

## SNMMI NEWSLINE

- 9N** 2017 SNMMI Highlights Lecture: Cardiovascular Nuclear Medicine  
Nagara Tamaki
- 15N** From the ABNM: Improvement in Medical Practice  
George M. Segall
- 16N** IAEA and SNMMI Cooperative Agreement
- 17N** SNMMI Leadership Update: Budget and Strategic Plan Alignment for Growth  
Virginia Pappas
- 18N** Newsbriefs

## HOT TOPICS

- 1883** Will GRPR Compete with PSMA as a Target in Prostate Cancer?  
Andrei Iagaru

## THE STATE OF THE ART

- 1885** In Vitro Evaluation of Molecular Tumor Targets in Nuclear Medicine: Immunohistochemistry Is One Option, but Under Which Conditions?  
Jean Claude Reubi

## CONTINUING EDUCATION

- 1888** <sup>18</sup>F-FDG PET in Parkinsonism: Differential Diagnosis and Evaluation of Cognitive Impairment  
Philipp T. Meyer, Lars Frings, Gerta Rücker, and Sabine Hellwig

## FOCUS ON MOLECULAR IMAGING

- 1899** Data-Driven Prioritization and Review of Targets for Molecular-Based Theranostic Approaches in Pancreatic Cancer  
Marjory Koller, Elmire Hartmans, Derk Jan A. de Groot, Xiao Juan Zhao, Gooitzen M. van Dam, Wouter B. Nagengast, and Rudolf S.N. Fehrmann

## EDITORIAL

- 1904** Nuclear Medicine Training in Europe: "All for One, One for All"  
Kristoff Muylle and Lorenzo Maffioli

## ONCOLOGY

### Translational

- 1906** Androgen and Estrogen Receptor Imaging in Metastatic Breast Cancer Patients as a Surrogate for Tissue Biopsies  
Clasina M. Venema, Lemonitsa H. Mammatas, Carolina P. Schröder, Michel van Kruchten, Giulia Apollonio, Andor W.J.M. Glaudemans, Alfons H.H. Bongaerts, Otto S. Hoekstra, Henk M.W. Verheul, Epi Boven, et al.

### Clinical

- 1913** Evaluation of Dual-Timepoint <sup>18</sup>F-FDG PET/CT Imaging for Lymph Node Staging in Vulvar Cancer  
Angela Collarino, Giorgia Garganese, Renato A. Valdés Olmos, Antonella Stefanelli, Germano Perotti, Paoletta Mirk, Simona M. Fragomeni, Francesco P. Ieria, Giovanni Scambia, Alessandro Giordano, et al.
- 1919** Head-to-Head Comparison of Chest X-Ray/Head and Neck MRI, Chest CT/Head and Neck MRI, and <sup>18</sup>F-FDG PET/CT for Detection of Distant Metastases and Synchronous Cancer in Oral, Pharyngeal, and Laryngeal Cancer  
Max Rohde, Anne L. Nielsen, Jørgen Johansen, Jens A. Sørensen, Nina Nguyen, Anabel Diaz, Mie K. Nielsen, Jon T. Asmussen, Janus M. Christiansen, Oke Gerke, et al.
- 1925** Analysis of Prognostic Values of Various PET Metrics in Preoperative <sup>18</sup>F-FDG PET for Early-Stage Bronchial Carcinoma for Progression-Free and Overall Survival: Significantly Increased Glycolysis Is a Predictive Factor  
Seraina Steiger, Michael Arvanitakis, Beate Sick, Walter Weder, Sven Hillinger, and Irene A. Burger
- 1931** <sup>18</sup>F-FDG PET/CT for Very Early Response Evaluation Predicts CT Response in Erlotinib-Treated Non-Small Cell Lung Cancer Patients: A Comparison of Assessment Methods  
Joan Fedelius, Anne Winther-Larsen, Azza A. Khalil, Catharina M. Bylov, Karin Hjorthaug, Aksel Bertelsen, Jørgen Frøkiær, and Peter Meldgaard

## THERANOSTICS

### Clinical

- 1938** Detection of Synchronous Primary Malignancies with <sup>68</sup>Ga-Labeled Prostate-Specific Membrane Antigen PET/CT in Patients with Prostate Cancer: Frequency in 764 Patients  
Medhat M. Osman, Amir Iravani, Rodney J. Hicks, and Michael S. Hofman
- 1943** <sup>68</sup>Ga-PSMA-11 PET/CT in Newly Diagnosed Carcinoma of the Prostate: Correlation of Intraprostatic PSMA Uptake with Several Clinical Parameters  
Stefan A. Koerber, Maximilian T. Utzinger, Clemens Kratochwil, Claudia Kesch, Matthias F. Haefner, Sonja Katayama, Walter Mier, Andrei H. Iagaru, Klaus Herfarth, Uwe Haberkorn, et al.
- 1949** <sup>68</sup>Ga-PSMA PET/CT and Volumetric Morphology of PET-Positive Lymph Nodes Stratified by Tumor Differentiation of Prostate Cancer  
Maria Vinsensia, Peter L. Chyoke, Boris Hadaschik, Tim Holland-Letz, Jan Moltz, Klaus Kopka, Isabel Rauscher, Walter Mier, Markus Schwaiger, Uwe Haberkorn, et al.
- 1956** Impact of <sup>68</sup>Ga-PSMA-11 PET on Management in Patients with Biochemically Recurrent Prostate Cancer  
Thomas A. Hope, Rahul Aggarwal, Bryant Chee, Dora Tao, Kirsten L. Greene, Matthew R. Cooperberg, Felix Feng, Albert Chang, Charles J. Ryan, Eric J. Small, et al.
- 1962** Initial Experience with Volumetric <sup>68</sup>Ga-PSMA I&T PET/CT for Assessment of Whole-Body Tumor Burden as a Quantitative Imaging Biomarker in Patients with Prostate Cancer  
Sebastian Schmuck, Christoph A. von Klot, Christoph Henkenberens, Jan M. Sohns, Hans Christiansen, Hans-Jürgen Wester, Tobias L. Ross, Frank M. Bengel, and Thorsten Derlin

- 1969** ■ **INVITED PERSPECTIVE.** Seduction by Sensitivity: Reality, Illusion, or Delusion? The Challenge of Assessing Outcomes after PSMA Imaging Selection of Patients for Treatment

Rodney J. Hicks, Declan G. Murphy, and Scott G. Williams

- 1972** ■ **FEATURED ARTICLE OF THE MONTH.** Treatment Outcomes from  $^{68}\text{Ga}$ -PSMA PET/CT-Informed Salvage Radiation Treatment in Men with Rising PSA After Radical Prostatectomy: Prognostic Value of a Negative PSMA PET

Louise Emmett, Pim J. van Leeuwen, Rohan Nandurkar, Matthijs J. Scheltema, Thomas Cusick, George Hruby, Andrew Kneebone, Thomas Eade, Gerald Fogarty, Raj Jagavkar, et al.

## NEUROLOGY

### Basic

- 1977** ■ **FEATURED BASIC SCIENCE ARTICLE.** Evaluation of Small-Animal PET Outcome Measures to Detect Disease Modification Induced by BACE Inhibition in a Transgenic Mouse Model of Alzheimer Disease

Steven Deleyle, Ann-Marie Waldron, Jeroen Verhaeghe, Astrid Bottelbergs, Leonie Wyffels, Bianca Van Broeck, Xavier Langlois, Mark Schmidt, Sigrid Stroobants, and Steven Staelens

- 1984** Time Courses of Cortical Glucose Metabolism and Microglial Activity Across the Life Span of Wild-Type Mice: A PET Study

Matthias Brendel, Carola Focke, Tanja Blume, Finn Peters, Maximilian Deussing, Federico Probst, Anna Jaworska, Felix Overhoff, Nathalie Albert, Simon Lindner, et al.

## PULMONARY

### Basic

- 1991** Optimization of a Collagen-Targeted PET Probe for Molecular Imaging of Pulmonary Fibrosis

Pauline Désogère, Luis F. Tapias, Tyson A. Rietz, Nicholas Rotile, Francesco Blasi, Helen Day, Justin Elliott, Bryan C. Fuchs, Michael Lanuti, and Peter Caravan

## RADIOCHEMISTRY

### Basic

- 1997**  $^{18}\text{F}$ -Labeled Carboplatin Derivative for PET Imaging of Platinum Drug Distribution

Narottam Lamichhane, Gajanan K. Dewkar, Gobalakrishnan Sundaresan, Li Wang, Purnima Jose, Muhammad Otabashi, Jean-Luc Morelle, Nicholas Farrell, and Jamal Zweit

## RADIOBIOLOGY/DOSIMETRY

- 2004** Biodistribution and Radiation Dosimetry of  $^{18}\text{F}$ -FTC-146 in Humans

Trine Hjørnevik, Peter W. Cipriano, Bin Shen, Jun Hyung Park, Praveen Gulaka, Dawn Holley, Harsh Gandhi, Daehyun Yoon, Erik S. Mittra, Greg Zaharchuk, et al.

## RADIOPHARMACEUTICALS

- 2010** ■ **BRIEF COMMUNICATION.** Evaluation of Radiopharmaceutical Adverse Reaction Reports to the British Nuclear Medicine Society from 2007 to 2016

Tracia-Gay Kennedy-Dixon, Maxine Gossell-Williams, Margaret Cooper, Moez Trabelsi, and Sobhan Vinjamuri

## INSTRUMENTATION

- 2013** Optimization of SPECT Measurement of Myocardial Blood Flow with Corrections for Attenuation, Motion, and Blood Binding Compared with PET

R. Glenn Wells, Brian Marvin, Marlie Poirier, Jennifer Renaud, Robert A. deKemp, and Terrence D. Ruddy

- 2020** Scatter Correction with Combined Single-Scatter Simulation and Monte Carlo Simulation Scaling Improved the Visual Artifacts and Quantification in 3-Dimensional Brain PET/CT Imaging with  $^{15}\text{O}$ -Gas Inhalation

Keiichi Magota, Tohru Shiga, Yukari Asano, Daiki Shinyama, Jinghan Ye, Amy E. Perkins, Piotr J. Maniowski, Takuya Toyonaga, Kentaro Kobayashi, Kenji Hirata, et al.

## SPECIAL CONTRIBUTION

- 2026** Appropriate Use Criteria for  $^{18}\text{F}$ -FDG PET/CT in Restaging and Treatment Response Assessment of Malignant Disease

Hossein Jadvar, Patrick M. Colletti, Roberto Delgado-Bolton, Giuseppe Esposito, Bernd J. Krause, Andrei H. Iagaru, Helen Nadel, David I. Quinn, Eric Rohren, Rathan M. Subramaniam, et al.

## DEPARTMENTS

**8A** This Month in JNM

**22A** Information for Authors

**2038** Book Reviews

**2039** Letters to the Editor