

SNMMI NEWSLINE

- 9N** NRC Training and Experience Requirements for Radiopharmaceuticals Requiring a Written Directive
- 10N** The Distinction Between an AU and an ABNM-Certified MD
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- 11N** In Memoriam: Monte Blau, PhD, 1926–2019
Hank F. Kung, Karen C. Rosenspire, and Robert H. Mach
- 13N** SNMMI Leadership Update: Influx of New Ideas and Opportunities: Collaboration Propels Growth
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- 14N** Lawhn-Heath Named 2019 Henkin Fellow
- 14N** Newsbriefs
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- 875** A Conversation Between Susanne Schaffert and Ken Herrmann
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- 879** Imaging of CAR T-Cells in Cancer Patients: Paving the Way to Treatment Monitoring and Outcome Prediction
Simone Krebs, Vladimir Ponomarev, Susan Slovin, and Heiko Schöder

THE STATE OF THE ART

- 882** Evaluating the Role of Theranostics in Grade 3 Neuroendocrine Neoplasms
Najeff Waseem, Carina Mari Aparici, and Pamela L. Kunz

CONTINUING EDUCATION

- 892** Advanced Imaging in Cardiac Sarcoidosis
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- 899** ■ INVITED PERSPECTIVE. Immuno-PET to Optimize the Dose of Monoclonal Antibodies for Cancer Therapy: How Much Is Enough?
Raymond M. Reilly
- 902** ■ FEATURED ARTICLE OF THE MONTH. Immuno-PET Imaging to Assess Target Engagement: Experience from ⁸⁹Zr-Anti-HER3 mAb (GSK2849330) in Patients with Solid Tumors
C. Willemien Menke-van der Houven van Oordt, Adam McGeoch, Mats Bergstrom, Iain McSherry, Deborah A. Smith, Matthew Cleveland, Wasfi Al-Azzam, Liangfu Chen, Henk Verheul, Otto S. Hoekstra, et al.

Translational

- 910** ■ FEATURED TRANSLATIONAL SCIENCE ARTICLE. Phase I Study of CTT1057, an ¹⁸F-Labeled Imaging Agent with Phosphoramidate Core Targeting Prostate-Specific Membrane Antigen in Prostate Cancer
Spencer C. Behr, Rahul Aggarwal, Henry F. VanBroeklin, Robert R. Flavell, Kenneth Gao, Eric J. Small, Joseph Blecha, Salma Jivan, Thomas A. Hope, Jeffrey P. Simko, et al.

Basic

- 917** MEK Inhibition Induces Therapeutic Iodine Uptake in a Murine Model of Anaplastic Thyroid Cancer
Oussama ElMokh, Vincent Taelman, Piotr Radojewski, Matthias A. Roelli, Amandine Stoss, Rebecca A. Dumont, Matthias S. Dettmer, Wayne A. Phillips, Martin A. Walter, and Roch-Philippe Charles
- 924** N-(2-(Dimethylamino)Ethyl)-4-¹⁸F-Fluorobenzamide: A Novel Molecular Probe for High-Contrast PET Imaging of Malignant Melanoma
Ayoung Pyo, Hyeon Sik Kim, Hyung Seok Kim, Misun Yun, Dong-Yeon Kim, and Jung-Joon Min
- 930** ■ FEATURED BASIC SCIENCE ARTICLE. P2X7 PET Radioligand ¹⁸F-PTTP for Differentiation of Lung Tumor from Inflammation
Zhequan Fu, Qingyu Lin, Bingxin Hu, Yingying Zhang, Weijia Chen, Jing Zhu, Yanzhao Zhao, Hak Soo Choi, Hongcheng Shi, and Dengfeng Cheng

THERANOSTICS

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- 937** ■ SPECIAL CONTRIBUTION. NANETS/SNMMI Procedure Standard for Somatostatin Receptor–Based Peptide Receptor Radionuclide Therapy with ¹⁷⁷Lu-DOTATATE
Thomas A. Hope, Amanda Abbott, Karen Colucci, David L. Bushnell, Linda Gardner, William S. Graham, Sheila Lindsay, David C. Metz, Daniel A. Pryma, Michael G. Stabin, et al.
- 944** Combination of ⁶⁸Ga-PSMA PET/CT and Multiparametric MRI Improves the Detection of Clinically Significant Prostate Cancer: A Lesion-by-Lesion Analysis
Mengxia Chen, Qing Zhang, Chengwei Zhang, Xiaozhi Zhao, Giancarlo Marra, Jie Gao, Xiaoyu Lv, Bing Zhang, Yao Fu, Feng Wang, et al.
- 950** Rapid Modulation of PSMA Expression by Androgen Deprivation: Serial ⁶⁸Ga-PSMA-11 PET in Men with Hormone-Sensitive and Castrate-Resistant Prostate Cancer Commencing Androgen Blockade
Louise Emmett, Charlotte Yin, Megan Crumbaker, George Hruby, Andrew Kneebone, Richard Epstein, Quoc Nguyen, Adam Hickey, Noah Ihsheish, Gordon O'Neill, et al.
- 955** Clinical Outcomes of ¹⁷⁷Lu-PSMA Radioligand Therapy in Earlier and Later Phases of Metastatic Castration-Resistant Prostate Cancer Grouped by Previous Taxane Chemotherapy
Thomas W. Barber, Aviral Singh, Harshad R. Kulkarni, Karin Niepsch, Baki Billah, and Richard P. Baum
- 963** Impact of ⁶⁸Ga-PSMA PET/CT on the Radiotherapeutic Approach to Prostate Cancer in Comparison to CT: A Retrospective Analysis
Nina-Sophie Schmidt-Hegemann, Chukwuka Eze, Minglun Li, Paul Rogowski, Christian Schaefer, Christian Stief, Alexander Buchner, Constantinos Zamboglou, Wolfgang Peter Fendler, Ute Ganswindt, et al.

971 Detection Rate of ^{18}F -Choline PET/CT and ^{68}Ga -PSMA-HBED-CC PET/CT for Prostate Cancer Lymph Node Metastases with Direct Link from PET to Histopathology: Dependence on the Size of Tumor Deposits in Lymph Nodes

Cordula A. Jilg, Vanessa Drendel, H. Christian Rischke, Teresa I. Beck, Kathrin Reichel, Malte Krönig, Ulrich Wetterauer, Wolfgang Schultze-Seemann, Philipp T. Meyer, and Werner Vach

NEUROLOGY

Clinical

978 Automatic Extraction of a Reference Region for the Noninvasive Quantification of Translocator Protein in Brain Using ^{11}C -PBR28

Paolo Zanotti-Fregonara, William C. Kreisl, Robert B. Innis, and Chul Hyoung Lyoo

Translational

985 Impact of P-Glycoprotein Function on the Brain Kinetics of the Weak Substrate ^{11}C -Metoclopramide Assessed with PET Imaging in Humans

Nicolas Tournier, Martin Bauer, Verena Pichler, Lukas Nics, Eva-Maria Klebermass, Karsten Bamminger, Peter Matzneller, Maria Weber, Rudolf Karch, Fabien Caillé, et al.

Basic

992 Quantitative Analysis of ^{18}F -PF-06684511, a Novel PET Radioligand for Selective β -Secretase 1 Imaging, in Nonhuman Primate Brain

Akihiro Takano, Laigao Chen, Sangram Nag, Michael A. Brodney, Ryosuke Arakawa, Cheng Chang, Nahid Amini, Shawn D. Doran, Jason K. Dutra, Timothy J. McCarthy, et al.

INFECTIOUS DISEASE

Clinical

998 ^{18}F -FDG PET/CT-Guided Treatment Duration in Patients with High-Risk *Staphylococcus Aureus* Bacteremia: A Proof of Principle

Marvin A.H. Berrevoets, Ilse J.E. Kouijzer, Kitty Sliker, Erik H.J.G. Aarntzen, Bart Jan Kullberg, Jaap Ten Oever, and Chantal P. Bleeker-Rovers

RADIOCHEMISTRY

Basic

1003 ^{18}F -Branched-Chain Amino Acids: Structure-Activity Relationships and PET Imaging Potential

Matthew B. Nodwell, Hua Yang, Helen Merckens, Noeen Malik, Milena Čolović, Björn Wagner, Rainer E. Martin, François Bénard, Paul Schaffer, and Robert Britton

1010 DOTA-MGS5, a New Cholecystokinin-2 Receptor-Targeting Peptide Analog with an Optimized Targeting Profile for Theranostic Use

Maximilian Klingler, Dominik Summer, Christine Rangger, Roland Haubner, Julie Foster, Jane Sosabowski, Clemens Decristoforo, Irene Virgolini, and Elisabeth von Guggenberg

1017 In Vitro and In Vivo Characterization of an ^{18}F -AIF-Labeled PSMA Ligand for Imaging of PSMA-Expressing Xenografts

Susanne Lütje, Gerben M. Franssen, Ken Herrmann, Otto C. Boerman, Mark Rijpkema, Martin Gotthardt, and Sandra Heskamp

1023 Development and In Vivo Evaluation of a κ -Opioid Receptor Agonist as a PET Radiotracer with Superior Imaging Characteristics

Songye Li, Ming-Qiang Zheng, Mika Naganawa, Sujin Kim, Hong Gao, Michael Kapinos, David Labaree, and Yiyun Huang

INSTRUMENTATION

1031 Performance Characteristics of the Digital Biograph Vision PET/CT System

Joyce van Sluis, Johan de Jong, Jenny Schaar, Walter Noordzij, Paul van Snick, Rudi Dierckx, Ronald Borra, Antoon Willemsen, and Ronald Boellaard

DEPARTMENTS

8A This Month in JNM

1030 Erratum