

MESSAGE FROM THE SNMMI PRESIDENT

- 829 Transforming the Science and Practice of Nuclear Medicine**
Munir Ghesani

DISCUSSIONS WITH LEADERS

- 831 Defining Myeloma and Advancing Treatment Options: A Conversation Between S. Vincent Rajkumar and Lale Kostakoglu**
S. Vincent Rajkumar and Lale Kostakoglu

STATE OF THE ART

- 835 ¹⁸F-Labeled Somatostatin Analogs as PET Tracers for the Somatostatin Receptor: Ready for Clinical Use**
Hannes Leupe, Stephen Ahenkorah, Jeroen Dekervel, Marcus Unterrainer, Eric Van Cutsem, Chris Verslype, Frederik Cleeren, and Christophe M. Deroose

CONTINUING EDUCATION

- 842 ¹⁸F-FDG PET/CT in the Management of Osteosarcoma**
Chiwoo Oh, Michael W. Bishop, Steve Y. Cho, Hyung-Jun Im, and Barry L. Shulkin

ONCOLOGY

Clinical

- 852 Distinguishing Progression from Pseudoprogression in Glioblastoma Using ¹⁸F-Fluciclovine PET**
Ali Nabavizadeh, Stephen J. Bagley, Robert K. Doot, Jeffrey B. Ware, Anthony J. Young, Satyam Ghodasara, Chao Zhao, Hannah Anderson, Erin Schubert, Erica L. Carpenter, et al.
- 859 ■ BRIEF COMMUNICATION. Preliminary Clinical Experience with Cholecystinin-2 Receptor PET/CT Using the ⁶⁸Ga-Labeled Minigastrin Analog DOTA-MGS5 in Patients with Medullary Thyroid Cancer**
Elisabeth von Guggenberg, Christian Uprimny, Maximilian Klinger, Boris Warwitz, Anna Sviridenko, Steffen Bayerschmidt, Gianpaolo di Santo, and Irene J. Virgolini
- 863 Consecutive Prostate-Specific Membrane Antigen (PSMA) and Antigen Receptor (AR) PET Imaging Shows Positive Correlation with AR and PSMA Protein Expression in Primary Hormone-Naïve Prostate Cancer**
Valentin al Jalali, Gabriel Wasinger, Sazan Rasul, Bernhard Grubmüller, Beatrix Wulkersdorfer, Theresa Balber, Markus Mitterhauser, Judit Simon, Marcus Hacker, Shahrokh Shariat, et al.

RADIONUCLIDE THERAPY

Clinical

- 869 ■ FEATURED CLINICAL INVESTIGATION ARTICLE. Developing a Patient-Reported Outcome Measure for Radionuclide Therapy for Prostate Cancer**
Lisa M. Gudenkauf, Melody N. Chavez, Melinda Leigh Maconi, Carley Geiss, Ameen Seyedroudbari, Pan Thin, Aasha I. Hoogland, Kathleen Nguyen, Vishnu Murthy, Wesley R. Armstrong, et al.

Basic

- 873 Signaling Network Response to α -Particle-Targeted Therapy with the ²²⁵Ac-Labeled Minigastrin Analog ²²⁵Ac-PP-F11N Reveals the Radiosensitizing Potential of Histone Deacetylase Inhibitors**
Yun Qin, Stefan Imobersteg, Stephan Frank, Alain Blanc, Tanja Chiorazzo, Philipp Berger, Roger Schibli, Martin P. Béhé, and Michal Grzmil

THERANOSTICS

Clinical

- 880 Evaluation of Hepatotoxicity from Peptide Receptor Radionuclide Therapy in Patients with Gastroenteropancreatic Neuroendocrine Tumors and a Very High Liver Tumor Burden**
Denise A. Gococo-Benore, Justin Kuhlman, Ephraim E. Parent, Akash Sharma, Joseph Accurso, Ming Yang, Ayse Tuba Kendi, Geoff Johnson, Mohamad Bassam Sonbol, Timothy Hobday, et al.
- 885 Efficacy and Safety of ¹²⁴I-MIBG Dosimetry-Guided High-Activity ¹³¹I-MIBG Therapy of Advanced Pheochromocytoma or Neuroblastoma**
Ines Maric, Manuel Weber, Andre Prochnow, Jochen Schmitz, Nicole Unger, Benedikt M. Schaarschmidt, Thorsten D. Poeppel, Christoph Rischpler, Andreas Bockisch, Ken Herrmann, et al.
- 892 ■ BRIEF COMMUNICATION. [¹⁷⁷Lu]Lu-PSMA Therapy as an Individual Treatment Approach for Patients with High-Grade Glioma: Dosimetry Results and Critical Statement**
Josefine Graef, Stephanie Bluemel, Winfried Brenner, Holger Amthauer, Peter Truckenmueller, David Kaul, Peter Vajkoczy, Julia S. Onken, and Christian Furth
- 896 Prognostic Role of ⁶⁸Ga-PSMA11 PET-Based Response in Patients with Prostate Cancer Undergoing Taxane-Based Chemotherapy**
Lukas Lunger, Maythinee Chantadisai, Amir Karimzadeh, Isabel Rauscher, Calogero D'Alessandria, Benedikt Feurecker, Thomas Langbein, Robert Tauber, Stefan Schiele, Wolfgang Weber, et al.
- 902 ⁶⁸Ga-PSMA PET/CT-Based Atlas for Prostate Bed Recurrence After Radical Prostatectomy: Clinical Implications for Salvage Radiation Therapy Contouring Guidelines**
Ida Sonni, Alan Dal Pra, Dylan P. O'Connell, Zachary Ells, Matthias Benz, Kathleen Nguyen, Stephanie M. Yoon, Jie Deng, Clayton Smith, Tristan Grogan, et al.
- 910 Prostate-Specific Membrane Antigen Expression on PET/CT in Patients with Metastatic Castration-Resistant Prostate Cancer: A Retrospective Observational Study**
Letizia Calderoni, Elisa Maietti, Andrea Farolfi, Riccardo Mei, Karly S. Louie, Michael Groaning, and Stefano Fanti
- 918 An Analysis of the Distribution of PSMA PET/CT-Positive Lymph Nodes and Their Coverage by Different Elective Nodal Radiation Volumes in Postoperative Prostate Cancer Patients**
Christian Trapp, Dmytro Oliynyk, Paul Rogowski, Rieke von Bestenbostel, Ute Ganswindt, Minglun Li, Chukwuka Eze, Peter Bartenstein, Leonie Beyer, Harun Ilhan, et al.

Basic

924 Cure of Disseminated Human Lymphoma with [²²⁵Ac]Ac-Ofatumumab in a Preclinical Model

Mark S. Longtine, Kyuhwan Shim, Mark J. Hoegger, Nadia Benabdallah, Diane S. Abou, Daniel L.J. Thorek, and Richard L. Wahl

CARDIOVASCULAR

Clinical

932 Left Ventricular Strain from Myocardial Perfusion PET Imaging: Method Development and Comparison to 2-Dimensional Echocardiography

Jingwen Huang, Adam J. Mitchell, Ernest V. Garcia, C. David Cooke, Russell Folks, Maria Pernetz, Abhinav Goyal, Marina Piccinelli, and Jonathon A. Nye

PULMONARY

Basic

940 ■ FEATURED ARTICLE OF THE MONTH. Radiolabeled GPVI-Fc for PET Imaging of Multiple Extracellular Matrix Fibers: A New Look into Pulmonary Fibrosis Progression

Simon Isser, Andreas Maurer, Gerald Reischl, Martin Schaller, Irene Gonzalez-Menendez, Leticia Quintanilla-Martinez, Meinrad Gawaz, Bernd J. Pichler, and Nicolas Beziere

RADIOBIOLOGY/DOSIMETRY

Clinical

946 Radioimmunoscintigraphy and Pretreatment Dosimetry of ¹³¹I-Omburtamab for Planning Treatment of Leptomeningeal Disease

Neeta Pandit-Taskar, Milan Grkovski, Pat B. Zanzonico, Keith S. Pentlow, Shakeel Modak, Kim Kramer, and John L. Humm

AI/ADVANCED IMAGE ANALYSIS

Clinical

951 An Investigation of Lesion Detection Accuracy for Artificial Intelligence–Based Denoising of Low-Dose ⁶⁴Cu-DOTATATE PET Imaging in Patients with Neuroendocrine Neoplasms

Mathias Loft, Claes N. Ladefoged, Camilla B. Johnbeck, Esben A. Carlsen, Peter Oturai, Seppo W. Langer, Ulrich Knigge, Flemming L. Andersen, and Andreas Kjaer

960 First Total-Body Kinetic Modeling and Parametric Imaging of Dynamic ⁶⁸Ga-FAPI-04 PET in Pancreatic and Gastric Cancer

Ruohua Chen, Xinlan Yang, Yee Ling Ng, Xiaofeng Yu, Yanmiao Huo, Xiuying Xiao, Chenpeng Zhang, Yumei Chen, Chaojie Zheng, Lianghua Li, et al.

968 Measurement of Cerebral Perfusion Indices from the Early Phase of [¹⁸F]MK6240 Dynamic Tau PET Imaging

Nicolas J. Guehl, Maeva Dhaynaut, Bernard J. Hanseeuw, Sung-Hyun Moon, Cristina Lois, Emma Thibault, Jessie Fanglu Fu, Julie C. Price, Keith A. Johnson, Georges El Fakhri, et al.

INVITED PERSPECTIVE

976 Artificial Intelligence Algorithms Need to Be Explainable—or Do They?

Tyler J. Bradshaw, Melissa D. McCradden, Abhinav K. Jha, Joyita Dutta, Babak Saboury, Eliot L. Siegel, and Arman Rahmim

PHYSICS AND INSTRUMENTATION

Basic

978 Submillimeter-Resolution PET for High-Sensitivity Mouse Brain Imaging

Han Gyu Kang, Hideaki Tashima, Hidekatsu Wakizaka, Fumihiko Nishikido, Makoto Higuchi, Miwako Takahashi, and Taiga Yamaya

SPECIAL CONTRIBUTION

986 Theranostic Radiopharmaceuticals: A Universal Challenging Educational Paradigm in Nuclear Medicine

Jean-Luc Urbain, Andrew M. Scott, Sze Ting Lee, John Buscombe, Charlotte Weston, Jun Hatazawa, Seigo Kinuya, Baljinder Singh, Mohamad Haidar, Andrew Ross, et al.

ILLUSTRATED POST

992 Incidental Focal ⁶⁸Ga-FAPI-46 Uptake in a Urachal Remnant: A Potential Pitfall Mimicking a Malignant Peritoneal Lesion

Peter George Maliha, Mahbod Jafarvard, Johannes Czernin, Jeremie Calais, and Masatoshi Hotta

993 Incidental Airway Findings on PET/CT with ¹⁸F-PSMA

Jason Orciuolo, Akash Sharma, Ephraim E. Parent, Joseph M. Accurso, Manoj K. Jain, and Jason R. Young

LETTERS TO THE EDITOR

994 Molecular Imaging of Pulmonary Inflammation: Claiming That Vaping Is More Harmful Than Smoking Is Unsupported

Riccardo Polosa, Lucia Spicuzza, and Stefano Palmucci

995 Reply: Molecular Imaging of Pulmonary Inflammation: Claiming That Vaping Is More Harmful Than Smoking Is Unsupported

Reagan R. Wetherill and Jacob Dubroff

996 PSMA PET/CT and Therapy Response Evaluation in Metastatic Prostate Cancer: Is It Time to Surpass the Old Way?

Laura Evangelista

DEPARTMENTS

10A This Month in JNM