

# EBTT Student's presentation programme

**Monday, November 18<sup>th</sup>:**

**Chair: Justin Teissié**

Comparison of sinusoidal versus square wave pulses for electroporation

*Suyashree Bhonsle, Christopher Arena, Rafael Davalos*

Electroporation numerical models – research and application

*Aleksander Grm, Janez Langus, Tomaz Sustar, Primoz Sustaric*

Atomic Force Microscopy: a tool to study bacterial cell-wall disruption induced by Pulsed Electric Field

*Flavien Pillet, Cécile Formosa, Audrey Montigny, Louise Chopinet, Justin Teissié, Étienne Dague, Marie-Pierre Rols*

Utilization of non thermal technologies to induce food allergens modifications

*Serena De Maria, Giovanna Ferrari, Paola Maresca*

Effect of MTS and PEF technologies on the inactivation of selected microorganisms and quality attributes in dairy-based beverages

*Oliver Cregezán Alberti, Rachel M. Halpin, Paul Whyte, James G. Lyng, Francesco Noci*

**Tuesday, November 19<sup>th</sup>:**

**Chair: Lluís M. Mir**

In Situ Detection of Changes in Lipids Environment using Raman Effect

*Antoine Azan, Michael Schermann, Marie Breton, Brigitte Attal-Trettout, Isabelle Leray, Lluís M. Mir*

Investigation of refractive index of electroporated cells using digital holographic microscopy

*Violeta Liuba Calin, Mona Mihailescu, Eugenia Kovacs, Tudor Savopol, Mihaela G. Moiescu*

Electric field-induced yeast cells permeabilization using micro- and nanosecond duration pulses

*Arunas Stirke*

Electroporation of the green Microalgae *Auxenochlorella protothecoides*

*Martina Goettel, Christian Eing, Christian Gusbeth, Wolfgang Frey*

Microalge – raw material for the future

*Jernej Morelj, Maja Šoštarič, Karel Flisar, Aleks Kapun, Damijan Miklavčič*

**Wednesday, November 20<sup>th</sup>:**

**Chair: P. Thomas Vernier**

Design and modelling of capacitor-based nanosecond pulse generator and applicator

*Guangwei Jiang, Yasir Alfidhi, Xiaodong Chen*

Electrical manipulation of the spontaneous calcium oscillations in adipose-derived mesenchymal stem cells by nanosecond-pulsed electric fields

*Hanna Hanna, Marie-Amélie De Ménorval, Lluís M. Mir*

Human Bladder Cancer Cell Sensitivity to Treatment with Calcium Electroporation, Investigated In Vitro

*Emilie Hansen, Stine Krog Frandsen, Julie Gehl*

In vitro cytotoxic effect of the biomaterials to the primary human cell cultures

*Barbara Dovgan, Lenart Girandon, Miomir Knežević*

Dual-porosity model of solute extraction by diffusion from electroporated tissue

*Samo Mahnic-Kalamiza, Damijan Miklavcic, Eugène Vorobiev*

Image Registration and Segmentation of T2-weighted MR Images for Intracranial Irreversible Electroporation Therapy

*Tadeja Forjanič, Paulo A. Garcia, John H. Rossmeisl, Jr, Theresa Pancotto, Rafael V. Davalos, Damijan Miklavčič*

**Thursday, November 21<sup>st</sup>:**

**Chair: Gregor Serša**

Migration of skin dendritic cells after IL-12 electro-geno-therapy

*Lise Pasquet, Sophie Chabot, Elisabeth Bellard, Marie-Pierre Rols, Justin Teissié, Muriel Golzio*

In vitro and in vivo effects of anti-endoglin therapy in mouse melanoma

*Monika Stimac, Tanja Dolinsek, Maja Cemazar, Gregor Sersa*

Characterization of patients with feline injection-site sarcoma as body condition score and as to the origin of its formation and their microenvironment

*Carolina Scarpa Carneiro, Ana Carolina B.C. Fonseca Pinto, Maria Luisa Franchini, Maria Lucia Zaidan Dagli, Julia Maria Matera*

Study of cell markers as a prognostic factor in dogs with intranasal neoplasia treated with chemotherapy and rhinotomy

*Fernanda A. Bueno Auler, Angelo João Stopiglia, Julia Maria Matera, Ana Carolina B.C.F.Pinto*

PNAs as therapeutic approach against mouse ErbB2 positive breast carcinomas

*Silvio Bandini, Marco Macagno, Maddalena Arigoni, Laura Conti, Giuseppina Barutello, Raffaele Calogero, Federica Cavallo*

Relationship between *Cronobacter sakazakii* inner and outer membrane electropermeabilization and its resistance to PEF at different pH and  $a_w$

*Cristina Arroyo, Guillermo Cebrián, Santiago Condón, Rafael Pagán*