

## SNMMI NEWSLINE

- 9N** *JNM* Announces New Website and Social Media Sites
- 9N** SNMMI Launches Online Career Center
- 10N** SNMMI <sup>177</sup>Lu Dosimetry Challenge 2021
- 11N** SNMMI Leadership Update: SNMMI Virtual Meetings Go Above and Beyond  
Virginia Pappas
- 12N** Newsbriefs
- 13N** From the Literature

## DISCUSSIONS WITH LEADERS

- 435** Leadership in Medicine, Industry, and Innovation: A Conversation Between Jörg F. Debatin and Thomas Beyer  
Jörg F. Debatin and Thomas Beyer

## THE STATE OF THE ART

- 438** The Role of <sup>89</sup>Zr-Immuno-PET in Navigating and Derisking the Development of Biopharmaceuticals  
Guus A.M.S. van Dongen, Wissam Beaino, Albert D. Windhorst, Gerben J.C. Zwezerijnen, Daniela E. Oprea-Lager, N. Harry Hendrikse, Cornelis van Kuijk, Ronald Boellaard, Marc C. Huisman, and Danielle J. Vugts

## CONTINUING EDUCATION

- 446** Bone Mineral Density: Clinical Relevance and Quantitative Assessment  
Katherine N. Haseltine, Tariq Chukir, Pinar J. Smith, Justin T. Jacob, John P. Bilezikian, and Azeez Farooki

## HOT TOPICS

- 455** Agent Optimization: Absorption, Distribution, Metabolism, Excretion, Dose, and Decay  
Martin W. Brechbiel

## FOCUS ON MOLECULAR IMAGING

- 457** Advances in Imaging Reactive Oxygen Species  
Eli M. Espinoza, Joachim Justad Roise, I-Che Li, Riddha Das, and Niren Murthy

## EDITORIAL

- 462** The Evolution of PET/MR Is Hindered by Our Field's Reluctance to Provide Critical Evaluation  
Adam L. Kesner

## ONCOLOGY

### Clinical

- 464** Treatment Monitoring of Immunotherapy and Targeted Therapy Using <sup>18</sup>F-FET PET in Patients with Melanoma and Lung Cancer Brain Metastases: Initial Experiences  
Norbert Galldiks, Diana S.Y. Abdulla, Matthias Scheffler, Fabian Wolpert, Jan-Michael Werner, Martin Hüllner, Gabriele Stoffels, Viola Schweinsberg, Max Schlaak, Nicole Kreuzberg, et al.
- 471** Lymphocyte Infiltration Determines the Hypoxia-Dependent Response to Definitive Chemoradiation in Head-and-Neck Cancer: Results from a Prospective Imaging Trial  
Nils H. Nicolay, Alexander Rühle, Nicole Wiedenmann, Gabriele Niedermann, Michael Mix, Wolfgang A. Weber, Dimos Baltas, Martin Werner, Gian Kayser, and Anca-L. Grosu
- 479** First Experience Using <sup>18</sup>F-Flubrobenguane PET Imaging in Patients with Suspected Pheochromocytoma or Paraganglioma  
Lukas Kessler, Anna M. Schlitter, Markus Krönke, Alexander von Werder, Robert Tauber, Tobias Maurer, Simon Robinson, Cesare Orlandi, Michael Herz, Behrooz H. Yousefi, et al.
- 486** Surveillance of Clinically Complete Responders Using Serial <sup>18</sup>F-FDG PET/CT Scans in Patients with Esophageal Cancer After Neoadjuvant Chemoradiotherapy  
Maria J. Valkema, Berend J. van der Wilk, Ben M. Eyck, Bas P.L. Wijnhoven, Manon C.W. Spaander, Michail Doukas, Sjoerd M. Lagarde, Wendy M.J. Schreurs, Mark J. Roef, J. Jan B. van Lanschot, et al.

### Translational

- 493** Phase I Study of <sup>99m</sup>Tc-ADAPT6, a Scaffold Protein-Based Probe for Visualization of HER2 Expression in Breast Cancer  
Olga Bragina, Emma von Witting, Javad Garousi, Roman Zelchan, Mattias Sandström, Anna Orlova, Anna Medvedeva, Artem Doroshenko, Anzhelika Vorobyeva, Sarah Lindbo, et al.

### Basic

- 500** Longitudinal Molecular Imaging of Progesterone Receptor Reveals Early Differential Response to Endocrine Therapy in Breast Cancer with an Activating *ESR1* Mutation  
Manoj Kumar, Kelley Salem, Justin J. Jeffery, Yongjun Yan, Aparna M. Mahajan, and Amy M. Fowler

## THERANOSTICS

### Clinical

- 507** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE.** Somatostatin Receptor-Targeted Radiopeptide Therapy in Treatment-Refractory Meningioma: Individual Patient Data Meta-analysis  
Christian Mirian, Anne Katrine Duun-Henriksen, Andrea Maier, Maria Møller Pedersen, Lasse Rehné Jensen, Asma Bashir, Thomas Graillon, Maya Hrachova, Daniela Bota, Martijn van Essen, et al.
- 514** High Interobserver Agreement for the Standardized Reporting System SSTR-RADS 1.0 on Somatostatin Receptor PET/CT  
Rudolf A. Werner, Thorsten Derlin, Steven P. Rowe, Lena Bundschuh, Gabriel T. Sheikh, Martin G. Pomper, Sebastian Schulz, Takahiro Higuchi, Andreas K. Buck, Frank M. Bengel, et al.

## Basic

- 521** <sup>177</sup>Lu-Labeled Albumin-Binder-Conjugated PSMA-Targeting Agents with Extremely High Tumor Uptake and Enhanced Tumor-to-Kidney Absorbed Dose Ratio  
Hsiou-Ting Kuo, Kuo-Shyan Lin, Zhengxing Zhang, Carlos F. Uribe, Helen Merkens, Chengcheng Zhang, and François Bénard

## AI/ADVANCED IMAGE ANALYSIS

### Clinical

- 528** Deep-Learning Generation of Synthetic Intermediate Projections Improves <sup>177</sup>Lu SPECT Images Reconstructed with Sparsely Acquired Projections  
Tobias Rydén, Martijn Van Essen, Ida Marin, Johanna Svensson, and Peter Bernhardt

## CARDIOVASCULAR

### Basic

- 536** ■ **FEATURED BASIC SCIENCE ARTICLE.** Quantification of Macrophage-Driven Inflammation During Myocardial Infarction with <sup>18</sup>F-LW223, a Novel TSPO Radiotracer with Binding Independent of the rs6971 Human Polymorphism  
Mark G. MacAskill, Agne Stadulyte, Lewis Williams, Timaeus E.F. Morgan, Nikki L. Sloan, Carlos J. Alcaide-Corral, Tashfeen Walton, Catriona Wimberley, Chris-Anne McKenzie, Nick Spath, et al.

## NEUROLOGY

### Clinical

- 545** Dopaminergic Nigrostriatal Connectivity in Early Parkinson Disease: In Vivo Neuroimaging Study of <sup>11</sup>C-DTBZ PET Combined with Correlational Tractography  
Carlos A. Sanchez-Catasus, Nicolaas I. Bohnen, Fang-Cheng Yeh, Nicholas D'Cruz, Prabesh Kanel, and Martijn L.T.M. Müller

### Translational

- 553** First-in-Human Assessment of <sup>11</sup>C-LSN3172176, an M1 Muscarinic Acetylcholine Receptor PET Radiotracer  
Mika Naganawa, Nabeel Nabulsi, Shannan Henry, David Matuskey, Shu-Fei Lin, Lawrence Sliker, Adam J. Schwarz, Nancy Kant, Cynthia Jesudason, Kevin Ruley, et al.
- 561** First-in-Human Evaluation of <sup>18</sup>F-SynVesT-1, a Radioligand for PET Imaging of Synaptic Vesicle Glycoprotein 2A  
Mika Naganawa, Songye Li, Nabeel Nabulsi, Shannan Henry, Ming-Qiang Zheng, Richard Pracitto, Zhengxin Cai, Hong Gao, Michael Kapinos, David Labaree, et al.

## PEDIATRICS

### Clinical

- 568** ■ **INVITED PERSPECTIVE.** Dose Optimization in Pediatric Studies: Why It Is Important and How It Can Benefit Every Nuclear Medicine Department  
John O. Prior, Siroos Mirzaei, Silvano Gnesin, and Marie Nicod Lalonde
- 570** Developing and Implementing an Imaging Optimization Study in Pediatric Nuclear Medicine: Experience and Recommendations from an IAEA-Coordinated Research Project  
Gian Luca Poli, Marco Coca, Leonel Torres, Frederic Fahey, Michael Lassmann, Claire-Louise Chapple, Peter Homolka, and Harry Delis

## INFLAMMATION/INFECTION

### Translational

- 577** ■ **FEATURED ARTICLE OF THE MONTH.** First-in-Humans Study of <sup>68</sup>Ga-DOTA-Siglec-9, a PET Ligand Targeting Vascular Adhesion Protein 1  
Riikka Viitanen, Olli Moisio, Petteri Lankinen, Xiang-Guo Li, Mikko Koivumäki, Sami Suilamo, Tuula Tolvanen, Kirsi Taimen, Markku Mali, Ija Kohonen, et al.

## RADIOBIOLOGY/DOSIMETRY

### Basic

- 584**  $\gamma$ -Tocotrienol-Loaded Liposomes for Radioprotection from Hematopoietic Side Effects Caused by Radiotherapeutic Drugs  
Sang-gyu Lee, Teja Muralidhar Kalidindi, Hanzhi Lou, Kishore Gangangari, Blesida Punzalan, Ariana Bitton, Casey J. Lee, Hebert A. Vargas, Soobin Park, Lisa Bodei, et al.

## LETTERS TO THE EDITOR

- 591** PET/MRI Versus PET/CT for Whole-Body Staging  
Stephen K. Gerard
- 591** Radioguided Surgery  
Giuliano Mariani, Renato A. Valdés Olmos, Sergi Vidal-Sicart, and H. William Strauss
- 592** Reply: Radioguided Surgery  
Wolfgang Weber and Johannes Czernin

## DEPARTMENTS

- 8A** This Month in JNM