**SNM NEWSLINE**

15N Image of the Year Emphasizes Gene–Brain–Behavior Relationship in Male Aggression

16N Coleman Presented with de Hevesy Nuclear Pioneer Award

18N Aebersold Award Presented to Zalutsky

19N Tetelman Award Presented to Kupinski

20N Outstanding JNM Articles for 2006

21N SNMTS Honors Member Contributions, Achievements

23N Outstanding JNMT Articles for 2006

24N Nuclear Medicine and the Stark Truth: What Are the Rules?
Thomas W. Greeson

28N McEwan Takes Office as SNM President; Gilmore Begins Term as Technologist Section President

30N Molecular Imaging Update: Molecular Imaging of Cancer
Carolyn J. Anderson

30N Maintenance of Certification Update: Self-Assessment Credit: What SNM Is Doing to Help
N. Lynn Barnes

31N SNM Leadership Update: Molecular Imaging . . . Realistically . . . An Evolution in Nuclear Medicine Practice
Alexander J. McEwan

32N SNMTS Leadership Update: Doing More . . . Together
David Gilmore

34N Health Policy Update: Policy and Regulatory News from SNM, Capitol Hill, and Beyond
Hugh Cannon

35N Newsbriefs

39N From the Literature

**INVITED PERSPECTIVE**

1039 Carbon Nanotubes: Potential Benefits and Risks of Nanotechnology in Nuclear Medicine
Raymond M. Reilly

**CLINICAL INVESTIGATIONS**

1043 Comparison of Outcomes After $^{123}$I Versus $^{131}$I Preablation Imaging Before Radiiodine Ablation in Differentiated Thyroid Carcinoma
Edward B. Silberstein

1047 Spatial Heterogeneity of Low-Grade Gliomas at the Capillary Level: A PET Study on Tumor Blood Flow and Amino Acid Uptake
Matthias T. Wyss, Silvia Hofer, Martin Hefti, Esther Bärtzchi, Catrina Uhlmann, Valerie Treyer, and Ulrich Roelcke

1053 Noninvasive Assessment of Crohn's Disease Intestinal Lesions with $^{18}$F-FDG PET/CT
Edouard Louis, Geoffrey Ancion, Arnaud Colard, Veronique Spote, Jacques Belaiche, and Roland Hustinx

1060 Effective Methods to Correct Contrast Agent–Induced Errors in PET Quantification in Cardiac PET/CT
Florian Bäther, Lars Stegger, Mohammad Dawood, Felix Range, Michael Schäfers, Roman Fischbach, Thomas Wichter, Omar Schober, and Klaus P. Schäfers

1069 Impact of Myocardial Perfusion Imaging with PET and $^{82}$Rb on Downstream Invasive Procedure Utilization, Costs, and Outcomes in Coronary Disease Management
Michael E. Merhige, William J. Breen, Victoria Shelton, Teresa Houston, Brian J. D’Arcy, and Anthony F. Perna

1077 Brown Fat Imaging with $^{18}$F-6-Fluorodopamine PET/CT, $^{18}$F-FDG PET/CT, and $^{123}$I-MIBG SPECT: A Study of Patients Being Evaluated for Pheochromocytoma
Mohiuddin Hadi, Clara C. Chen, Millie Whatley, Karel Pacak, and Jorge A. Carraquillo

1084 Comparison of SPECT/CT, SPECT, and Planar Imaging with Single- and Dual-Phase $^{99m}$Tc-Sestamibi Parathyroid Scintigraphy
William C. Lavely, Sibyll Goetze, Kent P. Friedman, Jeffrey P. Leal, Zhe Zhang, Elizabeth Garret-Mayer, Alan P. Duckiw, Ralph P. Tufano, Martha A. Zeiger, and Harvey A. Ziestacker

1090 Attenuation Correction in Myocardial Perfusion SPECT/CT: Effects of Misregistration and Value of Reregistration
Sibyll Goetze, Tracy L. Brown, William C. Lavely, Zhe Zhang, and Frank M. Bengel

1096 Comparison of Contrast-Enhanced MRI with $^{18}$F-FDG PET/$^{201}$TI SPECT in Dysfunctional Myocardium: Relation to Early Functional Outcome After Surgical Revascularization in Chronic Ischemic Heart Disease
Yen-Wen Wu, Eiji Tadamura, Masaki Yamamuro, Shotaro Kanao, Akira Marui, Keiichi Tanabara, Masashi Komeda, and Kaori Togashi

1104 Can LV Dyssynchrony as Assessed with Phase Analysis on Gated Myocardial Perfusion SPECT Predict Response to CRT?
Maureen M. Henneman, Ji Chen, Petra Dibbets-Schneider, Marcel P. Stokkel, Gabe B. Bleeker, Claudia Ipenburg, Ernst E. van der Wall, Martin J. Schalij, Ernest V. Garcia, and Jeroen J. Bax
1112 Frequent Diagnostic Errors in Cardiac PET/CT Due to Misregistration of CT Attenuation and Emission PET Images: A Definitive Analysis of Causes, Consequences, and Corrections
K. Lance Gould, Tinsu Pan, Catalin Loghin, Nils P. Johnson, Ashrith Guha, and Stefano Sdringola

1122 Quantitative ⁸²Rb PET/CT: Development and Validation of Myocardial Perfusion Database
Cesar A. Santana, Russell D. Folks, Ernest V. Garcia, Liudmila Verdes, Rupan Sanyal, Jon Hainer, Marcelo F. Di Carli, and Fabio P. Esteves

1129 ¹⁸F-FDG PET Database of Longitudinally Confirmed Healthy Elderly Individuals Improves Detection of Mild Cognitive Impairment and Alzheimer’s Disease
Lisa Mosconi, Wai Hon Tsui, Alberto Pupi, Susan De Santi, Alexander Drzezga, Satoshi Minoshima, and Mony J. de Leon

1135 Assessment of Myocardial Viability in Patients with Heart Failure
Arend F.L. Schinkel, Don Poldermans, Abdou Elhendy, and Jeroen J. Bax

1147 Modulation of Dopaminergic and Glutamatergic Brain Function: PET Studies on Parkinsonian Rats
Daniela Pellegrino, Francesca Cicchetti, Xukui Wang, Aijun Zhu, Mexiang Yu, Martine Saint-Pierre, and Anna-Lisa Brownell

1154 Disulfiram Inhibits Defluorination of ¹⁸F-FCWAY, Reduces Bone Radioactivity, and Enhances Visualization of Radioligand Binding to Serotonin 5-HT, Receptors in Human Brain
Yong Hoon Ryu, Jeih-San Liow, Sami Zoghbi, Masahiro Fujita, Jerry Collins, Dnyanesh Tipre, Janet Sangare, Jinsoo Hong, Victor W. Pike, and Robert B. Innis

1162 ⁶⁴Cu-Labeled Tetrameric and Octameric RGD Peptides for Small-Animal PET of Tumor αvβ₃ Integrin Expression
Zi-bo Li, Weibo Cai, Qizhen Cao, Kai Chen, Zhanhong Wu, Lina He, and Xiaoyuan Chen

1172 Small-Animal PET of Tumor Angiogenesis Using a ⁷⁶Br-Labeled Human Recombinant Antibody Fragment to the ED-B Domain of Fibronectin
Raffaella Rossin, Dietmar Berndorff, Matthias Friebe, Ludger M. Dinkelborg, and Michael J. Welch

1180 Tumor Targeting with Antibody-Functionalized, Radiolabeled Carbon Nanotubes
Michael R. McDevitt, Debjit Chattopadhyay, Barry J. Kappel, Jaspreet Singh Jaggi, Scott R. Schiffman, Christophe Antczak, Jon T. Njardarson, Renier Brentjens, and David A. Scheinberg

1190 Radiopharmaceutical Chemistry of Targeted Radiotherapeutics, Part 3: α-Particle-Induced Radiolytic Effects on the Chemical Behavior of ²¹¹At
Oscar R. Pozzi and Michael R. Zalutsky

1197 A New Tool for Molecular Imaging: The Microvasc volumetric β Blood Counter
Laurence Convert, Guillaume Morin-Brassard, Jules Cadorette, Mélanie Archambault, M’hamed Bentourkia, and Roger Lecomte

1207 Evaluation of the Metabotropic Glutamate Receptor Subtype 5 Using PET and ¹¹C-ABP688: Assessment of Methods
Valerie Treyer, Johannes Streffer, Matthias T. Wyss, Andrea Betto, Simon M. Ametamey, Uta Fischer, Mark Schmidt, Fabrizio Gasparini, Christoph Hock, and Alfred Buck

1216 ¹³N-Ammonia PET as a Measurement of Hindlimb Perfusion in a Mouse Model of Peripheral Artery Occlusive Disease
Iván Peñuelas, Xabier L. Aranguren, Gloria Abizanda, Josep Maria Martí-Climent, Maialen Uriz, Margarita Ecay, Maria Collantes, Gemma Quincoces, José A. Richter, and Felipe Prósper