

SNMMI NEWSLINE

- 7N** High Country Nuclear Medicine Conference Celebrates 40th Anniversary with First Hal O'Brien Rising Star Awards
Edward Lyons, Jr.
- 8N** FDA Updates Bulk Drug Substances List
- 9N** In Memoriam: Thomas P. Haynie, III, MD 1932–2019
- 10N** SNMMI Leadership Update: Nuclear Medicine: Trailblazing Imaging Practice and Sciences for More than a Century
Satoshi Minoshima
- 11N** Newsbriefs
- 14N** From the Literature

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- 573** A Conversation Between Markus Schwaiger and Johannes Czernin
Markus Schwaiger and Johannes Czernin

THE STATE OF THE ART

- 577** Novel Structured Reporting Systems for Theranostic Radiotracers
Rudolf A. Werner, Ralph A. Bundschuh, Lena Bundschuh, Stefano Fanti, Mehrbod S. Javadi, Takahiro Higuchi, Alexander Weich, Kenneth J. Pienta, Andreas K. Buck, Martin G. Pomper, et al.

HOT TOPICS

- 585** Continuing Board Certification: Vision for the Future
George M. Segall

FOCUS ON MOLECULAR IMAGING

- 587** The Impact of Emerging Bioconjugation Chemistries on Radiopharmaceuticals
Rachael Fay and Jason P. Holland

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- 592** PET/CT Versus Standard Imaging for Prediction of Survival in Patients with Recurrent Head and Neck Squamous Cell Carcinoma
Max Rohde, Anne L. Nielsen, Manan Pareek, Jørgen Johansen, Jens A. Sørensen, Anabel Diaz, Mie K. Nielsen, Janus M. Christiansen, Jon T. Asmussen, Nina Nguyen, et al.
- 600** Variability and Repeatability of Quantitative Uptake Metrics in ^{18}F -FDG PET/CT of Non-Small Cell Lung Cancer: Impact of Segmentation Method, Uptake Interval, and Reconstruction Protocol
Mingzan Zhuang, David Váñez García, Gerbrand M. Kramer, Virginie Frings, E.F. Smit, Rudi Dierckx, Otto S. Hoekstra, and Ronald Boellaard

608 Test-Retest Reproducibility of ^{18}F -FDG PET/CT Uptake in Cancer Patients Within a Qualified and Calibrated Local Network

Brenda F. Kurland, Lanell M. Peterson, Andrew T. Shields, Jean H. Lee, Darrin W. Byrd, Alena Novakova-Jiresova, Mark Muzi, Jennifer M. Specht, David A. Mankoff, Hannah M. Linden, et al.

Basic

- 615** ■ INVITED PERSPECTIVE. Brain Access of Monoclonal Antibodies as Imaged and Quantified by ^{89}Zr -Antibody PET: Perspectives for Treatment of Brain Diseases
Sophie E.M. Veldhuijzen van Zanten, Philip C. De Witt Hamer, and Guus A.M.S. van Dongen
- 617** ■ FEATURED BASIC SCIENCE ARTICLE. A Distinct Advantage to Intraarterial Delivery of ^{89}Zr -Bevacizumab in PET Imaging of Mice With and Without Osmotic Opening of the Blood-Brain Barrier
Wojciech G. Lesniak, Chengyan Chu, Anna Jablonska, Yong Du, Martin G. Pomper, Piotr Walczak, and Miroslaw Janowski

THERANOSTICS

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- 623** Efficacy and Safety of High-Specific-Activity ^{131}I -MIBG Therapy in Patients with Advanced Pheochromocytoma or Paraganglioma
Daniel A. Pryma, Bennett B. Chin, Richard B. Noto, Joseph S. Dillon, Stephanie Perkins, Lilja Solnes, Lale Kostakoglu, Aldo N. Serafini, Miguel H. Pampaloni, Jessica Jensen, et al.
- 631** Thyroid Uptake and Effective Half-Life of Radioiodine in Thyroid Cancer Patients at Radioiodine Therapy and Follow-Up Whole-Body Scintigraphy Either in Hypothyroidism or Under rhTSH
Robin Bacher, Melanie Hohberg, Markus Dietlein, Markus Wild, Carsten Kobe, Alexander Drzezga, and Matthias Schmidt
- 638** Detection at Public Facilities of ^{131}I in Patients Treated for Differentiated Thyroid Cancer: Frequency, Sites, Management by Security Agents, and Physician Documentation Recommended for Patients
Athanasios Bikas, Di Wu, Evelyn Bethancourt, Michael Orquiza, Gary Bloom, Kenneth D. Burman, Leonard Wartofsky, and Douglas Van Nostrand
- 644** ■ BRIEF COMMUNICATION. Early Experience of Rechallenge ^{177}Lu -PSMA Radioligand Therapy After an Initial Good Response in Patients with Advanced Prostate Cancer
Andrei Gafita, Isabel Rauscher, Margitta Retz, Karina Knorr, Matthias Heck, Hans-Jürgen Wester, Calogero D'Alessandria, Wolfgang A. Weber, Matthias Eiber, and Robert Tauber

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- 649** A Single Dose of ^{225}Ac -RPS-074 Induces a Complete Tumor Response in an LNCaP Xenograft Model
James M. Kelly, Alejandro Amor-Coarasa, Shashikanth Ponnala, Anastasia Nikolopoulou, Clarence Williams, Jr., Nikki A. Thiele, David Schlyer, Justin J. Wilson, Stephen G. DiMagno, and John W. Babich
- 656** Albumin-Binding PSMA Ligands: Implications for Expanding the Therapeutic Window
James M. Kelly, Alejandro Amor-Coarasa, Shashikanth Ponnala, Anastasia Nikolopoulou, Clarence Williams, Jr., Stephen G. DiMagno, and John W. Babich

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- 664 ■ FEATURED ARTICLE OF THE MONTH.** Deep Learning Analysis of Upright-Supine High-Efficiency SPECT Myocardial Perfusion Imaging for Prediction of Obstructive Coronary Artery Disease: A Multicenter Study
Julian Betancur, Lien-Hsin Hu, Frederic Commandeur, Tali Sharir, Andrew J. Einstein, Mathews B. Fish, Terrence D. Ruddy, Philipp A. Kaufmann, Albert J. Sinusas, Edward J. Miller, et al.

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- 671** Cerebral Metabolic Changes Related to Freezing of Gait in Parkinson Disease
Trina Mitchell, Alexandra Potvin-Desrochers, Anne-Louise Lafontaine, Oury Monchi, Alexander Thiel, and Caroline Paquette
- 677 ■ SPECIAL CONTRIBUTION.** Use of a Qualification Phantom for PET Brain Imaging in a Multicenter Consortium: A Collaboration Between the Pediatric Brain Tumor Consortium and the SNMMI Clinical Trials Network
Frederic Fahey, Paul Christian, Katherine Zukotynski, Briana Sexton-Stallone, Christina Kiss, Bonnie Clarke, Arzu Onar-Thomas, and Tina Young Poussaint

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- 683** ^{18}F -JNJ-64413739, a Novel PET Ligand for the P2X7 Ion Channel: Radiation Dosimetry, Kinetic Modeling, Test-Retest Variability, and Occupancy of the P2X7 Antagonist JNJ-54175446
Michel Koole, Mark E. Schmidt, Anja Hijzen, Paulien Ravenstijn, Corinne Vandermeulen, Donatienne Van Weehaeghe, Kim Serdons, Sofie Celen, Guy Bormans, Marc Ceusters, et al.

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- 691** Fully Automated ^{89}Zr Labeling and Purification of Antibodies
Alex J. Poot, Kevin W.A. Adamzek, Albert D. Windhorst, Maria J.W.D. Vosjan, Saskia Kropf, Hans-Jurgen Wester, Guus A.M.S. van Dongen, and Danielle J. Vugts
- 696** ^{89}Zr -Chloride Can Be Used for Immuno-PET Radiochemistry Without Loss of Antigen Reactivity In Vivo
Darpan N. Pandya, Nikunj B. Bhatt, Frankis Almaguel, Stephanie Rideout-Danner, Howard D. Gage, Kiran Kumar Solingapuram Sai, and Thaddeus J. Wadas

PHYSICS AND INSTRUMENTATION

- 702** Design of Cerenkov Radiation-Assisted Photoactivation of TiO_2 Nanoparticles and Reactive Oxygen Species Generation for Cancer Treatment
Shalinee Kavadiya and Pratim Biswas
- 710** Preserving Preclinical PET Quality During Intratherapeutic Imaging in Radionuclide Therapy with Rose Metal Shielding Reducing Photon Flux
Emma Mellhammar, Magnus Dahlbom, Susan Evans-Axelsson, and Sven-Erik Strand

DEPARTMENTS

- 6A** This Month in JNM
- 709** Errata