

## EDITOR'S PAGE

- 997** *JNM* Editors' Choice Awards for 2022  
Johannes Czernin

## DISCUSSIONS WITH LEADERS

- 998** Leading the European Society of Cardiology: A Conversation Between Franz Weidinger, Frank Bengel, and Johannes Czernin  
Franz Weidinger, Frank Bengel, and Johannes Czernin

## STATE OF THE ART

- 1001** Fibroblast Activation Protein Inhibitor–Based Radionuclide Therapies: Current Status and Future Directions  
Manish Ora, Neetu Soni, Aftab Hasan Nazar, Manish Dixit, Rohit Singh, Savita Puri, Michael M. Graham, and Sanjay Gambhir

## CONTINUING EDUCATION

- 1009** Theranostics in Hematooncology  
Andreas K. Buck, Sebastian E. Serfling, Sabrina Kraus, Samuel Samnick, Niklas Dreher, Takahiro Higuchi, Leo Rasche, Hermann Einsele, and Rudolf A. Werner

## ONCOLOGY

### Basic

- 1017** Site-Specifically Conjugated Single-Domain Antibody Successfully Identifies Glypican-3–Expressing Liver Cancer by Immuno-PET  
Stanley Fayn, A. Paden King, Nicholas T. Gutsche, Zhijian Duan, Jesse Buffington, Colleen P. Olkowski, Ying Fu, Jessica Hong, Deepak Sail, Kwamena E. Baidoo, et al.

## THERANOSTICS

### Clinical

- 1024** ■ **FEATURED ARTICLE OF THE MONTH.** PSMA PET Tumor-to-Salivary Gland Ratio to Predict Response to [<sup>177</sup>Lu]PSMA Radioligand Therapy: An International Multicenter Retrospective Study  
Masatoshi Hotta, Andrei Gafita, Vishnu Murthy, Matthias R. Benz, Ida Sonni, Irene A. Burger, Matthias Eiber, Louise Emmett, Andrea Farolfi, Wolfgang P. Fendler, et al.
- 1030** Staging Prostate Cancer with <sup>68</sup>Ga-PSMA-11 PET/CT in the Elderly: Is Preimaging Biopsy Imperative?  
Mikhail Kesler, Dan Cohen, Charles Levine, David Sarid, Daniel Keizman, Ofer Yossepowitch, and Einat Even-Sapir

- 1036** Delayed Imaging Improves Lesion Detectability in [<sup>99m</sup>Tc]Tc-PSMA-I&S SPECT/CT in Recurrent Prostate Cancer

Christoph Berliner, Lisa Steinhelfer, Maythinee Chantadisai, Markus Kroenke, Daniel Koehler, Randi Pose, Peter Bannas, Sophie Knipper, Matthias Eiber, and Tobias Maurer

- 1043** <sup>68</sup>Ga-FAPI PET/CT Interobserver Agreement on Tumor Assessment: An International Multicenter Prospective Study

Riccardo Mei, Lukas Kessler, Kim M. Pabst, Manuel Weber, Christian Schmidkonz, Christoph Rischpler, Helle Damgaard Zacho, Thomas Hope, Sarah M. Schwarzenböck, Martin Allen-Auerbach, et al.

- 1049** Superior Tumor Detection for <sup>68</sup>Ga-FAPI-46 Versus <sup>18</sup>F-FDG PET/CT and Conventional CT in Patients with Cholangiocarcinoma

Kim M. Pabst, Marija Trajkovic-Arsic, Phyllis F.Y. Cheung, Simone Ballke, Katja Steiger, Timo Bartel, Benedikt M. Schaarschmidt, Aleksandar Milosevic, Robert Seifert, Michael Nader, et al.

### Basic

- 1056** ■ **FEATURED BASIC SCIENCE ARTICLE.** Addition of Peptide Receptor Radiotherapy to Immune Checkpoint Inhibition Therapy Improves Outcomes in Neuroendocrine Tumors

Shadi A. Esfahani, Carolina De Aguiar Ferreira, Priska Summer, Umar Mahmood, and Pedram Heidari

- 1062** Evaluation of Candidate Theranostics for <sup>227</sup>Th/<sup>69</sup>Zr Paired Radioimmunotherapy of Lymphoma

Diane S. Abou, Mark Longtine, Amanda Fears, Nadia Benabdallah, Ryan Unnerstall, Hannah Johnston, Kyuhwan Shim, Abbie Hasson, Hanwen Zhang, David Ulmert, et al.

- 1069** PSMA-GCK01: A Generator-Based <sup>99m</sup>Tc/<sup>188</sup>Re Theranostic Ligand for the Prostate-Specific Membrane Antigen

Jens Cardinale, Frederik L. Giesel, Christina Wensky, Hendrik G. Rathke, Uwe Haberkorn, and Clemens Kratochwil

- 1076** Evaluation of <sup>134</sup>Ce/<sup>134</sup>La as a PET Imaging Theranostic Pair for <sup>225</sup>Ac α-Radiotherapeutics

Kondapa Naidu Bobba, Anil P. Bidkar, Niranjan Meher, Cyril Fong, Anju Wadhwa, Suchi Dhrona, Alex Sorlin, Scott Bidlingmaier, Becka Shuere, Jiang He, et al.

## CARDIOVASCULAR

### Clinical

- 1083** ■ **BRIEF COMMUNICATION.** Regression of Myocardial <sup>99m</sup>Tc-DPD Uptake After Tafamidis Treatment of Cardiac Transthyretin Amyloidosis

Maria Papathanasiou, Lukas Kessler, Frank M. Bengel, Aiste-Monika Jakstaite, David Kersting, Zohreh Varasteh, Peter Luedike, Alexander Carpinteiro, Ken Herrmann, Tienush Rassaf, et al.

## NEUROLOGY

### Clinical

- 1087** Hybrid  $^{18}\text{F}$ -Fluoroethyltyrosine PET and MRI with Perfusion to Distinguish Disease Progression from Treatment-Related Change in Malignant Brain Tumors: The Quest to Beat the Toughest Cases  
Nathaniel J. Smith, Tristan K. Deaton, Wendy Territo, Brian Graner, Andrew Gauger, Scott E. Snyder, Michael L. Schulte, Mark A. Green, Gary D. Hutchins, and Michael C. Veronesi
- 1093** ■ INVITED PERSPECTIVE. Hybrid  $^{18}\text{F}$ -FET PET and Perfusion MRI to Differentiate Disease Progression from Treatment-Related Changes in Malignant Brain Tumors  
Norbert Galldiks and Karl-Josef Langen

## RADIOBIOLOGY/DOSIMETRY

### Clinical

- 1095** Multicenter Evaluation of Frequency and Impact of Activity Infiltration in PET Imaging, Including Microscale Modeling of Skin-Absorbed Dose  
John J. Sunderland, Stephen A. Graves, Dusty M. York, Christine A. Mundt, and Twyla B. Bartel
- 1102** Voxel-Based Dosimetry Predicts Hepatotoxicity in Hepatocellular Carcinoma Patients Undergoing Radioembolization with  $^{90}\text{Y}$  Glass Microspheres  
Masao Watanabe, Hong Grafe, Jens Theysohn, Benedikt Schaarschmidt, Johannes Ludwig, Leonie Jochheim, Matthias Jeschke, Hartmut Schmidt, Wolfgang P. Fendler, Alexandros Moraitis, et al.
- 1109** An International Study of Factors Affecting Variability of Dosimetry Calculations, Part 2: Overall Variabilities in Absorbed Dose  
Julia Brosch-Lenz, Suqi Ke, Hao Wang, Eric Frey, Yuni K. Dewaraja, John Sunderland, and Carlos Uribe
- 1117** ■ SPECIAL CONTRIBUTION. MIRD Pamphlet No. 28, Part 1: MIRDcalc—A Software Tool for Medical Internal Radiation Dosimetry  
Adam L. Kesner, Lukas M. Carter, Juan C. Ocampo Ramos, Daniel Lafontaine, Edmond A. Olguin, Justin L. Brown, Bonnie President, Derek W. Jokisch, Darrell R. Fisher, and Wesley E. Bolch
- 1125** The Role of Pretherapy Quantitative Imaging and Dosimetry in Radioiodine Therapy for Advanced Thyroid Cancer  
Jan Taprogge, Carla Abreu, Siraj Yusuf, Gemma Ainsworth, Rachel H. Phillip, Jonathan I. Gear, Rebecca Gregory, Francesca Leek, Iain Murray, Amy B. Coulson, et al.

## 1131 Optimized SPECT Imaging of $^{224}\text{Ra}$ $\alpha$ -Particle Therapy by $^{212}\text{Pb}$ Photon Emissions

Lars Tore Gyland Mikalsen, Monika Kvassheim, and Caroline Stokke

## RADIOCHEMISTRY/RADIOPHARMACEUTICALS

### Clinical

- 1138**  $^{161}\text{Tb}$ -DOTATOC Production Using a Fully Automated Disposable Cassette System: A First Step Toward the Introduction of  $^{161}\text{Tb}$  into the Clinic  
Chiara Favaretto, Pascal V. Grundler, Zeynep Talip, Stefan Landolt, Lebogang Sepini, Ulli Köster, Cristina Müller, Roger Schibli, Susanne Geistlich, and Nicholas P. van der Meulen

## AI/ADVANCED IMAGE ANALYSIS

### Clinical

- 1145** Fully Automated, Fast Motion Correction of Dynamic Whole-Body and Total-Body PET/CT Imaging Studies  
Lalith Kumar Shiyam Sundar, Martin Lyngby Lassen, Sebastian Gutschmayer, Daria Ferrara, Anna Calabrò, Josef Yu, Kilian Kluge, Yiran Wang, Lorenzo Nardo, Philip Hasbak, et al.
- 1154** High-Temporal-Resolution Lung Kinetic Modeling Using Total-Body Dynamic PET with Time-Delay and Dispersion Corrections  
Yiran Wang, Benjamin A. Spencer, Jeffrey Schmall, Elizabeth Li, Ramsey D. Badawi, Terry Jones, Simon R. Cherry, and Guobao Wang

## ILLUSTRATED POST

- 1162** Incidental Detection of a Tenosynovial Giant Cell Tumor of the Thigh on [ $^{68}\text{Ga}$ ]Ga-FAPI PET/CT: Presentation of an Unusual Case  
Timur Sellmann, Felicitas Staak, Clemens Maurer, Gernot Rott, Oliver Witzke, Wolfgang Fendler, Hans-Ulrich Schildhaus, Lars Erik Podleska, Ken Herrmann, and Christoph Rischpler

## LETTERS TO THE EDITOR

- 1164** Clinical Potential of HER2 PET as a Predictive Biomarker to Guide the Use of Trastuzumab Deruxtecan in Breast Cancer Patients  
Romain-David Seban, Laurence Champion, Audrey Bellesoeur, Anne Vincent-Salomon, and Francois-Clement Bidard

## DEPARTMENTS

### 6A This Month in JNM