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Keyword: endotofpet AND us

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Results List

Novel multimodal endoscopic probes for simultaneous PET/ultrasound imaging for image -guided interventions

Start date:2011-01-01

End date:2014-12-31

Project Acronym:ENDOTOFPET-US

Project status: Execution

Coordinator

Organization name:UNIVERSITE DE LA MEDITERRANEE D'AIX-MARSEILLE II	
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URL:http://www.univmed.fr	**Organization Type:**

Description

Objective: In the frame of this project it is proposed to define and build a bi-modal PET-US (Positron Emission Tomography and Ultrasound) endoscopic probe combining in a miniaturized system a fully digital, 200ps time resolution Time of Flight PET detector head (TOF-PET) coupled to a commercial ultrasound (US) assisted biopsy endoscope and to launch the first steps of clinical validation. The project addresses and combines several objectives of the topics Health 2010. 1. 2-1, such as novel multimodality imaging tools, including a single photon (quantum) counting PET detector head for the purpose of identifying and quantifying morphologic and functional markers and of developing new biomarkers of tumoral processes at the preclinical and clinical levels. Moreover the endoscopic approach, combined with an unprecedented PET timing resolution will allow more sensitive, more precise, lower radiation dose and less invasive imaging and intervention on small internal structures and lesions.

Achievements:

General information:

Project Details

Start date:2011-01-01

End date:2014-12-31

Duration:48 months

Project Reference:256984

Project cost:10397115 EURO

Project Funding:5516001 EURO

Programme Acronym: FP7-HEALTH

Programme type: Seventh Framework Programme

Subprogramme Area: Tools for the identification and the detection of biomarkers in clinical samples and patients. FP7-HEALTH-2010-two-stage

Contract type: Small or medium-scale focused research project

URL: