

Poster Presentations at PSRM2013, Aachen, May 6-7, 2013

1. Poster session

Preliminarily scheduled time Monday May 6, 16:30

Recent Advances in PET-Instrumentation

M. Chmeissani et al. VIP a novel design for compact high resolution PET scanner based on pixel CdTe detector

Pablo Conde et al. Results of a combined monolithic crystal and an array of ASICs controlled SiPMs.

Maria Georgiou et al. Temperature dependence of digital silicon photomultiplier (dSiPM) performance in SPECT applications

Ricardo Bugalho et al. Development and Performance Evaluation of a Simultaneous PET-MR Detector based on the ClearPEM Technology

I. Sacco et al. A new position sensitive Silicon Photo-Multiplier with sub-millimeter spatial resolution for photon clusters identification in PET applications

H. Thoen et al. Relative importance of transverse detector pixel size, DOI and TOF in future whole-body PET/MR systems

Small Animal PET-MR & SPECT-MR

G Buonincontri et al. Multi-modal assessment of the infarcted mouse heart in response to therapy

Nicolas Costes et al. Backtranslating MRI-PET joint analyses to rats: Supervised clustering for reference region extraction for [11C]PK11195 PET

Louis Doré-Savard et al. MRI-PET applied to a novel rat model of bone cancer pain

Rob Hawkes et al. NEMA Test Results for the Cambridge Split Magnet System

Vincent Keereman et al. PET-MRI Imaging in the Kainic Acid Model of Medial Temporal Lobe Epilepsy

Brain PET-MR: Methods

Michaela Gaens et al. Fast Monte Carlo based scatter correction for the MR-BrainPET

P. Khateri et al. A Novel Segmentation Approach for Implementation of MRAC in Head and Neck PET/MRI Imaging Employing Short-TE MRI and 2-Point Dixon Method in Fuzzy C-Means Framework

A. Santos Ribeiro et al. Hybrid approach for attenuation correction in PET/MR scanners

2. *Poster session*

Preliminarily scheduled time Tuesday May 7, 10:00

Brain PET-MR: Applications

Miguel Patrício et al. Voxelwise comparison of noninvasive quantification methods for PIB amyloid PET imaging

P. Ritt et al. Automated Classification of Cerebral Gliomas on Multimodal Imaging Data from PET and MR

Whole-Body PET-MR: Methods

Bassim Aklan et al. Toward Simultaneous PET/MR Breast Imaging: Systematic Evaluation and Integration of an RF Breast Coil

M.R. Ay et al. Classification of bones from MR images in torso PET-MR imaging using a statistical shape model

Yannick Berker et al. Out-of-field activity in the estimation of mean lung attenuation coefficient in PET/MR

G. Delso et al. Study of the correlation of IVIM parameter maps with FDG PET

Michael Fieseler et al. Motion Correction of PET Data with a Joint Registration Functional for PET/MRI Data

René Kartmann et al. Integrated PET/MR imaging: Automatic attenuation correction of flexible RF coils

Sipilä HAT et al. First impressions on [15O]-studies with a PET/MR – [15O]-gas administration and MR compatible radiowater generator

Susanne Ziegler et al. Systematic evaluation of phantom fluids for simultaneous PET/MR hybrid imaging

Whole-Body PET-MR: Applications

J. van den Hoff et al. Absolute quantification of the 18F-FDG uptake rate in whole body PET/MR

Philipp Heusch et al. Correlation of the apparent diffusion coefficient (ADC) with the standardized uptake value (SUV) in hybrid 18F-FDG PET/MRI in non-small cell lung cancer (NSCLC): initial results