SNMMI NEWSLINE

9N 2016 SNMMI Highlights Lecture: General Nuclear Medicine
Patrick M. Colletti

13N SNMMI Begins Release of AUC for High-Value Nuclear Medicine Procedures

14N Appropriate Use Criteria for Bone Scintigraphy in Prostate and Breast Cancer: Summary and Excerpts

18N SNMMI Leadership Update: The SNMMI Annual Meeting: Reaching New Heights in the Mile-High City
Virginia Pappas

19N Newsbriefs

CONTINUING EDUCATION

523 Repeatability of SUV in Oncologic 18F-FDG PET
Martin A. Lodge

FOCUS ON MOLECULAR IMAGING

533 Metabolic Imaging of Glutamine in Cancer
Lin Zhu, Karl Ploessl, Rong Zhou, David Mankoff, and Hank F. Kung

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Basic

538 Practical Immuno-PET Radiotracer Design Considerations for Human Immune Checkpoint Imaging

547 Fluorescence-Based Molecular Imaging of Porcine Urinary Bladder Sentinel Lymph Nodes
Hak J. Lee, Christopher V. Barback, Carl K. Hoh, Zhengtao Qin, Kareem Kader, David J. Hall, David R. Vera, and Christopher J. Kane

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554 ■ FEATURED TRANSLATIONAL SCIENCE ARTICLE. Synthesis and Evaluation of the Estrogen Receptor β-Selective Radioligand 2-18F-Fluoro-6-(6-Hydroxynaphthalen-2-yl)Pyridin-3-ol: Comparison with 16α-18F-Fluoro-17β-Estradiol
Inês F. Antunes, Aren van Waarde, Rudi A.I.O Dierckx, Elisabeth G.E. de Vries, Geke A.P. Hapers, and Erik F.J. de Vries

Clinical

560 ■ INVITED PERSPECTIVE. Functional Estrogen Receptor Imaging Before Neoadjuvant Therapy for Primary Breast Cancer
Amy M. Fowler and Hannah M. Linden

563 A Randomized Feasibility Study of 18F-Fluoroestradiol PET to Predict Pathologic Response to Neoadjuvant Therapy in Estrogen Receptor–Rich Postmenopausal Breast Cancer
Sun Young Chae, Sung-Bae Kim, Sei Hyun Ahn, Hye Ok Kim, Dok Hyun Yoon, Jin-Hee Ahn, Kyung Hae Jung, Sangwon Han, Seung Jun Oh, Sang Ju Lee, Hee Jeong Kim, Byung Ho Son, Gyungyuh Gong, Hyo Sang Lee, and Dae Hyuk Moon

569 ■ FEATURED ARTICLE OF THE MONTH. Associations Between Somatic Mutations and Metabolic Imaging Phenotypes in Non–Small Cell Lung Cancer
Stephen S.F. Yip, John Kim, Thibaud P. Coroller, Chintant Parmar, Emmanuel Rios Velazquez, Elizabeth Huynh, Raymond H. Mak, and Hugo J.W.L. Aerts

577 Posttreatment PET/CT Rather Than Interim PET/CT Using Deauville Criteria Predicts Outcome in Pediatric Hodgkin Lymphoma: A Prospective Study Comparing PET/CT with Conventional Imaging
Sameer Bakhshi, Sainath Bhethanabhotla, Rakesh Kumar, Krishankant Agarwal, Punit Sharma, Sanjay Thulkar, Arun Malhotra, Deepa Dhawan, and Sreenivas Vishnuhatla

584 18F-FET PET Uptake Characteristics in Patients with Newly Diagnosed and Untreated Brain Metastasis
Marcus Untertrainer, Norbert Gallikos, Bogdana Suchorska, Lara-Caroline Kowalew, Vera Wenter, Christine Schmid-Tannwald, Maximilian Niyazi, Peter Bartenstein, Karl-Josef Langen, and Nathalie L. Albert

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590 Novel “Add-On” Molecule Based on Evans Blue Confers Superior Pharmacokinetics and Transforms Drugs to Theranostic Agents
Haojun Chen, Orit Jacobson, Gang Niu, Ido D. Weiss, Dale O. Kiesewetter, Yi Liu, Ying Ma, Hua Wu, and Xiaoyuan Chen

598 Cure of Human Ovarian Carcinoma Solid Xenografts by Fractionated α-Radioimmunotherapy with 211At-MX35-F(ab’9)2: Influence of Absorbed Tumor Dose and Effect on Long-Term Survival
Tom Bäck, Nicolas Chouin, Sture Lindegren, Helena Kahu, Holger Jensen, Per Albertsson, and Stig Palm

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605 13N-Ammonia PET/CT Detection of Myocardial Perfusion Abnormalities in Beagle Dogs After Local Heart Irradiation
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Chi-Cheng Huang, Chun-Hu Wu, Ya-Yao Huang, Kai-Yuan Tzen, Szu-Fu Chen, Miao-Ling Tsai, and Hsiao-Ming Wu
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623 Modeling Strategies for Quantification of In Vivo 18F-AV-1451 Binding in Patients with Tau Pathology
Andreas Hahn, Martin Schain, Maria Erlandsson, Petter Sjölin, Gregory M. James, Olof T. Strandberg, Douglas Hägerström, Rupert Lanzenberger, Jonas Jögi, Tomas G. Olsson, Ruben Smith, and Oskar Hansson

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639 Predicting Regional Pattern of Longitudinal β-Amyloid Accumulation by Baseline PET
Tengfei Guo, Matthias Brendel, Timo Grimmer, Axel Rominger, and Igor Yakushev, for the Alzheimer’s Disease Neuroimaging Initiative

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646 Hybrid Surgical Guidance: Does Hardware Integration of γ- and Fluorescence Imaging Modalities Make Sense?
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651 Spectral Clustering Predicts Tumor Tissue Heterogeneity Using Dynamic 18F-FDG PET: A Complement to the Standard Compartamental Modeling Approach
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658 Optimization of Image Reconstruction for 90Y Selective Internal Radiotherapy on a Lutetium Yttrium Orthosilicate PET/CT System Using a Bayesian Penalized Likelihood Reconstruction Algorithm
Lisa M. Rowley, Kevin M. Bradley, Philip Boardman, Aida Hallam, and Daniel R. McGowan

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665 99mTc-Duramycin SPECT Imaging of Early Tumor Response to Targeted Therapy: A Comparison with 18F-FDG PET
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671 In Vivo PET Imaging of the Cancer Integrin αvβ6 Using 68Ga-Labeled Cyclic RGD Nonapeptides
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678 Assessment of P-Glycoprotein Transport Activity at the Human Blood–Retina Barrier with (R)-11C-Verapamil PET
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