

SNMMI NEWSLINE

- 11N** Brookhaven National Laboratory: Radioisotopes for Medical Imaging and Disease Treatment
Karen McNulty Walsh
- 13N** Appropriate Use Criteria for Ventilation–Perfusion Imaging in Pulmonary Embolism: Summary and Excerpts
- 16N** 2017 Henkin Fellowships Awarded
- 17N** SNMMI Leadership Update: Collaborative Endeavors
Sally W. Schwarz
- 18N** Newsbriefs
- 19N** From the Literature

HOT TOPICS

- 687** ^{68}Ga or ^{18}F for Prostate Cancer Imaging?
Claudia Kesch, Clemens Kratochwil, Walter Mier, Klaus Kopka, and Frederik L. Giesel

THE STATE OF THE ART

- 689** Harnessing Preclinical Molecular Imaging to Inform Advances in Personalized Cancer Medicine
Peter M. Clark, Victoria A. Ebiana, Laura Gosa, Timothy F. Cloughesy, and David A. Nathanson

COMMENTARY

- 697** Prescribed Activity of ^{131}I Therapy in Differentiated Thyroid Cancer
Douglas Van Nostrand

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- 700** Influence of Bevacizumab on Blood–Brain Barrier Permeability and O-(2- ^{18}F -Fluoroethyl)-L-Tyrosine Uptake in Rat Gliomas
Carina Stegmayr, Dennis Oliveira, Nicole Niemietz, Antje Willuweit, Philipp Lohmann, Norbert Galldiks, N. Jon Shah, Johannes Ermert, and Karl-Josef Langen
- 706** ■ **FEATURED BASIC SCIENCE ARTICLE.** Detection of Micrometastases Using SPECT/Fluorescence Dual-Modality Imaging in a CEA-Expressing Tumor Model
Marlène C.H. Hekman, Mark Rijpkema, Desirée L. Bos, Egbert Oosterwijk, David M. Goldenberg, Peter F.A. Mulders, and Otto C. Boerman

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- 711** ■ **FEATURED ARTICLE OF THE MONTH.** Molecular Drug Imaging: ^{89}Zr -Bevacizumab PET in Children with Diffuse Intrinsic Pontine Glioma
Marc H. Jansen, Sophie E.M. Veldhuijzen van Zanten, Dannis G. van Vuurden, Marc C. Huisman, Danielle J. Vugts, Otto S. Hoekstra, Guus A. van Dongen, and Gert-Jan L. Kaspers

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- 717** Comparison of Empiric Versus Whole-Body/Blood Clearance Dosimetry–Based Approach to Radioactive Iodine Treatment in Patients with Metastases from Differentiated Thyroid Cancer
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- 723** Predicting Response to Neoadjuvant Chemoradiotherapy in Esophageal Cancer with Textural Features Derived from Pretreatment ^{18}F -FDG PET/CT Imaging
Roelof J. Beukinga, Jan B. Hulshoff, Lisanne V. van Dijk, Christina T. Muijs, Johannes G.M. Burgerhof, Gursah Kats-Ugurlu, Riemer H.J.A. Slart, Cornelis H. Slump, Véronique E.M. Mul, and John Th.M. Plukker
- 730** ^{18}F -FDG PET/CT Can Predict Survival of Advanced Hepatocellular Carcinoma Patients: A Multicenter Retrospective Cohort Study
Sae Jung Na, Jin Kyoung Oh, Seung Hyup Hyun, Jeong Won Lee, Il Ki Hong, Bong-Il Song, Tae-Sung Kim, Jae Seon Eo, Sung Won Lee, Ie Ryung Yoo, Yong An Chung, and Mijin Yun
- 737** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** Clinical Indications and Impact on Management: Fourth and Subsequent Posttherapy Follow-up ^{18}F -FDG PET/CT Scans in Oncology Patients
Mehdi Taghipour, Charles Marcus, Sara Sheikhabaei, Esther Mena, Shwetha Prasad, Abhinav K. Jha, Lilja Solnes, and Rathan M. Subramaniam

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- 744** Parametric Net Influx Rate Images of ^{68}Ga -DOTATOC and ^{68}Ga -DOTATATE: Quantitative Accuracy and Improved Image Contrast
Ezgi Ilan, Mattias Sandström, Irina Velikyana, Anders Sundin, Barbro Eriksson, and Mark Lubberink

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- 750** The Clinical Impact of Additional Late PET/CT Imaging with ^{68}Ga -PSMA-11 (HBED-CC) in the Diagnosis of Prostate Cancer
Ali Afshar-Oromieh, Lars Peter Sattler, Walter Mier, Boris A. Hadaschik, Jürgen Debus, Tim Holland-Letz, Klaus Kopka, and Uwe Haberkorn
- 756** The Impact of Somatostatin Receptor–Directed PET/CT on the Management of Patients with Neuroendocrine Tumor: A Systematic Review and Meta-Analysis
Martin Barrio, Johannes Czernin, Stefano Fanti, Valentina Ambrosini, Ina Binse, Lin Du, Matthias Eiber, Ken Herrmann, and Wolfgang P. Fendler

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- 762** In Vivo Evaluation of ^{11}C -Preladenant for PET Imaging of Adenosine $\text{A}_{2\text{A}}$ Receptors in the Conscious Monkey
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768 ■ BRIEF COMMUNICATION. Prognostic Implications of Total Hemispheric Glucose Metabolism Ratio in Cerebrocerebellar Diaschisis

Eivind Antonsen Segtnan, Peter Grupe, Jens Ole Jarden, Oke Gerke, Jana Ivanidze, Sofie Bæk Christlieb, Caius Constantinescu, John Erling Pedersen, Sina Houshmand, Søren Hess, Mojtaba Zarei, Albert Gjedde, Abass Alavi, and Poul F. Høilund-Carlson

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774 PET/CT Imaging of Unstable Carotid Plaque with ⁶⁸Ga-Labeled Somatostatin Receptor Ligand

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781 ■ INVITED PERSPECTIVE. Imaging of the Cardiac Sympathetic Nervous System Has Potential Value in the Evaluation of Patients with Heart Failure with Preserved Ejection Fraction

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784 Impaired Myocardial Sympathetic Innervation Is Associated with Diastolic Dysfunction in Heart Failure with Preserved Ejection Fraction: ¹¹C-Hydroxyephedrine PET Study

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791 Clinical Trial with Sodium ^{99m}Tc-Pertechnetate Produced by a Medium-Energy Cyclotron: Biodistribution and Safety Assessment in Patients with Abnormal Thyroid Function

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799 Sympathetic Innervation of Cold-Activated Brown and White Fat in Lean Young Adults

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807 Evaluation of Precision in Optoacoustic Tomography for Preclinical Imaging in Living Subjects

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815 ²⁻¹⁸F-Fluoroethanol Is a PET Reporter of Solid Tumor Perfusion

Brennan J. Wadsworth, Jinhe Pan, Iulia Dude, Nadine Colpo, Momir Bosiljic, Kuo-Shyan Lin, Francois Benard, and Kevin L. Bennewith

821 SPECT/CT Imaging of the Novel HER2-Targeted Peptide Probe ^{99m}Tc-HYNIC-H6F in Breast Cancer Mouse Models

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827 ⁴⁻¹¹C-Methoxy *N*-(2-Diethylaminoethyl) Benzamide: A Novel Probe to Selectively Target Melanoma

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PHYSICS/INSTRUMENTATION

833 4-Dimensional MRI and Attenuation Map Generation in PET/MRI with 4-Dimensional PET-Derived Deformation Matrices: Study of Feasibility for Lung Cancer Applications

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840 PET/MRI in the Presence of Metal Implants: Completion of the Attenuation Map from PET Emission Data

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846 Cardiac and Respiratory Motion Correction for Simultaneous Cardiac PET/MR

Christoph Kolbitsch, Mark A. Ahlman, Cynthia Davies-Venn, Robert Evers, Michael Hansen, Devis Peressutti, Paul Marsden, Peter Kellman, David A. Bluemke, and Tobias Schaeffter

INFLAMMATION/INFECTION

Basic

853 In Vivo Hypoxia PET Imaging Quantifies the Severity of Arthritic Joint Inflammation in Line with Overexpression of Hypoxia-Inducible Factor and Enhanced Reactive Oxygen Species Generation

Kerstin Fuchs, Anna Kuehn, Moritz Mahling, Philipp Guenthoer, Andreas Hector, Johannes Schwenck, Dominik Hartl, Stefan Laufer, Ursula Kohlhofer, Leticia Quintanilla-Martinez, Gerald Reischl, Martin Röcken, Bernd J. Pichler, and Manfred Kneilling

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