

SNMMI NEWSLINE

9N ABNM: MOC Assessment

J. Anthony Parker

10N SNMMI Leadership Update: SNMMI Mid-Winter Meeting Kicks Off New Year in Phoenix

Virginia Pappas

11N Newsbriefs

13N From the Literature

FOCUS ON MOLECULAR IMAGING

1487 Molecular Imaging of Immunotherapy Targets in Cancer

Emily B. Ehlerding, Christopher G. England, Douglas G. McNeel, and Weibo Cai

INVITED PERSPECTIVES

1493 A New Theranostic Paradigm for Advanced Thyroid Cancer

David A. Pattison, Benjamin Solomon, and Rodney J. Hicks

1495 PET Measurement of Renal Glomerular Filtration Rate: Is There a Role in Nuclear Medicine?

M. Donald Blaufox

1497 Reverse Translation in Parkinson Disease

Roger L. Albin and Kirk A. Frey

CLINICAL INVESTIGATIONS

1499 ^{124}I PET Assessment of Response of Bone Metastases to Initial Radioiodine Treatment of Differentiated Thyroid Cancer

Walter Jentzen, Femke Verschuren, Annelie van Zon, Rudie van de Kolk, Roel Wiers, Jochen Schmitz, Andreas Bockisch, and Ina Binse

1505 Immuno-PET Using Anticarcinoembryonic Antigen Bispecific Antibody and ^{68}Ga -Labeled Peptide in Metastatic Medullary Thyroid Carcinoma: Clinical Optimization of the Pretargeting Parameters in a First-in-Human Trial

Caroline Bodet-Milin, Alain Faivre-Chauvet, Thomas Carlier, Aurore Rauscher, Mickael Bourgeois, Evelyne Cerato, Vincent Rohmer, Olivier Couturier, Delphine Drui, David M. Goldenberg, Robert M. Sharkey, Jacques Barbet, and Francoise Kraeber-Bodere

1512 ^{68}Ga -DOTATOC PET/CT in Patients with Iodine- and ^{18}F -FDG-Negative Differentiated Thyroid Carcinoma and Elevated Serum Thyroglobulin

Ina Binse, Thorsten D. Poepel, Marcus Ruhmann, Samer Ezziddin, Rainer Görres, Amir Sabet, Karsten Beiderwellen, Andreas Bockisch, and Sandra J. Rosenbaum-Krumme

1518 Quantitative Assessment of Breast

Parenchymal Uptake on ^{18}F -FDG PET/CT: Correlation with Age, Background Parenchymal Enhancement, and Amount of Fibroglandular Tissue on MRI

Doris Leithner, Pascal A. Baltzer, Heinrich F. Magometschnigg, Georg J. Wengert, Georgios Karanikas, Thomas H. Helbich, Michael Weber, Wolfgang Wadsak, and Katja Pinker

1523 Detection of HER2-Positive Metastases in Patients with HER2-Negative Primary Breast Cancer Using ^{89}Zr -Trastuzumab PET/CT

Gary A. Ulaner, David M. Hyman, Dara S. Ross, Adriana Corben, Sarat Chandrarapathy, Shari Goldfarb, Heather McArthur, Joseph P. Ernster, Stephen B. Solomon, Hartmuth Kolb, Serge K. Lyashchenko, Jason S. Lewis, and Jorge A. Carrasquillo

1529 Optimal Acquisition Time Window and Simplified Quantification of Dopamine Transporter Availability Using ^{18}F -FE-PE2I in Healthy Controls and Parkinson Disease Patients

Ida Sonni, Patrik Fazio, Martin Schain, Christer Halldin, Per Svenningsson, Lars Farde, and Andrea Varrone

1535 Kinetics of the Tau PET Tracer ^{18}F -AV-1451 (T807) in Subjects with Normal Cognitive Function, Mild Cognitive Impairment, and Alzheimer Disease

Sergey Shcherbinin, Adam J. Schwarz, Abhinay Joshi, Michael Navitsky, Matthew Flitter, William R. Shankle, Michael D. Devous, Sr., and Mark A. Mintun

1543 Parametric Binding Images of the TSPO Ligand ^{18}F -DPA-714

Sandeep S.V. Golla, Ronald Boellaard, Vesa Oikonen, Anja Hoffmann, Bart N.M. van Berckel, Albert D. Windhorst, Jere Virta, Erik T. te Beek, Geert Jan Groeneveld, Merja Haaparanta-Solin, Pauliina Luoto, Nina Savisto, Olof Solin, Ray Valencia, Andrea Thiele, Jonas Eriksson, Robert C. Schuit, Adriaan A. Lammertsma, and Juha O. Rinne

1548 A Continuously Infused Microfluidic Radioassay System for the Characterization of Cellular Pharmacokinetics

Zhen Liu, Ziying Jian, Qian Wang, Tao Cheng, Benedikt Feuerer, Markus Schwaiger, Sung-Cheng Huang, Sibylle I. Ziegler, and Kuangyu Shi

BRIEF COMMUNICATIONS

1556 Serial ^{18}F -FDG PET for Monitoring Treatment Response After Allogeneic Stem Cell Transplantation for Myelofibrosis

Thorsten Derlin, Haefaa Alchalby, Peter Bannas, Azien Laqmani, Francis Ayuk, Ioanna Trivisai, Hans-Heinrich Kreipe, Frank M. Bengel, and Nicolaus Kröger

CONTINUING EDUCATION

1560 Radionuclide Evaluation of Brain Death in the Post-McMath Era

Lionel S. Zuckier

BASIC SCIENCE INVESTIGATIONS

- 1569** (2S)-2-(3-(1-Carboxy-5-(4-²¹¹At-Astatobenzamido)Pentyl)Ureido)-Pantanedioc Acid for PSMA-Targeted α -Particle Radiopharmaceutical Therapy
Ana P. Kiess, Il Minn, Ganesan Vaidyanathan, Robert F. Hobbs, Anders Josefsson, Colette Shen, Mary Brummet, Ying Chen, Jaeyeon Choi, Eftychia Koumarianou, Kwamenia Baidoo, Martin W. Brechbiel, Ronnie C. Mease, George Sgouros, Michael R. Zalutsky, and Martin G. Pomper
- 1576** Vascular Targeted Radioimmunotherapy for the Treatment of Glioblastoma
Katja Behling, William F. Maguire, José Carlos López Puebla, Shanna R. Sprinkle, Alessandro Ruggiero, Joseph O'Donoghue, Philip H. Gutin, David A. Scheinberg, and Michael R. McDevitt
- 1583** Dual-Modality Activity-Based Probes as Molecular Imaging Agents for Vascular Inflammation
Nimali P. Withana, Toshinobu Saito, Xiaowei Ma, Megan Garland, Changhao Liu, Hisanori Kosuge, Myriam Amsalem, Martijn Verdoes, Leslie O. Ofori, Michael Fischbein, Mamoru Arakawa, Zhen Cheng, Michael V. McConnell, and Matthew Bogyo
- 1591** Modulation of Abnormal Metabolic Brain Networks by Experimental Therapies in a Nonhuman Primate Model of Parkinson Disease: An Application to Human Retinal Pigment Epithelial Cell Implantation
Shichun Peng, Yilong Ma, Joseph Flores, Michael Cornfeldt, Branka Mitrovic, David Eidelberg, and Doris J. Doudet
- 1599** Preclinical Characterization of ¹⁸F-MK-6240, a Promising PET Tracer for In Vivo Quantification of Human Neurofibrillary Tangles
Eric D. Hostetler, Abbas M. Walji, Zhizhen Zeng, Patricia Miller, Idriss Bennacef, Cristian Salinas, Brett Connolly, Liza Gantert, Hyking Haley, Marie Holahan, Mona Purcell, Kerry Riffel, Talakad G. Lohith, Paul Coleman, Aileen Soriano, Aimie Ogawa, Serena Xu, Xiaoping Zhang, Elizabeth Joshi, Joseph Della Rocca, David Hesk, David J. Schenk, and Jeffrey L. Evelhoch
- 1607** Quantitative CD3 PET Imaging Predicts Tumor Growth Response to Anti-CTLA-4 Therapy
Benjamin M. Larimer, Eric Wehrenberg-Klee, Alexander Caraballo, and Umar Mahmood
- 1612** Characterization of ¹⁸F-FPyKYNE-Losartan for Imaging AT₁ Receptors
Maryam Hachem, Mario Tiberi, Basma Ismail, Chad R. Hunter, Natasha Arksey, Tayebeh Hadizad, Rob S. Beanlands, Robert A. deKemp, and Jean N. DaSilva
- 1618** Variation of Specific Activities of ⁶⁸Ga-Aquibephrin and ⁶⁸Ga-Avebetrin Enables Selective PET Imaging of Different Expression Levels of Integrins $\alpha_5\beta_1$ and $\alpha_v\beta_3$
Johannes Notni, Katja Steiger, Frauke Hoffmann, Dominik Reich, Markus Schwaiger, Horst Kessler, and Hans-Jürgen Wester
- 1625** Initial Preclinical Evaluation of ¹⁸F-Fluorodeoxysorbitol PET as a Novel Functional Renal Imaging Agent
Hiroshi Wakabayashi, Rudolf A. Werner, Nobuyuki Hayakawa, Mehrbod S. Javadi, Chen Xinyu, Ken Herrmann, Steven P. Rowe, Constantin Lapa, and Takahiro Higuchi

1629 A Cystine Knot Peptide Targeting Integrin $\alpha_v\beta_6$ for Photoacoustic and Fluorescence Imaging of Tumors in Living Subjects

Chao Zhang, Richard Kimura, Lotfi Abou-Elkacem, Jelena Levi, Lingyun Xu, and Sanjiv Sam Gambhir

1635 Prediction of CT Substitutes from MR Images Based on Local Diffeomorphic Mapping for Brain PET Attenuation Correction

Yao Wu, Wei Yang, Lijun Lu, Zhentai Lu, Liming Zhong, Meiyang Huang, Yanqiu Feng, Qianjin Feng, and Wufan Chen

1642 Accuracy and Precision of Partial-Volume Correction in Oncological PET/CT Studies

Matthijs C.F. Cysouw, Gerbrand Maria Kramer, Otto S. Hoekstra, Virginie Frings, Adrianus Johannes de Langen, Egbert F. Smit, Alfons J.M. van den Eertwegh, Daniela E. Oprea-Lager, and Ronald Boellaard

BRIEF COMMUNICATIONS

1650 Toward (Hybrid) Navigation of a Fluorescence Camera in an Open Surgery Setting

Gijs H. KleinJan, Nynke S. van den Berg, Matthias N. van Oosterom, Thomas Wendler, Mitsuharu Miwa, Axel Bex, Kees Hendrickse, Simon Horenblas, and Fijis W.B. van Leeuwen

SPECIAL CONTRIBUTIONS

1654 American Society of Nuclear Cardiology and Society of Nuclear Medicine and Molecular Imaging Joint Position Statement on the Clinical Indications for Myocardial Perfusion PET

Timothy M. Bateman, Vasken Dilsizian, Rob S. Beanlands, E. Gordon DePuey, Gary V. Heller, and David A. Wolinsky

DEPARTMENTS

1657 Letters to the Editor

8A This Month in JNM

15A Information for Authors

JNM ONLINE

jnm.snmjournals.org

Information for Authors

http://www.snmmi.org/journals/jnm_author_info

UPCOMING EDUCATION ARTICLE

Imaging Pulmonary Inflammation

Philip M. Scherer and Delphine L. Chen

For CE credit, you can access educational activities through the SNMMI website (<http://www.snmmilearningcenter.org>).