



Newsletter No. 112

PFA101: From Bench to Bedside, March 28, 2025, Austria

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ISEBTT endorsed first educational event PFA101: From Bench to Bedside together with European Heart Rhythm Association (EHRA) and Canadian Heart Rhythm Society which was curated by Atul Verma (McGill University, Montreal, Canada) and Damijan Miklavčič (University of Ljubljana, Slovenia) and codirected by Julian Chun (CCB Frankfurt, Germany) and Helmut Pürerfellner (the president of EHRA, Linz, Austria). The event was organized by MediaSphere as pre-EHRA Symposium on March 28, 2025, in Austria. An enduring webcast is available free of charge at <https://www.innovationsincrm.com/ehra2025>.

This educational activity was developed under the tenet, that applying Pulsed Field Ablation clinically requires extensive in-depth knowledge of the technology's fundamentals to achieve its promise of generating viable, durable, improved patient outcomes. PFA101 was organized in three sessions with each of the session followed by discussion.

Session A:

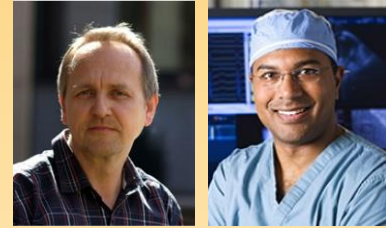
- Covering the Basics of PFA – Electroporation of Cell Membrane by Prof. Lea Rems, PhD (SI)
- Tissue Response to PFA – Pulse Delivery by Prof. Antoni Ivorra, PhD (ES)
- Choosing the Right Waveform and Catheter by Prof. Damijan Miklavčič, PhD (SI)

Session B:

- Non-Thermal and Selective Ablation – The Limits by Prof. Kars Neven, MD, PhD (DE)
- Learning from the Others – Other Biomedical Applications by Prof. Rafael Davalos, PhD (US)
- Predicting the Lesion Size – The Use of Numerical Modeling by Prof. Bor Kos, PhD (SI)

Session C:

- Understanding/Managing PFA Problems by Prof. Atul Verma, MD (CA)
- Defining Endpoints in PFA by Prof. Devi Nair, MD (US)
- Future Directions for PFA by Prof. Jacob Koruth, MD (US)



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The event was supported by industry partners: Abbott, Boston Scientific, J&J MedTech, Medtronic, CardioFocus and BIOTRONIK, Kardium and Pulse Biosciences, Inc.

The attendance was good and an interest in repeating the event was clearly expressed. We are therefore happy to announce complimentary, CME-accredited pre-conference for VT Symposium registered attendees provides a thorough overview of various aspects of PFA through multiple sessions. Participants will have many opportunities to interact directly with faculty, gain valuable insights, and strengthen their core knowledge. The Symposium is scheduled for Thursday, October 9th, from 6:00 to 9:00 PM EST at the Loews Philadelphia Hotel.

Following brief opening remarks, the evening will start with **Session A** on basic PFA mechanisms with expert insights on electroporation, vascular tissue response, and identification of ablation targets. **Session B** will cover modeling, cMRI signatures, and preclinical depth studies, while **Session C** will explore applications in cancer, pulse design, lesion evaluation, and mitigation of adverse effects. Each section will be concluding with a panel Q&A.

For the event website, visit <https://www.vtsymposium.com/program/pfa-101>.



PFA101 in Hilton Vienna Danube - the venue

Forthcoming events

17th International Bioelectrics Symposium (Bioelectrics 2025)

Eindhoven, September 14 – 17, 2025

<http://www.bioelectrics2025.nl/>

19th interdisciplinary postgraduate course and international workshop Electroporation Based Technologies and Treatments (EBTT)

Ljubljana, November 10 – 15, 2025 (*on-site* and *on-line* event)

<https://2025.ebtt.org/>

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Group photo of the faculty of
the first PFA 101: From Bench
to Bedside.

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