

## SNM NEWSLINE

- 15N** NRC Final Rule on Expanded Definition of Byproduct Material
- 16N** In Memoriam: Bruce R. Line, MD  
*Barry Daly*
- 18N** Molecular Imaging Update: A Definition of Molecular Imaging  
*David A. Mankoff*
- 18N** Maintenance of Certification Update: What Is “My MOC”?  
*Lynn Barnes*
- 22N** SNM Leadership Update: State of the Profession  
*Martin P. Sandler*
- 24N** Newsbriefs
- 32N** From the Literature

## INVITED PERSPECTIVE

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*Joseph G. Rajendran and David A. Mankoff*

## CLINICAL INVESTIGATIONS

- 857** Optimized, Automated Striatal Uptake Analysis Applied to SPECT Brain Scans of Parkinson’s Disease Patients  
*I. George Zubal, Michele Early, Olive Yuan, Danna Jennings, Kenneth Marek, and John P. Seiby*
- 865** Diagnostic Performance and Prognostic Value of Extravascular Retention of <sup>123</sup>I-Labeled Serum Amyloid P Component in Systemic Amyloidosis  
*Bouke P.C. Hazenberg, Martin H. van Rijswijk, Marjolijn N. Lub-de Hooge, Edo Vellenga, Elizabeth B. Haagsma, Marcel D. Posthumus, and Pieter L. Jager*
- 873** Aging of Acute Deep Vein Thrombosis Measured by Radiolabeled <sup>99m</sup>Tc-rt-PA  
*Timothy Brighton, Julia Janssen, and S. Patrick Butler*
- 879** Total Thyroidectomy and Adjuvant Radioiodine Treatment Independently Decrease Locoregional Recurrence Risk in Childhood and Adolescent Differentiated Thyroid Cancer  
*Daria Handkiewicz-Junak, Jan Wloch, Jozef Roskosz, Jolanta Krajewska, Aleksandra Kropinska, Lech Pomorski, Aleksandra Kukulska, Andrzej Prokurat, Zbigniew Wygoda, and Barbara Jarzab*

- 889** Comparison of <sup>18</sup>F-FDG PET and Bone Scintigraphy in Detection of Bone Metastases of Thyroid Cancer  
*Shinji Ito, Katsuhiko Kato, Mitsuru Ikeda, Shingo Iwano, Naoki Makino, Masanori Tadokoro, Shinji Abe, Satoshi Nakano, Masanari Nishino, Takeo Ishigaki, and Shinji Naganawa*

- 896** Clinical Significance of Diffusely Increased <sup>18</sup>F-FDG Uptake in the Thyroid Gland  
*Dimitrios Karantanis, Trond V. Bogsrud, Gregory A. Wiseman, Brian P. Mullan, Rathana M. Subramaniam, Mark A. Nathan, Patrick J. Peller, Rebecca S. Bahn, and Val J. Lowe*

- 902** Dual-Tracer PET/CT Imaging in Evaluation of Metastatic Hepatocellular Carcinoma  
*Chi-lai Ho, Siyong Chen, David W.C. Yeung, and Thomas K.C. Cheng*

- 910** Evaluation of Image Registration in PET/CT of the Liver and Recommendations for Optimized Imaging  
*Wouter V. Vogel, Jorn A. van Dalen, Bas Wiering, Henkjan Huisman, Frans H.M. Corstens, Theo J.M. Ruers, and Wim J.G. Oyen*

- 920** Dynamic and Static Approaches to Quantifying <sup>18</sup>F-FDG Uptake for Measuring Cancer Response to Therapy, Including the Effect of Granulocyte CSF  
*Robert K. Doot, Lisa K. Dunnwald, Erin K. Schubert, Mark Muzi, Lanell M. Peterson, Paul E. Kinahan, Brenda F. Kurland, and David A. Mankoff*

- 926** Optimal Metabolite Curve Fitting for Kinetic Modeling of <sup>11</sup>C-WAY-100635  
*Songmei Wu, R. Todd Ogden, J. John Mann, and Ramin V. Parsey*

## CONTINUING EDUCATION

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*Marine Soret, Stephen L. Bacharach, and Irène Buvat*

## BASIC SCIENCE INVESTIGATIONS

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- 955** PET Measurements of Myocardial Glucose Metabolism with 1-<sup>11</sup>C-Glucose and Kinetic Modeling  
*Pilar Herrero, Zulfia Kisrieva-Ware, Carmen S. Dence, Bruce Patterson, Andrew R. Coggan, Dong-Ho Han, Yosuke Ishii, Paul Eisenbeis, and Robert J. Gropler*
- 965** Identification and Evaluation of a New Tumor Cell-Binding Peptide, FROP-1  
*Sabine Zitzmann, Susanne Krämer, Walter Mier, Ulrike Hebling, Annette Altmann, Axel Rother, Dietmar Berndorff, Michael Eisenhut, and Uwe Haberkorn*

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*Roswitha Beck, Barbara Röper, Janette Maria Carlsen, Marc Cornelis Huisman, Julia Aloisia Lebschi, Nicolaus Andratschke, Maria Picchio, Michael Souvatzoglou, Hans-Jürgen Machulla, and Morand Piert*

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*Shingo Baba, Mitsuaki Tatsumi, Takayoshi Ishimori, David L. Lilien, James M. Engles, and Richard L. Wahl*

**987 Small-Animal PET of Melanocortin 1 Receptor Expression Using a <sup>18</sup>F-Labeled  $\alpha$ -Melanocyte-Stimulating Hormone Analog**

*Zhen Cheng, Lan Zhang, Edward Graves, Zhengming Xiong, Mangal Dandekar, Xiaoyuan Chen, and Sanjiv Sam Gambhir*

**995 Theoretic Criteria for Antibody Penetration into Solid Tumors and Micrometastases**

*Greg M. Thurber, Stefan C. Zajic, and K. Dane Wittrup*

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*Sven N. Reske, Sandra Deisenhofer, Gerhard Glatting, Boris D. Zlatopolskiy, Agnieszka Morgenroth, Andreas T. J. Vogg, Andreas K. Buck, and Claudia Friesen*

**1008 Three-Dimensional Radiobiologic Dosimetry: Application of Radiobiologic Modeling to Patient-Specific 3-Dimensional Imaging-Based Internal Dosimetry**

*Andrew R. Prideaux, Hong Song, Robert F. Hobbs, Bin He, Eric C. Frey, Paul W. Ladenson, Richard L. Wahl, and George Sgouros*

**1017 Biodistribution and Radiation Dosimetry of the Synthetic Nonmetabolized Amino Acid Analogue *Anti*-<sup>18</sup>F-FACBC in Humans**

*Jonathon A. Nye, David M. Schuster, Weiping Yu, Vernon M. Camp, Mark M. Goodman, and John R. Votaw*

**1021 Assessment of Severity of Coronary Artery Stenosis in a Canine Model Using the PET Agent <sup>18</sup>F-Fluorobenzyl Triphenyl Phosphonium: Comparison with <sup>99m</sup>Tc-Tetrofosmin**

*Igal Madar, Hayden Ravert, Antony DiPaula, Yong Du, Robert F. Dannals, and Lewis Becker*

**1031 Imaging Acute Cardiac Cell Death: Temporal and Spatial Distribution of <sup>99m</sup>Tc-Labeled C2A in the Area at Risk After Myocardial Ischemia and Reperfusion**

*Xiaoguang Zhu, Zhixin Li, and Ming Zhao*

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## UPCOMING EDUCATION ARTICLES

**Assessment of Myocardial Viability in Patients with Heart Failure**

*Arend F.L. Schinkel, Don Poldermans, Abdou Elhendy, and Jeroen J. Bax*

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