

IS IT REALLY HAPPENING?

995 Is Automatic Tumor Segmentation on Whole-Body ^{18}F -FDG PET Images a Clinical Reality?

Lalith Kumar Shiyam Sundar and Thomas Beyer

FOCUS ON MOLECULAR IMAGING

998 Molecular Imaging in Gynecology: Beyond Cancer

Joni Sebastiano, Cindy Rodriguez, Zachary V. Samuels, Kristen Pepin, and Brian M. Zeglis

ONCOLOGY

Clinical

1004 ■ BRIEF COMMUNICATION. Frequent Amplification and Overexpression of PSMA in Basallike Breast Cancer from Analysis of The Cancer Genome Atlas

Wenhui Zhou, Sumit Halder, Sanna Herwald, Michael Ghijsen, Gowhar Shafi, Mohan Uttarwar, Eric Rosen, Benjamin Franc, and Sirish Kishore

1007 Utility of PSMA PET/CT in Staging and Restaging of Renal Cell Carcinoma: A Systematic Review and Metaanalysis

Moe S. Sadaghiani, Saradha Baskaran, Michael A. Gorin, Steven P. Rowe, Jean-Claude Provost, Iryna Teslenko, Roman Bilyk, Hong An, and Sara Sheikhbahaei

1013 A Prospective Randomized Multicenter Study on the Impact of [^{18}F]Choline PET/CT Versus Conventional Imaging for Staging Intermediate- to High-Risk Prostate Cancer

Laura Evangelista, Fabio Zattoni, Marta Burei, Daniele Bertin, Eugenio Borsatti, Tanja Baresic, Mohsen Farsad, Emanuela Trenti, Mirco Bartolomei, Stefano Panareo, et al.

1021 Diagnostic Performance of [^{18}F]AIF-Thretide PET/CT in Patients with Newly Diagnosed Prostate Cancer Using Histopathology as Reference Standard

Jie Zang, Yun Yang, Shaoming Chen, Chao Wang, Shaohao Chen, Shun Hu, Hai Cai, Xiaodong Li, Ning Xu, Xiaoyuan Chen, et al.

1027 Prognostic Implications of ^{68}Ga -FAPI-46 PET/CT-Derived Parameters on Overall Survival in Various Types of Solid Tumors

Masao Watanabe, Wolfgang P. Fendler, Hong Grafe, Nader Hirmas, Rainer Hamacher, Helena Lanzafame, Kim M. Pabst, Hubertus Hautzel, Clemens Aigner, Stefan Kasper, et al.

Basic

1035 In Vivo PET Imaging of ^{89}Zr -Labeled Natural Killer Cells and the Modulating Effects of a Therapeutic Antibody

Truc T. Pham, Alicia Chenoweth, Natasha Patel, Arshiya Banu, Gabriel Osborn, Philip J. Blower, Sophia N. Karagiannis, and Michelle T. Ma

1043 CEACAM5-Targeted Immuno-PET in Androgen Receptor-Negative Prostate Cancer

Cinzia Imberti, Roberto De Gregorio, Joshua A. Korsen, Tran T. Hoang, Samantha Khitrov, Teja Kalidindi, Subhiksha Nandakumar, Jooyoung Park, Samir Zaidi, Naga Vara Kishore Pillarsetty, et al.

THERANOSTICS

Clinical

1051 A Phase 0 Study to Assess the Biodistribution and Pharmacokinetics of a Radiolabeled Antibody Targeting Human Kallikrein 2 in Participants with Metastatic Castration-Resistant Prostate Cancer

Neeta Pandit-Taskar, Joseph A. O'Donoghue, Dushen Chetty, Steven Max, Danielle Wanik, Ohad Ilovich, Michael Russell, Tenzin Nyima, Chaitanya R. Divgi, Margaret Yu, et al.

1057 ■ FEATURED ARTICLE OF THE MONTH. Deescalated ^{225}Ac -PSMA-617 Versus $^{177}\text{Lu}/^{225}\text{Ac}$ -PSMA-617 Cocktail Therapy: A Single-Center Retrospective Analysis of 233 Patients

Hendrik Rathke, Erik Winter, Frank Bruchertseifer, Manuel Röhrich, Frederik Lars Giesel, Uwe Haberkorn, Alfred Morgenstern, and Clemens Kratochwil

1064 Assessing Response to PSMA Radiopharmaceutical Therapies with Single SPECT Imaging at 24 Hours After Injection

Surekha Yadav, Fei Jiang, Sara Kurkowska, Rachele Saelee, Amanda Morley, Felix Feng, Rahul Aggarwal, Courtney Lawhn-Heath, Carlos Uribe, and Thomas A. Hope

1070 Relationship Between Absorbed Dose and Response in Neuroendocrine Tumors Treated with [^{177}Lu]Lu-DOTATATE

Carl Fredrik Warfvinge, Johan Gustafsson, Daniel Roth, Jan Tennvall, Johanna Svensson, Peter Bernhardt, Anna Åkesson, Elinore Wieslander, Anna Sundlöv, and Katarina Sjögren Gleisner

1076 ■ BRIEF COMMUNICATION. Randomized Trial of Prostate-Specific Membrane Antigen PET/CT Before Definitive Radiotherapy for Unfavorable Intermediate- and High-Risk Prostate Cancer (PSMA-dRT Trial)

John Nikitas, Ethan Lam, Kiara Adame Booker, Wolfgang P. Fendler, Matthias Eiber, Boris Hadaschik, Ken Herrmann, Nader Hirmas, Helena Lanzafame, Martin Stuschke, et al.

1080 True-Positive ^{18}F -Flotufolostat Lesions in Patients with Prostate Cancer Recurrence with Baseline-Negative Conventional Imaging: Results from the Prospective, Phase 3, Multicenter SPOTLIGHT Study

Mark T. Fleming, Rick Hermsen, Andrei S. Purysko, Albert Chau, Phillip Davis, Brian F. Chapin, David M. Schuster, Mohamad Allaf, Ryan J. Avery, Norbert Avril, et al.

Basic

1087 Receptor-Targeted Peptide Conjugates Based on Diphosphines Enable Preparation of $^{99\text{m}}\text{Tc}$ and ^{188}Re Theranostic Agents for Prostate Cancer

Truc T. Pham, Ingebjørg N. Hungnes, Charlotte Rivas, Julie Cleaver, George Firth, Philip J. Blower, Jane Sosabowski, Gary J.R. Cook, Lefteris Livieratos, Jennifer D. Young, et al.

RADIONUCLIDE THERAPY

Clinical

1095 Safety and Efficacy of Radiosynoviorthesis: A Prospective Canadian Multicenter Study

Mélanie Desaulniers, Michel Paquette, Stéphanie Dubreuil, Helena Senta, Éric Lavallée, J. Carter Thorne, and Éric Turcotte

RADIOBIOLOGY/DOSIMETRY

Clinical

1101 Dose Reduction in Pediatric Oncology Patients with Delayed Total-Body [¹⁸F]FDG PET/CT

Clemens Mingels, Benjamin A. Spencer, Hande Nalbant, Negar Omidvari, Mehrad Rokni, Axel Rominger, Fatma Sen, Simon R. Cherry, Ramsey D. Badawi, Yasser G. Abdelhafez, et al.

CARDIOVASCULAR

Clinical

1107 Natural History of Myocardial $\alpha_v\beta_3$ Integrin Expression After Acute Myocardial Infarction: Correlation with Changes in Myocardial Blood Flow

Matthieu Dietz, Christel H. Kamani, Colin Bousige, Vincent Dunet, Judith Delage, Vladimir Rubimbura, Marie Nicod Lalonde, Giorgio Treglia, Niklaus Schaefer, Wail Nammas, et al.

1113 Determining Hemodynamically Significant Coronary Artery Disease: Patient-Specific Cutoffs in Quantitative Myocardial Blood Flow Using [¹⁵O]H₂O PET Imaging

Roel Hoek, Pepijn A. van Diemen, Pieter G. Raijmakers, Roel S. Driessen, Yvemarie B.O. Somsen, Ruben W. de Winter, Ruurt A. Jukema, Jos W.R. Twisk, Lourens F.H.J. Robbers, Pim van der Harst, et al.

NEUROLOGY

Clinical

1122 Patterns of Early Neocortical Amyloid- β Accumulation: A PET Population-Based Study

Emily E. Lacey, Hoon-Ki Min, Christopher J. Apgar, Daniela D. Maltais, Emily S. Lundt, Sabrina M. Albertson, Matthew L. Senjem, Christopher G. Schwarz, Hugo Botha, Jonathan Graff-Radford, et al.

1129 Cerebral ¹⁸F-FDG PET/CT Metabolism as Diagnostic Signature for Central Nervous System Toxicity After Immune Checkpoint Blockade Cancer Treatment

Yifei Ma, Jiling Zeng, Fadian Ding, Yiwei Xu, Youlong Wang, Guanqing Zhong, Nianqi Liu, Yanqi Wang, Yiming Li, Shuqin Chen, et al.

GASTROENTEROLOGY

Basic

1137 ■ FEATURED BASIC SCIENCE ARTICLE. Granzyme B PET Imaging for Assessment of Disease Activity in Inflammatory Bowel Disease

Pedram Heidari, Arvin Haj-Mirzaian, Suma Prabhu, Bahar Ataeinia, Shadi A. Esfahani, and Umar Mahmood

AI/ADVANCED IMAGE ANALYSIS

Clinical

1144 Deep Learning-Enabled Quantification of ^{99m}Tc-Pyrophosphate SPECT/CT for Cardiac Amyloidosis

Robert J.H. Miller, Aakash Shanbhag, Anna M. Michalowska, Paul Kavanagh, Joanna X. Liang, Valerie Builoff, Nowell M. Fine, Damini Dey, Daniel S. Berman, and Piotr J. Slomka

1151 Histology-Based Radiomics for [¹⁸F]FDG PET Identifies Tissue Heterogeneity in Pancreatic Cancer

Esther M.M. Smeets, Marija Trajkovic-Arsic, Daan Geijs, Sinan Karakaya, Monica van Zanten, Lodewijk A.A. Brosens, Benedikt Feuerrecker, Martin Gotthardt, Jens T. Siveke, Rickmer Braren, et al.

THE ILLUSTRATED POST

1160 Example of Artificial Intelligence-Based Decision Support for Amino Acid PET: Early Prediction of Suspected Brain Tumor Foci for Patient Management

Philipp Lohmann, Robin Gutsche, Jan-Michael Werner, N. Jon Shah, Karl-Josef Langen, and Norbert Galldiks

1161 Case Report: Pulmonary Actinomyces Infection Mimics Lung Cancer on [⁶⁸Ga]Ga-FAPI PET/CT

Giulia Cuzzani, Emilia Fortunati, Lucia Zanoni, Cristina Nanni, Filippo Antonacci, Francesca Giunchi, Gian Piero Bandelli, Irene Brusa, Piergiorgio Solli, and Stefano Fanti

DEPARTMENT

8A This Month in JNM