

SNMMI 2020

Scientific sessions of interest

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Session	Title/Author
Session 3 Brain Imaging Council YIA Symposium	19. Visualization of Flortaucipir retention in subjects grouped according to their autopsy-confirmed neurofibrillary tangle scores Vikas Kotari, Sudeepti Southekal, Ian A. Kennedy, Michael Navitsky, Michael D. Devous, Adam S. Fleisher, Michael J. Pontecorvo
Session 10 Brain (Data Analysis & Management)	75. Measurement of cerebral circulation and oxygen metabolism using integrated PET/MRI scanner with oxygen-15 labeled gases: Effects of attenuation correction and real-time motion correction Hiroshi Ito, Hitoshi Kubo, Kazuhiro Takahashi, Shiro Ishii
Session 13 Multimodal and Technical Approach for Tumor Detection and Response Assessment	97. Improved lesion detection in whole-body parametric ¹⁸F-FDG PET/CT vs. static ¹⁸F-FDG PET/CT André H. Dias, Mette F. Pedersen, Helle Danielsen, Ole L. Munk, Lars C. Gormsen
Session 14 Attenuation, Scatter and Resolution Compensation (PET & SPECT)	107. Clinical evaluation of Poisson maximum likelihood-based scatter subtraction for ⁶⁸Ga-PSMA imaging Jason G. Parker, Senait Debebe, Wendy L. Territo, Harshali Bal, Maurizio Conti, James W. Fletcher, Gary D. Hutchins
Session 14 Attenuation, Scatter and Resolution Compensation (PET & SPECT)	108. A novel approach for scatter correction in PET using energy response modelling Harshali Bal, Mehmet Aykac, Maurizio Conti
Session 14 Attenuation, Scatter and Resolution Compensation (PET & SPECT)	119. SUV analysis for the NEPENTHE trial: An evaluation of ¹²³I-mIBG semi-quantitative analysis as a predictor of biopsy yield and genetic biomarkers in relapsed neuroblastoma Emma C. Alai, Andrew Samoyedny, Sandy Mccord, Abhay S. Srinivasan, Anne Marie Cahill, Lisa J. States
Session 15 Pediatrics	120. Quantitative ¹²³I-mIBG SPECT/CT to assess treatment response in patients with neuroblastoma—feasibility and correlation to visual evaluation. Karlotta Knuth, Mark Tann, Justin Sims
Session 18 Instrumentation - System performance	141. From a PMT based to a SiPM based PET system: NEMA NU 2-2018 performance of the digital Biograph Vision 450 and a study to define matched acquisition/reconstruction parameters Thomas Carlier, Yanic Bercier, Caroline Bodet-Milin, Caroline ROUSSEAU, Maurizio Conti, Bernard Bendriem, Francoise Kraeber-Bodere, Ludovic Ferrer

(continued)

Session	Title/Author
Session 18 Instrumentation - System performance	144. Performance as a function of axial length for the scalable PennPET Explorer. Margaret E. Daube-Witherspoon, Varsha Viswanath, Matthew Werner, Suleman Surti, Joel S. Karp
Session 26 Total body PET, dedicated PET and dynamic PET (Data Analysis & Management)	207. Multiphase Patlak plot enabled by high temporal resolution total-body dynamic PET Yang Zuo, Simon R. Cherry, Ramsey Badawi, Guobao Wang
Session 26 Total body PET, dedicated PET and dynamic PET (Data Analysis & Management)	208. Total-body dynamic PET of metastatic cancer: First patient results Guobao Wang, Mamta Parikh, Lorenzo Nardo, Yang Zuo, Yasser Abdelhafez, Jinyi Qi, Terry Jones, Patricia Price, Simon R. Cherry, Chong-Xian Pan, Ramsey D. Badawi
Session 32 Head and Neck	255. Digital high sensitivity I-124 PET/CT improves the detectability of thyroid cancer metastases David Kersting, Manuel Weber, Alexander Berger, Miriam Sraieb, Pedro Fragoso Costa, Lale Umutlu, Christoph Rischpler, Wolfgang P. Fendler, Maurizio Conti, Ken Herrmann, Walter Jentzen
Session 34 Radiomics (Data Analysis & Management)	274. Refining the stratification of diffuse large B-cell lymphoma patients based on metabolic tumor volume (MTV) by automatically adapting the MTV cut-of-value to the segmentation method Fanny Orlhac, Nicolò Capobianco, Anne-Ségoène Cottereau, Laetitia Vercellino, Sven Zuehlsdorff, Olivier Casanovas, Catherine Thieblemont, Michel Meignan, Irène Buvat
Session 40 Instrumentation - New system design and development	309. Augmented whole-body scanning via magnifying PET Jianyong Jiang, Suranjana Samanta, Ke Li, Mahdjoub Hamdi, Stefan B. Siegel, Robert Mintzer, Sanghee Cho, Maurizio Conti, Matthias Schmand, Richard Laforest, Joseph O'Sullivan, Yuan- chuan Tai
Session 40 Instrumentation - New system design and development	314. Design considerations for an ultra-long axial FOV PET/CT scanner Maurizio Conti, Deepak Bharkhada, Jorge Cabello, Vladimir Y. Panin, Varsha Viswanath, Margaret E. Daube-Witherspoon, Joel S. Karp, Bernard Bendriem
Session 42 Instrumentation - Clinical imaging and optimization	334. Dynamic range of the newest digital PET-CT scanner for myocardial blood flow quantification using Rubidium-82 Robert A. deKemp, Patrick Genoud, Martin Pappon, Christel Kamani, Silvano Gnesin, Ran Klein, John O. Prior
Session 48 Motion Correction PET	371. Optical facial feature-based motion tracking and correction method for PET brain studies Jonathan P. Gershenson, James S. Goddard, Mark A. Mandelkern
Session 48 Motion Correction PET	375. Data-driven motion correction for cardiac PET Ian S. Armstrong, Charles Hayden, Parthiban Arumugam

(continued)

Session	Title/Author
Session 50 Instrumentation - New detectors and data correction & calibration methods	390. A study of narrow energy window on the Siemens Vision 600 PET/CT scanner Mehmet Aykac, Harshali Bal, Vladimir Y. Panin, Maurizio Conti
Session 63 Miscellaneous	493. Cancer screening using F-FDG PET/MRI in asymptomatic subjects: A Multicenter Retrospective Study Liling Peng, Mingxiang Sun, Gang Feng , Mu Lin, Xin Gao
Session 64 Artificial Intelligence for Detection, Segmentation and Quantification	504. Fully-automated deep learning FDG uptake classification enables total metabolic tumor volume (MTV) estimation in diffuse large B-cell lymphoma with similar predictive value as expert MTV measurements Nicolò Capobianco, Michel Meignan, Anne Segolene Cottereau, Laetitia Vercellino, Ludovic Sibille, Bruce Spottiswoode, Sven Zuehlsdorff, Olivier Casasnovas, Catherine Thieblemont, Irène Buvat.
Session 73 Prostate: PSMA radioligand therapy	593. Predictive factors and prediction nomograms for Lu-PSMA radioligand therapy in patients with metastatic castration-resistant prostate cancer: an international multicentre retrospective study Andrei Gafita, Jeremie Calais, Wang Hui, Manuel Weber, Hendrik Rathke, Rouzbeh Esfandiari, Wesley R. Armstrong, Clemens Kratochwil , Robert Tauber, Ebrahim S. Delpassand, Uwe A. Haberkorn, Wolfgang A. Weber, Ken Herrmann, Michael S. Hofman, Johannes Czernin, Wolfgang P. Fendler, Matthias Eiber
Session GU Radioligand Therapy (Poster Session)	1273. The efficacy of Ra-223-dichloride treatment for bone-metastatic lesions in patients with castration-resistant prostatic cancer Ichiei Kuji, Tomohiko Yamane, Kenji Fukushima, Akira Seto, Nishimoto Koshiro, Tsuyoshi Kaneko, Suguru Shirotake, Masafumi Oyama
Session Data Analysis & Management (Poster Session)	1392. Diagnostic accuracy of oncologic ultra-low-dose FDG-PET imaging: a pilot study Ryan D. Niederkohr, James J. Hamill, Judson P. Jones
Session Data Sciences (Poster Session)	1409. Influence of CT reconstruction parameters on ¹⁸F-FDG PET/CT uptake classification using a deep convolutional neural network Amy Goddard, Guenther Platsch, Carl von Gall, Ludovic Sibille, Bruce Spottiswoode, Vijay P. Shah
Session Data Sciences (Poster Session)	1411. Transfer learning of AI-based uptake classification from ¹⁸F-FDG PET/CT to Ga-PSMA-11 PET/CT for whole-body tumor burden assessment Nicolò Capobianco, Andrei Gafita, Guenther Platsch, Ludovic Sibille, Bruce S. Spottiswoode, Matthias Eiber, Wolfgang A. Weber, Nassir Navab, Stephan G. Nekolla
Session Data Sciences (Poster Session)	1430. Application of convolutional neural network to I-mIBG SPECT imaging: automatic quantitation vs. manual measurements Shintaro Saito, Kenichi Nakajima, Lars Edenbrandt, Olof Enqvist, Johannes Ulen, Seigo Kinuya
Session Image Generation (Poster Session)	1456. Data-driven respiratory SPECT-gating for pre-radio- embolization determination of liver-lung-shunt fraction Philipp Ritt, Kathrin Seidl, Michal Cachovan, Alexander Hans Vija, Torsten Kuwert

(continued)

Session	Title/Author
Session Image Generation (Poster Session)	1457. 3D Fourier-based analytic reconstruction from continuous bed acquisition histo-projections Vladimir Y. Panin, Mehmet Aykac, Samuel Matej
Session Image Generation (Poster Session)	1463. List-mode reconstruction for Biograph Vision PET/CT scanner Deepak Bharkhada, Vladimir Y. Panin, Maurizio Conti, Margaret E. Daube-Witherspoon, Samuel Matej, Joel S. Karp
Session Image Generation (Poster Session)	1473. Benefit of time-of-flight imaging for low BMI patients in F-18 FDG PET/CT K G. Kallur, G R. Prashanth, K Rajkumar, Prakruthi Jakathe, Navin Kausthubh, Harshali Bal, Maurizio Conti
Session Image Generation (Poster Session)	1475. Data-driven respiratory gating of both PET and CT James Hamill, Paul Schleyer, Judson P. Jones, Dustin Osborne, Shelley Nicole Acuff
Session Infection/ Pulmonary/Outcomes (Poster Session)	1489. Evaluation of automatic lung lobe segmentation for SPECT/CT lung VQ image analysis Fei Gao, Guenther Platsch, Michal Cachovan, Guillaume Chabin, Alexander Hans Vija, Guillaume Nicolas, Alin Chirindel, Damian Wild, MD, Zhoubing Xu , Sasa Grbic , Bruce S. Spottiswoode, Sven Zuehlsdorff
Session Instrumentation (Poster Session)	1497. Performance evaluation of an extended axial field-of-view (FOV) PET scanner prototype with sparse detector module rings configuration Sara A. Zein, Nicolas A. Karakatsanis, Maurizio Conti, Sadek A. Nehmeh
Session Instrumentation (Poster Session)	1503. Quantitative evaluation of three Siemens Biograph PET scanners using different reconstruction algorithms and parameters. Mahdjoub Hamdi, Syahir Mansor, Richard Laforest
Session Musculoskeletal (Poster Session)	1525. Tc-99m-DPD xSPECT Bone scan Quantification of subchondral bone in osteoarthritic knee assessment Mario Jreige, Niklaus G. Schaefer, John O. Prior, Marie Nicod- Lalonde
Session Neurology & Psychiatry (Poster Session)	1530. I-123-ioflupane quantification in lewy body dementia and parkinson disease: Efficient role of xSPECT-derived absolute and relative SUV Mario Jreige, Gilles Allenbach, Marie Meyer, Marie Nicod- Lalonde, Niklaus G. Schaefer, John O. Prior
Session Clinical Science (Poster Session)	1596. Quantitative myocardial perfusion ⁸²Rb-PET assessed by hybrid PET/coronary CT: normal values and diagnostic performance Martin T. Freitag, Jens Bremerich, Damian Wild, Philip Haaf, Michael Zellweger, Federico Caobelli
Session Clinical Science (Poster Session)	1597. 3D PET/CT ⁸²Rb-PET myocardial blood flow quantification: comparison of half-dose and full-dose protocol Martin Lyngby Lassen, Osamu Manabe, Yuka Otaki, Evann E. Eisenberg, Frances Wang, Phi T. Huyhn, Daniel S. Berman, Piotr J. Slomka

(continued)

Session	Title/Author
Session Clinical Science (Poster Session)	1607. Quantitative evaluation of Tc-pyrophosphate SPECT/CT in the diagnosis of transthyretin amyloid cardiomyopathy Satoru Watanabe, Hiroto Yoneyama, Kenichi Nakajima, Hiroshi Wakabayashi, Anri Inaki, Junji Komatsu, Shohei Yoshida, Takahiro Konishi, Seigo Kinuya
Session TS16 Tech Papers II: Clinical PET Technologist Papers	3010. Improved time-of-flight timing resolution provides high quality PET images Hideaki Sato, Suguru Katsube, Yuma Tsubaki, Kodai Kumamoto, Yuji Tsutsui, Kazuhiko Himuro, Shingo Baba, Masayuki Sasaki
Session TS16 Tech Papers II: Clinical PET Technologist Papers	3017. Comparison of continuous bed motion and step-and-shoot method in SiPM PET/CT Kodai Kumamoto, Suguru Katsube, Yuma Tsubaki, Hideaki Sato, Yuji Tsutsui, Kazuhiko Himuro, Shingo Baba, Masayuki Sasaki
Session TS27 Tech Students Papers I	3052. Impact of automatic quality control on productivity in a nuclear medicine department. Amanda Lima, Elizabeth De Puente, Manuel Herrera, Michelle Gruchot, Gary L. Dillehay
Session TS28 Tech Students Papers II	3058. A demonstration of the effect of time of flight in clinical PET imaging. Alexander Ginder, Scott Leonard, Michelle Gruchot, Gary L. Dillehay
Session TS28 Tech Students Papers II	3071. OncoFreeze in ¹⁸F-FDG PET/CT image reconstructions result in statistical uptake parameter deviation from non-OncoFreeze reconstructions lung lesions Grace D. Walton, Logan R. Linscheid, Ryan Avery, Scott Leonard, Michelle Gruchot, Gary L. Dillehay

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