

SNMMI NEWSLINE

- 9N** 2018 SNMMI Highlights Lecture: Cardiovascular Nuclear and Molecular Imaging
Mehran M. Sadeghi
- 16N** Longitudinal Assessment (Certlink): Listening to and Enhancing ABNM Diplomate Experiences
Leonie Gordon
- 17N** SNMMI Leadership Update: Training Future Nuclear Medicine Physicians
Satoshi Minoshima
- 18N** Newsbriefs

EDITOR'S PAGE

- 1337** The Quality and Impact of *JNM*
Johannes Czernin

HOT TOPICS

- 1338** Oligometastatic Prostate Cancer: Molecular Imaging and Clinical Management Implications in the Era of Precision Oncology
Hossein Jadvar

THE STATE OF THE ART

- 1340** Imaging Cancer Metabolism: Underlying Biology and Emerging Strategies
Austin R. Pantel, Daniel Ackerman, Seung-Cheol Lee, David A. Mankoff, and Terence P. Gade

CONTINUING EDUCATION

- 1350** An Overview of PET Radiochemistry, Part 1: The Covalent Labels ^{18}F , ^{11}C , and ^{13}N
Verena Pichler, Neydher Berroterán-Infante, Cecile Philippe, Chrysoula Vraka, Eva-Maria Klebermass, Theresa Balber, Sarah Pfaff, Lukas Nics, Markus Mitterhauser, and Wolfgang Wadsak

FOCUS ON MOLECULAR IMAGING

- 1355** Insights into Trace Metal Metabolism in Health and Disease from PET: "PET Metallomics"
Joanna J. Bartnicka and Philip J. Blower

ONCOLOGY

Clinical

- 1360** Immediate Postablation ^{18}F -FDG Injection and Corresponding SUV Are Surrogate Biomarkers of Local Tumor Progression After Thermal Ablation of Colorectal Carcinoma Liver Metastases
Francois H. Cornelis, Elena N. Petre, Efsevia Vakiani, David Klimstra, Jeremy C. Durack, Mithat Gonen, Joseph Osborne, Stephen B. Solomon, and Constantinos T. Sofocleous

- 1366** A Prospective Study of Quantitative SPECT/CT for Evaluation of Lung Shunt Fraction Before SIRT of Liver Tumors
Helmut Dittmann, Daniel Kopp, Juergen Kupferschlaeger, Diana Feil, Gerd Groezinger, Roland Syha, Matthias Weissinger, and Christian la Fougère

- 1373** Intraindividual Comparison of $^{99\text{m}}\text{Tc}$ -Methylene Diphosphonate and Prostate-Specific Membrane Antigen Ligand $^{99\text{m}}\text{Tc}$ -MIP-1427 in Patients with Osseous Metastasized Prostate Cancer
Hendrik Rathke, Ali Afshar-Oromieh, Frederik Lars Giesel, Christophe Kremer, Paul Flechsig, Sabine Haufe, Walter Mier, Tim Holland-Letz, Maximilian De Bucourt, Thomas Armor, et al.

- 1380** ^{18}F -Fludarabine PET for Lymphoma Imaging: First-in-Humans Study on DLBCL and CLL Patients
Sylvain Chantepie, Narinée Hovhannisyann, Stéphane Guillouet, Jean-Pierre Pelage, Méziane Ibazizene, Caroline Bodet-Milin, Thomas Carlier, Anne-Claire Gac, Emilie Réboursière, Jean-Pierre Vilque, et al.

Basic

- 1386** Radioiodinated Small-Molecule Tyrosine Kinase Inhibitor for HER2-Selective SPECT Imaging
Longguang Tang, Chenyu Peng, Bowen Tang, Zijing Li, Xiangyu Wang, Jindian Li, Fei Gao, Lumei Huang, Duo Xu, Pu Zhang, et al.

- 1392** Detection Threshold and Reproducibility of ^{68}Ga -PSMA11 PET/CT in a Mouse Model of Prostate Cancer
Katharina Lücknerath, Andreea D. Stuparu, Liu Wei, Woosuk Kim, Caius G. Radu, Christine E. Mona, Jeremie Calais, Matthew Rettig, Robert E. Reiter, Johannes Czernin, et al.

- 1398** Dual-Modality Immuno-PET and Near-Infrared Fluorescence Imaging of Pancreatic Cancer Using an Anti-Prostate Stem Cell Antigen Cys-Diobody
Kirstin A. Zettlitz, Wen-Ting K. Tsai, Scott M. Knowles, Naoko Kobayashi, Timothy R. Donahue, Robert E. Reiter, and Anna M. Wu

THERANOSTICS

Clinical

- 1406** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** ^{68}Ga -PSMA-HBED-CC Uptake in Cervical, Celiac, and Sacral Ganglia as an Important Pitfall in Prostate Cancer PET Imaging
Christoph Rischpler, Teresa I. Beck, Shozo Okamoto, Anna M. Schlitter, Karina Knorr, Markus Schwaiger, Jürgen Gschwend, Tobias Maurer, Philipp T. Meyer, and Matthias Eiber

TRANSLATIONAL

- 1412** ■ **INVITED PERSPECTIVE.** Fibroblast-Activating Protein: Targeting the Roots of the Tumor Microenvironment
Jens T. Siveke
- 1415** Development of Quinoline-Based Theranostic Ligands for the Targeting of Fibroblast Activation Protein
Thomas Lindner, Anastasia Loktev, Annette Altmann, Frederik Giesel, Clemens Kratochwil, Jürgen Debus, Dirk Jäger, Walter Mier, and Uwe Haberkorn

1423 ■ FEATURED ARTICLE OF THE MONTH. A Tumor-Imaging Method Targeting Cancer-Associated Fibroblasts

Anastasia Loktev, Thomas Lindner, Walter Mier, Jürgen Debus, Annette Altmann, Dirk Jäger, Frederik Giesel, Clemens Kratochwil, Philippe Barthe, Christian Roumestand, et al.

CARDIOVASCULAR

Basic

1430 Regional Myocardial Perfusion Disturbance in Experimental Chronic Chagas Cardiomyopathy

Luciano Fonseca Lemos de Oliveira, James T. Thackeray, José Antônio Marin Neto, Minna Moreira Dias Romano, Eduardo Elias Vieira de Carvalho, Jorge Mejia, Denise Mayumi Tanaka, Grace Kelly da Silva, Douglas Reis Abdalla, Carlos Malamut, et al.

NEUROLOGY

Clinical

1437 The Metabolic Pattern of Idiopathic REM Sleep Behavior Disorder Reflects Early-Stage Parkinson Disease

Sanne K. Meles, Remco J. Renken, Annette Janzen, David Vadasz, Marco Pagani, Dario Arnaldi, Silvia Morbelli, Flavio Nobili, Geert Mayer, Klaus L. Leenders, et al., and the REMPET Study Group

1445 ■ BRIEF COMMUNICATION. Age-Related Change in 5-HT₆ Receptor Availability in Healthy Male Volunteers Measured with ¹¹C-GSK215083 PET

Rajiv Radhakrishnan, Nabeel Nabulsi, Edward Gaiser, Jean-Dominique Gallezot, Shannan Henry, Beata Planeta, Shu-fei Lin, Jim Ropchan, Wendol Williams, Evan Morris, et al.

RADIOBIOLOGY/DOSIMETRY

Clinical

1451 Patient-Specific Computational Model and Dosimetry Calculations for PET/CT of a Patient Pregnant with Twins

Tianwu Xie, Paolo Zanotti-Fregonara, Agathe Edet-Sanson, and Habib Zaidi

Basic

1459 ■ INVITED PERSPECTIVE. “Standing by” for Bystander Effects: Dual-Isotope Imaging of Antibody–Drug Conjugate and Payload Distribution

Cornelius Cilliers and Greg M. Thurber

1461 ■ FEATURED BASIC SCIENCE ARTICLE. Dual-Isotope Cryoimaging Quantitative Autoradiography: Investigating Antibody–Drug Conjugate Distribution and Payload Delivery Through Imaging

Ohad Ilovich, Mohammed Qutaish, Jacob Y. Hesterman, Kelly Orcutt, Jack Hoppin, Ildiko Polyak, Marc Seaman, Adnan O. Abu-Yousif, Donna Cvet, and Daniel P. Bradley

PHYSICS AND INSTRUMENTATION

1467 Clinical Impact of Respiratory Motion Correction in Simultaneous PET/MR, Using a Joint PET/MR Predictive Motion Model

Richard Manber, Kris Thielemans, Brian F. Hutton, Simon Wan, Francesco Fraioli, Anna Barnes, Sébastien Ourselin, Simon Arridge, and David Atkinson

1474 Concurrent Respiratory Motion Correction of Abdominal PET and Dynamic Contrast-Enhanced–MRI Using a Compressed Sensing Approach

Niccolo Fuin, Onofrio A. Catalano, Michele Scipioni, Lisanne P.W. Canjels, David Izquierdo-Garcia, Stefano Pedemonte, and Ciprian Catana

1480 Respiratory Motion Compensation for PET/CT with Motion Information Derived from Matched Attenuation-Corrected Gated PET Data

Yihuan Lu, Kathryn Fontaine, Tim Mulnix, John A. Onofrey, Silin Ren, Vladimir Panin, Judson Jones, Michael E. Casey, Robert Barnett, Peter Kench, et al.

DEPARTMENTS

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1473 Erratum

1487 Book Reviews

22A Recruitment