

## SNM NEWSLINE

- 13N** Fowler Awarded National Medal of Science  
*Joanna Fowler*
- 13N** NMT Master's Degree Program Initiated
- 14N** SNM Leadership Update: Young Professionals: Their Importance to SNM Now and in the Future  
*Michael Graham*
- 15N** Molecular Imaging Update: MICOE Task Force Looks to the Future  
*Umar Mahmood*
- 16N** Newsbriefs
- 21N** From the Literature

## FOCUS ON MOLECULAR IMAGING

- 1743** The Advantages of Nanoparticles for PET  
*Michael J. Welch, Craig J. Hawker, and Karen L. Wooley*

## INVITED PERSPECTIVE

- 1747** Quantitative Radionuclide Studies of Bone  
*Glen M. Blake, Michelle L. Frost, and Ignac Fogelman*

## CLINICAL INVESTIGATIONS

- 1751** Prediction of the Need for Surgical Intervention in Obstructive Crohn's Disease by  $^{18}\text{F}$ -FDG PET/CT  
*Heather A. Jacene, Philip Ginsburg, John Kwon, Geoffrey C. Nguyen, Elizabeth A. Montgomery, Theodore M. Bayless, and Richard L. Wahl*
- 1760** Assessment of Interobserver Reproducibility in Quantitative  $^{18}\text{F}$ -FDG PET and CT Measurements of Tumor Response to Therapy  
*Heather A. Jacene, Sophie Leboulleux, Shingo Baba, Daniel Chatzifotiadis, Behnaz Goudarzi, Oleg Teytelbaum, Karen M. Horton, Ihab Kamel, Katarzyna J. Macura, Hua-Ling Tsai, Jeanne Kowalski, and Richard L. Wahl*
- 1770**  $^{18}\text{F}$ -FMT Uptake Seen Within Primary Cancer on PET Helps Predict Outcome of Non-Small Cell Lung Cancer  
*Kyoichi Kaira, Noboru Oriuchi, Kimihiro Shimizu, Hideyuki Tominaga, Noriko Yanagitani, Noriaki Sunaga, Tamotsu Ishizuka, Yoshikatsu Kanai, Masatomo Mori, and Keigo Endo*
- 1777** Chemotherapy Response Monitoring of Colorectal Liver Metastases by Dynamic Gd-DTPA-Enhanced MRI Perfusion Parameters and  $^{18}\text{F}$ -FDG PET Metabolic Rate  
*Dennis Vriens, Hanneke W.M. van Laarhoven, Jack J.A. van Asten, Paul F.M. Krabbe, Eric P. Visser, Arend Heerschap, Cornelis J.A. Punt, Lioe-Fee de Geus-Oei, and Wim J.G. Oyen*

- 1785**  $^{99\text{m}}\text{Tc}$ -MIBI Imaging in the Presurgical Characterization of Thyroid Follicular Neoplasms: Relationship to Multidrug Resistance Protein Expression  
*Enrico Saggiorato, Tiziana Angusti, Rosy Rosas, Morena Martinese, Monica Finessi, Federico Arecco, Edoardo Trevisiol, Nicoletta Bergero, Barbara Puligheddu, Marco Volante, Valerio Podio, Mauro Papotti, and Fabio Orlandi*

- 1794** Using Cerebral White Matter for Estimation of Nondisplaceable Binding of 5-HT $_{1A}$  Receptors in Temporal Lobe Epilepsy  
*Giampietro Giovacchini, Shielah Conant, Peter Herscovitch, and William H. Theodore*
- 1801** Neuroinflammation in Schizophrenia-Related Psychosis: A PET Study  
*Janine Doorduyn, Erik F.J. de Vries, Antoon T.M. Willemsen, Jan Cees de Groot, Rudi A. Dierckx, and Hans C. Klein*
- 1808** Effects of Alendronate on Bone Metabolism in Glucocorticoid-Induced Osteoporosis Measured by  $^{18}\text{F}$ -Fluoride PET: A Prospective Study  
*Kenzo Uchida, Hideaki Nakajima, Tsuyoshi Miyazaki, Takafumi Yayama, Hideo Kawahara, Shigeru Kobayashi, Tatsuro Tsuchida, Hidehiko Okazawa, Yasuhisa Fujibayashi, and Hisatoshi Baba*

## BRIEF COMMUNICATION

- 1815** Downregulation of  $^{18}\text{F}$ -FDG Uptake in PET as an Early Pharmacodynamic Effect in Treatment of Non-Small Cell Lung Cancer with the mTOR Inhibitor Everolimus  
*Lucia Nogová, Ronald Boellaard, Carsten Kobe, Nikie Hoetjes, Thomas Zander, Stefan Hubert Gross, Sasa Dimitrijevic, Theodore Pellas, Wolfgang Eschner, Katja Schmidt, Christopher Bangard, Wendy Hayes, Roman K. Thomas, Markus Dietlein, Giuseppe Giaccone, Otto S. Hoekstra, Adriaan A. Lammertsma, and Jürgen Wolf*

## CONTINUING EDUCATION

- 1820**  $^{18}\text{F}$ -FDG Uptake in Lung, Breast, and Colon Cancers: Molecular Biology Correlates and Disease Characterization  
*Hossein Jadvar, Abass Alavi, and Sanjiv S. Gambhir*

## BASIC SCIENCE INVESTIGATIONS

- 1828** Radiation Dosimetry of  $^{89}\text{Zr}$ -Labeled Chimeric Monoclonal Antibody U36 as Used for Immuno-PET in Head and Neck Cancer Patients  
*Pontus K.E. Börjesson, Yvonne W.S. Jauw, Remco de Bree, J.C. Roos, Jonas A. Castelijns, C. René Leemans, Guus A.M.S. van Dongen, and Ronald Boellaard*
- 1837** Dosimetry of  $^{90}\text{Y}$ -Ibritumomab Tiuxetan as Consolidation of First Remission in Advanced-Stage Follicular Lymphoma: Results from the International Phase 3 First-Line Indolent Trial  
*Angelika Bischof Delaloye, Cristian Antonescu, Thomas Louton, Jens Kuhlmann, and Anton Hagenbeek*

- 1844** <sup>124</sup>I PET-Based 3D-RD Dosimetry for a Pediatric Thyroid Cancer Patient: Real-Time Treatment Planning and Methodologic Comparison  
*Robert F. Hobbs, Richard L. Wahl, Martin A. Lodge, Mehrbod S. Javadi, Steve Y. Cho, David T. Chien, Marge E. Ewertz, Caroline E. Esaias, Paul W. Ladenson, and George Sgouros*
- 1848** <sup>18</sup>F-FDG Small-Animal PET/CT Differentiates Trastuzumab-Responsive from Unresponsive Human Breast Cancer Xenografts in Athymic Mice  
*Kristin McLarty, Aisha Fasih, Deborah A. Scollard, Susan J. Done, Douglass C. Vines, David E. Green, Danny L. Costantini, and Raymond M. Reilly*
- 1857** Using Dual-Tracer PET to Predict the Biologic Behavior of Human Colorectal Cancer  
*Wang Hui, Zhang Jinming, Tian Jiahe, Qu Baolin, Li Tianran, Chen Yingmao, Liu Jian, and Wang Shan*
- 1865** PET of Malignant Melanoma Using <sup>18</sup>F-Labeled Metallopeptides  
*Gang Ren, Zhe Liu, Zheng Miao, Hongguang Liu, Murugesan Subbarayan, Frederick T. Chin, Lan Zhang, Sanjiv S. Gambhir, and Zhen Cheng*
- 1873** Targeting the  $\alpha_v\beta_3$  Integrin for Small-Animal PET/CT of Osteolytic Bone Metastases  
*Thaddeus J. Wadas, Hongju Deng, Jennifer E. Sprague, Alexander Zheleznyak, Katherine N. Weilbaeher, and Carolyn J. Anderson*
- 1881** Reporter Gene PET for Monitoring Survival of Transplanted Endothelial Progenitor Cells in the Rat Heart After Pretreatment with VEGF and Atorvastatin  
*Takahiro Higuchi, Martina Anton, Antti Saraste, Katja Dumler, Jaroslav Pelisek, Stephan G. Nekolla, Frank M. Bengel, and Markus Schwaiger*
- 1887** Preclinical Properties of <sup>18</sup>F-AV-45: A PET Agent for A $\beta$  Plaques in the Brain  
*Seok Rye Choi, Geoff Golding, Zhiping Zhuang, Wei Zhang, Nathaniel Lim, Franz Hefti, Tyler E. Benedum, Michael R. Kilbourn, Daniel Skovronsky, and Hank F. Kung*

- 1895** Synthesis and Biologic Study of IV-14, a New Ribonucleoside Radiotracer for Tumor Visualization  
*Boris D. Zlatopolskiy, Agnieszka Morgenroth, Falk H.-G. Kunkel, Elizaveta A. Urusova, Cornelia Dinger, Thomas Kull, Christian Lepping, and Sven N. Reske*
- 1904** <sup>11</sup>C-PK11195 PET for the In Vivo Evaluation of Neuroinflammation in the Rat Brain After Cortical Spreading Depression  
*Yilong Cui, Tadayuki Takashima, Misato Takashima-Hirano, Yasuhiro Wada, Miho Shukuri, Yasuhisa Tamura, Hisashi Doi, Hirotaka Onoe, Yosky Kataoka, and Yasuyoshi Watanabe*

## DEPARTMENTS

- 1912** Book Reviews
- 11A** This Month in JNM
- 28A** Recruitment Advertising

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## UPCOMING EDUCATION ARTICLES

**SPECT in Acute Pulmonary Embolism**  
*Paul D. Stein, Leonard M. Freeman, H. Dirk Sostman, Lawrence R. Goodman, Pamela K. Woodard, David P. Naidich, Alexander Gottschalk, Dale L. Bailey, Fadi Matta, Abdo Y. Yaekoub, Charles A. Hales, Russell D. Hull, Kenneth V. Leeper, Jr., Victor F. Tapson, and John G. Weg*

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