

SNMMI NEWSLINE

- 9N** 2017 SNMMI Highlights Lecture: Neuroscience
Alexander Drzezga
- 17N** SNMMI Honors Contributors at 2017 Annual Meeting
- 19N** Radioiodine Theranostics: Increasing Dialogue and Collaboration
Douglas Van Nostrand
- 21N** SNMMI Leadership Update: SNMMI 2018 Mid-Winter Symposium in Orlando: Focus on Theranostics
Virginia Pappas

EDITOR'S PAGE

- 1535** Is 16 Months of Specialized Nuclear Medicine Training Enough for Best Patient Care?
Johannes Czernin

HOT TOPICS

- 1536** Nuclear Medicine Training: What Now?
David Mankoff and Daniel A. Pryma

THE STATE OF THE ART

- 1539** ^{18}F -FDG PET/CT in Lymphoma: Has Imaging-Directed Personalized Medicine Become a Reality?
Sally F. Barrington and Peter W.M. Johnson

CONTINUING EDUCATION

- 1545** PSMA Ligands for PET Imaging of Prostate Cancer
Sarah M. Schwarzenboeck, Isabel Rauscher, Christina Bluemel, Wolfgang P. Fendler, Steven P. Rowe, Martin G. Pomper, Ali Asfhar-Oromieh, Ken Herrmann, and Matthias Eiber

FOCUS ON MOLECULAR IMAGING

- 1553** Pretargeted Imaging and Therapy
Mohamed Altai, Rosemary Membreno, Brendon Cook, Vladimir Tolmachev, and Brian M. Zeglis

ONCOLOGY

Basic

- 1560** Imaging of Programmed Cell Death Ligand 1: Impact of Protein Concentration on Distribution of Anti-PD-L1 SPECT Agents in an Immunocompetent Murine Model of Melanoma
Jessie R. Nedrow, Anders Josefsson, Sunju Park, Sagar Ranka, Sanchita Roy, and George Sgouros

Translational

- 1567** ^{18}F -Fluoromisonidazole Kinetic Modeling for Characterization of Tumor Perfusion and Hypoxia in Response to Antiangiogenic Therapy
Milan Grkovski, Sally-Ann Emmas, and Sean D. Carlin

Clinical

- 1574** In Vivo Relationship Between Hypoxia and Angiogenesis in Human Glioblastoma: A Multimodal Imaging Study
Keven Ferreira da Ponte, David Hassanein Berro, Solène Collet, Jean-Marc Constans, Evelyne Emery, Samuel Valable, and Jean-Sébastien Guillamo
- 1580** Improved Detection of Transosseous Meningiomas Using ^{68}Ga -DOTATATE PET/CT Compared with Contrast-Enhanced MRI
Wolfgang G. Kunz, Lisa M. Jungblut, Philipp M. Kazmierczak, Franziska J. Vettermann, Andreas Bollenbacher, Jörg C. Tonn, Christian Schichor, Axel Rominger, Nathalie L. Albert, Peter Bartenstein, et al.
- 1588** Alternative Means of Estimating ^{131}I Maximum Permissible Activity to Treat Thyroid Cancer
Kenneth J. Nichols, William Robeson, Miyuki Yoshida-Hay, Pat B. Zanzonico, Fritzgerald Leveque, Kuldeep K. Bhargava, Gene G. Tronco, and Christopher J. Palestro
- 1596** Reader Training for the Restaging of Biochemically Recurrent Prostate Cancer Using ^{18}F -Fluciclovine PET/CT
Matthew P. Miller, Lale Kostakoglu, Daniel Pryma, Jian Qin Yu, Albert Chau, Eric Perlman, Bonnie Clarke, Donald Rosen, and Penelope Ward
- 1603** Assessing Bone Marrow Activity in Patients with Myelofibrosis: Results of a Pilot Study of ^{18}F -FLT PET
Laetitia Vercellino, Matthieu John Ouvrier, Emmanuelle Barré, Bruno Cassinat, Virginie de Beco, Christine Dosquet, Sylvie Chevret, Véronique Meignin, Christine Chomienne, Marie-Elisabeth Toubert, et al.

THERANOSTICS

Basic

- 1609** SSTR-Mediated Imaging in Breast Cancer: Is There a Role for Radiolabeled Somatostatin Receptor Antagonists?
Simone U. Dalm, Joost Haeck, Gabriela N. Doeswijk, Erik de Blois, Marion de Jong, and Carolien H.M. van Deurzen

Clinical

- 1615** ■ INVITED PERSPECTIVE. Accuracy in the Eye of the Beholder: Can We Improve Agreement in Prostate Cancer Diagnostics with PSMA PET/CT?
Michael S. Hofman
- 1617** ^{68}Ga -PSMA-11 PET/CT Interobserver Agreement for Prostate Cancer Assessments: An International Multicenter Prospective Study
Wolfgang Peter Fendler, Jeremie Calais, Martin Allen-Auerbach, Christina Bluemel, Nina Eberhardt, Louise Emmett, Pawan Gupta, Markus Hartenbach, Thomas A. Hope, Shozo Okamoto, et al.
- 1624** ■ FEATURED ARTICLE OF THE MONTH. Targeted α -Therapy of Metastatic Castration-Resistant Prostate Cancer with ^{225}Ac -PSMA-617: Dosimetry Estimate and Empiric Dose Finding
Clemens Kratochwil, Frank Bruchertseifer, Hendrik Rathke, Marcus Bronzel, Christos Apostolidis, Wilko Weichert, Uwe Haberkorn, Frederik L. Giesel, and Alfred Morgenstern
- 1632** Exploring New Multimodal Quantitative Imaging Indices for the Assessment of Osseous Tumor Burden in Prostate Cancer Using ^{68}Ga -PSMA PET/CT
Marie Bieth, Markus Krönke, Robert Tauber, Marielena Dahlbender, Margitta Retz, Stephan G. Nekolla, Bjoern Menze, Tobias Maurer, Matthias Eiber, and Markus Schwaiger

CARDIOLOGY

Translational

1638 ■ FEATURED TRANSLATIONAL SCIENCE ARTICLE. Doxorubicin Effect on Myocardial Metabolism as a Prerequisite for Subsequent Development of Cardiac Toxicity: A Translational ¹⁸F-FDG PET/CT Observation

Matteo Bauckneht, Giulia Ferrarazzo, Francesco Fiz, Silvia Morbelli, Matteo Sarocchi, Fabio Pastorino, Alberto Ghidella, Elena Pomposelli, Maurizio Miglino, Pietro Ameri, et al.

NEUROLOGY

Translational

1646 Evaluation of the Effect of Fingolimod Treatment on Microglial Activation Using Serial PET Imaging in Multiple Sclerosis

Marcus Sucksdorff, Eero Rissanen, Jouni Tuisku, Salla Nuutinen, Teemu Paavilainen, Johanna Rokka, Juha Rinne, and Laura Airas

MOLECULAR IMAGING

Basic

1652 High-Contrast PET Imaging of Vasopressin V_{1B} Receptors with a Novel Radioligand, ¹¹C-TASP699

Kazumi Koga, Yuji Nagai, Masayuki Hanyu, Mitsukane Yoshinaga, Shigeyuki Chaki, Norikazu Ohtake, Satoshi Ozaki, Ming-Rong Zhang, Tetsuya Suhara, and Makoto Higuchi

1659 Molecular Imaging of Human Embryonic Stem Cells Stably Expressing Human PET Reporter Genes After Zinc Finger Nuclease-Mediated Genome Editing

Esther Wolfs, Bryan Holvoet, Laura Ordovas, Natacha Breuls, Nicky Helsen, Matthias Schönberger, Susanna Raitano, Tom Struys, Bert Vanbilloen, Cindy Casteels, et al.

Clinical

1666 ¹⁸F-Tetrafluoroborate, a PET Probe for Imaging Sodium/Iodide Symporter Expression: Whole-Body Biodistribution, Safety, and Radiation Dosimetry in Thyroid Cancer Patients

Jim O'Doherty, Maite Jauregui-Osoro, Teresa Brothwood, Teresa Szyszko, Paul K. Marsden, Michael J. O'Doherty, Gary J.R. Cook, Philip J. Blower, and Val Lewington

RADIATION BIOLOGY

Clinical

1672 Three-Dimensional Dosimetry for Radiation Safety Estimates from Intrathecal Administration

Jacob Y. Hesterman, Susan D. Kost, Robert W. Holt, Howard Dobson, Ajay Verma, and P. David Mozley

IMAGING/INFECTION

Basic

1679 ■ FEATURED BASIC SCIENCE ARTICLE. Specific Imaging of Bacterial Infection Using ⁶⁷Ge-¹⁸F-Fluoromaltotriose: A Second-Generation PET Tracer Targeting the Maltodextrin Transporter in Bacteria

Gayatri Gowrishankar, Jonathan Hardy, Mirwais Wardak, Mohammad Namavari, Robert E. Reeves, Evgenios Neofytou, Ananth Srinivasan, Joseph C. Wu, Christopher H. Contag, and Sanjiv Sam Gambhir

1685 Imaging Macrophage Accumulation in a Murine Model of Chronic Pancreatitis with ¹²⁵I-Iodo-DPA-713 SPECT/CT

Catherine A. Foss, Liansheng Liu, Ronnie C. Mease, Haofan Wang, Pankaj Pasricha, and Martin G. Pomper

PHYSICS/INSTRUMENTATION

1691 Quantitative Evaluation of 2 Scatter-Correction Techniques for ¹⁸F-FDG Brain PET/MRI in Regard to MR-Based Attenuation Correction

Jarmo Teuho, Virva Saunavaara, Tuula Tolvanen, Terhi Tuokkola, Antti Karlsson, Jouni Tuisku, and Mika Teräs

1699 Simulation of Tracer Dose Reduction in ¹⁸F-FDG PET/MRI: Effects on Oncologic Reading, Image Quality, and Artifacts

Ferdinand Seith, Holger Schmidt, Julia Kunz, Thomas Küstner, Sergios Gatidis, Konstantin Nikolaou, Christian la Fougère, and Nina Schwenzer

DEPARTMENTS

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1706 Letters to the Editor

1707 Errata