**SNM NEWSLINE**

11N PET Approved in Cervical Ca Staging, Partial Na\(^{18}\)F Approval in Bone Mets

11N Gambhir Named Year’s Outstanding Researcher

12N SNM Leadership Update: Staying Ahead of Health Care Reform: Embracing an Opportunity for Improvement

Michael M. Graham

13N Molecular Imaging Update: Curriculum Development Update

Darlene Metter

14N Newsbriefs

17N From the Literature

**FOCUS ON MOLECULAR IMAGING**

1 Radioisotopic Imaging of Neuroinflammation

Alexandra Winkeler, Raphaël Boisgard, Abraham Martin, and Bertrand Tavitian

**INVITED PERSPECTIVE**

5 The PET/CT Report: The Most Important Part of the Study

Michael M. Graham

**CLINICAL INVESTIGATIONS**

7 Dopamine Cell Implantation in Parkinson’s Disease: Long-Term Clinical and \(^{18}\)F-FDOPA PET Outcomes

Yilong Ma, Chengke Tang, Thomas Chaly, Paul Greene, Robert Breeze, Stanley Fahn, Curt Freed, Vijay Dhawan, and David Eidelberg

16 Implementation of an Automated Respiratory Amplitude Gating Technique for PET/CT: Clinical Evaluation

Guoping Chang, Tingting Chang, Tinsu Pan, John W. Clark Jr., and Osama R. Mawlawi

25 \(^{18}\)F-FDG Avidity in Lymphoma Readdressed: A Study of 766 Patients

Michal Weiler-Sagie, Olga Bushelev, Ron Epelbaum, Eldad J. Dann, Nissim Haim, Irit Avivi, Ayelet Ben-Barak, Yehudit Ben-Arie, Rachel Bar-Shalom, and Ora Israel

31 In Vivo Tumor Grading of Prostate Cancer Using Quantitative \(^{111}\)In-Capromab Pendetide SPECT/CT

Youngho Seo, Carina Mari Aparici, Matthew R. Cooperberg, Badrinath R. Konety, and Randall A. Hawkins

37 Pharmacokinetic Analysis of Hypoxia \(^{18}\)F-Fluoromisonidazole Dynamic PET in Head and Neck Cancer

Wenli Wang, Nancy Y. Lee, Jens-Christoph Georgi, Manoj Narayan, Jose Guillem, Heiko Schöder, and John L. Humm

46 Nuclear Myocardial Perfusion Imaging with a Cadmium-Zinc-Telluride Detector Technique: Optimized Protocol for Scan Time Reduction

Bernhard A. Herzog, Ronny R. Buechel, Ruth Katz, Michael Braeckner, Lars Husmann, Irene A. Burger, Aji P. Pachenkottil, Ines Valenta, Oliver Gaemperli, Valerie Treyer, and Philipp A. Kaufmann

52 Diagnosis of Cirrhotic Portal Hypertension and Compensatory Circulation Using Transsplenic Portal Scintigraphy with \(^{99m}\)Tc-Phytate

Li Gao, Fuyong Yang, Changzheng Ren, Jiankui Han, Youan Zhao, and Hua Li

57 Spatial Heterogeneity of Lung Perfusion Assessed with \(^{13}\)N PET as a Vascular Biomarker in Chronic Obstructive Pulmonary Disease

Marcos F. Vidal Melo, Tilo Winkler, R. Scott Harris, Guido Musch, Reginald E. Greene, and Jose G. Venegas

**CONTINUING EDUCATION**

66 Innovations in Radiotherapy Planning of Head and Neck Cancers: Role of PET


**BASIC SCIENCE INVESTIGATIONS**

77 Integrated Software Environment Based on COMKAT for Analyzing Tracer Pharmacokinetics with Molecular Imaging

Yu-Hua Dean Fang, Pravesh Asthana, Cristian Salinas, Hsuang-Ming Huang, and Raymond F. Muzic, Jr.

85 Molecular Imaging of Atherosclerotic Plaque with \(^{64}\)Cu-Labeled Natriuretic Peptide and PET

Yongjian Liu, Dana Abendschein, Geoffrey E. Woodard, Raffaella Rossin, Kyle McCommis, Jie Zheng, Michael J. Welch, and Pamela K. Woodard

92 A Novel Monoclonal Antibody for RAGE-Directed Imaging Identifies Accelerated Atherosclerosis in Diabetes

Yared Tekabe, Joane Luna, Andrew J. Einstein, Marija Sedlar, Qing Li, Ann Marie Schmidt, and Lynne L. Johnson
A Nucleolin-Targeted Multimodal Nanoparticle Imaging Probe for Tracking Cancer Cells Using an Aptamer
Do Won Hwang, Hae Young Ko, Jung Hwan Lee, Hyungu Kang, Sung Ho Ryu, In Chan Song, Dong Soo Lee, and Soonhag Kim

Imaging Spontaneous MMTVneu Transgenic Murine Mammary Tumors: Targeting Metabolic Activity Versus Genetic Products
Mathew L. Thakur, Devakumar Devadhas, Kaijun Zhang, Richard G. Pestell, Chenguang Wang, Peter McCue, and Eric Wickstrom

Imaging and Quantitation of Cannabinoid CB1 Receptors in Human and Monkey Brains Using 18F-Labeled Inverse Agonist Radioligands

124I-Iodopyridopyrimidinone for PET of Abl Kinase–Expressing Tumors In Vivo
Mikhail Doubrovin, Tatiana Kochetkova, Elmer Santos, Darren R. Veach, Peter Smith-Jones, Nagavarakishore Pillarsetty, Julius Balatoni, William Bornmann, Juri Gelovani, and Steven M. Larson

Choline PET for Monitoring Early Tumor Response to Photodynamic Therapy
Baowei Fei, Hesheng Wang, Chunying Wu, and Song-mao Chiu

PET-Derived Biodistribution and Dosimetry of the Benzodiazepine Receptor-Binding Radioligand 11C-(R)-PK11195 in Children and Adults
Ajay Kumar, Otto Macik, Diane Chugani, Pulak Chakraborty, and Harry T. Chugani

Biodistribution and Radiation Dosimetry in Humans of a New PET Ligand, 18F-PBR06, to Image Translocator Protein (18 kDa)
Yota Fujimura, Yasuyuki Kimura, Fabrice G. Siméon, Leah P. Dickstein, Victor W. Pike, Robert B. Innis, and Masahiro Fujita

Impact of Rituximab Treatment on 90Y-Ibritumomab Dosimetry for Patients with Non-Hodgkin Lymphoma
Sui Shen, Andres Forero, Ruby F. Meredith, Jatin J. Shah, Susan J. Knox, Gregory A. Wiseman, Marc E. Usrey, and Albert F. LoBuglio

PET and PET/CT Reports: Observations from the National Oncologic PET Registry
R. Edward Coleman, Bruce E. Hillner, Anthony F. Shields, Fenghai Duan, Denise A. Merlino, Lucy G. Hanna, Sharon Hartson Stine, and Barry A. Siegel

Choline PET for Monitoring Early Tumor Response to Photodynamic Therapy

PET-Derived Biodistribution and Dosimetry of the Benzodiazepine Receptor-Binding Radioligand

Biodistribution and Radiation Dosimetry in Humans of a New PET Ligand, 18F-PBR06, to Image Translocator Protein (18 kDa)

Economic Evaluation of PET and PET/CT in Oncology: Evidence and Methodologic Approaches
Andreas K. Buck, Ken Herrmann, Tom Stargardt, Tobias Dechow, Bernd Joachim Krause, and Jonas Schreyögg

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