

SNM NEWSLINE

- 13N** SNM Annual Meeting Energized by Launch of Molecular Imaging Initiative
- 14N** 2006 Image of the Year: Focus on Cardiac SPECT/CT
- 16N** New SNM/SNMTS Officers Recognized at San Diego Meeting
- 25N** Gottschalk Recognized with Cassen Prize
- 26N** Aebersold Award Presented to Gambhir
- 27N** Wolf Receives 2006 de Hevesy Award
- 28N** Guarasci Named SNMTS Outstanding Educator
- 33N** Outstanding *JNM* Articles for 2005
- 34N** Outstanding *JNMT* Articles for 2005
- 35N** SNMTS Leadership Update: High Standards
D. Scott Holbrook
- 36N** SNM Leadership Update: A Defining Moment: Nuclear Medicine, Molecular Imaging, SNM
Martin P. Sandler
- 37N** Public Affairs Update: Nuclear Medicine Coalition Report
Hugh Cannon
- 38N** Newsbriefs
- 40N** From the Literature

INVITED PERSPECTIVES

- 1067** Dynamic Imaging of Transient Metabolic Processes: PDT Is Just the Beginning
Paul D. Acton
- 1070** Radioimmunotherapy Against the Tumor Vasculature: A New Target?
Robert M. Sharkey

CLINICAL INVESTIGATIONS

- 1075** Integrating PET and CT Information to Improve Diagnostic Accuracy for Lung Nodules: A Semiautomatic Computer-Aided Method
Yongkang Nie, Qiang Li, Feng Li, Yonglin Pu, Daniel Appelbaum, and Kunio Doi
- 1081** "Flying Through" and "Flying Around" a PET/CT Scan: Pilot Study and Development of 3D Integrated ¹⁸F-FDG PET/CT for Virtual Bronchoscopy and Colonoscopy
Andrew Quon, Sandy Napel, Christopher F. Beaulieu, and Sanjiv S. Gambhir

- 1088** Regional Cerebral Glucose Metabolic Abnormality in Prader-Willi Syndrome: A ¹⁸F-FDG PET Study Under Sedation

Sang Eun Kim, Dong-Kyu Jin, Sang Soo Cho, Ji-Hae Kim, Sungdo David Hong, Kyung Hoon Paik, Yoo Joung Oh, An Hee Kim, Eun Kyung Kwon, and Yon Ho Choe

- 1093** Cerebral Activation During Withholding Urine with Full Bladder in Healthy Men Using ^{99m}Tc-HMPAO SPECT

Yafu Yin, Noriyuki Shuke, Atsutaka Okizaki, Junichi Sato, Tamio Aburano, Yaming Li, Shigeo Kaneko, Mitsuhiro Mizunaga, and Sunao Yachiku

- 1099** Reduced Cardiac Uptake and Enhanced Washout of ¹²³I-MIBG in Pure Autonomic Failure Occurs Conjointly with Parkinson's Disease and Dementia with Lewy Bodies

Kenichi Kashihara, Manabu Ohno, Sanami Kawada, and Yoshihiro Okumura

- 1102** SPECT-Guided CT for Evaluating Foci of Increased Bone Metabolism Classified as Indeterminate on SPECT in Cancer Patients

Wolfgang Römer, Anton Nömayr, Michael Uder, Werner Bautz, and Torsten Kuwert

CONTINUING EDUCATION

- 1107** 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

BASIC SCIENCE INVESTIGATIONS

- 1119** Dynamic Imaging of Transient Metabolic Processes by Small-Animal PET for the Evaluation of Photosensitizers in Photodynamic Therapy of Cancer
Véronique Bérard, Jacques A. Rousseau, Jules Cadorette, Laurent Hubert, M'hamed Bentourkia, Johan E. van Lier, and Roger Lecomte

- 1127** Radioimmunotherapy of Head and Neck Cancer Xenografts Using ¹³¹I-Labeled Antibody L19-SIP for Selective Targeting of Tumor Vasculature

Bernard M. Tjink, Dario Neri, C. René Leemans, Marianne Budde, Ludger M. Dinkelborg, Marijke Stigter-van Walsum, Luciano Zardi, and Guus A.M.S. van Dongen

- 1136** Tumor-Specific In Vivo Transfection with HSV-1 Thymidine Kinase Gene Using a Sindbis Viral Vector as a Basis for Prodrug Ganciclovir Activation and PET
Jen-Chieh Tseng, Pat B. Zanzonico, Brandi Levin, Ronald Finn, Steven M. Larson, and Daniel Meruelo

1144 ¹⁷⁷Lu-AMBA: Synthesis and Characterization of a Selective ¹⁷⁷Lu-Labeled GRP-R Agonist for Systemic Radiotherapy of Prostate Cancer

Laura E. Lantry, Enrico Cappelletti, Mary Ellen Maddalena, Jaclyn S. Fox, Weiwei Feng, Jianqing Chen, Regi Thomas, Stephen M. Eaton, Nancy J. Bogdan, Thangavel Arunachalam, Jean Claude Reubi, Natarajan Raju, Edmund C. Metcalfe, Luciano Lattuada, Karen E. Linder, Rolf E. Swenson, Michael F. Tweedle, and Adrian D. Nunn

1153 Synthesis and Preclinical Evaluation of a Folic Acid Derivative Labeled with ¹⁸F for PET Imaging of Folate Receptor-Positive Tumors

Andrea Bettio, Michael Honer, Cristina Müller, Matthias Brühlmeier, Ursina Müller, Roger Schibli, Viola Groehn, August P. Schubiger, and Simon M. Ametamey

1161 Molecular Imaging with ¹²³I-FIAU, ¹⁸F-FUDR, ¹⁸F-FET, and ¹⁸F-FDG for Monitoring Herpes Simplex Virus Type 1 Thymidine Kinase and Ganciclovir Prodrug Activation Gene Therapy of Cancer

Hsin-Ell Wang, Hung-Man Yu, Ren-Shyan Liu, Mai Lin, Juri G. Gelovani, Jeng-Jong Hwang, Hon-Jian Wei, and Win-Ping Deng

1172 A Thiol-Reactive ¹⁸F-Labeling Agent, *N*-[2-(4-¹⁸F-Fluorobenzamido)Ethyl]Maleimide, and Synthesis of RGD Peptide-Based Tracer for PET Imaging of $\alpha_v\beta_3$ Integrin Expression

Weibo Cai, Xianzhong Zhang, Yun Wu, and Xiaoyuan Chen

1181 Semiautomated Analysis of Small-Animal PET Data

Adam L. Kesner, Magnus Dahlbom, Sung-Cheng Huang, Wei-Ann Hsueh, Betty S. Pio, Johannes Czernin, Michael Kreissl, Hsiao-Ming Wu, and Daniel H.S. Silverman

1187 Method of Generating Multiple Sets of Experimental Phantom Data

Arkadiusz Sitek, Bryan W. Reutter, Ronald H. Huesman, and Grant T. Gullberg

1193 Reproducibility of Measurements of Regional Myocardial Blood Flow in a Model of Coronary Artery Disease: Comparison of H₂¹⁵O and ¹³NH₃ PET Techniques

Panithaya Chareonthaitawee, Stuart D. Christenson, Jill L. Anderson, Brad J. Kemp, David O. Hodge, Erik L. Ritman, and Raymond J. Gibbons

1202 Organ and Fetal Absorbed Dose Estimates from ^{99m}Tc-Sulfur Colloid Lymphoscintigraphy and Sentinel Node Localization in Breast Cancer Patients

Neeta Pandit-Taskar, Lawrence T. Dauer, Leslie Montgomery, Jean St. Germain, Pat B. Zanzonico, and Chaitanya R. Divgi

1209 Dosimetric Techniques in ⁹⁰Y-Microsphere Therapy of Liver Cancer: The MIRD Equations for Dose Calculations

Seza A. Gulec, Geraldine Mesoloras, and Michael Stabin

1212 Noninvasive Molecular Imaging to Detect Transgene Expression of Lentiviral Vector in Nonhuman Primates

William E. Sander, Mark E. Metzger, Kouki Morizono, Aylin Bonifacino, Scott R. Penzak, Yi-Ming Xie, Irvin S.Y. Chen, Jeffrey Bacon, Stephen G. Sestrich, Lawrence P. Szajek, and Robert E. Donahue

SPECIAL CONTRIBUTION

1220 The Radioactive Drug Research Committee: Background and Retrospective Study of Reported Research Data (1975–2004)

Orhan H. Suleiman, Richard Fejka, Florence Houn, and Maria Walsh

PROCEDURE GUIDELINE

1227 Procedure Guideline for SPECT/CT Imaging 1.0

Dominique Delbeke, R. Edward Coleman, Milton J. Guiberteau, Manuel L. Brown, Henry D. Royal, Barry A. Siegel, David W. Townsend, Lincoln L. Berland, J. Anthony Parker, George Zubal, and Valerie Cronin

DEPARTMENTS

11A This Month in JNM

45A Recruitment Advertising

50A JNM Direct Response

JNM ONLINE

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UPCOMING EDUCATION ARTICLES

The Role of PET in Lymphoma

Yuliya S. Jhanwar and David J. Straus

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