

## SNMMI NEWSLINE

- 7N** NRC Advisory Committee on Medical Uses of Isotopes Spring Meeting  
Caitlin B. Kubler
- 8N** Reclassifying Diagnostic Radiopharmaceuticals
- 9N** Wessels to Be Recognized with Loevinger–Berman Award  
Roger W. Howell and George Sgouros
- 10N** Fifty Years Ago in *JNM*
- 11N** RADAR Develops New Generation of Dosimetry Phantoms  
Michael G. Stabin, Jeffrey A. Siegel, and X. George Xu
- 12N** SNMMI Leadership Update: A Strong SNMMI  
Virginia Pappas
- 13N** Newsbriefs
- 15N** From the Literature

## EDITOR'S PAGE

- 721** Aetna and  $^{68}\text{Ga}$ -DOTATATE: A Sequel to “The Injustice of Being Judged by the Errors of Others”  
Johannes Czernin and Francesco Ceci

## HOT TOPICS

- 723** Radioactive Iodine Therapy for Differentiated Thyroid Cancer: Lessons from Confronting Controversial Literature on Risks for Secondary Malignancy  
Mark Tulchinsky, Ina Binse, Alfredo Campenni, Sabina Dizdarevic, Luca Giovanella, Ian Jong, Kalevi Kairemo, and Chun K. Kim

## THE STATE OF THE ART

- 726** Molecular Imaging in Cancer Drug Development  
Stijn J.H. Waaijer, Iris C. Kok, Bertha Eisses, Carolina P. Schröder, Mathilde Jalving, Adrienne H. Brouwers, Marjolijn N. Lub-de Hooge, and Elisabeth G.E. de Vries

## CONTINUING EDUCATION

- 733** Update on  $^{18}\text{F}$ -Fluciclovine PET for Prostate Cancer Imaging  
Ephraim E. Parent and David M. Schuster

## FOCUS ON MOLECULAR IMAGING

- 740** Advanced Ultrasound Technologies for Diagnosis and Therapy  
Anne Rix, Wiltrud Lederle, Benjamin Theek, Twan Lammers, Chrit Moonen, Georg Schmitz, and Fabian Kiessling

## EDITORIAL

- 747** PSMA-Targeted Radionuclide Therapy and Salivary Gland Toxicity: Why Does It Matter?  
David Taieb, Jean-Marc Foletti, Manuel Bardiès, Palma Rocchi, Rodney J. Hicks, and Uwe Haberkorn

## ONCOLOGY

### Clinical

- 749**  $^{18}\text{F}$ -FDG–Avid Thyroid Incidentalomas: The Importance of Contextual Interpretation  
David A. Pattison, Michael Bozin, Alexandra Gorelik, Michael S. Hofman, Rodney J. Hicks, and Anita Skandarajah
- 756** Predictive Value of  $^{18}\text{F}$ -FDG PET in Patients with Advanced Medullary Thyroid Carcinoma Treated with Vandetanib  
Rudolf A. Werner, Jan-Stefan Schmid, Takahiro Higuchi, Mehrbod S. Javadi, Steven P. Rowe, Bruno Märkl, Christoph Aulmann, Martin Fassnacht, Matthias Kroiss, Christoph Reiners, et al.
- 762** Combined  $^{18}\text{F}$ -Fluciclovine PET/MRI Shows Potential for Detection and Characterization of High-Risk Prostate Cancer  
Mattijs Elschot, Kirsten M. Selnaes, Elise Sandsmark, Brage Krüger-Stokke, Øystein Størkersen, Guro F. Giskeødegård, May-Britt Tessem, Siver A. Moestue, Helena Bertilsson, and Tone F. Bathen
- 769** Prediction of  $^{90}\text{Y}$  Radioembolization Outcome from Pretherapeutic Factors with Random Survival Forests  
Michael Ingrisich, Franziska Schöppe, Karolin Paprottka, Matthias Fabritius, Frederik F. Strobl, Enrico N. De Toni, Harun Ilhan, Andrei Todica, Marlies Michl, and Philipp Marius Paprottka
- 774**  $^{18}\text{F}$ -FDG PET/CT in Erdheim–Chester Disease: Imaging Findings and Potential BRAF Mutation Biomarker  
Jason R. Young, Geoffrey B. Johnson, Robert C. Murphy, Ronald S. Go, and Stephen M. Broski

## TRANSLATIONAL

- 780** Digitalislike Compounds Restore hNIS Expression and Iodide Uptake Capacity in Anaplastic Thyroid Cancer  
Marika H. Tesselaar, Thomas Crezee, Imke Schuurmans, Danny Gerrits, James Nagarajah, Otto C. Boerman, Ilse van Engen–van Grunsven, Johannes W.A. Smit, Romana T. Netea–Maier, and Theo S. Plantinga

## THERANOSTICS

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- 787** ■ INVITED PERSPECTIVE. Molecular Imaging of Prostate Cancer: Choosing the Right Agent  
Steven P. Rowe, Martin G. Pomper, and Michael A. Gorin
- 789** Comparison of  $^{68}\text{Ga}$ -PSMA-11 and  $^{18}\text{F}$ -Fluciclovine PET/CT in a Case Series of 10 Patients with Prostate Cancer Recurrence  
Jeremie Calais, Wolfgang P. Fendler, Ken Herrmann, Matthias Eiber, and Francesco Ceci
- 795** Targeted  $\alpha$ -Therapy of Metastatic Castration-Resistant Prostate Cancer with  $^{225}\text{Ac}$ -PSMA-617: Swimmer-Plot Analysis Suggests Efficacy Regarding Duration of Tumor Control  
Clemens Kratochwil, Frank Bruchertseifer, Hendrik Rathke, Markus Hohenfellner, Frederik L. Giesel, Uwe Haberkorn, and Alfred Morgenstern

**803** Prospective Evaluation of <sup>68</sup>Ga-RM2 PET/MRI in Patients with Biochemical Recurrence of Prostate Cancer and Negative Findings on Conventional Imaging

Ryogo Minamimoto, Ida Sonni, Steven Hancock, Shreyas Vasanaawala, Andreas Loening, Sanjiv S. Gambhir, and Andrei Iagaru

**809** ■ **FEATURED ARTICLE OF THE MONTH.** <sup>177</sup>Lu-3BP-227 for Neurotensin Receptor 1–Targeted Therapy of Metastatic Pancreatic Adenocarcinoma: First Clinical Results

Richard P. Baum, Aviral Singh, Christiane Schuchardt, Harshad R. Kulkarni, Ingo Klette, Stefan Wiessalla, Frank Osterkamp, Ulrich Reineke, and Christiane Smerling

**815** Radiolabeled (4-Fluoro-3-Iodobenzyl)Guanidine Improves Imaging and Targeted Radionuclide Therapy of Norepinephrine Transporter–Expressing Tumors

Aiko Yamaguchi, Hirofumi Hanaoka, Tetsuya Higuchi, and Yoshito Tsushima

## NEUROLOGY

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**822** Spatiotemporal Distribution of  $\beta$ -Amyloid in Alzheimer Disease Is the Result of Heterogeneous Regional Carrying Capacities

Alex Whittington, David J. Sharp, and Roger N. Gunn for the Alzheimer's Disease Neuroimaging Initiative

## GENITOURINARY

### Basic

**828** Functional Renal Imaging with 2-Deoxy-2-<sup>18</sup>F-Fluorosorbitol PET in Rat Models of Renal Disorders

Rudolf A. Werner, Hiroshi Wakabayashi, Xinyu Chen, Mitsuru Hirano, Tetsuya Shinaji, Constantin Lapa, Steven P. Rowe, Mehrbod S. Javadi, and Takahiro Higuchi

## MOLECULAR IMAGING

### Basic

**833** Sex as a Biologic Variable in Preclinical Imaging Research: Initial Observations with <sup>18</sup>F-FLT

Szeman Ruby Chan, Kelley Salem, Justin Jeffery, Ginny L. Powers, Yongjun Yan, Kooresh I. Shoghi, Aparna M. Mahajan, and Amy M. Fowler

## MUSCULOSKELETAL

### Basic

**839** ■ **FEATURED BASIC SCIENCE ARTICLE.** <sup>18</sup>F-FEDAC as a Targeting Agent for Activated Macrophages in DBA/1 Mice with Collagen-Induced Arthritis: Comparison with <sup>18</sup>F-FDG

Seock-Jin Chung, Hai-Jeon Yoon, Hyewon Youn, Mi Jeong Kim, Yun-Sang Lee, Jae Min Jeong, June-Key Chung, Keon Wook Kang, Lin Xie, Ming-Rong Zhang, et al.

## PHYSICS/INSTRUMENTATION

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**846** Comparison of PET/CT with Sequential PET/MRI Using an MR-Compatible Mobile PET System

Ryusuke Nakamoto, Yuji Nakamoto, Takayoshi Ishimori, Yasutaka Fushimi, Aki Kido, and Kaori Togashi

**852** Zero-Echo-Time and Dixon Deep Pseudo-CT (ZeDD CT): Direct Generation of Pseudo-CT Images for Pelvic PET/MRI Attenuation Correction Using Deep Convolutional Neural Networks with Multiparametric MRI

Andrew P. Leynes, Jaewon Yang, Florian Wiesinger, Sandeep S. Kaushik, Dattesh D. Shanbhag, Youngho Seo, Thomas A. Hope, and Peder E.Z. Larson

## DEPARTMENTS

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**860** Letters to the Editor