

SNM NEWSLINE

15N **Shaping the Future: The 2006 SNM Molecular Imaging Summit**

Mathew L. Thakur and Martin P. Sandler

17N **Session 1: Drug Discovery**

Chaitanya Divgi and Alexander McEwan

19N **Trends in Innovation in Drug Discovery**

Steven Bodovitz

21N **Light-Activated Gene Therapy, New Selective Therapies for Disease**

Richard Pestell

22N **Rational Design for Peptide Drugs**

Eric D. Agdeppa

24N **Therapeutic Applications of Antibodies: Background and Current State**

Chaitanya Divgi

25N **Recent Advances in Biomarkers for Diagnosis and Treatment**

Juri G. Gelovani

27N **Session 2: Clinical Issues**

Steven M. Larson and Martin P. Sandler

29N **Molecular Imaging Moves to the Clinic**

Steven M. Larson

31N **¹⁸F-FDG Imaging: Molecular or Functional?**

Steven M. Larson

32N **Molecular Imaging: A Tool for Developing Central Nervous System Drugs**

P. David Mozley

33N **What Is the Role of Molecular Imaging in the Management of Cardiac Disorders?**

Albert Sinusas

36N **From Clinical Trials to Prescriptions**

Adrian D. Nunn

38N **Session 3: Basic Research Issues**

Michael J. Welch and Mathew L. Thakur

40N **Oncogene Cell Differentiation/Cell Transduction**

David Geho

43N **Recent Trends in Radionuclide-Based Molecular Imaging**

Michael J. Welch

44N **Role of MR in Molecular Imaging**

John Gore

45N **High-Resolution Optical Imaging: Progress and Perspectives**

Lihong Wang

46N **Radiologic Approaches to Molecular Imaging**

Malcolm (Calum) J. Avison

48N **Session 4: Instrumentation and Animal Models**

Cheryl L. Marks and Peter S. Conti

50N **Animal Models for Human Diseases: Is There a Future Without Them?**

Cheryl L. Marks

52N **Animal Imaging Equipment: Recent Advances**

Paul D. Acton

56N **Session 5: Standardization and Education**

Lalitha K. Shankar and Virginia M. Pappas

57N **PET Standardization, NIH Findings: The Importance of Standardization of Imaging in Clinical Trials**

Lalitha K. Shankar

58N **Education and Training Activities at the NIBIB**

William Heetderks

60N **SNM Leadership Update: A Brand New World**

Virginia Pappas

61N **Health Policy Update: CMS Issues HOPPS Final Rule**

Hugh Cannon

62N **Newsbriefs**

65N **From the Literature**

INVITED PERSPECTIVE

1904 **Receptor-Mediated Tumor Targeting with Radiolabeled Peptides: There Is More to It than Somatostatin Analogs**

Giuliano Mariani, Paola A. Erba, and Alberto Signore

CLINICAL INVESTIGATIONS

1908 **Usefulness of Hybrid SPECT/CT in ^{99m}Tc-HMPAO-Labeled Leukocyte Scintigraphy for Bone and Joint Infections**

Luca Filippi and Orazio Schillaci

1914 **Smoking Cessation Normalizes Coronary Endothelial Vasomotor Response Assessed with ¹⁵O-Water and PET in Healthy Young Smokers**

Koichi Morita, Takahiro Tsukamoto, Masanao Naya, Kazuyuki Noriyasu, Masayuki Inubushi, Tohru Shiga, Chietsugu Katoh, Yuji Kuge, Hiroyuki Tsutsui, and Nagara Tamaki

1921 **Lack of Correlation of Hypoxic Cell Fraction and Angiogenesis with Glucose Metabolic Rate in Non-Small Cell Lung Cancer Assessed by ¹⁸F-Fluoromisonidazole and ¹⁸F-FDG PET**

Martin H. Cherk, Serene S. Foo, Aurora M.T. Poon, Simon R. Knight, Carmel Murone, Anthony T. Papenfuss, John I. Sachinidis, Timothy H.C. Saunter, Graeme J. O'Keefe, and Andrew M. Scott

1927 ¹⁸⁶Re-HEDP in the Treatment of Patients with Inoperable Osteosarcoma
Rizwan Syed, Jamshed Bomanji, Nagesh Nagabhushan, Irfan Kayani, Ashley Groves, Wendy Waddington, Anna Cassoni, and Peter J. Ell

1936 Correction of Head Movement on PET Studies: Comparison of Methods
Andrew J. Montgomery, Kris Thielemans, Mitul A. Mehta, Federico Turkheimer, Sanida Mustafovic, and Paul M. Grasby

CONTINUING EDUCATION

1945 Osteoporosis Redux
Brian Lentle and Daniel Worsley

BASIC SCIENCE INVESTIGATIONS

1960 NEMA NU 2-2001 Performance Measurements of an LYSO-Based PET/CT System in 2D and 3D Acquisition Modes
Brad J. Kemp, Chang Kim, John J. Williams, Alexander Ganin, and Val J. Lowe

1968 Simultaneous Acquisition of Multislice PET and MR Images: Initial Results with a MR-Compatible PET Scanner
Ciprian Catana, Yibao Wu, Martin S. Judenhofer, Jinyi Qi, Bernd J. Pichler, and Simon R. Cherry

1977 Lung Toxicity in Radioiodine Therapy of Thyroid Carcinoma: Development of a Dose-Rate Method and Dosimetric Implications of the 80-mCi Rule
George Sgouros, Hong Song, Paul W. Ladenson, and Richard L. Wahl

1985 Lung Dosimetry for Radioiodine Treatment Planning in the Case of Diffuse Lung Metastases
Hong Song, Bin He, Andrew Prideaux, Yong Du, Eric Frey, Wayne Kasecamp, Paul W. Ladenson, Richard L. Wahl, and George Sgouros

1995 Predicting Chemotherapy Response to Paclitaxel with ¹⁸F-Fluoropaclitaxel and PET
Wei-Ann Hsueh, Amanda L. Kesner, Anne Gangloff, Mark D. Pegram, Malgorzata Beryt, Johannes Czernin, Michael E. Phelps, and Daniel H.S. Silverman

2000 Favorable Biokinetic and Tumor-Targeting Properties of ^{99m}Tc-Labeled Glucosamino RGD and Effect of Paclitaxel Therapy
Kyung-Ho Jung, Kyung-Han Lee, Jin-Young Paik, Bong-Ho Ko, Jun-Sang Bae, Byung Chul Lee, Hyun Ju Sung, Dong Hyun Kim, Yearn Seong Choe, and Dae Yoon Chi

2008 Detection of α_2 -Adrenergic Receptors in Brain of Living Pig with ¹¹C-Yohimbine
Steen Jakobsen, Kasper Pedersen, Donald F. Smith, Svend B. Jensen, Ole L. Munk, and Paul Cumming

2016 Radioimaging of Light Chain Amyloid with a Fibril-Reactive Monoclonal Antibody
Jonathan S. Wall, Stephen J. Kennel, Mike Paulus, Jens Gregor, Tina Richey, James Avenell, Jeffrey Yap, David Townsend, Deborah T. Weiss, and Alan Solomon

2025 [Lys⁴⁰(Ahx-DTPA-¹¹¹In)NH₂]Exendin-4, a Very Promising Ligand for Glucagon-like Peptide-1 (GLP-1) Receptor Targeting
Damian Wild, Martin Béhé, Andreas Wicki, Daniel Storch, Beatrice Waser, Martin Gotthardt, Boris Keil, Gerhard Christofori, Jean Claude Reubi, and Helmut R. Mäcke

2034 ⁶⁴Cu-Azabicyclo[3.2.2]Nonane Thiosemicarbazone Complexes: Radiopharmaceuticals for PET of Topoisomerase II Expression in Tumors
Lihui Wei, Johnny Easmon, Ravneet K. Nagi, Brian D. Muegge, Laura A. Meyer, and Jason S. Lewis

2042 Development of a Novel ^{99m}Tc-Chelate-Conjugated Bisphosphonate with High Affinity for Bone as a Bone Scintigraphic Agent
Kazuma Ogawa, Takahiro Mukai, Yasuyuki Inoue, Masahiro Ono, and Hideo Saji

2048 PET of Vascular Endothelial Growth Factor Receptor Expression
Weibo Cai, Kai Chen, Khalid A. Mohamedali, Qizhen Cao, Sanjiv S. Gambhir, Michael G. Rosenblum, and Xiaoyuan Chen

2057 Effects of Antifolate Drugs on the Cellular Uptake of Radiofolates In Vitro and In Vivo
Cristina Müller, Matthias Brühlmeier, P. August Schubiger, and Roger Schibli

DEPARTMENTS

1903 Comments and Perspectives

2065 Book Reviews

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UPCOMING EDUCATION ARTICLES

¹⁸F-FDG PET and PET/CT in Fever of Unknown Origin
Johannes Meller, Carsten-Oliver Sahlmann, and Alexander Konrad Scheel

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