COST Action TD1104

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European network for development of electroporation-based technologies

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Electroporation for Medicine: Basic Knowledge, Applications and Technologies

October 25–27, 2012, Carol Davila Medical University of Bucharest

The COST TD1104 Training School (http://www.biophysicsnet.ro) was attended by 42 students among whom 15 were medical doctors. This International Course entitled Electroporation for Medicine: Basic Knowledge, Applications and Technologies was hosted by Carol Davila Medical University of Bucharest (October 25-27, 2012). The course aimed at disseminating the latest knowledge and technological innovations on electroporation and its biomedical applications (electrochemotherapy, gene electrotransfer for gene therapy and DNA vaccination, and irreversible electroporation for tissue ablation). The course offered lectures by world leading experts in the field coming from prestigious universities and research institutes in Europe and in the USA:

- Dr Lluis M. Mir, CNRS-Gustave Roussy Institute, Villejuif, France,
- Professor Damijan Miklavcic, University of Ljubljana, Slovenia,
- Professor Richard Heller, Old Dominion University, Norfolk, USA,
- Professor Gregor Sersa, Institute of Oncology, Slovenia,
- Professor Boris Rubinsky, University of California at Berkeley, USA,
- Dr Loree Heller, Old Dominion University, Norfolk, USA,
- Dr Marie-Pierre Rols, CNRS-Institute of Pharmacology and Structural Biology, Toulouse, France,
- Dr Mattia Ronchetti, IGEA, Carpi, Italy,
- Dr Franck Andre, CNRS-Gustave Roussy Institute, Villejuif, France.

The lectures were grouped under three topics: Basics and Technology, Applications in Clinics, and Gene Electrotransfer and Perspectives allowing the attendees to progress from concepts and mechanisms to the last-hour clinical applications or electric pulses delivering electrode prototypes.
The lectures were followed by tutorials during which each attendee had the opportunity to directly interact with each speaker: asking questions, obtaining experimental or clinical details or discussing research projects in a friendly, face-to-face ambient. The majority of attendees were coming from Romanian university centers: Bucharest, Cluj-Napoca, Timisoara, Brasov, Sibiu, Oradea. Participants from Bulgaria, Lithuania and Israel benefited from travel and accommodation grants from COST TD1104 Action.

Obtaining financial support of the Romanian Agency on Research CNCS-UEFISCDI (Workshop Exploratoriu grant) and of the COST TD1104 Action, this course continued the spirit and the line of autumn schools Biophysics for Medicine organized every two years by the Romanian Society of Pure and Applied Biophysics. The International Course Electroporation for Medicine: Basic Knowledge, Applications and Technologies represented the first scientific event entirely dedicated to electroporation held in Romania.

COST TD1104 Action members have access to all materials related to the Bucharest course: program, abstracts book, lectures slides, photos etc. on the website www.electroporation.net - private section. After logging in using your username and password, go to Training schools, and choose Electroporation for medicine, Bucharest 2012 and benefit from this opportunity.

Forthcoming activities

7th Conference on Experimental and Translational Oncology co-organized by COST TD1104
Portoroz, April 20–24, 2013
http://www.ceto.si