

COST BM1309 EMF-MED WG2 workshop

Non-invasive and modeling methods for monitoring of biomolecular and biomedical effects of ultrashort pulsed electric fields

PROGRAM

Thursday 27.4. PRESENTER		TITLE OF THE TALK
14:00 - 14:20	Lluís MIR, Michal CIFRA	Introduction of the workshop
14:20 - 14:50	Antoine AZAN	Confocal Raman microscopy for monitoring the biochemical consequences of in vitro cell electropermeabilization in a non-invasive way
15:10 - 15:40	Marie BRETON	Monitoring lipid oxidation caused by pulsed electric fields
15:40 - 16:00	coffee break	
16:00 - 16:30	Michal CIFRA	Endogenous chemiluminescence for monitoring oxidation due to pulsed electric fields
16:30 - 17:00	Micaela LIBERTI	Microchambers and devices for cells exposure: from the design to applications
17:00 - 17:30	Agnese DENZI	Numerical microdosimetry: a tool for prediction and understanding
17:30 - 18:00	Francesca APOLLONIO	Molecular modeling of biomolecules exposed to ultrashort pulsed electric fields
Friday 28.4.		
09:00 - 09:30	Philippe LEVEQUE	Bioimpedance methods for monitoring bioeffects of EMF
09:30 - 10:00	Lluís MIR	A bioimpedance method for monitoring attached cells electroporation
10:00 - 10:30	Marie BRETON	Bioeffects of RF fields
10:30 - 11:00	Jan CUPPEN	Measuring neutrophil activation by EMF through granulation of the cell kernel (opaqueness of the cell); proposal and pilot results
11:00 - 11:20	coffee break	
11:20 - 11:45	local organizers	lab tour to Bioelectrodynamics research team
11:45 - 13:00	DISCUSSIONS	Future directions, potential collaborations, white paper for the COST action, new programs, etc...