

## SNMMI NEWSLINE

### 15N Overview of the Martinique Meetings: What Has Been Established and Where Are We Going?

Bennett S. Greenspan, Sukhjeet Ahuja, Anca M. Avram, Seza Gulec, and Douglas Van Nostrand

### 16N Best *JNM* Articles for 2018

### 17N Outstanding *JNMT* Articles for 2018

### 18N Justification and Optimization: ICRP's 2 Fundamental Principles of Radiation Protection are Unsuitable Companions for Medical Imaging

Jeffrey A. Siegel, Bill Sacks, and Bennett S. Greenspan

### 19N NRC Advisory Committee on Medical Uses of Isotopes Spring Meeting

Caitlin Kubler

### 20N Sites Performing Dosimetry for Selection of Activity for <sup>131</sup>I Therapy for Differentiated Thyroid Cancer

Douglas Van Nostrand, MD

### 23N SNMMI Leadership Update: SNMMI Value Initiative 2.0—Advancing the Value of Nuclear Medicine and Molecular Imaging

Satoshi Minoshima

### 25N From the Literature

## DISCUSSIONS WITH LEADERS

### 717 A Conversation Between Nora Volkow and Johannes Czernin

Nora Volkow and Johannes Czernin

## THE STATE OF THE ART

### 721 Medical Management of Gastroenteropancreatic Neuroendocrine Tumors: Current Strategies and Future Advances

Amr Mohamed and Jonathan R. Strosberg

## HOT TOPICS

### 728 Imaging the Molecular Footprints of the Heart–Brain Axis in Cardiovascular Disease

James T. Thackeray

## FOCUS ON MOLECULAR IMAGING

### 730 New Developments in Imaging Cell-Based Therapy

Olivier Martinez, Jane Sosabowski, John Maher, and Sophie Papa

## SPECIAL CONTRIBUTION

### 736 Proceedings: Pathways for Successful Translation of New Imaging Agents and Modalities—Phase III Studies

Sanjiv S. Gambhir, Lalitha K. Shankar, Eben Rosenthal, Jason M. Warram, Munir Ghesani, Thomas A. Hope, Paula M. Jacobs, Gunilla B. Jacobson, Terri Wilson, and Barry A. Siegel

## ONCOLOGY

### Clinical

### 745 Metabolic Subtyping of Pheochromocytoma and Paraganglioma by <sup>18</sup>F-FDG Pharmacokinetics Using Dynamic PET/CT Scanning

Anouk van Berkel, Dennis Vriens, Eric P. Visser, Marcel J.R. Janssen, Martin Gotthardt, Ad R.M.M. Hermus, Lioe-Fee de Geus-Oei, and Henri J.L.M. Timmers

### 752 ■ BRIEF COMMUNICATION. Tumor Lysis Syndrome: A Rare but Serious Complication of Radioligand Therapies

Kai Huang, Winfried Brenner, and Vikas Prasad

### 756 ■ INVITED PERSPECTIVE. Trends and Challenges for the Clinical Adoption of Fluorescence-Guided Surgery

Jonathan T.C. Liu and Nader Sanai

### 758 The Clinical Application of Fluorescence-Guided Surgery in Head and Neck Cancer

Stan van Keulen, Naoki Nishio, Shayan Fakurnejad, Andrew Birkeland, Brock A. Martin, Guolan Lu, Quan Zhou, Stefania U. Chirita, Tymour Forouzanfar, A. Dimitrios Colevas, et al.

### Translational

### 764 Three-Dimensional Tumor Margin Demarcation Using the Hybrid Tracer Indocyanine Green-<sup>99m</sup>Tc-Nanocolloid: A Proof-of-Concept Study in Tongue Cancer Patients Scheduled for Sentinel Node Biopsy

Philippa Meershoek, Nynke S. van den Berg, Oscar R. Brouwer, H. Jelle Teertstra, Charlotte A.H. Lange, Renato A. Valdés-Olmos, Bernies van der Hiel, Alfons J.M. Balm, W. Martin C. Klop, and Fijs W.B. van Leeuwen

### Basic

### 770 Galectin-3 Targeting in Thyroid Orthotopic Tumors Opens New Ways to Characterize Thyroid Cancer

Francesco De Rose, Miriam Braeuer, Sten Braesch-Andersen, Angela M. Otto, Katja Steiger, Sybille Reder, Sabine Mall, Stephan Nekolla, Markus Schwaiger, Wolfgang A. Weber, et al.

## THERANOSTICS

### Clinical

### 777 <sup>64</sup>Cu-SARTATE PET Imaging of Patients with Neuroendocrine Tumors Demonstrates High Tumor Uptake and Retention, Potentially Allowing Prospective Dosimetry for Peptide Receptor Radionuclide Therapy

Rodney J. Hicks, Price Jackson, Grace Kong, Robert E. Ware, Michael S. Hofman, David A. Pattison, Timothy A. Akhurst, Elizabeth Drummond, Peter Roselt, Jason Callahan, et al.

### 786 Metaanalysis of <sup>68</sup>Ga-PSMA-11 PET Accuracy for the Detection of Prostate Cancer Validated by Histopathology

Thomas A. Hope, Jeremy Z. Goodman, Isabel E. Allen, Jeremie Calais, Wolfgang P. Fendler, and Peter R. Carroll

### 794 Prospective, Multisite, International Comparison of <sup>18</sup>F-Fluoromethylcholine PET/CT, Multiparametric MRI, and <sup>68</sup>Ga-HBED-CC PSMA-11 PET/CT in Men with High-Risk Features and Biochemical Failure after Radical Prostatectomy: Clinical Performance and Patient Outcomes

Louise Emmett, Ur Metser, Glenn Bauman, Rodney J. Hicks, Andrew Weickhardt, Ian D. Davis, Shonit Punwani, Greg Pond, Sue Chua, Bao Ho, et al.

**801 ■ FEATURED ARTICLE OF THE MONTH. <sup>68</sup>Ga-FAPI****PET/CT: Tracer Uptake in 28 Different****Kinds of Cancer**

Clemens Kratochwil, Paul Flechsig, Thomas Lindner, Labidi Abderrahim, Annette Altmann, Walter Mier, Sebastian Adeberg, Hendrik Rathke, Manuel Röhrich, Hauke Winter, et al.

**806 Dosimetry Estimate and Initial Clinical Experience with <sup>90</sup>Y-PSMA-617**

Hendrik Rathke, Paul Flechsig, Walter Mier, Marcus Bronzel, Eleni Mavriopoulou, Markus Hohenfellner, Frederik Lars Giesel, Uwe Haberkorn, and Clemens Kratochwil

**Translational****812 Succinylated Gelatin Improves the Theranostic Potential of Radiolabeled Exendin-4 in Insulinoma Patients**

Mijke Buitinga, Tom Jansen, Inge van der Kroon, Wietske Woliner-van der Weg, Marti Boss, Marcel Janssen, Erik Aarntzen, Martin Béhé, Damian Wild, Eric Visser, et al.

**Basic****817 Discovery of <sup>18</sup>F-JK-PSMA-7, a PET Probe for the Detection of Small PSMA-Positive Lesions**

Boris D. Zlatopolskiy, Heike Endepols, Philipp Krapf, Mehrab Guliyev, Elizaveta A. Urusova, Raphael Richarz, Melanie Hohberg, Markus Dietlein, Alexander Drzezga, and Bernd Neumaier

**CARDIOLOGY****Clinical****824 Assessment of Myocardial CZT SPECT Recording in a Forward-Leaning Bikerlike Position**

Mathieu Perrin, Véronique Roch, Marine Claudin, Antoine Verger, Henri Boutley, Gilles Karcher, Cédric Baumann, Nicolas Veran, Pierre-Yves Marie, and Laetitia Imbert

**830 Data-Driven Gross Patient Motion Detection and Compensation: Implications for Coronary <sup>18</sup>F-NaF PET Imaging**

Martin Lyngby Lassen, Jacek Kwiecinski, Sebastien Cadet, Damini Dey, Chengjia Wang, Marc R. Dweck, Daniel S. Berman, Guido Germano, David E. Newby, and Piotr J. Slomka

**NEUROLOGY****Clinical****837 Principal Components Analysis of Brain Metabolism Predicts Development of Alzheimer Dementia**

Ganna Blazhenets, Yilong Ma, Arnd Sörensen, Gerta Rücker, Florian Schiller, David Eidelberg, Lars Frings, and Philipp T. Meyer; for the Alzheimer's Disease Neuroimaging Initiative

**Basic****844 Awake <sup>18</sup>F-FDG PET Imaging of Memantine-Induced Brain Activation and Test–Retest in Freely Running Mice**

Alan Miranda, Dorien Glorie, Daniele Bertoglio, Jochen Vleugels, Guido De Bruyne, Sigrid Stroobants, Steven Staelens, and Jeroen Verhaeghe

**GASTROENTEROLOGY****Clinical****851 Assessment of Ileocolonic Inflammation in Crohn's Disease: Which Surrogate Marker Is Better – MaRIA, Clermont, or PET/MR Index? Initial Results of a Feasibility Trial**

Yan Li, Jost Langhorst, Anna Katharina Koch, Aydin Demircioglu, Felix Nensa, Julian Kirchner, Karsten Beiderwellen, Onofrio Catalano, Michael Forsting, Ken Herrmann, et al.

**INFLAMMATION/INFECTIOUS DISEASE****Basic****858 ■ FEATURED BASIC SCIENCE ARTICLE. Immuno-PET of Innate Immune Markers CD11b and IL-1 $\beta$  Detects Inflammation in Murine Colitis**

Nicole Dmochowska, William Tieu, Marianne D. Keller, Hannah R. Wardill, Chris Mavrangelos, Melissa A. Campaniello, Prab Takhar, and Patrick A. Hughes

**PHYSICS AND INSTRUMENTATION****864 Optimized Feature Extraction for Radiomics Analysis of <sup>18</sup>F-FDG PET Imaging**

Laszlo Papp, Ivo Rausch, Marko Grahovac, Marcus Hacker, and Thomas Beyer

**DEPARTMENTS****14A This Month in JNM****873 Book Reviews**