

EBTT Student's presentation program:

Monday November 14th:

Chair: Justin Teissié

Development and uses of a microfluidic chamber to apply microsecond or nanosecond electric pulses and to visualize biological effects induced

Marie-Amélie de Ménorval, Franck André, Aude Silve, Claire Dalmay, Olivier Français, Bruno Le Pioufle, Thomas Schmid, Nelly Dorval, Brigitte Attal-Tretout, Philippe Leveque, Lluís M. Mir

Numerical determination of upper and lower bounds of the transmembrane potential with complementarity

Ruben Specogna

Sensitivity of Dielectric Spectroscopy in Cell Suspensions

Christian Beyer and Jürg Fröhlich

Dielectrophoresis as a tool for manipulation and characterization of electroporated cells

Liviu Dimitriu, Alexandru Carap, Tudor Savopol, Mihai Radu, Mihaela-Georgeta Moisescu

Tuesday November 15th:

Chair: Lluís M. Mir

Different sensitivity on electrochemotherapy of doxorubicin sensitive and resistant human adenocarcinoma cell lines

Nina Skolucka, Jolanta Saczko, Julita Kulbacka, Anna Choromanska, Agnieszka Chwilkowska, Iwona Kaminska, Malgorzata Kotulska

Characterization of planar lipid bilayer measuring chambers

Andraž Polak, Peter Kramar, Damijan Miklavčič

Electroextraction of pilot scale volumes of yeasts

Mathilde Coustets, Justin Teissié

Atomic Force Microscopy as a new tool to understand electroporation membrane effects

Louise Chopinet, Marie Pierre Rols, E.Dague

Adhesion signals of phospholipid vesicles at the electrified interface

Nadica Ivošević DeNardis, Vera Žutić, Vesna Svetličić, Ruža Frkanec

Wednesday November 16th:

Chair: P. Thomas Vernier

An electro-optic probe for the simultaneous measurement of temperature and high-voltage pulsed electric fields

Sophie Kohler, Nicolas Ticaud, Pierre Jarrige, Lionel Duvillaret, Delia Arnaud-Cormos and Philippe Leveque

Blebbing mechanisms in U937 cells exposed to high-rate nanosecond electric pulses (nsEP)

Mikhail Rassokhin and Andrei Pakhomov

Permeabilisation with one single 10 nanosecond pulse assessed by uptake of bleomycin at low external concentration

Isabelle Leray, Aude Silve, Lluís M. Mir

Microscopic optimization of pulsed electric field parameters for the reversible permeabilization of rucola leaves

Katarzyna Dymek, Petr Dejmek, Federico Gómez Galindo

Thursday November 17th:

Chair: Gregor Serša

Transient vascular permeability increase induced by Electroporation

Sandrine Pelofy, François Le Guerroué, Elisabeth Bellard, Marie-Pierre Rols, Justin Teissie and Muriel Golzio

Numerical models for the evaluation of the impedance at electroporation electrodes extremities

F. Dughiero, F. Longhin, Elisabetta Sieni, L. G. Campana, C. R. Rossi

Application for Calculating and Visualizing Local Electric Field in Multiple Electrode Electroporation

Samo Mahnič, Tadej Kotnik

3D Object Reconstruction as a part of Electrochemotherapy of Deep-seated Solid Tumors Treatment Planning

Marija Marčan, Denis Pavliha, Damijan Miklavčič

Friday November 18th:

Chair: Véronique Pr at

Effect of siRNA molecules targeting endoglin on tube formation of human endothelial cells HMEC-1 in vitro

Tanja Dolin sek, Bo tjan Markelc, Simona Kranjc, Gregor Ser a, Maja  ema ar

Enhanced healing of ischemic skin flaps in rats by plasmid encoding VEGF165 mediated by electroporation

Gaurav Basu, Harre Downey, Siqi Guo, Richard Heller

LNA-antagomiR delivery by Electropermeabilization

Julie Orio, Sophie Chabot, Romain Castanier, MC Blache, S Nielsen, Mouri l Golzio, Justin Teiss e.

Magnetofection of Reporter Gene in B16F1 Cells; Comparison with Other Non-Viral Gene Delivery Methods

Lara Prosen, Sara Priji , Andrej Znidar i , Maja  ema ar, Gregor Ser a