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ROMANIAN SOCIETY OF PURE AND APPLIED BIOPHYSICS



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Council Hall

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

International Course

# Electroporation

## for Medicine

Basic Knowledge,

Applications and Technologies

### TOPICS

- Basics of cell electroporation *in vitro* and *in vivo*
- DNA electrotransfer: a 30 years old story
- Engineering aspects of cell electroporation - what the medicine students and clinicians have to know
- Electrodes for surface tumors, new electrodes for internal tumors (brain, bone, liver)
- Biomedical applications of irreversible electroporation. Molecular selective surgery
- Preclinical data on electrochemotherapy with bleomycin and cisplatin. Antivascular effects of electric pulses and of electrochemotherapy
- Electrochemotherapy clinical indications and current clinical use in the EU. ESOPE Standard Operating procedures
- Immune responses to DNA electrotransfer at the cell level and at the body level
- Clinical applications of gene electrotransfer: from bench to bedside, perspectives for human medicine



photo: G. Sersa, 2010



### Lecturers

Franck André - France

Loree Heller - USA

Richard Heller - USA

Damijan Miklavčič - Slovenia

Lluis M. Mir - France

Marie-Pierre Rols - France

Mattia Ronchetti - Italy

Boris Rubinsky - USA

Gregor Serša - Slovenia

### The course is open to

medical doctors in oncology, dermatology, surgical specialities and other professionals from the clinics, medical students, PhD students and researchers in human and veterinary medicine, dentistry, biology, biotechnology, biophysics-biochemistry

Sponsors



Colegiul Medicilor din România acordă medicilor participanți 14 credite EMC