



Newsletter No. 88

1st ISEBTT webinar, May 23rd, 2023

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Did you attend the ISEBTT webinar on 23rd May 2023? Yes? – we hope you found it interesting and useful and expect you to attend the next ones. No? – you will have a new opportunity soon, there are webinars planned for the next months... The May webinar was the first in a series of online events that ISEBTT plans to organize at regular intervals. These events will cover topics of interest to scientists and technology users who want to gain basic and advanced knowledge of electroporation and its applications.

The webinar on 23rd May gathered 125 participants from all over Europe, South and North America, with the influx varying during the event and a maximum of 88 participants connected at the same time. This first edition of the webinar proved to the organizers that there is an active community eager to be informed about the latest news in the field and for whom, and not only for them, a reliable exchange of ideas and experiences is important.

The areas of interest indicated by participants at registration were: 32 % Medical applications, 27 % Basic biology of electroporation, 16 % Technology, 11 % Food industry applications, 7 % Pulsed-power devices, facilities, and apparatus for Plasma, and 7 % Environmental applications. Without committing to percentages, these are the main categories of topics that the organizers intend to cover in future webinars, along with complementary topics that can accelerate the understanding and use of electroporation. The topics covered in the 1st edition of the ISEBTT webinar covered a wide range of topics, from basic research to applications. The invited speakers were experienced experimenters with valuable achievements, but also hardworking young scientists with bright ideas.

Speakers of
the 23rd
May 2023
webinar



Michal
Cifra



Sakina
Bensalem



Nadia
Boussetta



Felipe
Maglietti



Barbara
Perič



Damijan
Miklavčič

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9th School on Pulsed Electric Field
Applications in Food and Biotechnology
Vienna, Austria 4 – 8 September, 2023



International Society
for Electroporation-Based
Technologies and Treatments ISEBTT



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The webinar started at 2pm (Central European Time) so that as many participants as possible (working in different time zones) could connect. The programme was tight: six talks were divided into two groups, and a 10-minute break in between allowed the organizers to buffer the talks and the participants to stretch their legs.

Michal Cifra (Institute of Photonics and Electronics, Prague) covered basic science with a talk on “Label-free real-time detection of PEF-generated oxidation using (bio)chemiluminescence”, then Sakina Bensalem (ENS Paris-Saclay) gave a talk on the use of “Electric fields and microfluidics for an efficient bio-energy recovery from microalgae cells”. The food industry was represented by Nadia Boussetta (Compiègne University of Technology) and her presentation on “Correlations between disintegration degree of fruit skin cells induced by PEF and ultrasounds and the efficiency of bio-compounds extraction”, followed by three presentations from the medical field: Felipe Maglietti (CONICET Argentina) gave a presentation on “Veterinary guidelines for electrochemotherapy of superficial tumors”, Damijan Miklavčič (University of Ljubljana) spoke on “Irreversible electroporation – the new era of cardiac ablation?” and Barbara Perič (Institute of Oncology, Ljubljana) gave a presentation on how “Electrochemotherapy can boost the effect of immune checkpoint inhibitors in cutaneous melanoma treatment”.

To raise general awareness of electroporation and its applications, the webinar was free to both ISEBTT members and non-members, and there are plans to continue offering these online events free of charge (although registration is required to receive a special link).

It is worth noting that the webinar presentations are recorded and available in the private area of the ISEBTT website (<https://isebtt.electroporation.net/p/webinar-series>). If for some reason you missed a lecture or are too early or too late in the next events to attend live, an active ISEBTT membership will allow you to (re)watch all these lectures at your leisure.

ISEBTT webinars are at the stage of being introduced. Our main goal is to constantly improve the quality of these online events and we rely on your feedback. Suggestions for topics, speakers or discussion items are welcome.

At the end of the webinar, among others the organizers also received this message from Argentina: “Keep up the good work and organize more Zooms. It is very rewarding for us since we are so far away.” We were very encouraged by that. The advancement of connectivity technologies gives us so many opportunities. Let’s take advantage of it and use it to expand and strengthen the electroporation community.

The next webinar is scheduled for 24th October 2023. Save the date! We are waiting for you!

Forthcoming events

International symposium “The legacy and the spirit of Lojze Vodovnik”

on-site and on-line, September 6, 2023

<https://tinyurl.com/vodovnik-symposium>

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Pages

ISEBTT Webinars - Members' only access page

This page provides access to ISEBTT-organised, supported or endorsed webinars that are restricted to members' only access.

Webinar May 23, 2023 — watch on YouTube

1. Michal Cifra: Label-free real-time detection of PEF-generated oxidation using (bio)chemiluminescence [watch on YouTube]
2. Sakina Bensalem: Electric fields and microfluidics for an efficient bio-energy recovery from microalgae cells [watch on YouTube]
3. Nadia Boussetta: Correlations between disintegration degree of fruit skin cells induced by PEF and ultrasounds and the efficiency of bio-compounds extraction [watch on YouTube]
4. Felipe Maglietti: Veterinary guidelines for electrochemotherapy of superficial tumors [watch on YouTube]
5. Barbara Perič: Electrochemotherapy can boost the effect of immune checkpoint inhibitors in cutaneous melanoma treatment [watch on YouTube]
6. Damijan Miklavčič: Irreversible electroporation – the new era of cardiac ablation? [watch on YouTube]

Recordings are available to
members on
isebtt.electroporation.net.

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