RSPAB
ROMANIAN SOCIETY OF PURE AND APPLIED BIOPHYSICS

cost
EUROPEAN COOPERATION
IN SCIENCE AND TECHNOLOGY

Action TD 1104

Council Hall
***Carol Davila* University of Medicine and Pharmacie**
8 Eroii Sanitari Blv., Bucharest
October 25-27, 2012

International Course

Electroporation for Medicine:

Basic Knowledge, Applications and Technologies

Thursday, *October 25, 2012* - Basics and Technology

13:00 - 15:30	Registration		
15:30 - 16:00	Opening. Introduction to COST action TD1104		
16:00 - 17:00	*Lecture 1*	Lluis M. Mir Paris XI University, France	Basics of cell electroporation *in vitro* and *in vivo*: concept and basics of electrochemotherapy
17:00 - 18:00	*Lecture 2*	Marie-Pierre Rols IPBS-CNRS, France	Basics for DNA electrotransfer *in vitro*: a 30 years old story
18:00 - 18:20	*Coffee break*		
18:20 - 19:20	*Lecture 3*	Damijan Miklavčič University of Ljubljana Slovenia	Engineering aspects of cell electroporation *in vitro* and *in vivo* - what the medicine students and clinicians need to know
19:20 - 21:00	*Buffet dinner*		

Friday, *October 26, 2012* - Applications in Clinics

13:00 - 14:00	*Lecture 4*	Boris Rubinsky University of California Berkeley , USA	Biomedical applications of irreversible electroporation. Molecular selective surgery
14:00 - 15:00	*Lecture 5*	Gregor Serša Institute of Oncology Slovenia	Summary of preclinical data on electrochemotherapy with bleomycin and with cisplatin. Antivascular effects of electric pulses and of electrochemotherapy
15:00 - 15:20	*Coffee break*		
15:20 - 17:00	*Tutorials*	Tutorials for lectures 1,2,3,4,5	
17:00 - 18:00	*Lecture 6*	Mattia Ronchetti IGEA, Italy	Electrochemotherapy clinical indications and current clinical use in the EU
18:00 - 19:00	*Panel*	Gregor Serša, Mattia Ronchetti, Damijan Miklavčič, Lluis M. Mir	ESOPE Standard Operating procedures of electrochemotherapy. Electrodes for surface tumors, new electrodes for internal tumors (brain, bone, liver)

Saturday, *October 27, 2012* - Gene Electrotransfer and Perspectives

9:00 - 10:00	*Lecture 7*	Franck André Gustave Roussy Institute France	Nucleic acids electrotransfer: differences in protocols due to the *in vitro* and *in vivo* constrains
10:00 - 11:00	*Lecture 8*	Loree C. Heller Frank Reidy Research Center for Bioelectrics Norfolk, USA	Immune responses to DNA electrotransfer at the cell level and at the body level
11:00 - 12:00	*Lecture 9*	Richard Heller Old Dominion University Norfolk, USA	Clinical applications of gene electrotransfer: from bench to bedside, perspectives for human medicine
12:00 - 12:20	*Coffee break*		
12:20 - 14:00	*Tutorials*	Tutorials for lectures 6, 7, 8, 9 and panel	
14:00 - 14:20	Closing ceremony		
14:20 - 16:00	*Buffet lunch*		

Sponsors