



RSPAB
ROMANIAN SOCIETY OF PURE AND APPLIED BIOPHYSICS



Asociația
Părintele Galeriu

**Carol Davila University of Medicine and Pharmacy
Romanian Society of Pure and Applied Biophysics
Părintele Galeriu Association, Bucharest**

Co-organizer

European Program COST Action TD 1104 (www.electroporation.net)



invite to

2nd International Course ***Electroporation for Medicine: Basic Knowledge, Applications and Technologies***

May 30th – June 1st, 2015

G.E. Palade Amphitheater, Faculty of Medicine

Carol Davila University of Medicine and Pharmacy of Bucharest



photo: G. Sersa, 2010

This course disseminates the latest knowledge and technological innovations on **electroporation** and its **therapeutic applications**: electrochemotherapy, gene electrotransfer, tumor ablation etc.

The course is open to **medical doctors** in **oncology, dermatology, radiodiagnostic, surgical specialities** and other **professionals from the clinics**, but also to **medical students, PhD students** and **researchers** in human and veterinary medicine, biology, biotechnology, biophysics-biochemistry.

During three half-days, the course is organized in lectures and tutorials giving the concepts as molecular mechanisms and technological development of electroporation, but focuses mainly on clinical applications.

This course is the main scientific event entirely dedicated to electrochemotherapy held in Romania, and gathers top scientists-clinicians and researchers.

Notes for Romanian attendees

- **Colegiul Medicilor din România** acordă medicilor participanți **12 credite EMC**.
- O **sesiune dedicată electrochimioterapiei** va avea loc în cadrul *Congresului Universității de Medicină și Farmacie Carol Davila*, ediția a3-a, la Palatul Parlamentului, în Sala *Drepturilor Omului*, sâmbătă 30 mai 2015 începând cu ora 11:30.
(<http://www.congresumf.ro/session/electrochimioterapia-o-noua-arma-in-lupta-contra-cancerului/>)

Program

Saturday, May30th, 2015– Basics and Technology

12:30 - 14:30 Registration

14:30 - 14:45 Opening

14:45 – 15:00 **Introduction to COST Action TD1104**

Damijan Miklavčič

Dept.of Biomedical Engineering, University of Ljubljana, Ljubljana, Slovenia

15:00 - 16:00 *Lecture 1*

Basics of cell electroporation in vitro and in vivo: the electrochemotherapy concept and the bases of its antitumor efficacy

Lluís M. Mir

CNRS Laboratoire de Vectorologie et Thérapeutiques Anticancéreuses, Univ. Paris Sud, Institut Gustave Roussy, Villejuif-Paris, France

16:00 - 17:00 *Lecture 2*

Nucleic acids electrotransfer: differences in protocols due to the in vitro and in vivo constraints

Franck André

CNRS Laboratoire de Vectorologie et Thérapeutiques Anticancéreuses, Univ. Paris Sud, Institut Gustave Roussy, Villejuif-Paris, France

17:00 - 17:30 Coffee break

17:30 - 18:30 *Lecture 3*

Engineering aspects of cell electroporation in vitro and in vivo

Damijan Miklavčič

Dept.of Biomedical Engineering, University of Ljubljana, Ljubljana, Slovenia

18:30 - 19:30 Tutorials

19:30 - 20:30 Buffet dinner

Sunday, May31th, 2015–Electrochemotherapy - from cutaneous to deep seated tumors

09:00 - 10:00 *Lecture 4*

Electrochemotherapy of cutaneous tumors, principles and applications

Gregor Šerša

Dept. of Experimental Oncology, Institute of Oncology, Ljubljana, Slovenia

10:00 - 10:30 *Lecture 5*

Electrochemotherapy of head and neck and mucosal tumors

Caroline C. Plaschke

Dept. of Head and Neck Surgery, Rigshospitalet, Dept. of Oncology, Herlev Hospital, Copenhagen University Hospital, Denmark

10:30 - 11:00 Coffee break

11:00 - 11:30 *Lecture 6*

Electrochemotherapy in locally advanced pancreatic cancer

Francesco Izzo

Division of Surgical Oncology, Hepatobiliary and Pancreatic Unit, National Cancer Institute of Naples, Italy

11:30 - 12:00 *Lecture 7*

Endoscopic and laparoscopic delivery of electroporation

Declan Soden

Cork Cancer Research Centre, University College Cork, Cork, Ireland

12:00 - 12:30 *Lecture 8*

Electrochemotherapy in treatment of liver tumors

Gregor Šerša

Dept. of Experimental Oncology, Institute of Oncology, Ljubljana, Slovenia

12:30 - 14:00 Tutorials

14:00 - 15:00 Buffet lunch

Bucharest sightseeing

Monday, June 1st, 2015 – Perspectives of electroporation-based therapies

9:00 - 10:00 *Lecture 9*

Percutaneous and intraoperative irreversible electroporation in clinical use - preliminary experience with main focus on liver

Peter Voigt

Dept. of Diagnostic and Interventional Radiology, University of Leipzig, Leipzig, Germany

10:00 - 11:00 *Lecture 10*

Clinical applications of electroporation: perspectives and challenges for electrochemotherapy and electrogenetransfer in human medicine

Mattia Ronchetti

Oncology Clinical R&D, IGEA S.p.A, Carpi, Italy

11:00 - 12:00 Tutorials

12:00 - 12:30 Coffee break

12:30 - 13:30 Round table

How my patient may access an ECT treatment?

Lluís M. Mir, Damijan Miklavčič, Gregor Šerša, Mattia Ronchetti

13:30 - 13:45 Closing

13:45 - 15:00 Buffet lunch

Venue

The course will be held in the Amphitheater G.E. Palade (Amfiteatrul Mare) of the Faculty of Medicine, 8 Eroii Sanitari Blv., sector 5, Bucharest