

# JNM



Official Publication of  
The Society of Nuclear Medicine

## SNM NEWSLINE

- 15N** Radiolabeled Peptides Come of Age  
*Lantz Miller*
- 32N** Nuclear Medicine and Health Care Reform  
*Lantz Miller*

## HUMAN STUDIES

- 1839** Samarium-153-EDTMP in Bone Metastases of Hormone Refractory Prostate Carcinoma: A Phase III Trial  
*Carolyn Collins, Janet F. Eary, Gary Donaldson, Cheryl Vernon, Nigel E. Bush, Stephen Petersdorf, Robert B. Livingston, Edwin E. Gordon, C. Richard Chapman and Frederick R. Applebaum*
- 1845** Effect of Motion on Thallium-201 SPECT Studies: A Simulation and Clinical Study  
*Florence M. Prigent, Mark Hyun, Daniel S. Berman and Alan Rozanski*
- 1851** Detailed Analysis of Patients with Matched Ventilation-Perfusion Defects and Chest Radiographic Opacities  
*Daniel F. Worsley, Chun K. Kim, Abass Alavi and Harold I. Palevsky*
- 1854** Abnormalities on Ventilation/Perfusion Lung Scans by Bronchoalveolar Lavage  
*C.C. Chen, M.P. Andrich and J. Shelhamer*
- 1859** Controlled Delivery of Krypton-81m Bolus in Normal Subjects: Results and Implications  
*Sylvia Verbanck, Sujatha Koneru, Miles Cohen, Stewart W. Clarke and John E. Agnew*
- 1866** Cholescintigraphy in the Diagnosis of Acute Cholecystitis: Morphine-Augmentation is Superior to Delayed Imaging  
*Chun K. Kim, Kevin K.M. Tse, Malik Juweid, P. David Mozley, Annemarie Woda and Abass Alavi*
- 1871** Left Ventricular Ejection Fraction Assessed from Gated Technetium-99m-Sestamibi SPECT  
*F. Gordon DePuey, Kenneth Nichols and Cindy Dobrinsky*
- 1877** Left Ventricular Peak Power During Exercise: A Noninvasive Approach for Assessment of Contractile Reserve  
*Alon Marmor, Diwaker Jain, Lawrence Cohen, Erez Nevo, Frans J.Th. Wackers and Barry L. Zaret*
- 1886** PET Imaging of Non-Small-Cell Lung Carcinoma with Carbon-11-Methionine: Relationship Between Radioactivity Uptake and Flow-Cytometric Parameters  
*Hideki Miyazawa, Takashi Arai, Masaaki Iio and Toshihiko Hara*
- 1892** Clinical Evaluation of Interictal Fluorine-18-Fluorodeoxyglucose PET in Partial Epilepsy  
*Thomas R. Henry, Jerome Engel, Jr. and John C. Mazziotta*

- 1899** Assessment of Coronary Reserve in Man: Comparison Between Positron Emission Tomography with Oxygen-15-Labeled Water and Intracoronary Doppler Technique  
*Pascal Merlet, Bernard Mazoyer, Luc Hittinger, Heric Valette, Jean Pierre Saal, Bernard Bendriem, Bertrand Crozatier, Alain Castaigne, Andre Syrota and Jean Luc Dubois Rande*
- 1905** Comparison of Methods for Identifying Early Methotrexate-Induced Hepatotoxicity in Patients with Rheumatoid Arthritis  
*John M. Arias, Kathryn A. Morton, James E. Albro, Gregory G. Patch, Sonia Valdivia, Harry E. Greenberg, Paul E. Christian and Frederick L. Datz*
- 1910** Biodistribution and Dosimetry of Iodine-123-IBF: A Potent Radioligand for Imaging the D2 Dopamine Receptor  
*P. David Mozley, James B. Stubbs, Hank F. Kung, Mark H. Selikson, Michael G. Stabin and Abass Alavi*
- 1918** Usefulness of Gallium-67-Citrate Scans in Patients with Acute Disseminated Tuberculosis and Comparison with Chest X-Rays  
*Chia-Hung Kao, Shyh-Jen Wang, Shu-Quinn Liao, Wan-Yu Lin and Chung-Yuan Hsu*
- 1922** Optimized Diagnostic Strategy for Neuroblastoma in Opsoclonus-Myoclonus  
*Marguerite T. Parisi, Robert S. Hattner, Katherine K. Matthey, Bruce O. Berg and E. Dayan Sandler*
- 1927** Assessment of the Efficacy of Iodine-131 for Thyroid Ablation  
*Ronald Comtois, Claudine Theriault and Pierre Del Vecchio*
- 1931** Detection of Postural Cerebral Hypoperfusion with Technetium-99m-HMPAO Brain SPECT in Patients with Cerebrovascular Disease  
*Kohei Hayashida, Yoshiaki Hirose, Tatsuro Kaminaga, Yoshio Ishida, Satoshi Imakita, Makoto Takamiya, Ichirou Yokota and Tsunehiko Nishimura*

## LABORATORY STUDIES

- 1936** Re-evaluation of Amino Acid PET Studies: Can the Protein Synthesis Rates in Brain and Tumor Tissues Be Measured In Vivo?  
*Kiichi Ishiwata, Kazuo Kubota, Matsutaro Murakami, Roko Kubota, Toru Sasaki, Shin-ichi Ishii and Michio Senda*
- 1944** Carbon-11-Forskolin: A Ligand for Visualization of the Adenylate Cyclase-Related Second Messenger System  
*Toru Sasaki, Atsuko Enta, Tadashi Nozaki, Shin-ichi Ishii and Michio Senda*
- 1949** In Vitro Uptake of Technetium-99m-Teboroxime in Carcinoma Cell Lines and Normal Cells: Comparison with Technetium-99m-Sestamibi and Thallium-201  
*Jean C. Maublant, Zheng Zhang, Maryse Rapp, Monique Ollier, Josephine Michelot and Annie Veyre*
- 1953** Labeling of Monoclonal Antibodies with Rhenium-186 Using the MAG3 Chelate for Radioimmunotherapy of Cancer: A Technical Protocol  
*Gerard W.M. Visser, Martijn Gerretsen, Jacobus D.M. Herscheid, Gordon B. Snow and Guus van Dongen*
- 1964** Technetium-99m-Labeled Hydrazino Nicotinamide Derivatized Chemotactic Peptide Analogs for Imaging Focal Sites of Bacterial Infection  
*John W. Babich, Howard Solomon, Marilyn C. Pike, Daniel Kroon, Wendy Graham, Michael J. Abrams, Ronald G.*

Tompkins, Robert H. Rubin and Alan J. Fischman

**1975 Localization of Indium-111-Immunoglobulin G, Technetium-99m-Immunoglobulin G and Indium-111-Labeled White Blood Cells at Sites of Acute Bacterial Infection in Rabbits**

Sandra A. Barrow, Wendy Graham, Shireen Jyawook, Stephen C. Dragotakes, Howard F. Solomon, John W. Babich, Robert H. Rubin and Alan J. Fischman

**CASE REPORTS**

**1980 Lobar Primary Pulmonary Lymphoma: Iodine-123-Iodoamphetamine and Thallium-201-Chloride Scintigraphic Findings**

Kazuyoshi Suga, Yoshiko Sadanaga, Kazuya Nishigauchi, Hiromichi Uchisako and Takashi Nakanishi

**1984 Cerebral Vasodilatory Capacity Mapping Using Technetium-99m-DTPA-HSA SPECT and Acetazolamide in Moyamoya Disease**

Yusuke Inoue, Toshimitsu Momose, Kikuo Machida, Norinari Honda and Kazuo Tsutsumi

**1987 Increased Cerebral Perfusion After Detachable Balloon Embolization of Carotid Cavernous Fistula on Technetium-99m-HMPAO Brain SPECT**

Tae-Sub Chung, Jong-Doo Lee, Jung-Ho Suh, Dong-Ik Kim and Chang-Yoon Park

**1990 Osteosarcoma Presenting as Intestinal Obstruction**

Michael E. Spieth, Azizullah N. Ansari, D.M. Forrester, Robyn L. Kimura, Ghada S. Assassa and Michael E. Siegel

**1992 Pancoast Tumor as a Cause of Reflex Sympathetic Dystrophy**

Vilma Derbekyan, Javier Novales-Diaz and Robert Lisbona

**1995 Quantitated Perfusion Imaging Assessing Acquired Discrete Peripheral Pulmonary Artery Stenosis**

James B. Kinney, Jr., Timothy D. Schofield, Isamu Kawabori, Stephen E. Budd and John M. Bauman

**METHODOLOGY**

**1998 Cardiac Phantom Evaluation of Simultaneously Acquired Dual-Isotope Rest Thallium-201/Stress Technetium-99m SPECT Imaging**

Val J. Lowe, Kim L. Greer, Michael W. Hanson, Ronald J. Jaszczak and R. Edward Coleman

**2006 Editorial: Simultaneous Thallium-201/Technetium-99m Dual-Isotope Cardiac SPECT: Ready for Prime Time?**

E. Gordon DePuey

**2009 Automated Iterative Three-Dimensional Registration of Positron Emission Tomography Images**

Carl K. Hoh, Magnus Dahlbom, Greg Harris, Yong Choi, Randall A. Hawkins, Michael E. Phelps and Jamshid Maddahi

**2019 Principal Axes and Surface Fitting Methods for Three-Dimensional Image Registration**

Henry Rusinek, Wai-Hon Tsui, Alejandro V. Levy, Marilyn E. Noz and Momy J. de Leon

**2025 Hepatobiliary Handling of Iodine-125-Tyr<sup>2</sup>-Octreotide and Indium-111-DTPA-D-Phe<sup>1</sup>-Octreotide by Isolated Perfused Rat Liver**

Marion de Jong, Willem H. Bakker, Wout A.P. Breeman, Marcel van der Pluijm, Peter P.M. Kooij, Theo J. Visser, Roelof Docter and Eric P. Krenning

**2030 Editorial: Hepatic Handling of Radiopharma-**

**FIRST IMPRESSIONS**

Indium-111-WBC study. Where is the uptake?  
For acquisition information, turn to page 1870.



**ceuticals: Is the In Vitro Model Useful?**

J. Fujimoto and H. Takahashi

**2032 Chromatographic Identification in Serum of Endogenously Radiolabeled Thyroid Hormones After Iodine-131 Whole-Body Scintigraphy in the Follow-up of Patients with Differentiated Thyroid Carcinoma**

Romano Bianchi, Giorgio Iervasi, Federica Matteucci, Stefano Turchi, Franco Cazzuola, C. Riccardo Bellina, Giuseppe Boni, Nicola Molea, Marco Ferdeghini, M. Giuseppina Toni and Giuliano Mariani

**2038 A Refined Method for Quantification of Myocardial Oxygen Consumption Rate Using Mean Transit Time with Carbon-11-Acetate and Dynamic PET**

Yong Choi, Sung-Cheng Huang, Randall A. Hawkins, Carl K. Hoh, Janine Krivokapich, Denis B. Buxton, Jurgen J. Ambrecht, Karl T. Sun, Michael E. Phelps and Heinrich R. Schelbert

**2044 Quantitative Brain SPECT in Alzheimer's Disease and Normal Aging**

Keith A. Johnson, Marie F. Kijewski, J. Alex Becker, Basem Garada, Andrew Satlin and B. Leonard Holman

**CLINICOPATHOLOGIC CONFERENCES**

**2049 Noninvasive Diagnosis of Cardiac Transplant Arteriopathy with Dipyridamole Thallium Scintigraphy**

Kevin K.M. Tse, Abass Alavi and Howard J. Eisen

**DEPARTMENTS**

**1909 Erratum**

**41A New Products**

**42A Calendar**

**45A Classified Advertising**

**48A JNM Direct Response**