

## SNMMI NEWSLINE

- 9N** SNMMI 2015 Image of the Year
- 9N** JNM Impact Factor Rises
- 10N** ABR/ABNM Task Force: Steps That Would Dissolve ABNM
- 11N** SNMMI Leadership Response to ABR/ABNM Task Force Proposal  
*Peter Herscovitch*
- 12N** NRC Opens Comment Period on LNT Theory and Protection Standards
- 13N** New Officers for SNMMI and SNMMI-TS
- 16N** From the Exhibitors' Hall: SNMMI Annual Meeting 2015  
*George Zubal*
- 20N** SNMMI Leadership Update: SNMMI 2015 Annual Meeting: Focus on Quality  
*Virginia Pappas*

## INVITED PERSPECTIVES

- 1131** PSMA PET in Prostate Cancer  
*Hossein Jadvar*
- 1133** The Value of Establishing the Quantitative Accuracy of PET/CT Imaging  
*Paul E. Kinahan, David A. Mankoff, and Hannah M. Linden*
- 1135** Imaging T Cells In Vivo  
*Dario Neri*

## CLINICAL INVESTIGATIONS

- 1137** Repeatability of  $^{18}\text{F}$ -FDG PET/CT in Advanced Non-Small Cell Lung Cancer: Prospective Assessment in 2 Multicenter Trials  
*Wolfgang A. Weber, Constantine A. Gatsonis, P. David Mozley, Lucy G. Hanna, Anthony F. Shields, Denise R. Aberle, Ramaswamy Govindan, Drew A. Torigian, Joel S. Karp, Jian Q. (Michael) Yu, Rathan M. Subramaniam, Robert A. Halvorsen, and Barry A. Siegel*
- 1144**  $^{15}\text{O}$ -Water PET Study of the Effect of Imatinib, a Selective Platelet-Derived Growth Factor Receptor Inhibitor, Versus Anakinra, an IL-1R Antagonist, on Water-Perfusable Tissue Fraction in Colorectal Cancer Metastases  
*Mark Lubberink, Sanjeep S.V. Golla, My Jonasson, Kristofer Rubin, Bengt Glimelius, Jens Sörensen, and Peter Nygren*

- 1150** Prognostic Value of Pretherapeutic Tumor-to-Blood Standardized Uptake Ratio in Patients with Esophageal Carcinoma  
*Rebecca Bütof, Frank Hofheinz, Klaus Zöpfel, Tobias Stadelmann, Julia Schmollack, Christina Jentsch, Steffen Löck, Jörg Kotzerke, Michael Baumann, and Jörg van den Hoff*
- 1157** Intraarterial Hepatic SPECT/CT Imaging Using  $^{99\text{m}}\text{Tc}$ -Macroaggregated Albumin in Preparation for Radioembolization  
*Vanessa L. Gates, Nimarta Singh, Robert J. Lewandowski, Stewart Spies, and Riad Salem*
- 1163** Accuracy of  $^{18}\text{F}$ -FDG PET/CT, Multidetector CT, and MR Imaging in the Diagnosis of Pancreatic Cysts: A Prospective Single-Center Study  
*Saila Kauhanen, Irina Rinta-Kiikka, Jukka Kemppainen, Juha Grönroos, Sami Kajander, Marko Seppänen, Kalle Alanen, Risto Gullichsen, Pirjo Nuutila, and Jari Ovaska*
- 1169**  $^{68}\text{Ga}$ - and  $^{177}\text{Lu}$ -Labeled PSMA I&T: Optimization of a PSMA-Targeted Theranostic Concept and First Proof-of-Concept Human Studies  
*Martina Weineisen, Margret Schottelius, Jakub Simecek, Richard P. Baum, Akin Yildiz, Seval Beykan, Harshad R. Kulkarni, Michael Lassmann, Ingo Klette, Matthias Eiber, Markus Schwaiger, and Hans-Jürgen Wester*
- 1177** Prognostic Factors in Patients Treated with  $^{223}\text{Ra}$ : The Role of Skeletal Tumor Burden on Baseline  $^{18}\text{F}$ -Fluoride PET/CT in Predicting Overall Survival  
*Elba C. Etchebehere, John C. Araujo, Patricia S. Fox, Nancy M. Swanston, Homer A. Macapinlac, and Eric M. Rohren*
- 1185** Prospective Comparison of  $^{18}\text{F}$ -Fluoromethylcholine Versus  $^{68}\text{Ga}$ -PSMA PET/CT in Prostate Cancer Patients Who Have Rising PSA After Curative Treatment and Are Being Considered for Targeted Therapy  
*Joshua J. Morigi, Phillip D. Stricker, Pim J. van Leeuwen, Reuben Tang, Bao Ho, Quoc Nguyen, George Hruby, Gerald Fogarty, Raj Jagavkar, Andrew Kneebone, Adam Hickey, Stefano Fanti, Lisa Tarlinton, and Louise Emmett*
- 1191** Metabolic Tumor Volume on  $^{18}\text{F}$ -FDG PET/CT Improves Preoperative Identification of High-Risk Endometrial Carcinoma Patients  
*Jenny A. Husby, Bernt C. Reitan, Martin Biermann, Jone Trovik, Line Bjørge, Inger J. Magnussen, Øyvind O. Salvesen, Helga B. Salvesen, and Ingrid S. Haldorsen*
- 1199** Relative  $^{11}\text{C}$ -PiB Delivery as a Proxy of Relative CBF: Quantitative Evaluation Using Single-Session  $^{15}\text{O}$ -Water and  $^{11}\text{C}$ -PiB PET  
*Yin J. Chen, Bedda L. Rosario, Wenzhu Mowrey, Charles M. Laymon, Xueling Lu, Oscar L. Lopez, William E. Klunk, Brian J. Lopresti, Chester A. Mathis, and Julie C. Price*
- 1206** Metabolic Activity of Red Nucleus and Its Correlation with Cerebral Cortex and Cerebellum: A Study Using a High-Resolution Semiconductor PET System  
*Kenji Hirata, Naoya Hattori, Wataru Takeuchi, Tohru Shiga, Yuichi Morimoto, Kikuo Umegaki, Kentaro Kobayashi, Osamu Manabe, Shozo Okamoto, and Nagara Tamaki*

**1212 Pulmonary Scintigraphy for the Diagnosis of Acute Pulmonary Embolism: A Survey of Current Practices in Australia, Canada, and France**

*Pierre-Yves Le Roux, Matthieu Pelletier-Galarneau, Romain De Laroche, Michael S. Hofman, Lionel S. Zuckier, Paul Roach, Jean-Philippe Vuillez, Rodney J. Hicks, Grégoire Le Gal, and Pierre-Yves Salaun*

**1218 Fetal Radiation Dose from <sup>18</sup>F-FDG in Pregnant Patients Imaged with PET, PET/CT, and PET/MR**

*Paolo Zanotti-Fregonara, Richard Laforest, and Jerold W. Wallis*

**1223 <sup>18</sup>F-Fluoromisonidazole Quantification of Hypoxia in Human Cancer Patients Using Image-Derived Blood Surrogate Tissue Reference Regions**

*Mark Muzi, Lanell M. Peterson, Janet N. O'Sullivan, James R. Fink, Joseph G. Rajendran, Lena J. McLaughlin, John P. Muzi, David A. Mankoff, and Kenneth A. Krohn*

### CONTINUING EDUCATION

**1229 Gastrointestinal Motility, Part 1: Esophageal Transit and Gastric Emptying**

*Alan H. Maurer*

### BASIC SCIENCE INVESTIGATIONS

**1239 Significant Therapeutic Efficacy with Combined Radioimmunotherapy and Cetuximab in Preclinical Models of Colorectal Cancer**

*Vessela Vassileva, Vineeth Rajkumar, Mario Mazzantini, Mathew Robson, Adam Badar, Surinder Sharma, Erik Årstad, Daniel Hochhauser, Mark F. Lythgoe, Geoffrey M. Boxer, and Rosmund Barbara Pedley*

**1246 Imaging of Secreted Extracellular Periostin, an Important Marker of Invasion in the Tumor Microenvironment in Esophageal Cancer**

*Pedram Heidari, Shadi A. Esfahani, Nazife S. Turker, Gabrielle Wong, Timothy C. Wang, Anil K. Rustgi, and Umar Mahmood*

**1252 Assessment of Traumatic Brain Injury by Increased <sup>64</sup>Cu Uptake on <sup>64</sup>CuCl<sub>2</sub> PET/CT**

*Fangyu Peng, Otto Muzik, Joshua Gatson, Steven G. Kernie, and Ramon Diaz-Arrastia*

**1258 Immuno-PET of Murine T Cell Reconstitution Postadoptive Stem Cell Transplantation Using Anti-CD4 and Anti-CD8 Cys-Diabodies**

*Richard Tavaré, Melissa N. McCracken, Kirstin A. Zettlitz, Felix B. Salazar, Tove Olafsen, Owen N. Witte, and Anna M. Wu*

**1265 PET Imaging of Macrophage Mannose Receptor-Expressing Macrophages in Tumor Stroma Using <sup>18</sup>F-Radiolabeled Camelid Single-Domain Antibody Fragments**

*Anneleen Blykers, Steve Schoonooghe, Catarina Xavier, Kevin D'hoel, Danya Laoui, Matthias D'Huyvetter, Ilse Vaneycken, Frederik Cleeren, Guy Bormans, Johannes Heemskerk, Geert Raes, Patrick De Baetselier, Tony Lahoutte, Nick Devoogdt, Jo A. Van Ginderachter, and Vicky Cavelliers*

**1272 PET Imaging of Tumor-Associated Macrophages with <sup>89</sup>Zr-Labeled High-Density Lipoprotein Nanoparticles**

*Carlos Pérez-Medina, Jun Tang, Dalya Abdel-Atti, Brandon Hogstad, Miriam Merad, Edward A. Fisher, Zahi A. Fayad, Jason S. Lewis, Willem J.M. Mulder, and Thomas Reiner*

**1278 In Vivo Cancer Dual-Targeting and Dual-Modality Imaging with Functionalized Quantum Dots**

*Kongzhen Hu, Hongliang Wang, Ganghua Tang, Tingting Huang, Xiaolan Tang, Xiang Liang, Shaobo Yao, and Dahong Nie*

**1285 Beyond <sup>18</sup>F-FDG: Characterization of PET/CT and PET/MR Scanners for a Comprehensive Set of Positron Emitters of Growing Application—<sup>18</sup>F, <sup>11</sup>C, <sup>89</sup>Zr, <sup>124</sup>I, <sup>68</sup>Ga, and <sup>90</sup>Y**

*A. Therese Soderlund, Jasper Chaal, Gabriel Tjio, John J. Totman, Maurizio Conti, and David W. Townsend*

### DEPARTMENTS

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**1293 Letters to the Editor**

**8A This Month in JNM**

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### UPCOMING EDUCATION ARTICLE

**Gastrointestinal Motility, Part 2: Small-Bowel and Colon Transit**

*Alan H. Maurer*

For CE credit, you can access educational activities through the SNMMI website (<http://www.snmlearningcenter.org>)