

EBTT2023 Short presentations - timetable

MONDAY, 13TH NOVEMBER

Chair: Mounir Tarek

1. A review of electroporation studies on black lipid membrane models

Burak Altun, Antoni Ivorra

2. Beyond Transient Pores: Unveiling the Sustained Permeability in Electroporated Cell Membranes through Secondary Oxidation Insights

Daniel Stanislaw Wiczew, Natalia Szulc, Mounir Tarek

3. Generators of PEF to biological samples for biomedical applications

Lionel Michard, Claire Dalmay, Philippe Leveque, Delia Arnaud-Cormos

4. Delivery systems of PEF to biological samples for biomedical applications

Hafsa Tjiou, Claire Dalmay, Philippe Leveque, Delia Arnaud-Cormos

5. PDMS-free microphysiological system to study the effects of pulsed electric fields

Neringa Bakute, Eivydas Andriukonis, Kamile Kasperaviciute, Martynas Sapurov, Jorunas Dobilas, Vilius Vertelis, Skirmantas Kersulis, Gatis Mozolevskis, Arunas Stirke

6. Microwave Sensors for Probing Effects of Pulsed Electric Field

Petr Kurka, Daniel Havelka, Michal Cifra

TUESDAY, 14TH NOVEMBER

Chair: Lluís M. Mir

1. The effects of a microsecond pulsed electric field on tubulin

Michaela Poplová, Tomáš Zakar, Viliam Kolivoška, Michal Cifra

2. Study on the combined effect of Electroporation and Radiofrequency

Borja López-Alonso, Matej Reberšek, Héctor Sarnago, Óscar Lucía, Damijan Miklavčič

3. PEF application enables extraction of phytochemicals from *Scutellaria baicalensis* roots to a Deep Eutectic Solvents (DES) medium

Kajetan Grzelka, Sylwester Ślusarczyk, Adam Matkowski

4. Growth properties enhancement of oleaginous yeasts in bioreactors by nanosecond pulsed electric fields (nsPEF)

Marco S. Fluri, Katharina Übelhör, Lya Siegenthaler, Leandro Buchmann, Lukas Neutsch

5. In vivo microscopy imaging of two model plants *Iris domestica* and *Scutellaria baicalensis* after Pulse Electric Field (PEF) treatment

Sylwester Ślusarczyk, Kajetan Grzelka, Grzegorz Chodaczek, Adam Matkowski

6. Investigation of osmotic shock effect on pulsed electric field treated *S. cerevisiae* yeast cells

Greta Gančytė, Povilas Šimonis, Arūnas Stirke

7. Pulsed electric fields assisted gentle cell disruption for microalgae biorefinery

Byron Perez, Iris Haberkorn, Carole Zermatten, Alexander Mathys

THURSDAY, 16TH NOVEMBER

Chair: Marie-Pierre Rols

1. Impact of pulse parameters on gene electrotransfer to Jurkat E6.1 cell line

Zala Vidic, Damijan Miklavčič

2. Optimizing High-Voltage Pulses for Gene Electrotransfer: Balancing Transfection Efficiency and Cell Viability

Ernestas Urbanskas, Justinas Venckus, Baltramiejus Jakštys

3. The Influence of Electric Pulse Duration on Protein Uptake and Cell Viability in Electroporation of CHO Cells

Justinas Venckus, Ernestas Urbanskas, Baltramiejus Jakštys

4. Role of the actin cortex in intracellular transport of electrotransferred DNA cargo

Sophie de Boer, Aswin Muralidharan, Hans Uitenbroek, Bijoy Bera, Gijsje H. Koenderink, Pouyan E. Boukany

5. Role of the Actin Cytoskeleton in Cell Membrane Electroporation and Cargo Translocation

Nikki Nafar, Pouyan E. Boukany, Gijsje H. Koenderink

6. The effect of electroporation with different electrodes on cell viability in the incubation medium

Tina Turk, Alenka Maček Lebar

FRIDAY, 17TH NOVEMBER

Chair: Gregor Serša

1. Study of irreversible electroporation-induced cell death in spheroids derived of murine hepatocarcinoma

Nicolas Mattei, Jelena Kolosnjaj-Tabi, Marie-Pierre Rols, Muriel Golzio

2. Electrochemotherapy for treatment of osteosarcoma tumors

Saša Kupčič, Urša Lampreht Tratar, Meta Novak, Barbara Breznik, Gregor Serša, Maja Čemažar

3. Bleomycin based electrochemotherapy with standard electrodes for advanced stage, recurring vulvar/cervix carcinomas - initial results

Marton Arpad Vas, Gyorgy Lazar, Judit Olah, Gabor Vass, Mario Vincze, Aurel Ottlakan, Erika Gabriella Kis

4. Electrochemotherapy as a new treatment for skin cancer

Antonella Cilio, Campastri A, Michinski S, Lertora R, Acosta AC, Maglietti F

5. Use of electroporation for the treatment of bladder cancer – a scoping review

Marc Casper Meineche Andersen, Julie Gehl, Juan Luis Vásquez

6. RCT Investigating the Effect of Reduced Bleomycin in Electrochemotherapy Treatment on Patients with Cutaneous Malignancies (The BLESS Trial)

Anne Karen Bennedsen, Camilla Kjær Lønkvist, Julie Gehl

7. Combined fluorescence and hyperspectral enhanced dark field microscopy – tool for analysis of intracellular distribution of silica nanoparticles

Luminita Claudia Miclea, Mona Mihailescu, Nicolae Tarba, Ana Maria Sandu, Mihaela G. Moiescu, Tudor Savopol