECT 5-HT_{2A} Receptor Ligand ^{123}I -R91150 in Healthy Volunteers: Part 2—Ketanserin Displacement
Ana M. Catafau, Monica Danus, Santiago Bullich, Gianluca Nucci, Jordi Llop, Sergi Abanades, Vincent J. Cunningham, Jos L.H. Eersels, Javier Pavia, and Magi Farre
- 938** Value of ^{11}C -Choline PET and Contrast-Enhanced CT for Staging of Bladder Cancer: Correlation with Histopathologic Findings
Maria Picchio, Uwe Treiber, Ambros J. Beer, Stefan Metz, Patrick Bössner, Heiner van Randenborgh, Roger Paul, Gregor Weirich, Michael Sowatzoglou, Rudolf Hartung, Markus Schwaiger, and Morand Piert
- 945** Comparison of Image-Derived and Arterial Input Functions for Estimating the Rate of Glucose Metabolism in Therapy-Monitoring ^{18}F -FDG PET Studies
Lioe-Fee de Geus-Oei, Eric P. Visser, Paul F.M. Krabbe, Bas A. van Hoorn, Emile B. Koenders, Antoon T. Willemsen, Jan Pruim, Frans H.M. Corstens, and Wim J.G. Oyen
- 950** Effects of Pegfilgrastim on Normal Biodistribution of ^{18}F -FDG: Preclinical and Clinical Studies
Heather A. Jacene, Takayoshi Ishimori, James M. Engles, Sophie Leboulleux, Vered Stearns, and Richard L. Wahl

CONTINUING EDUCATION

- 957** Role of Nuclear Medicine in the Management of Cutaneous Malignant Melanoma
Tarik Z. Belhocine, Andrew M. Scott, Einat Even-Sapir, Jean-Luc Urbain, and Richard Essner

BASIC SCIENCE INVESTIGATIONS

- 968** SPECT Imaging in the Diagnosis of Pulmonary Embolism: Automated Detection of Match and Mismatch Defects by Means of Image-Processing Techniques
Patrick Reinartz, Hans-Juergen Kaiser, Joachim E. Wildberger, Cirus Gordji, Bernd Nowak, and Ulrich Buell
- 974** Noninvasive Measurement of Cardiovascular Function in Mice with High-Temporal-Resolution Small-Animal PET
Michael C. Kreissl, Hsiao-Ming Wu, David B. Stout, Waldemar Ladno, Thomas H. Schindler, Xiaoli Zhang, John O. Prior, Mayumi L. Prins, Arion F. Chatziioannou, Sung-Cheng Huang, and Heinrich R. Schelbert
- 981** Characterization and Development of a Peptide (p160) with Affinity for Neuroblastoma Cells
Vasileios Askoxylakis, Walter Mier, Sabine Zitzmann, Volker Ehemann, Jianbing Zhang, Susanne Krämer, Carmen Beck, Manfred Schwab, Michael Eisenhut, and Uwe Haberkorn

989 Intertumoral Differences in Hypoxia Selectivity of the PET Imaging Agent ⁶⁴Cu(II)-Diacetyl-Bis(N⁴-Methylthiosemicarbazone)

Hong Yuan, Thies Schroeder, James E. Bowsher, Laurence W. Hedlund, Terence Wong, and Mark W. Dewhirst

999 Impact of Animal Handling on the Results of ¹⁸F-FDG PET Studies in Mice

Barbara J. Fueger, Johannes Czernin, Isabel Hildebrandt, Chris Tran, Benjamin S. Halpern, David Stout, Michael E. Phelps, and Wolfgang A. Weber

1007 Radiation-Induced Biologic Bystander Effect Elicited In Vitro by Targeted Radiopharmaceuticals Labeled with α -, β -, and Auger Electron-Emitting Radionuclides

Marie Boyd, Susan C. Ross, Jennifer Dorrens, Natasha E. Fullerton, Ker Wei Tan, Michael R. Zalutsky, and Robert J. Mairs

1016 ¹⁸F-FDG Assessment of Glucose Disposal and Production Rates During Fasting and Insulin Stimulation: A Validation Study

Patricia Iozzo, Amalia Gastaldelli, Mikko J. Järvisalo, Jan Kiss, Ronald Borra, Emma Buzzigoli, Antti Viljanen, G. Naum, Tapio Viljanen, Vesa Oikonen, Juhani Knuuti, Timo Savunen, Piero A. Salvadori, Ele Ferrannini, and Pärjo Nuutila

1023 Preclinical Pharmacokinetic, Biodistribution, Toxicology, and Dosimetry Studies of ¹¹¹In-DTPA-Human Epidermal Growth Factor: An Auger Electron-Emitting Radiotherapeutic Agent for Epidermal Growth Factor Receptor-Positive Breast Cancer

Raymond M. Reilly, Paul Chen, Judy Wang, Deborah Scollard, Ross Cameron, and Katherine A. Vallis

1032 First Evaluation of a ^{99m}Tc-Tricarbonyl Complex, ^{99m}Tc(CO)₃(LAN), as a New Renal Radiopharmaceutical in Humans

Malgorzata Lipowska, Haiyang He, Eugene Malveaux, Xiaolong Xu, Luigi G. Marzilli, and Andrew Taylor

1041 Synthesis and In Vivo Evaluation of 2 High-Affinity ⁷⁶Br-Labeled σ_2 -Receptor Ligands

Douglas J. Rowland, Zhude Tu, Jinbin Xu, Datta Ponde, Robert H. Mach, and Michael J. Welch

1049 Log Normal Distribution of Cellular Uptake of Radioactivity: Implications for Biologic Responses to Radiopharmaceuticals

Prasad V.S.V. Neti and Roger W. Howell

SPECIAL CONTRIBUTION

1059 Consensus Recommendations for the Use of ¹⁸F-FDG PET as an Indicator of Therapeutic Response in Patients in National Cancer Institute Trials

Lalitha K. Shankar, John M. Hoffman, Steve Bacharach, Michael M. Graham, Joel Karp, Adriaan A. Lammertsma, Steven Larson, David A. Mankoff, Barry A. Siegel, Annick Van den Abbeele, Jeffrey Yap, and Daniel Sullivan

DEPARTMENTS

903 Erratum

11A This Month in JNM

45A Recruitment Advertising

50A JNM Direct Response

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

Roles of Nuclear Cardiology, Cardiac Computed Tomography, and Cardiac Magnetic Resonance: Noninvasive Risk Stratification and a Conceptual Framework for the Selection of Noninvasive Imaging Tests in Patients with Known or Suspected Coronary Artery Disease

Daniel S. Berman, Rory Hachamovitch, Leslee J. Shaw, John D. Friedman, Sean W. Hayes, Louise E.J. Thomson, David S. Fieno, Guido Germano, Nathan D. Wong, Xingping Kang, and Alan Rozanski

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