



Newsletter No. 97

Pulsed Field Ablation

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After attending this year EHRA in Berlin, Germany (April 6-9, 2024) and recently HRS in Boston (MA), USA (May 17-19, 2024) I need to share with you the enormous excitement around Pulsed Field Ablation and traction that it receives. All major companies are driving the development of electroporation pulse generators and corresponding catheters, and preclinical and clinical trials are being published (no of publications according to WoS: 103 papers in 2023; 40 already in 2024 – searched for “pulsed field ablation” AND “cardiac”). Several highly impactful clinical studies were published in the most prestigious clinical journals: Circulation IF= 37,8; New England Journal of Medicine (IF=176) and most recently in Nature Medicine (IF=82,9). With some of the Pulsed Field Ablation systems approved in EU and recently also by FDA in US Pulsed Field ablation is already making an impact in cardiac electrophysiology.

At the world largest meeting on cardiac electrophysiology more than 9000 participants met in Boston. PFA was overshadowing (even AI) and was the prime star from the beginning to the end with an overwhelming number of session, lectures and posters. Already at the beginning Vivek Reddy (our plenary speaker at the 5th WC in Rome) and Srinivas Dukkipati (both from Mount Sinai Hospital, New York (NY), USA organized a pre-meeting PFA Live Case Summit which was attended by more than 700 people on-site and simultaneously over 1100 were attending online; similarly, a premeeting in Berlin at EHRA PFA Summit organized by KR Julian Chun from Frankfurt, Germany, was attended by more than 500 participants.

We plan to bring some of the excitement to our World Congress on Electroporation with a number of sessions and presentations on Cardiac ablation by PFA but also by organizing Industry panel on PFA. The intent of this plenary event is to bring together industry, regulators and researchers to identify gaps in knowledge and help active researchers in the field of electroporation to identify potential topics for grant applications and research proposals. For details please see: (<https://wc2024.electroporation.net/industry-panel-pfa/>). I am proud to say that we have already by now secured participation of representatives from all major companies that are active in cardiac ablation by electroporation, i.e. Pulsed Field Ablation.

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Although it is worthwhile being in Rome, congress organizers are already looking into the possibility to have this Industry panel streamed online.

References and links

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Enormous interest/crowded room at the session: “Pulsed Field Ablation - The Basics to the Bedside”, which we dedicated to David E. Haines, MD (1954-2024) who was known to provide the link between the physics and medicine.

In memoriam: [https://www.heartrhythmjournal.com/article/S1547-5271\(24\)00260-1/abstract](https://www.heartrhythmjournal.com/article/S1547-5271(24)00260-1/abstract).



Forthcoming events

9th European Medical and Biological Engineering Conference

Portorož, June 9 – 13, 2024

<https://www.embec2024.org/>

18th interdisciplinary postgraduate course and international workshop Electroporation Based Technologies and Treatments (EBTT)

Ljubljana, November 11 – 16, 2024 (on-site and on-line event)

<https://2024.ebtt.org/>

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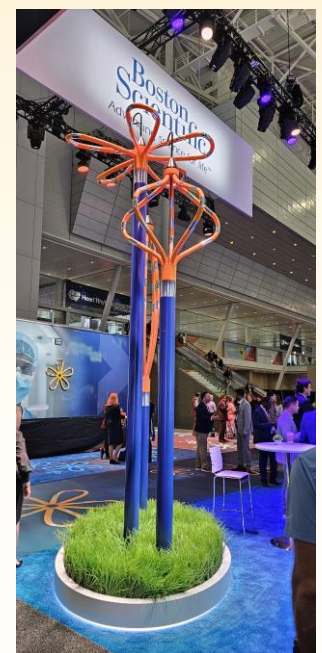
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The Faradize at HRS in Boston (picture by DM).