



## Newsletter No. 115

### International Scientific Workshop and Postgraduate Course EBTT 2025

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The **International Scientific Workshop and Postgraduate Course Electroporation-Based Technologies and Treatments (EBTT)** is a part of the University of Ljubljana's PhD programme in Biomedicine. The course has been organized since 2003 biennially until 2011 and has been held annually since then. It is designed for both newcomers and experienced researchers in electroporation, including doctoral students, scientists, and end users.

In 2025, we organised the **19<sup>th</sup> edition** of EBTT from **10–15 November** at the University of Ljubljana, Faculty of Electrical Engineering, Slovenia. The event was conducted in a hybrid format. Due to high interest, on-site registration had to close in mid-October. This year's school brought together **64 attendees—38 participants** (29 on-site and 9 online) and **22 lecturers** (21 on-site, 1 online)—coming from **22 countries**.

A major highlight was the **roundtable discussion** titled "Non-thermal ablation and drug delivery by electroporation: expanding current indications." Ten panellists contributed to the discussion, which drew over **100 participants worldwide**. Most attendees were affiliated with academic or research institutions (47%), followed by industry (39%), governmental organisations (11%), and healthcare providers (2%). The edited recording is available online (<https://2025.ebtt.org/round-table-recording/>) and has already garnered substantial interest.

The weeklong programme covered a wide range of topics, including electrical properties of cells and tissues, membrane electroporation mechanisms, in vitro and in vivo electroporation, device and electrode development, tumour electrochemotherapy, and gene transfection applications. In addition to core lectures, invited experts offered their valuable perspectives.

Helmut Pürerfellner (Austria) and Matevž Jan (Slovenia) presented their experience with pulsed field ablation treatment for cardiac arrhythmias; Indrawati Oey (New Zealand) shared her knowledge with PEF in food processing; Tobian Muir (United Kingdom) gave a lecture on using bleomycin for electro sclerotherapy in the treatment of vascular malformations; Martijn Meijerink (The Netherlands) discussed the role of IRE in interventional radiology in oncology; Frederic Deschamps (France) gave a talk on electrochemotherapy as salvage therapy for vertebral metastases; and Quim Castellvi from CardioFocus (USA) showed electrophysiological effects of electroporation on myocardium.

The course featured both a theoretical and a practical component. In the mornings, participants gained theoretical knowledge through lectures, while the afternoons were dedicated to hands-on laboratory sessions. Participants were invited to the laboratories for practical experience, with 21 different lab exercises offered.

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A total of 18 exercises were conducted on-site, including in wet labs, clinics, computer rooms (for simulations), and hardware labs. Additionally, four online lab exercises were available for online participants.

During Friday's coffee break and lunch, several commercial and in-house electroporators from the Laboratory of Biocybernetics, Faculty of Electrical Engineering, were showcased and available for demonstration. Participants had the opportunity to explore and try out the devices.

The 19th edition of the EBTT School was a resounding success, with a diverse and engaged audience, as well as a comprehensive programme covering both theoretical and practical aspects of electroporation technology which would not have been possible without the support of our sponsors (<https://2025.ebtt.org/sponsors/>). Since its inception, the EBTT course has welcomed 1288 participants from 46 different countries from around the world. Our commitment to deliver high-quality experiences remains our highest priority, and we continue to strive for further improvements to meet the needs of all participants, whether attending on-site or online.

We warmly invite you to join the **20<sup>th</sup> edition of EBTT**, taking place **9 – 14 November 2026**. Further information will be available on our website in the coming months. Registration opens in spring—reserve your place early!

*The poster session during the coffee break was as lively as always.*



## Forthcoming events

### **6<sup>th</sup> World Congress on Electroporation and Pulsed Electric Fields in Biology, Medicine, & Food and Environmental Technologies**

Daytona Beach, September 27 – October 1, 2026

<https://wc2026.electroporation.net/>

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

Ljubljana, November 9 – 14, 2026 (*on-site and on-line event*)

<https://2026.ebtt.org/>

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*The Round Table on-site.*

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