3° INCONTRO SULL'ECOSISTEMA TOSCANO PER L'INNOVAZIONE - SPOKE 1

martedì 19 dicembre 2023 - martedì 19 dicembre 2023

CNR - Area della Ricerca di Pisa

Scientific Program

PROGRAMMA PRELIMINARE

SESSION 1: PROJECT MANAGEMENT

09.00-09.20 Overview Spoke 1: Cronoprogramma e milestones. L.Gizzi (CNR-INO)

09.20-09.40 Project management. D. Fornaciari (CNR-INO)

09.40-10.00 SPOKE 5 - Update. E.Bianchini (CNR-IFC)

10.15-10.45 Caffè (Aula 29)

SESSION 2: SPOKE 1: PROGRESS OF SUBPROJECTS

11.00-11.20 Sub-project(1.2)- *Multi-scale modeling of high dose-rate irradiation: updates.* V.Tozzini (CNR-NANO)

11.20-11.40 Sub-project(1.2)- *Requirements and specifications to configure an XNAT-based platform for data collection and processing within THE project.* C.Scapicchio (INFN)

11.40-12.00 Sub-project(1.1)- *Toward a laser-driven VHEE radiotherapy: Monte Carlo simulations of transport and focalization.* C.Panaino (CNR-INO)

12.00-12.20 Sub-project(1.1) - *Dosimetry with plastic scintilaltor in electron FLASH radiotherapy.* E.Ravera (UNIPI)

12.20-12.40 Sub-project(1.6)- *Updates on optical imaging for Cerenkov dosimetry.* E.Ciarrocchi (UNIPI-INFN)

12.40-13.00 Sub-project(1.3, 1.4, 1.5)
- *Flash vs Conventional radiotherapy: melanoma cells and primary adipocytes response.* A. USAI (UNIPI)
- *Flash radiotherapy: a new approach for ocular melanoma.* B. Di Marco
- *The role of super-resolution microscopy in understanding the effects induced in vitro by different radiotherapy regimes.* B. Noferi, V. Parenti

13.15-14.30 Pranzo (Buffet, Aula 29)

14.40-15.40 Sub-project(1.3, 1.4, 1.5)
- *Effects of conventional and flash radiotherapy on glioblastoma and melanoma cells.* B. D'Orsi (CNR-IN)
- *Visual system function as a read out of in-vivo radiotherapy.* G. Sansevero
- *Evaluating the effects of irradiation of murine corneal collagen structures using two photon*

imaging. V. Pillai Rajan
- *A time line for animal studies: radiotherapy on naive and melanoma mouse models.* G. Scabia
- *Anatomic and tissue characterization of melanoma model using high field MRI.* C. Fabbri, A .Flori
- *Creation of devices for optimizing in vitro experiments, beam modification and quantification of dose distribution* D. Del Sarto

15.40-16.00 Sub-project*(1.8)- Radiofarmaci per uso clinico: dalla produzione al trasferimento tecnologico.* M.Poli (CNR-IFC), D.Volterrani (UNIPI)

16.00-16.30 Caffè (Aula 29)

16.40-17.00 Sub-project(1.7)- *Ongoing activities as part of WP 1.7.* L.Menichetti (CNR-IFC)

17.00-17.20 Sub-project(1.7)- *Studi di imaging PET con radiotraccianti selettivi per la proteina FAP e le integrine per la valutazione del rimodellamento del microambiente tumorale in seguito a radioterapia ad altissime dosi.* C.Fabbri (SSSUP; CNR-IFC)

17.20-17.40 Sub-project(1.7)- *Design, optimization and synthesis of dual inhibitors against tumor-associated human Carbonic Anhydrases and Fibroblast Activation Protein (FAP-α) through the use of radiolabeling chelators*. F.Carta (NEUROFARBA)

17.40 - Summary