

## **Session Program**

**9-12 May 2006**



# **Euromedim 2006 :1st European Conference on Molecular Imaging Technology**

## ***Poster Session :Simulation, Modeling, Reconstruction***

Palais du Pharo, Marseille

## Tuesday 9 May

14:00

### Poster Session :Simulation, Modeling, Reconstruction

Poster Session | Location: Palais du Pharo, Marseille

#### New reconstruction algorithm for directional-derivative projections of the high-resolution DEI-CT

**Speaker**

Dr Zhi-Feng Huang

#### Simulation studies of an inline PET prototype

**Speaker**

Ms Marie-Charlotte RICOL

#### Analytical Reconstruction of Dynamic Cardiac SPECT with Noise-Reduction and Attenuation Compensation

**Speaker**

Prof. Hongbing Lu

#### Monte Carlo simulation of the deposited dose in a patient during a therapy with carbon ions

**Speaker**

Ms Nathalie DUFOUR

#### Assessment of input function distortions on kinetic model parameters in simulated dynamic $^{82}\text{Rb}$ PET perfusion studies

**Speaker**

Mr Andreas Thon

#### Non Contact Fluorescence Optical Tomography by means of Numerical and Analytical Approaches

**Speaker**

Dr Lionel Hervé

#### Measured and Simulated Specifications of the Lausanne ClearPET Scanner Demonstrator

**Speaker**

Martin Rey

#### The Influence of Noise in Full Monte Carlo ML-EM and Dual Matrix Reconstructions in Positron Emission Tomography

**Speaker**

Mr Niklas Rehfeld

#### PENELOPET, A monte carlo-based application for tomography based on PENELOPE

**Speakers**

Ms Esther Vicente Torrico, Mr Joaquín López Herraiz, Mr Samuel España Palomares

#### Gamma-ray Tracking Method Using a Digital Pulse Shape Analysis for Improving the Imaging Sensitivity of a Compton Camera

**Speaker**

Mr Nam Young Kim

**Performance evaluation of a Small Animal PET Scanner. Spatial resolution characterization using 18-F and 11-C****Speaker**

Dr Antonello Spinelli

**Full 3D cluster based iterative image reconstruction tool for small animal PET camera****Speaker**

Mr Ivan Valastyan

**Study of randoms-induced artefacts in several small animal PET scanners****Speaker**

Mr JOAQUIN LOPEZ HERRAIZ

**Investigation of a Whole-Body DOI-PET System****Speaker**

Mr junichi ohi

**Performance of a Small Animal PET Scanner Based on Monolithic Scintillation Detectors****Speaker**

Dr Dennis R. Schaart

**Detector normalization and scatter correction for the jPET-D4: a 4-layer depth-of-interaction PET scanner****Speaker**

Dr Keishi Kitamura

**Geometric Sensitivity of ClearPET(TM) Neuro****Speaker**

Dr Brigitte Gundlich

**MR Image Reconstruction from Partial k-Space Using Singularity Function Representation****Speaker**

Dr Yuemin ZHU

**AUTOMATIC CALCULATION OF SUV ON FDG PET-CT LUNG LESIONS****Speaker**

Mr Ismael KARIDIOULA

**Inter-crystal scatter identification for a depth-sensitive detector using support vector machine for small animal PET****Speaker**

Dr Eiji Yoshida

**EVENT MODEL SIMULATING IN OBJECT ANALYSIS SYSTEM****Speaker**

Dr Vyacheslav Vinogradov

**Validation on an Anthropomorphic Phantom of FORE Optimization in 3D PET**

**Speaker**

Dr Elisabetta De Bernardi

**Performance characteristics of a cluster based data acquisition system dedicated to PET scanners****Speaker**

Dr Miklos Emri

**Effect of Detector Parameters on the Image Quality of Compton Camera for 99mTc****Speaker**

Ms So Hyun AN

**3-D Reconstruction from Compton Scattered Data Using Two Different Approaches to Implementing Projector-Backprojector Pair****Speaker**

Ms Soo Mee Kim

**Image optimization and dose evaluation in coronary stenosis using multi slices computed tomography****Speaker**

Mr Yung-Hui Huang

**Validation of a GATE model for the simulation of the Siemens PET/CT biograph™ 6 scanner****Speaker**

Mr Panagiotis Gonias

**Monte Carlo validation in the diagnostic radiology conditions.****Speaker**

Dr Dimitrios Nikolopoulos

**PET Image Reconstruction: A Stopping Criterion Based on the Updating Coefficients of the ML-EM Algorithm****Speaker**

Dr Pedro Guerra

**Investigation of the effect of the scintillator material on the overall X-ray detection system performance by application of analytical models****Speaker**

Mr Nikolaos Efthimiou

**Evaluation of the conical scanning scheme for SPECT applications****Speaker**

Mr Vyacheslav Pedash

**CONTRAST NOISE BEHAVIOUR FOR A ROTATING SLAT COLLIMATED GAMMA CAMERA****Speaker**

Mr Roel Van Holen

**Investigations of the tomographic reconstruction issue in particular acquisition geometry in the framework of a bimodal microPET/CT****Speaker**

Mrs Solene Valton

**A New Reconstruction Method for 3-D PET named pair of near-missing LORs ( PNMLOR) method****Speaker**

Dr Shoji Kawatsu

**Comparison of simulated and experimental performances of the Concorde MicroPET Focus 220 system using the SORTEO Monte Carlo simulation software****Speaker**

Dr Carole Lartizien

**Estimating accidental coincidences for pixelated PET detectors and singles list-mode acquisition****Speaker**

Dr Magdalena Rafecas

**A NEW APPROACH TO CALCULATION OF PLANAR DETECTOR EFFICIENCY FACTORS FROM COINCIDENCE DATA FOR THE NON-ROTATING QUAD-HIDAC PET SCANNER****Speaker**

Ms Leticia Ortega Maynez

15:00