



## Newsletter No. 61

4<sup>th</sup> world congress postponed to next year:  
October 9<sup>th</sup> to 13<sup>th</sup>, 2022

**Newsletter by:** Julie Gehl, Zealand University Hospital, Denmark  
[kgeh@regionsjaelland.dk](mailto:kgeh@regionsjaelland.dk)

A great event is in the making – we look so much forward to seeing you in Copenhagen next year! It has been deemed necessary to **postpone** the 4<sup>th</sup> World Congress on Electroporation and Pulsed Electric Fields from 2021 to 2022 in order to await better control of the pandemic globally.

The venue continues to be **the Tivoli Congress Center** centrally located in Copenhagen and the **new dates** are October 9<sup>th</sup> to 13<sup>th</sup>, 2022.

The program remains in place, featuring an educational session on October 9th, 2022, allowing new researchers in the field to become acquainted with the different aspects of pulsed fields and electroporation technology. Speakers include: James Lyng (Ireland), Alan Sugrue (USA), Gregor Serša (Slovenia), Christian Gusbeth (Germany), Antoni Ivorra (Spain), and Jim Clover (Ireland).

During the plenary session, we will be updated on electroporation-based vaccines against coronavirus infection, DNA electrotransfer, pulsed fields in food technology, electroporation in cardiac ablation, electroporation-based technologies in oncology using electrochemotherapy, irreversible electroporation and gene electrotransfer, delivered by leaders in the field. Speakers include Matti Sällberg (Sweden), Kate Broderick (USA), Marie-Pierre Rols (France), Javier Raso (Spain), Jacob Koruth (USA), Maja Čemažar (Slovenia), Luca Campana (UK), Rafael Davalos (USA), and Adil Daud (USA).

Special session topics address the diverse use of the technology and crosses from basic research to application. Sessions include:

### Research on mechanisms:

- “Electroporation and Cellular Pathways”
- “Biological Processes Induced by Electrotransfer of Molecular Cargo”
- “Cytoskeletal Changes and their Implications in the Different Types of PEF-based Technologies and Treatments”
- “Mechanisms of Cell Death in Electroporation-based Therapies”
- “Nanosecond Pulse Stimulation and Electropermeabilization”

### Technology:

- “Medical Device Development including Contactless Methods for Cell Permeabilization”
- “Electric Fields and Microfluidics”

### Environmental technology:

- “Microalgae Biorefinery”
- “Pulsed Electric Fields (PEF) for Recovery of Components from Microorganisms”

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### Newsletter Editor

Damijan Miklavčič  
University of Ljubljana, Slovenia  
[damijan.miklavcic@fe.uni-lj.si](mailto:damijan.miklavcic@fe.uni-lj.si)

### Newsletter Technical Editor and Website Administrator

Samo Mahnič-Kalamiza  
University of Ljubljana, Slovenia  
[samo.mahnic-kalamiza@fe.uni-lj.si](mailto:samo.mahnic-kalamiza@fe.uni-lj.si)

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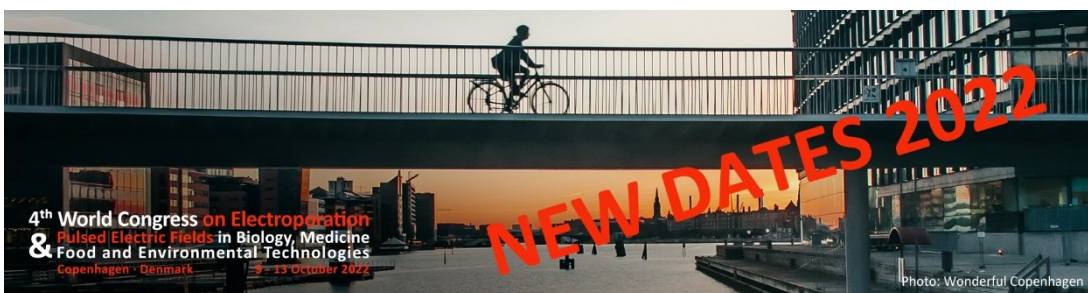
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**Food technology:**

- “Moderate Electric Fields (MEF) for Process Intensification and Smart Processing”
- “PEF Strategies in Enhancing Health-promoting Properties of Plant-based Foods”
- “Electric Fields in Fermentation and Wine Production”
- “Electric Fields for Ohmic Heating in Food Processing”
- “Mechanisms and Applications of PEF in the Food Industry”

**Vaccines:**

- “Electroporation-based Vaccines”

**Cardiac ablation:**

- “Electroporation for Cardiac Ablation: Mechanisms and Scientific Advances”
- “Electroporation for Cardiac Ablation: Clinical Use and Development”

**Veterinary oncology:**

- “Electroporation-based Treatments in Veterinary Medicine”
- “Gene Electrotransfer in Veterinary Medicine”

**Oncology:**

- “Electrochemotherapy for Cutaneous Metastases”
- “Electroporation-based Therapies - Head and Neck Cancer”
- “Electrochemotherapy – Internal Tumors”
- “Using Nanosecond Pulsed Electric Fields (nsPEF) to Treat Cancer”
- “Calcium Electroporation”
- “Irreversible Electroporation (IRE)”
- “Irreversible Electroporation (IRE) and Immunotherapy”
- “Gene Electrotransfer for Immunotherapy and Antibody Production”
- “Immunogenic Effects of Electroporation-based Treatments”
- “Cancer Immunotherapy and PEF”

Furthermore, a memorial special session is devoted to remembrance of Justin Teissié, a pioneer and mentor in our field.

Of special interest to the many students and early-stage researchers in our society are the ‘career lunch’, the **35 travel grants**, as well as **awards** for poster and oral presentations.

Furthermore, special issues have been arranged, that allow submission of full text papers after presentation at the congress.

On a more social note, we also look forward to the welcome reception which will be held onboard harbor cruise boats, as well as the conference dinner to be held in Tivoli Gardens. Lunches, coffee etc. will be included and served in the conference area.

Registration is open! Please check the website ([wc2022.electroporation.net](http://wc2022.electroporation.net)) for any details about the congress.

As a placeholder, awaiting the congress in 2022, **two webinars will be arranged on September 21<sup>st</sup> and 22<sup>nd</sup> this year**, respectively. These webinars will allow select keynote speakers as well as short presentations, and will be announced very soon at the website. Of course, the **ISEBTT general assembly** is very important and will be arranged for September 22<sup>nd</sup> 2021, in a virtual format.

## Forthcoming events

### 15<sup>th</sup> interdisciplinary postgraduate course and international workshop Electroporation Based Technologies and Treatments (EBTT)

Ljubljana, November 14 – 20, 2021

<http://www.ebtt.org>

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*Copenhagen is expecting us  
all in 2022!*

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