

EBTT Student's presentation program:

Monday November 19th:

Chair: Justin Teissié

Microdosimetric Study for nsPEFs on a Cell Circuit Model with Nucleus

Agnese Denzi, Caterina Merla, Alessandra Paffi, Guglielmo d'Inzeo, Francesca Apollonio, Micaela Liberti

Numerical model of electroporation of intracellular liposomes with nanosecond electric pulses

Lea Retelj, Gorazd Pucihar, Damijan Miklavcic

Pulsed Electric Field-induced disintegration of fresh Rose petals

Fatma Gundogdu, Mustafa Fincan

Fresh fruit juices: quality, safety and shelf life extension by Pulsed Electric Field treatment

Rian Timmermans, Masja Nierop Groot, Louise Nederhoff, Ariette Matser, Hennie Mastwijk

Modelling the effects of electrostimulation in wound healing: A dental implants scenario

Juan Vanegas-Acosta, Vito Lancellotti, Peter Zwamborn, Diego Garzón-Alvarado

Enhancing cell proliferation by non-contact nanosecond PEF treatment of cell culture vials

J.W.M. van Bree, J. Geysen, A.J.M. Pemen

Tuesday November 20th:

Chair: P. Thomas Vernier

Ion Transport Through Field-Stabilized Nanoscale Lipid Electropores: Molecular Dynamics Simulations

Maura Casciola, M.C. Ho, Zachary A. Levine, P. Thomas Vernier

Determination of electro-physiological properties of cell by electrorotation

Claudia Trainito, Olivier Français, Bruno Le Pioufle

Electro-optical trap for cell manipulation and characterisation

Liviu Dimitriu, Tudor Savopol, Mihai Radu, Eugenia Kovacs, Mihaela-Georgeta Moisescu

Biodevices for Cell Electrofusion

Feriel S. Hamdi, Olivier Français, Elisabeth Dufour-Gergam, Bruno Le Pioufle

Electroporation as a support for the photosensitizers delivery to human breast carcinoma cells

Joanna Wezgowiec, Malgorzata Kotulska, Jolanta Saczko, Julita Kulbacka, Maria B. Derylo, Justin Teissie, Marie-Pierre Rols, Julie Orio

Impedance Sensing for Monitoring Cellular Behavior before and after In Situ Electroporation
Sonja Lukic, Stefanie Michaelis, Judith Stolwijk, Joachim Wegener

Death by calcium; Ca²⁺ loading by electroporation causes ATP exhaustion and tumor necrosis
Stine Krog Frandsen, Hanne Gissel, Pernille Hojman, Trine Tramm, Jens Eriksen, Julie Gehl

Thursday November 22nd:

Chair: Gregor Serša

Electroporation Enhances Mitomycin C's cytotoxicity in T24 Bladder Cancer Cell Line
Juan Luis Vásquez, Gregers G. Hermann, Julie Gehl

Multicellular tumor spheroid as a relevant ex vivo model to assess electromediated drug delivery in human tumors
Laure Gibot, Luc Wasungu, Justin Teissié, Marie Pierre Rols

Tumorsphere culture of B16-F10 cell line: targeting cancer stem cells using electrochemotherapy
Christophe Calvet, Franck Andre, Lluís M. Mir

Treatment of squamous cell carcinoma in oral cavity by electrochemotherapy in canine patients
Sebastián D. Michinski, Felipe H. Maglietti, Mónica L. Rao, Nahuel Olaiz, Guillermo Marshall

Bacterial Cellulose Scaffolds for Tissue Engineering with Porosity through Irreversible Electroporation
Andrea Rolong, Laurie G. O'Rourke, Katia Rodriguez, Paul Gatenholm, Rafael V. Davalos

Liver Segmentation for Electrochemotherapy Treatment Planning
Denis Pavliha, Damijan Miklavčič

Friday November 23rd:

Chair: Véronique Prétat

The effect of electroporation on cytotoxicity of two ruthenium(III) compounds in vitro
Tina Stepisnik, Rosana Hudej, Ajda Bicek, Damijan Miklavčič

Optimization of Gene Electrotransfer Conditions for Improved Transfection of Endothelial cells and Fibroblasts
Natasa Tesić, Maja Cemazar

AMEP gene electrotherapy in melanoma cells
Masa Bosnjak, Lara Prosen, Vesna Todorovic, Maja Cemazar, Céline Bouquet, Gregor Sersa

Experimental system for monitoring the effects of ultrasound in cells

Tomo Murovec

Transdermal and topical delivery of macromolecules using different high-voltage electroporation parameters and multi-array electrodes in vivo

Tanja Blagus, Bostjan Markelc, Matej Rebersek, Maja Cemazar, Gregor Sersa

Transdermal transport of calcein using electroporation - results of in vitro experiments

Barbara Zorec, Damijan Miklavčič, Nataša Pavšelj

Transfection of Hard to Transfect Cells using Electrospray: 'Sprayfection'

Emer Molloy