

JUSTIN TEISSIÉ AWARD · 6TH WORLD CONGRESS ON ELECTROPORATION

The Justin Teissié Award goes to Vitalij Novickij

— Vitalij Novickij | VilniusTECH and Centre for Innovative Medicine, Vilnius, Lithuania

In appreciation of Justin Teissié's scientific legacy as one of the pioneers in the fundamental study of electroporation and electropermeabilization processes, the International Society for Electroporation-Based Treatments and Technologies (ISEBTT) grants the Justin Teissié Award every two years to a young scientist who has made an important contribution to the field.

I am deeply honoured that the evaluation committee has chosen me as the recipient of the Justin Teissié Award at the 6th World Congress on Electroporation. This award is an incredible privilege and a meaningful recognition of my scientific work, reflecting more than 10 years of dedication to researching electroporation-related phenomena.

Over the past decade, my research group has continuously studied and developed parametric protocols based on a novel pulse-forming technique known as MHz pulse compression, which enables the efficient electrotransfer of drugs or genes using ultrashort pulses. This technique utilises the phenomenon of residual transmembrane potential accumulation throughout a burst of ultra-high-frequency pulses, preventing the cell from depolarising and returning to resting potential before the subsequent nanosecond pulse occurs.

This methodology lowers plasma membrane permeabilisation thresholds, allowing the effective utilisation of lower fields (sub-10 kV/cm) and sub-microsecond pulses for drug or gene delivery, which we have validated through a systematic series of in silico, in vitro, and in vivo studies.



THE AWARD

Awarded	every two years
Presented at	WCE 2026
Granted by	ISEBTT

Who it recognises

A young scientist who has made an important contribution to the field of electroporation.

Contactless electroporation and acknowledgements on page 2 →

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CONTACTLESS ELECTROPORATION AND ACKNOWLEDGEMENTS

I would also like to highlight that collaboration with both national and international partners, along with their steadfast support, has been a critical factor allowing my group to contribute to electroporation research and pursue further excellence in the field.

I am also proud that my team is among the pioneers in developing contactless electroporation based on high-pulsed electromagnetic fields (HI-PEMF), utilising high dB/dt repetitive pulses for drug delivery. Unlike conventional electroporation, HI-PEMF does not require direct contact with tissue, thereby minimising invasiveness, electrochemical effects, muscle contractions, and thermal side effects, while demonstrating promising in vivo results.

I believe that these two major research tracks, backed by years of systematic study resulting in over 120 papers, numerous mentored PhD students and postdocs, various grants, and, most importantly, deep connections within the electroporation community, led to the committee's decision. I am sincerely grateful to the Award Committee.

This prize holds exceptional value and meaning for me. I was fortunate enough to meet Justin Teissié in person at multiple events and conferences, listening to his presentations, participating in discussions, and even getting scolded back in the days for inaccuracies in my methodology. It is a privilege and honour that my own PhD students will unfortunately not be able to experience.

“I hope his legacy and pioneering research will serve as a launchpad for young scientists to reach even greater scientific heights.”

Vitalij Novickij



FORTHCOMING EVENTS

EBTT 2026 Workshop

9 to 14 November 2026 · Ljubljana

2026.ebtt.org

Round table: Cardiac PFA

12 November 2026 · Ljubljana and online

2026.ebtt.org/round-table

CONTACT

Editor **Damijan Miklavčič**, damijan.miklavcic@fe.uni-lj.si

Technical editor **Samo Mahnič**, samo.mahnic@fe.uni-lj.si

electroporation.net · isebtt.electroporation.net · linkedin.com/company/isebtt