

## SNMMI NEWSLINE

- 15N** 2022 SNMMI Highlights Lecture: Neuroscience  
Julie Price
- 23N** SNMMI Leadership Update: SNMMI Mid-Winter and ACNM Annual Meeting in San Francisco  
Virginia Pappas
- 24N** From the Literature

## DISCUSSIONS WITH LEADERS

- 1617** From International Leadership in Cardiac Disease to a Focus on Heart Health: A Conversation Between Valentín Fuster and Marcelo Di Carli  
Valentín Fuster and Marcelo F. Di Carli

## THE STATE OF THE ART

- 1620** Precision Surgery Guided by Intraoperative Molecular Imaging  
Feredun Azari, Kevin Zhang, Gregory T. Kennedy, Ashley Chang, Bilal Nadeem, Edward J. Delikatny, and Sunil Singhal

## CONTINUING EDUCATION

- 1628** Oligometastatic Prostate Cancer: Current Status and Future Challenges  
Hossein Jadvar, Andre Luis Abreu, Leslie K. Ballas, and David I. Quinn

## FOCUS ON MOLECULAR IMAGING

- 1636** Combined Targeted Radiopharmaceutical Therapy and Immune Checkpoint Blockade: From Preclinical Advances to the Clinic  
Michael C. Bellavia, Ravi B. Patel, and Carolyn J. Anderson

## EDITORIAL

- 1642** Prostate Cancer Theranostics: Concurrent Approvals by the Food and Drug Administration of the First Diagnostic Imaging Drug Indicated to Select Patients for a Paired Radioligand Therapeutic Drug  
A. Alex Hofling, Anthony F. Fotenos, Gang Niu, Jaleh Fallah, Sundeep Agrawal, Sue-Jane Wang, and Libero Marzella

## THERANOSTICS

### Clinical

- 1644** The PRIMARY Score: Using Intraprostatic <sup>68</sup>Ga-PSMA PET/CT Patterns to Optimize Prostate Cancer Diagnosis  
Louise Emmett, Nathan Papa, James Buteau, Bao Ho, Victor Liu, Matthew Roberts, James Thompson, Dan Moon, Gemma Sheehan-Dare, Omar Alghazo, et al.

- 1651** Novel Framework for Treatment Response Evaluation Using PSMA PET/CT in Patients with Metastatic Castration-Resistant Prostate Cancer (RECIP 1.0): An International Multicenter Study  
Andrei Gafita, Isabel Rauscher, Manuel Weber, Boris Hadaschik, Hui Wang, Wesley R. Armstrong, Robert Tauber, Tristan R. Grogan, Johannes Czernin, Matthew B. Rettig, et al.

- 1659** Robot-Assisted Prostate-Specific Membrane Antigen–Radioguided Surgery in Primary Diagnosed Prostate Cancer  
William Gondoputro, Matthijs J. Scheltema, Alexander Blazevski, Paul Doan, James E. Thompson, Amer Amin, Bart Geboers, Shikha Agrawal, Amila Siriwardana, Pim J. Van Leeuwen, et al.

- 1665** A Pipeline for Automated Voxel Dosimetry: Application in Patients with Multi-SPECT/CT Imaging After <sup>177</sup>Lu-Peptide Receptor Radionuclide Therapy  
Yuni K. Dewaraja, David M. Mirando, Avery B. Peterson, Jeremy Niedbala, John D. Millet, Justin K. Mikell, Kirk A. Frey, Ka Kit Wong, Scott J. Wilderman, and Aaron S. Nelson

## ONCOLOGY

### Clinical

- 1673** Temporary Reactive Response of Axillary Lymph Nodes to COVID-19 Vaccination on <sup>18</sup>F-rhPSMA-7.3 PET/CT in Patients with Prostate Cancer  
Susan Notohamiprodjo, Matthias Eiber, Christian Lohrmann, and Wolfgang A. Weber
- 1677** Cost Effectiveness of <sup>18</sup>F-FET PET for Early Treatment Response Assessment in Glioma Patients After Adjuvant Temozolomide Chemotherapy  
Jurij Rosen, Garry Ceccon, Elena K. Bauer, Jan-Michael Werner, Caroline Tscherpel, Veronika Dunkl, Marion Rapp, Michael Sabel, Ulrich Herrlinger, Alexander Heinzel, et al.
- 1683** ■ **BRIEF COMMUNICATION.** Dual-Tracer PET/CT Protocol with [<sup>18</sup>F]-FDG and [<sup>68</sup>Ga]Ga-FAPI-46 for Cancer Imaging: A Proof of Concept  
Katrin S. Roth, Conrad-Amadeus Voltin, Lutz van Heek, Simone Wegen, Klaus Schomäcker, Thomas Fischer, Simone Marnitz, Alexander Drzezga, and Carsten Kobe
- 1687** ■ **FEATURED ARTICLE OF THE MONTH.** Imaging of C-X-C Motif Chemokine Receptor 4 Expression in 690 Patients with Solid or Hematologic Neoplasms Using <sup>68</sup>Ga-Pentixafor PET  
Andreas K. Buck, Alexander Haug, Niklas Dreher, Alessandro Lambertini, Takahiro Higuchi, Constantin Lapa, Alexander Weich, Martin G. Pomper, Hans-Jürgen Wester, Anja Zehndner, et al.
- 1693** Factors for Differential Outcome Across Cancers in Clinical Molecule-Targeted Fluorescence Imaging  
Quan Zhou, Nynke S. van den Berg, Wenying Kang, Jacqueline Pei, Naoki Nishio, Stan van Keulen, Myrthe A. Engelen, Yu-Jin Lee, Marisa Hom, Johana C.M. Vega Leonel, et al.

## Translational

### **1701** CD133 as a Biomarker for an Autoantibody-to-ImmunoPET Paradigm for the Early Detection of Small Cell Lung Cancer

Andrew G. Kunihiro, Samantha M. Sarrett, Kristin J. Lastwika, Joell L. Solan, Tatyana Pisarenko, Outi Keinänen, Cindy Rodriguez, Lydia R. Taverne, Annette L. Fitzpatrick, Christopher I. Li, et al.

## Basic

### **1708** ■ **FEATURED BASIC SCIENCE ARTICLE.** Dynamic Tumor-Specific MHC-II Immuno-PET Predicts the Efficacy of Checkpoint Inhibitor Immunotherapy in Melanoma

Zhen Yang, Feng Li, Yuqian Huang, Na Yin, Junjun Chu, Ying Ma, Roderic I. Pettigrew, Dale J. Hamilton, Diego R. Martin, and Zheng Li

### **1715** <sup>89</sup>Zr-3,2-HOPO-Mesothelin Antibody PET Imaging Reflects Tumor Uptake of Mesothelin-Targeted <sup>227</sup>Th-Conjugate Therapy in Mice

Linda N. Broer, Daan G. Knapen, Frans V. Suurs, Ingrid Moen, Danique Giesen, Stijn J.H. Waaijer, Baard Indrevoll, Christine Ellingsen, Alexander Kristian, Alan S. Cuthbertson, et al.

## CARDIOVASCULAR

## Clinical

### **1722** ■ **SPECIAL CONTRIBUTION.** Hot Spot Imaging in Cardiovascular Diseases: An Information Statement from SNMMI, ASNC, and EANM

Brett W. Sperry, Timothy M. Bateman, Esma A. Akin, Paco E. Bravo, Wengen Chen, Vasken Dilsizian, Fabien Hyafil, Yiu Ming Khor, Robert J.H. Miller, Riemer H.J.A. Slart, et al.

## NEUROLOGY

## Clinical

### **1741** Differential Diagnosis of Parkinsonism Based on Deep Metabolic Imaging Indices

Ping Wu, Yu Zhao, Jianjun Wu, Matthias Brendel, Jiaying Lu, Jingjie Ge, Alexander Bernhardt, Ling Li, Ian Alberts, Sabrina Katzdobler, et al.

### **1748** The Overlap Index as a Means of Evaluating Early Tau PET Signal Reliability

Jeyeon Lee, Brian J. Burkett, Hoon-Ki Min, Emily S. Lundt, Sabrina M. Albertson, Hugo Botha, Matthew L. Senjem, Jeffrey L. Gunter, Christopher G. Schwarz, David T. Jones, et al.

### **1754** <sup>18</sup>F-PI-2620 Tau PET Improves the Imaging Diagnosis of Progressive Supranuclear Palsy

Konstantin Messerschmidt, Henryk Barthel, Matthias Brendel, Cordula Scherlach, Karl-Titus Hoffmann, Boris-Stephan Rauchmann, Michael Rullmann, Kenneth Marek, Victor L. Villemagne, Jost-Julian Rumpf, et al.

## Basic

### **1761** Synthesis and Preclinical Evaluation of <sup>18</sup>F-Labeled Ketoprofen Methyl Esters for Cyclooxygenase-1 Imaging in Neuroinflammation

Miho Shukuri, Aya Mawatari, Shuhei Takatani, Tsuyoshi Tahara, Michiko Inoue, Wakiko Arakaki, Masahiro Ohno, Hisashi Doi, and Hirota Onoe

## AI/ADVANCED IMAGE ANALYSIS

## Clinical

### **1768** Explainable Deep Learning Improves Physician Interpretation of Myocardial Perfusion Imaging

Robert J.H. Miller, Keiichiro Kuronuma, Ananya Singh, Yuka Otaki, Sean Hayes, Panithaya Chareonthaitawee, Paul Kavanagh, Tejas Parekh, Balaji K. Tamarappoo, Tali Sharir, et al.

## RADIOBIOLOGY/DOSIMETRY

## Clinical

### **1775** Phase 1 Evaluation of <sup>11</sup>C-CS1P1 to Assess Safety and Dosimetry in Human Participants

Matthew R. Brier, Mahdjoub Hamdi, Jayashree Rajamanikam, Haiyang Zhao, Syahir Mansor, Lynne A. Jones, Farzaneh Rahmani, Saurabh Jindal, Deborah Koudelis, Joel S. Perlmutter, et al.

## DEPARTMENTS

### **12A** This Month in JNM