

EBTT Short presentation programme

Monday, November 16th:

Chair: Justin Teissié

Computational Monte Carlo model of the electroporation process

Magdalena Žulpo, Krystian Kubica

Modelling of permeabilization during and after electroporation predicts mild dependence of electroporation effectiveness on cell radius

Borja Mercadal, P. Thomas Vernier, Antoni Ivorra

Spore inactivation by pulsed electron beam

Camille Lamarche, Houda Baaziz, Marie-Pierre Rols, Gauthier Demol, Flavien Pillet

Thermal effect of nanosecond pulsed electric fields

David Moreau, Claire Lefort, Ryan Burke, Philippe Leveque, Rod O'Connor

Tuesday, November 17th:

Chair: P. Thomas Vernier

Nanosecond electroporator with diode opening switch and Silicon Carbide MOSFET

Eva Pirc, Matej Reberšek

Calcium-independent disruption of microtubule growth following nanosecond pulsed electric field exposure in U87 human glioblastoma cells

Lynn Carr, Sylvia Bardet, Malak Soueid, Delia Arnaud-Cormos, Philippe Leveque, Rodney O'Connor

Small Molecule Transport Through Electropermeabilized Live Cells

Esin B. Sözer, P. Thomas Vernier

Change in propidium iodide (PI) fluorescence intensity of MEC- 1 Cells due to treatment with microsecond electric pulses

Alaaddin Coskun, Handan Kayhan, Ayse G. Canseven

Voltage-gated ion channel antagonists inhibit nsPEF-induced membrane depolarization in U87 glioblastoma cells

Ryan C. Burke, David Moreau, Delia Arnaud-Cormos, Phillipe Leveque & Rod O'Connor

Thursday, November 19th:

Chair: Karen Julie Gehl

Effects of Applied Voltage on Electroporation of SH-SY5Y Neuroblastoma (NB) and MCF-7 human breast carcinoma cells

Meriç Arda Esmekaya, Handan Kayhan, Ayşe G. Canseven

The Influence of Electroporation on the Cellular Morphology of Selected Cell Lines

Jolanta Saczko, Nina Rembiałkowska, Anna Choromańska, Julita Kulbacka

Evaluation of bystander effect in in vitro electroporation

Ajda Prevc, Apolonija Bedina-Zavec, Maja Cemazar, Gregor Sersa

Dependence of DNA electrotransfer efficiency to cells in vitro on the time-lag between low- and high-voltage pulses

Milda Jakutavičiūtė, Aurelija Kazlauskaitė, Paulius Ruzgys, Saulius Šatkauskas

Canine Oral Melanoma - Electrochemotherapy Combined with Standard and CO2 Laser Surgeries as a Palliative Treatment – Case Report

Julita Kulbacka, Joanna Paczuska, Nina Rembiałkowska, Jolanta Saczko; Zdzisław Kielbowicz, Wojciech Kinda, Bartłomiej Liszka, Małgorzata Kotulska, Natasa Tozon, Maja Cemazar

Friday, November 20th:

Chair: Marie-Pierre Rols

Expression of cytosolic DNA sensors after gene electrotransfer of plasmid gWIZ Blank into different tumor cell types

Katarina Znidar, Masa Bosnjak, Loree C. Heller, Maja Cemazar

Bioflavonoids and menadione mixtures - novel systemic-friendly approach on cancer

Valentin Popescu, Bogdan Mastalier, Irina Baran

Polymeric membranes in the form of giant lamellar vesicles as possible carrier of functional membrane proteins into viable cells via electrofusion

Gianluca Bello, Tina B. Napotnik, Lea Rems, Damijan Miklavcic, Eva K. Sinner

Is the novel platelet-derivative component viable for non-transfusion use? Challenges and perspectives for a Blood Bank

Ana P. Sousa, Luís M. Redondo

Use of Pulsed Electric Fields and Ultrasound for the Microbial Inactivation of an Enzymatic Preparation from Porcine Pancreas

Paula Navarro, James G. Lyng, Paul Whyte, Michael O'Sullivan