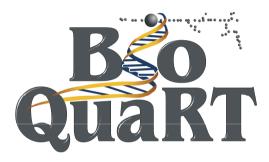
EMRP JRP-SIB06

Biologically Weigthed Quantities for Radiotherapy



Midterm Dissemination Workshop
Aix-en-Provence-en-Provence, 07
June 2013



WELCOME to the BioQuaRT Satellite Workshop

Please sign the circulated list for your participation in the workshop and in the dinner (if applicable)

Participants in BioQuaRT Workshop at NEUDOS-12 and in the Dinner

Family Name	First Name	Affiliation	Workshop	Dinner
AMBROZOVA	Iva	NPI		
BORTOT	Davide	PoliMi		
BOTTOLIER-DEPOIS	Jean-Francois	IRSN		
CHIRIOTTI	Sabina	SCK-CEN		









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- European Metrology Research Programme (EMRP):
 - metrology-focused EU coordinated R&D programme
 - jointly funded by the EMRP participating countries within EURAMET and the European Union
 - operated by European Association of National Metrology Institutes (EURAMET e.V.)
- BioQuaRT is one of 30 Joint Research Projects (JRP) that were successful in the 2011 EMRP calls.

EMRP JRP BioQuaRT (Jun 2012 – May 2015)

Consortium





















Collaborators















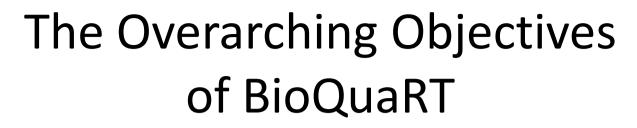










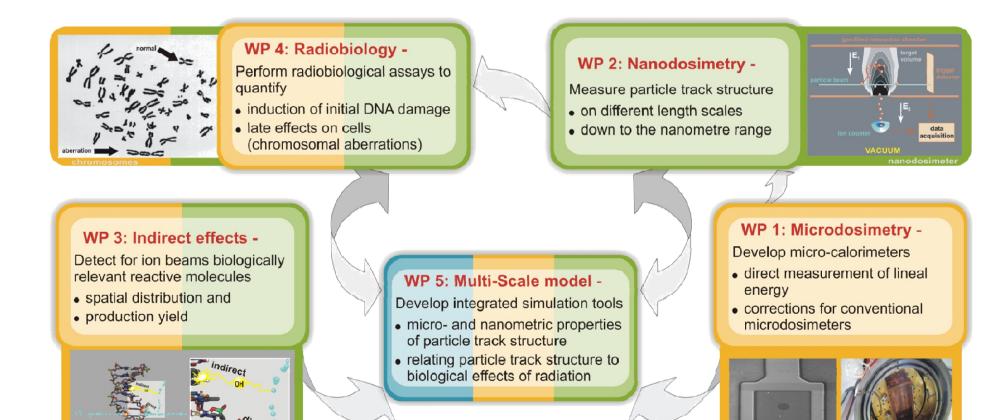




- Experimental techniques for characterisation of ion track structure in terms of
 - microdosimetry
 - nanodosimetry at different length scales
 - production of reactive species
- Multi-scale simulation of track structure and relating it to early and late biological effects
- Utilising track structure parameters on the macroscopic scale (e.g. treatment planning)







Programme of the Workshop



14:00	Hans Rabus	A vision for a new concept of radiation quality based on charged particle track structure.
14:15	Hugo Palmans	Towards direct measurement of lineal energy in tissue-equivalent absorbers and corrections for microdosimetric gas counters and silicon detectors.
14:40	Gerhard Hilgers	Measuring the features of ion track structure with nanometric resolution.
15:05	Hugo Palmans	Quantification of the production yield of reactive oxygen species and their 2D and 3D distribution in ion tracks.
15:30	Coffee Break	

Programme of the Workshop



16:00	Gaëtan Gruel	Benchmarking simulations by measured yields of initial DNA damage and late effects for ion beam irradiation of human and mammal cells.	
16:25	Carmen Villagrasa	Developing a multi-scale simulation model for charged particle track structure and the biological effects of track structure at the cellular level.	
16:50	Davide Moro	Complementing BioQuaRT goals: the INFN Project MITRA on advanced microdosimetry of ion beams.	
17:10	Marco Silari	Highlights from the Advanced Radiation Dosimetry European Network Training initiative (ARDENT)	
17:35	Hans Rabus	Implementing the vision: the further route of BioQuaRT.	
17:45	End of BioQuaRT Dissemination workshop		