

EBTT Student's presentation programme

Monday, November 17th:

Chair: Justin Teissié

Generation of hydrogen peroxide by high-voltage pulses in cell-free media

Viktorija Skaidrutė Dainauskaitė, Raminta Rodaitė–Riševičienė, Andrei G. Pakhomov, Gintautas Saulis

Fluorescence quenching by the cell culture medium treated with a high-voltage pulses and metal ions released from the stainless-steel anode

Laura Zelencova, Raminta Rodaitė–Riševičienė, Gintautas Saulis

Statistical analysis of current signal recorded during electroporation of cell suspension

Djamel-Eddine Chafai, Yacine Imaouchene, Amar Tilmatine, Damijan Miklavčič

Electroporation as a tool for studying the role of plasma membrane in the mechanism of cytotoxicity

Mantas Šilkūnas, Rita Saulė, Danutė Batiuškaitė, and Gintautas Saulis

Tuesday, November 18th:

Chair: P. Thomas Vernier

The effects of a pulsed electric field on interactions between *Saccharomyces cerevisiae* cells

Povilas Šimonis, Arūnas Stirkė, Nerija Žurauskienė

New micro-devices, using electromagnetic sensor, dedicated for analysis of cells subjected to Electro-Chemo-Therapy ECT

Amar Tamra, David Dubuc, Katia Grenier, Marie-Pierre Rols

Microalgal cell's electroporation for lipid extraction: a real time study in a microfluidic device

Pierre Bodénès, F. Lopes, D. Pareau, O. François, B. Le Pioufle

Effect of Pulsed Electric Field applied in the millisecond and microsecond range on the permeabilization and carotenoid extraction from *Chlorella vulgaris*

Elisa Luengo, Andrea Bordetas, Juan Manuel Martínez, Flavien Pillet, Ignacio Álvarez, Justin Teissié, Marie-Pierre Rols and Javier Raso

The dual-porosity approach to mass transport and filtration-consolidation behaviour modelling of electroporated biological tissue

Samo Mahnič-Kalamiza, Damijan Miklavčič, Eugène Vorobiev

Thursday, November 20st:

Chair: Véronique Pr at

Evaluation of cell viability after cell electrochemotherapy using different cell viability tests

Baltramiejus Jakštys, Paulius Ruzgys, Mindaugas Tamošiūnas, Saulius Šatkauskas

Mathematical modelling of cell membrane permeabilization and cell survival

Janja Dermol, Damijan Miklavčič

Dynamic effects of point source electroporation on the rat brain tissue

Shirley Sharabi, David Last, David Guez, Dianne Daniels, Mohammad I Hjouj, Sharona Salomon, Elad Maor, Yael Mardor

On The Characteristics Of Pores Created By High Voltages, Recent MD Investigations

Maura Casciola, Sara Zullino, Marina Kasimova, Mounir Tarek

Friday, November 21st:

Chair: Gregor Serša

Nanochannel electroporation for delivery of biomolecules

Dayinta L. Perrier, Piotr Glazer, Michiel T. Kreutzer, Pouyan E. Boukany

2D/3D models to study the effects of pulsed electric field on extracellular matrix and intercellular junctions

Moinecha Madi, Laure Gibot, Elisabeth Bellard and Marie-Pierre Rols

Target cancer therapy by NOTCH and WNT inhibitors - cancer current approach and future prospective

Sanja Jovevska, Darko Bosnakovski

Differential transfection of skin or subcutaneous tissues by specific gene electrotransfer protocol

Špela Kos, Tanja Blagus, Maja Čemažar, Gregor Serša

Evaluation of gene electrotransfer efficiency in canine malignant melanoma cells

Urša Lampreht, Gregor Serša, Maja Čemažar