2014 SNMMI Highlights Lecture: Neuroscience
Nicolaas I. Bohnen

A New Focus on Women in Nuclear Medicine
Leonie Gordon

2014 Aebersold Award Presented to Barrett

Charkes Receives 2014 de Hevesy Award

SNMMI 2014 Annual Meeting

FDA Details Expectations for Drug Compounders

SNMMI Leadership Update: Advancing the Profession and Meeting Member Needs
Peter Herscovitch

Ventilation–Perfusion Lung Scanning: Stuck in a Rut?
Michael M. Graham

Molecular Imaging Insights into Neurodegeneration: Focus on α-Synuclein Radiotracers
Maliha Shah, John Seibyl, Anna Cartier, Ram Bhatt, and Ana M. Catafau

Is Radiocholine PET/CT Already Clinically Useful in Patients with Prostate Cancer?
Luigi Mansi, Vincenzo Cuccurullo, and Laura Evangelista

The Efficacy of Hepatic 90Y Resin Radioembolization for Metastatic Neuroendocrine Tumors: A Meta-Analysis

Head and Neck PET/CT: Therapy Response Interpretation Criteria (Hopkins Criteria)—Interreader Reliability, Accuracy, and Survival Outcomes

Assessment of Simplified Methods to Measure 18F-FLT Uptake Changes in EGFR-Mutated Non–Small Cell Lung Cancer Patients Undergoing EGFR Tyrosine Kinase Inhibitor Treatment
Virginie Frings, Magsood Yaqub, Lieke L. Hoyng, Sandeep S.V. Golla, Albert D. Windhorst, Robert C. Schuit, Adriaan A. Lammertsema, Otto S. Hoekstra, Egbert F. Smit, and Ronald Boellaard

Early Biochemical Relapse After Radical Prostatectomy: Which Prostate Cancer Patients May Benefit from a Restaging 11C-Choline PET/CT Scan Before Salvage Radiation Therapy?
Paolo Castellucci, Francesco Ceci, Tiziano Graziani, Riccardo Schiavina, Eugenio Brunicoilia, Renzo Mazzarotto, Cinzia Pettinato, Monica Celli, Filippo Lodi, and Stefano Fanti

Comparison of Image Quality, Myocardial Perfusion, and Left Ventricular Function Between Standard Imaging and Single-Injection Ultra-Low-Dose Imaging Using a High-Efficiency SPECT Camera: The MILLISIEVERT Study
Andrew J. Einstein, Ron Blankstein, Howard Andrews, Mathews Fish, Richard Prudgem, Sean W. Hayes, John D. Friedman, Mehran Qureshi, Harivony Rakotoarivelo, Piotr Slomka, Ryo Nakazato, Sabahat Bobhari, Marcello Di Carli, and Daniel S. Berman

Absolute Quantitation of Myocardial Blood Flow in Human Subjects With or Without Myocardial Ischemia Using Dynamic Flurpiridaz F 18 PET
René R.S. Packard, Sung-Cheng Huang, Magnus Dahlbom, Johannes Czernin, and Janshied Madaadhi

Biodistribution and Radiation Dosimetry of LMI1195: First-in-Human Study of a Novel 18F-Labeled Tracer for Imaging Myocardial Innervation
Albert J. Sinusas, Joel Lazeowtksy, Jacqueline Brunetti, Gary Heller, Ajay Srivastava, Yi-Hwa Lin, Richard Sparks, Andrey Pureskii, Shu-Fei Lin, Paul Crane, Richard E. Carson, and L. Veronica Lee

The Impact of Image Reconstruction Bias on PET/CT 90Y Dosimetry After Radioembolization
Katie N. Tapp, William B. Lea, Matthew S. Johnson, Mark Tann, James W. Fletcher, and Gary D. Hutchins

Fetal and Maternal Absorbed Dose Estimates for Positron-Emitting Molecular Imaging Probes
Tianwu Xie and Habib Zaidi

In Vivo Evaluation of Angiogenic Activity and Its Correlation with Efficacy of Indirect Revascularization Surgery in Pediatric Moyamoya Disease
Yong-il Kim, Ji Hoon Phi, Jin Chul Paeng, Hongyoon Choi, Seung-Ki Kim, Yun-Sang Lee, Keon Wook Kang, Ji Yeoun Lee, Jae Min Jeong, June-Key Chung, Dong Soo Lee, and Kyu-Chang Wang

18F-FDG PET and MR Imaging Associations Across a Spectrum of Pediatric Brain Tumors: A Report from the Pediatric Brain Tumor Consortium
Katherine Zakoynski, Frederic Fahey, Mehmet Kocak, Larry Kun, Jamesboyett, Maryam Fouladi, Sridhar Vajapeyam, Ted Treves, and Tina Y. Poussaint

Optimum Lean Body Formulation for Correction of Standardized Uptake Value in PET Imaging
Abdel K. Tahari, David Chien, Javad R. Azadi, and Richard L. Wahl
CONTINUING EDUCATION

1485 Radioiodine Therapy for Thyroid Cancer in the Era of Risk Stratification and Alternative Targeted Therapies
Daniel A. Pryma and Susan J. Mandel

BASIC SCIENCE INVESTIGATIONS

1492 Efficient 1-Step Radiolabeling of Monoclonal Antibodies to High Specific Activity with $^{225}$Ac for $\alpha$-Particle Radioimmunotherapy of Cancer
William F. Maguire, Michael R. McDevitt, Peter M. Smith-Jones, and David A. Scheinberg

1499 Preclinical Evaluation of a High-Affinity $^{18}$F-Trifluoroborate Octreotate Derivative for Somatostatin Receptor Imaging
Zhibo Liu, Maral Pourghiasian, François Bénard, Jinhe Pan, Kuo-Shyan Lin, and David M. Perrin

1506 Preclinical Evaluation of 3-$^{18}$F-Fluoro-2,2-Dimethylpropionic Acid as an Imaging Agent for Tumor Detection
Timothy H. Wimey, Federica Pisaneschi, Israt S. Alam, Sebastian Trousl, Maciej Kaliszczak, Frazer Tvymann, Diana Brickute, Quang-Dé Nguyen, Zachary Schug, Eyal Gottlieb, and Eric O. Abouagye

1513 Discovery and Development of $^{11}$C-Lu AE92686 as a Radioligand for PET Imaging of Phosphodiesterase10A in the Brain
Jan Kehler, John Paul Kilburn, Sergio Estrada, Søren Rahn Christensen, Anders Wall, Alf Thibblin, Mark Lubberink, Christoffer Bundgaard, Lise Tøttrup Brennum, Björn Steiniger-Brach, Claus Tornby Christoffersen, Stine Timmermann, Mads Kreilgaard, Gunnar Antoni, Benny Bang-Andersen, and Jacob Nielsen

1519 SPECT- and Fluorescence Image–Guided Surgery Using a Dual-Labeled Carcinoembryonic Antigen–Targeting Antibody
Mark Rijpkema, Wim J. Oyen, Desiree Bos, Gerben M. Franssen, David M. Goldenberg, and Otto C. Boerman

1525 A Tyrosine Kinase Inhibitor–Based High-Affinity PET Radiopharmaceutical Targets Vascular Endothelial Growth Factor Receptor
Feng Li, Sheng Jiang, Youli Zu, Daniel Y. Lee, and Zheng Li

1532 Radiosynthesis, Photoisomerization, Biodistribution, and Metabolite Analysis of $^{11}$C-PBB3 as a Clinically Useful PET Probe for Imaging of Tau Pathology
Hiroki Hashimoto, Kazunori Kawamura, Nobuyuki Igarashi, Makoto Takei, Tomoya Fujishimo, Yoshiharu Aihara, Satoshi Shiomi, Masatoshi Muto, Taehun Ito, Kenji Furatsuka, Tomoteru Yamakazi, Joji Yui, Lin Xie, Maiko Ono, Akiko Hatori, Kazuyoshi Nemoto, Tetsuya Sahara, Makoto Higuchi, and Ming-Rong Zhang

1539 Improved Modeling of In Vivo Kinetics of Slowly Diffusing Radiotracers for Tumor Imaging
Moses Q. Wilks, Scott M. Knowles, Anna M. Wu, and Sung-Cheng Huang

1545 PET/MR Imaging and Optical Imaging of Metastatic Rhabdomyosarcoma in Mice
Sorin Armeanu-Ebinger, Christoph M. Griessinger, Delia Herrmann, Jörg Fuchs, Manfred Kneilling, Bernd J. Pichler, and Guido Seitz

1552 Preclinical Evaluation of Robotic-Assisted Sentinel Lymph Node Fluorescence Imaging
Michael A. Liss, Salman Farshchi-Heydari, Zhengtao Qin, Sean A. Hickey, David J. Hall, Christopher J. Kane, and David R. Vera

SPECIAL CONTRIBUTION

1557 MIRD Pamphlet No. 25: MIRDcell V2.0 Software Tool for Dosimetric Analysis of Biologic Response of Multicellular Populations
Behrooz Vaziri, Han Wu, Atam P. Dhawan, Peicheng Du, and Roger W. Howell

DEPARTMENTS

1565 Book Review
8A This Month in JNM

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UPCOMING EDUCATION ARTICLE

Targeting Neuropeptide Receptors for Cancer Imaging and Therapy: Perspectives with Bombesin, Neurotensin, and Neuropeptide-Y Receptors
Clément Morgat, Anil Kumar Mishra, Rainbow Varshney, Michele Allard, Philippe Fernandez, and Elif Hindié

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