

EDITOR'S PAGE

- 333 Reflections on the Demand for PSMA- and SSTR-Targeted Radiopharmaceutical Therapies: Why We Were Wrong (and Why We Will Be Right Eventually)**
Johannes Czernin, Lisa Bodei, Irvin Modlin, and Jeremie Calais

DISCUSSIONS WITH LEADERS

- 337 Advancing Tomorrow's Cancer Medicines**
Jacob S. Van Naarden, Ken Herrmann, and Johannes Czernin

THE STATE OF THE ART

- 340 Green Nuclear Medicine and Radiotheranostics**
Patrick Veit-Haibach, Ken Herrmann, Richard Zimmermann, and Roland Hustinx

FOCUS ON MOLECULAR IMAGING

- 344 Molecular Imaging in Cancer Chemoresistance: What's Brewing?**
Luca Urso, Licia Uccelli, Alessandra Boschi, Orazio Schillaci, and Luca Filippi

IS IT REALLY HAPPENING?

- 349 SPECT Deserves RESPECT: The Potential of SPECT/CT to Optimize Patient Outcomes with Theranostics Therapy**
Louise Emmett

EDITORIAL

- 351 China's Innovations in Nuclear Medicine: Global Insights into Clinical Advancements and Impact**
Xun Wang, Yifan Dong, and Shuo Zhang

THERANOSTICS

Clinical

- 352 Evaluation of Surgical Margins with Intraoperative PSMA PET/CT and Their Prognostic Value in Radical Prostatectomy**
Alexandros Moraitis, Theresa Kahl, Jens Kandziora, Walter Jentzen, David Kersting, Lukas Püllen, Henning Reis, Jens Köllermann, Claudia Kesch, Ulrich Krafft, et al.
- 359 Safety, Dosimetry, and Feasibility of [⁶⁸Ga]Ga-PSMA-R2 as an Imaging Agent in Patients with Biochemical Recurrence or Metastatic Prostate Cancer**
Liza Lindenberg, Thomas A. Hope, Frank I. Lin, Steven P. Rowe, Darko Pucar, Noella Gilbert, Daniela Chicco, Beilei He, Benedikt Feueracker, Elena Castaldi, et al.

- 366 ^{99m}Tc-MIP-1404 SPECT/CT Companion Diagnostic for ¹⁷⁷Lu-PSMA Therapy in Metastatic Castration-Resistant Prostate Cancer**

Thorsten Derlin, Liam Widjaja, Nina Natascha Harke, Christoph Czerner, Desiree Weiberg, Tobias L. Ross, and Frank M. Bengel

- 373 ■ BRIEF COMMUNICATION. Exploring the Flare Phenomenon in Patients with Castration-Resistant Prostate Cancer: Enzalutamide-Induced PSMA Upregulation Observed on PSMA PET**

Suzanne van der Gaag, André N. Vis, Imke H. Bartelink, Josephina C.C. Koppes, Marina Hodolic, Harry Hendrikse, and Daniela E. Oprea-Lager

Translational

- 377 ¹⁷⁷Lu-Labeled Anticlaudin 6 Monoclonal Antibody for Targeted Therapy in Esophageal Cancer**

Huan Du, Xiaofei Hao, Binwei Lin, Mingming Tang, Decai Wang, Xia Yang, Jing Wang, Liling Qin, Yuchuan Yang, and Xiaobo Du

Basic

- 385 DNA-Dependent Protein Kinase Inhibitor Pepsotib Enhances Efficacy of ¹⁷⁷Lu-Based Radioimmunotherapy in Preclinical Models of Prostate and Renal Cell Carcinoma**

Cameron N. Johnstone, Laura D. Osellame, Zhipeng Cao, Alexander F. McDonald, Angela Rigopoulos, Ingrid J.G. Burvenich, Christian W. Wichmann, Nancy Guo, Alesia N. Ivashkevich, Michael P. Wheatcroft, et al.

- 391 Side-by-Side Comparison of the In Vivo Performance of [²¹²Pb]Pb-DOTAMTATE and Other SSTR2-Targeting Compounds**

Amal Saidi, Tania A. Stallons, Amy G. Wong, Aaron T. Schatzmann, Ugur Soysal, and Julien J. Torgue

NEUROLOGY

Clinical

- 398 ■ FEATURED CLINICAL INVESTIGATION ARTICLE. PET Quantification in Healthy Humans of Cyclooxygenase-2, a Potential Biomarker of Neuroinflammation**

Xuefeng Yan, Martin Noergaard, Cheryl L. Morse, Jeih-San Liow, Jinsoo Hong, Douglas Greve, Sanjay Telu, Min-Jeong Kim, Jose A. Montero Santamaria, Anthony Galassi, et al.

- 405 Dopaminergic Mechanisms of Cognitive Flexibility: An [¹⁸F] Fallypride PET Study**

Isabelle Miederer, Hans-Georg Buchholz, Lena Rademacher, Cindy Eckart, Dominik Kraft, Markus Piel, Christian J. Fiebach, and Mathias Schreckenberger

- 410** [¹⁸F]MK-6240 Radioligand Delivery Indices as Surrogates of Cerebral Perfusion: Bias and Correlation Against [¹⁵O]Water
Jessie Fanglu Fu, Meher R. Juttukonda, Arun Garimella, Andrew N. Salvatore, Cristina Lois, Anthony Ranasinghe, Nikos Efthimiou, Hasan Sari, William Aye, Nicolas J. Guehl, et al.

INFLAMMATION/INFECTION

Clinical

- 418** ⁶⁸Ga-FAPI-04 PET/CT Imaging for Assessing Renal Tubulointerstitial Fibrosis in Lupus Nephritis
Shuyi Yu, Zhixia Yang, Zetao Ding, Yingqi Jia, Liyan Wan, Lei Li, Jing Lv, Haoyu Pan, Jinyi Qian, Xiaohan Wei, et al.
- 425** Collagen Hybridizing Peptide-Based Radiotracers for Molecular Imaging of Collagen Turnover in Pulmonary Fibrosis
Azmi A. Ahmad, Mean Ghim, Gunjan Kukreja, Afarin Neishabouri, Zhengxing Zhang, Jie Li, Mani Salarian, Jakub Toczek, Kiran Gona, Keshvad Hedayatyanfard, et al.

ENDOCRINOLOGY

Clinical

- 434** A Phase I/IIa Clinical Trial to Evaluate Safety and Adrenal Uptake of Para-Chloro-2-[¹⁸F]Fluoroethyltomidate in Healthy Volunteers and Patients with Primary Aldosteronism
Daniel Gillett, Russell Senanayake, James MacFarlane, Waiel Bashari, August Palma, Lihua Hu, Ines Harper, Iosif A. Mendichovszky, Gunnar Antoni, Per Hellman, et al.

RADIOBIOLOGY/DOSIMETRY

Clinical

- 441** An International Study of Factors Affecting Variability of Dosimetry Calculations, Part 4: Impact of Fitting Functions in Estimated Absorbed Doses
Sara Kurkowska, Julia Brosch-Lenz, Yuni K. Dewaraja, Eric Frey, John Sunderland, and Carlos Uribe
- 449** Dosimetry of [¹⁷⁷Lu]Lu-DOTATATE in Patients with Advanced Midgut Neuroendocrine Tumors: Results from a Substudy of the Phase III NETTER-1 Trial
Lisa Bodei, Marta Cremonesi, Mahila Ferrari, Erik S. Mittra, Harshad R. Kulkarni, Christophe M. Deroose, Rajaventhana Srirajaskanthan, John Ramage, Chiara Maria Grana, Francesca Botta, et al.
- 457** ■ **SPECIAL CONTRIBUTION.** MIRD Pamphlet No. 32: A MIRD Recovery Coefficient Model for Resolution Characterization and Shape-Specific Partial-Volume Correction
Harry Marquis, C. Ross Schmidlein, Robin de Nijs, Pablo Mínguez Gabiña, Johan Gustafsson, Gunjan Kayal, Juan C. Ocampo Ramos, Lukas M. Carter, Dale L. Bailey, Adam L. Kesner, et al.

AI/ADVANCED IMAGE ANALYSIS

Clinical

- 466** Positron Range Correction Helps Enhance the Image Quality of Cardiac ⁸²Rb PET/CT
Martin Lyngby Lassen, Hunor Kertész, Ivo Rausch, Vladimir Panin, Maurizio Conti, Sven Zuehlsdorff, Jorge Cabello, Deepak Bharkhada, Robert DeKemp, Andreas Kjaer, et al.

MOLECULAR IMAGING

Translational

- 473** ■ **FEATURED ARTICLE OF THE MONTH.** Pilot Study of Nectin-4-Targeted PET Imaging Agent ⁶⁸Ga-FZ-NR-1 in Triple-Negative Breast Cancer from Bench to First-in-Human
Li Sun, Yuyun Sun, Ke Zuo, Lei Fan, Xiao Wang, Jianping Zhang, Silong Hu, Xiaosheng Liu, Jindian Li, Ye Li, et al.

PRACTICE STANDARDS

Clinical

- 480** Summary: EANM/SNMMI Release Joint Guideline/ Procedure Standard for [¹⁸F]FDG Hybrid PET Use in Infection and Inflammation in Adults, Version 2.0
Olivier Gheysens, Matthieu Pelletier-Galarneau, Giorgio Treglia, Ora Israel, Francois Jamar, and Gad Abikhzer

THE ILLUSTRATED POST

- 482** CD38-Targeted ⁸⁹Zr-DFO-Daratumumab PET of Myeloma: Immuno-PET Impacting Clinical Care
Gary A. Ulaner, Jason Lewis, and Ola Landgren

LETTERS TO THE EDITOR

- 483** On Facilitating the End of the Linear No-Threshold Era
Eduardo Galiano
- 483** ■ **Reply.** On Facilitating the End of the Linear No-Threshold Era
Mohan Doss
- 484** A Comment on “Effectiveness and Patient Experiences of Rhenium Skin Cancer Therapy for Nonmelanoma Skin Cancer: Interim Results from the EPIC-Skin Study”
Miranda Wallace and Jim Muir
- 485** ■ **Reply.** A Comment on “Effectiveness and Patient Experiences of Rhenium Skin Cancer Therapy for Nonmelanoma Skin Cancer: Interim Results from the EPIC-Skin Study”
Gerhard Dahllhoff

IN MEMORIAM

- 486** Kenneth A. Krohn, PhD, 1945–2024
Janet Eary, Jeanne Link, David Mankoff, David Vera, and Tom Ruth

DEPARTMENT

- 481** Erratum