

DISCUSSIONS WITH LEADERS

- 487** **New Approaches in Radiopharmaceutical Development**
John Babich and Lale Kostakoglu

THE STATE OF THE ART

- 490** **Theranostics for Neuroblastoma: Making Molecular Radiotherapy Work Better**
Peter J. Gawne, Helen E. Bryant, Steven G. DuBois, Sally L. George, Juliet Gray, Leona Knox, Kyle B. Matchett, Connie Peet, Katherine A. Vallis, Hugh J. Wallace, et al.

IS IT REALLY HAPPENING?

- 497** **Are FAP Theranostics Really Happening? Will Radiochemistry or Biology Win?**
Rodney J. Hicks

HOT TOPICS

- 500** **From Stabilization to Depletion: Molecular Imaging to Measure Therapeutic Response in ATTR-CA**
Shilpa Vijayakumar and Sharmila Dorbala

FOCUS ON MOLECULAR IMAGING

- 502** **Molecular Imaging of Pulmonary Fibrosis**
Margaret B. Allison, Ciprian Catana, Iris Y. Zhou, Peter Caravan, and Sydney B. Montesi

SPECIAL CONTRIBUTION

- 506** **Self-Citation Among Highly Cited Nuclear Medicine and Medical Imaging Researchers**
Malik E. Juweid, Obada Al-leimon, Soud F. Al-Qasem, Ibrahim Aljarah, and Yaser Rayyan
- 509** **Computational Nuclear Oncology Toward Precision Radiopharmaceutical Therapies: Current Tools, Techniques, and Uncharted Territories**
Tahir Yusufaly, Emilie Roncali, Julia Brosch-Lenz, Carlos Uribe, Abhinav K. Jha, Geoffrey Currie, Joyita Dutta, Georges El-Fakhri, Helena McMeekin, Neeta Pandit-Taskar, et al.

ONCOLOGY

Clinical

- 516** **Prognostic Value of FDG PET Metabolic Parameters Before and After 42 Gy of Radiochemotherapy in Patients with Inoperable Stage III Non-small Cell Lung Cancer**
Pierre Vera, Philippe Giraud, Sébastien Hapdey, Pierrick Gouel, Orianne Jan, Paul Le Roux, Alexandra Langlais, Emilie Lévêque, Florence Le Tinier, Anaïs Olivier, et al.

- 525** ■ **FEATURED CLINICAL INVESTIGATION ARTICLE. Impact of Radioactive Iodine Treatment on Long-Term Relative Survival in Patients with Papillary and Follicular Thyroid Cancer: A SEER-Based Study Covering Histologic Subtypes and Recurrence Risk Categories**
Henning Weis, Jasmin Weindler, Katharina Schmidt, Martin Hellmich, Alexander Drzezga, and Matthias Schmidt

- 531** **PSMA-Guided Metastasis-Directed Therapy for Oligometastatic Renal Cell Carcinoma: The Proof-of-Concept PEDESTAL Study**
Cristian Udovicich, Mathias Bressel, Jamil Manji, Muhammad Ali, Lewis Au, Arun A. Azad, James P. Buteau, Sarat Chander, David Chang, Renu Eapen, et al.

- 537** **[¹⁸F]-FDG PET/CT in the Initial Staging of Squamous Cell Cancer of the Anal Canal: Results of a Prospective Multicenter Registry**
Ur Metser, Jelena Lukovic, Aruz Mesci, Pamela MacCrostie, Rosanna Chan, Victor Mak, Lisa Avery, Amit Singnurkar, Deanna L. Langer, Kara Ly, et al.

Translational

- 543** **[^{99m}Tc]Tc-MY6349 Probe for Trop2-Targeted SPECT Imaging: From Preclinical to Pilot Clinical Study**
Yining Sun, Zhixin Hao, Hannan Gao, Guangjie Yang, Bo Pan, Min Zhu, Yakun Wan, Jiyun Shi, Li Huo, Haojun Chen, et al.

Basic

- 552** **Development and Preclinical Evaluation of [⁶⁴Cu]Cu-NOTA-ABDB6: A CD70 and Albumin Dual-Binding Tracer with Improved Pharmacokinetics**
Xiaoyan Li, You Zhang, Jason C. Mixdorf, Qianyun Wu, Sophia J. Lee, Jonathan W. Engle, Todd E. Barnhart, Shannon C. Kenney, Lixin Rui, Weijun Wei, et al.
- 559** **PET Imaging of PD-L1 Occupancy for Preclinical Assessment of the Efficacy of Combined Anti-PD-L1 Immunotherapy and Targeted Therapy**
Céline Chevalyere, Léa Zimmermann, Simon Specklin, Dimitri Kereselidze, Alizée Bouleau, Steven Dubois, Hélène Quelquejay, Bernard Maillère, Nicolas Tournier, Hervé Nozach, et al.

THERANOSTICS

Clinical

- 565** **Full-Body Tumor Response Heterogeneity of Metastatic Neuroendocrine Tumor Patients Undergoing Peptide Receptor Radiopharmaceutical Therapy**
Victor Santoro-Fernandes, Brayden Schott, Amy J. Weisman, Ojaswita Lokre, Steve Y. Cho, Scott B. Perlman, Timothy G. Perk, and Robert Jeraj

572 Clinical Trial Protocol for LuCAB: A Phase I-II Trial Evaluating Cabazitaxel in Combination with [¹⁷⁷Lu]Lu-PSMA-617 in Patients with Metastatic Castration-Resistant Prostate Cancer

Louise Kostos, James P. Buteau, Grace Kong, Ben Tran, Mohammad B. Haskali, Michael Fahey, Megan Crumbaker, Louise Emmett, Michael S. Hofman, and Arun A. Azad

579 Therapy-Related Myeloid Neoplasms After [¹⁷⁷Lu]Lu-PSMA Therapy in Patients with Metastatic Castration-Resistant Prostate Cancer: A Case Series

Michal Eifer, Duncan E.K. Sutherland, Isaac Goncalves, James P. Buteau, Lewis Au, Arun A. Azad, Louise Emmett, Grace Kong, Louise Kostos, Aravind S. Ravi Kumar, et al.

585 Comparison of [⁶⁸Ga]Ga-Fibroblast Activation Protein Inhibitor-04 and [¹⁸F]FDG PET Imaging for Solitary Fibrous Tumor and Preliminary Application of FAP-Targeted Radiopharmaceutical Therapy

Rongxi Wang, Jiarou Wang, Jialin Xiang, Huimin Sui, Linlin Li, Chenhao Jia, Xingtong Peng, Xiaoyuan Chen, Zhaohui Zhu, and Jingjing Zhang

Basic

592 ²²⁵Ac/⁸⁹Zr-Labeled N4MU01 Radioimmunoconjugates as Theranostics Against Nectin-4-Positive Triple-Negative Breast Cancer

Hanan Babeker, Fabrice Ngoh Njotu, Jessica Pougoue Ketchemen, Alissar Monzer, Anjong Florence Tikum, Alireza Doroudi, Emmanuel Nwangele, Maruti Uppalapati, and Humphrey Fonge

599 Preclinical Evaluation of ¹⁷⁷Lu-rhPSMA-10.1, a Radiopharmaceutical for Prostate Cancer: Biodistribution and Therapeutic Efficacy

Caroline Foxton, Bradley Waldron, Rikke Veggerby Grønlund, Jaime (Jim) Simón, Bart Cornelissen, Edward O'Neill, and Daniel Stevens

605 ■ FEATURED ARTICLE OF THE MONTH. IL13R α 2-Targeting Antibodies for Immuno-PET in Solid Malignancies

Leah Gajecki, Irina V. Lebedeva, Yu-Rou Liao, Daisy Ambriz, Lukas M. Carter, Melina Kumpf, Samantha Lovibond, Justin S. Hachey, Maya S. Graham, Michael Postow, et al.

NEUROLOGY

Clinical

612 Development and Validation of a ¹⁸F-Flortaucipir PET Visual Stratification Method

Ilke Tunali, Jian Wang, Anupa K. Arora, Min Jung Kim, Sergey Shcherbinin, Michael Pontecorvo, and Leonardo Iaccarino

620 Imaging Synaptic Density in Aging and Alzheimer Disease with [¹⁸F]SynVesT-1

Joseph Giorgio, David N. Soleimani-Meigooni, Mustafa Janabi, Suzanne L. Baker, Xi Chen, Tyler N. Toueg, Robby Weimer, Bastian Zinnhardt, Ari Green, Gil D. Rabinovici, et al.

CARDIOVASCULAR

Clinical

626 Biodistribution, Safety Profile, and Radiation Dosimetry of [¹⁸F]SYN2, a PET Cardiac Perfusion Tracer, in Healthy Subjects

Juhani Knuuti, Małgorzata Kobylecka, Seweryn Krajewski, Lukasz Steczek, Karina Gotowicz, Joanna Towpik, Kari Kalliokoski, Tuula Tolvanen, Magdalena Kostkiewicz, Przemysław Kozanecki, et al.

INFLAMMATION/INFECTION

Clinical

634 Differences in Fibroinflammatory Activity Shown on ⁶⁸Ga-FAPI-04 and ¹⁸F-FDG PET/CT in the Two Subtypes of IgG4-Related Disease

Silu Liu, Qingqing Pan, Hongzhe Zhang, Linyi Peng, Wen Zhang, YunLu Feng, Dong Wu, and Yaping Luo

RADIOBIOLOGY/DOSIMETRY

Clinical

641 Tumor Dose-Response Relationship of [¹³¹I]MIBG-Targeted Therapy in Patients with Neural Crest Tumors by Means of [¹²⁴I]MIBG PET

Alexandros Moraitis, Andreas Prochnow, Thorsten Dirk Poeppel, Jochen Schmitz, Christina Laschinsky, Ken Herrmann, Andreas Bockisch, Pedro Fragoso Costa, David Manuel Kersting, and Walter Jentzen

AI/ADVANCED IMAGE ANALYSIS

Clinical

648 Artificial Intelligence-Enhanced Perfusion Scoring Improves the Diagnostic Accuracy of Myocardial Perfusion Imaging

Robert J.H. Miller, Paul Kavanagh, Mark Lemley, Joanna X. Liang, Tali Sharir, Andrew J. Einstein, Mathews B. Fish, Terrence D. Ruddy, Philipp A. Kaufmann, Albert J. Sinusas, et al.

PHYSICS AND INSTRUMENTATION

Clinical

654 Total-Body Parametric Imaging Using Relative Patlak Plot

Siqi Li, Yasser G. Abdelhafez, Lorenzo Nardo, Simon R. Cherry, Ramsey D. Badawi, and Guobao Wang

THE ILLUSTRATED POST

Clinical

662 CCK₂ Receptor Ligand [⁶⁸Ga]Ga-DOTA-CCK-66 PET/CT Outperforms [⁶⁸Ga]Ga-DOTATOC PET/CT in a Patient with Small Cell Lung Cancer

Oliver Viering, Nadine Holzleitner, Rainer Claus, Adriana Amerein, Niklas Dreher, Johanna S. Enke, Alexander Dierks, Christian H. Pfof, Malte Kircher, Veronika Felber, et al.

LETTERS TO THE EDITOR

663 ¹⁷⁶Lu Radiation Dose of Long-Axial Field of View PET Scanners

Samaneh Mostafapour, Joyce van Sluis, Adriaan A. Lammertsma, and Charalampos Tsoumpas

664 The PRIMARY Score: Present and Future

Linlin Guo and Guohua Shen

DEPARTMENT

664 Erratum