

EBTT Short presentation programme

Monday, November 11th:

Chair: Lluís M. Mir

Determining the initial degree of anisotropy of porcine skeletal muscle tissue using the dynamic model of electroporation ex vivo

Rok Šmerc

Numerical investigation of electroporation induced by a He and He-O₂ (1000 ppm) plasma jets on healthy and cancerous skin tissues

Constantinos Lazarou

Development of flexible organic microelectrodes for the detection and treatment of brain cancer - Calibration with an optogenetic engineered cell line

Marie Lefevre

Effect of calcium ions on liposomes as cell membrane analogues

Katja Balantič

Comparison of Electroporation Threshold between KcsA Membrane Protein System and Bare Lipid Bilayer with Applied Picosecond Pulsed Electric Field

Jingchao Tang

Tuesday, November 12th:

Chair: Justin Teissié

Using electroporation to influence cellular processes through calcium oscillation modulation in Mesenchymal Stem Cells

Leslie Vallet

Influence of pulsed electric field (PEF) and moderate electric field (MEF) protocols on the reversible permeabilization of Thai basil leaves

Grant Thamkaew

The relationship between cell viability and the extraction of intracellular molecules after electroporation

Dovilė Uždavinytė

Pulsed Electric Fields (PEF) to enhance the desalting of cod

Jessica Genovese

Application of Electroporation in Plant Biotechnology

Spela Mestinsek Mubi

Thursday, November 14th:

Chair: P. Thomas Vernier

Investigation of promoter methylation pattern following cell electroporation and calcium influence on efficiency of nucleic acids electrotransfer

Ruta Sinceviciute

Electroporation does not affect directly human dermal fibroblasts proliferation and migration properties but indirectly

Sara Gouarderes

Gene electrotransfer of plasmids encoding chemokines CCL5 and CCL17 to tumours results in their overexpression and modified cytokine expression profile

Tim Božič

Macromolecule transdermal drug delivery: design of carbon nanotubes-based hydrogel devices for electroporation

Juliette Simon

Changes in the electrochemotherapy-treated patients' quality of life – prospective analysis

Petra Rozsa

Friday, November 15th:

Chair: Gregor Serša

Evolution of vitamin complex CK3: ab initio study

Mantvydas Pašakinskas

Pilot Study on the Enhancement of Pharmacological Effect of Paclitaxel with Electrochemotherapy for Breast Cancer Treatment

Claudia Vera-Tizat

The use of high-frequency short bipolar pulses in cisplatin electrochemotherapy in vitro on skin melanoma cells

Maria Scuderi

Effect of electroporation and electrochemotherapy on expression of pattern recognition receptors on lung cancer cells and immune cells – in vitro study design

Maura B Bendix

Simultaneous detection of Ca²⁺ signaling and ATP release in the developing cochlea

Flavia Mazzarda