

HANDBOOK OF ELECTROPORATION · SECOND EDITION

A second edition of the Handbook, and an invitation to contribute

— **Damijan Miklavčič** | University of Ljubljana, Slovenia

After the first edition of the Handbook on Electroporation published in 2017 we are aiming for a second edition to be completed and published in 2027. I am happy to inform you of the current status and to invite you to join this project. We have the opportunity to update the content of the previously published chapters and thereby keep it state-of-the-art. Furthermore, many new chapters are planned for this new edition.

This major reference work has become a one-shot knowledge base on electroporation and the use of pulsed electric fields of high intensity and their use in biology, medicine, biotechnology, and food and environmental technologies. The Handbook offers a widespread and well-structured compilation of chapters ranging from the foundations to new applications edited and written by most prominent researchers in the field.

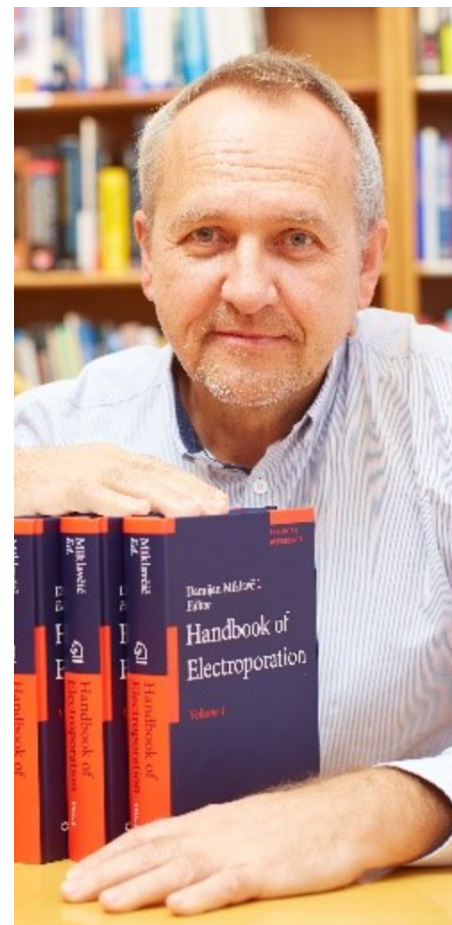
Published by Springer in both electronic and printed form, with regular updates and growing in its volume, the Handbook is suitable for academic readers and researchers regardless of their disciplinary expertise and is also accessible to students. Members of the ISEBTT have free access to the content as part of their membership benefits.

An Editorial Board of distinguished scholars from across the world has selected topics and authors and reviewed the chapters to ensure the highest quality of the Handbook. In addition to the original Section Editors of the first edition, many more have joined for the second (see next page).

If you would like to contribute a chapter or have a good idea for a title, please approach me or one of the section editors at the 6th World Congress on Electroporation or send us an e-mail. I look forward to finishing this second edition together with you.

Table of content and current status of live online version of the Handbook of electroporation:
link.springer.com/referencework/10.1007/978-3-319-26779-1

Editorial board, the fifteen sections and chapter status on page 2 →



SECOND EDITION TARGET

Chapters target number	220
Completion	2026/2027
Publication	2027

Free for members

ISEBTT membership includes access to the Handbook content.

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EDITORIAL BOARD

The list of the section editors, coming from different geographical locations and of different backgrounds, guarantees high quality, depth and breadth of the topics included in the second edition of the Handbook of Electroporation.

If you compare the list of sections below with the original you will recognise a new section on Cardiac Ablation, which was virtually non-existent at that time, whereas Biomedical Applications has evolved into Cancer Therapies, Nucleic Acid-Based Therapies and Veterinary Medicine. Many new applications are being tested and developed, for which we added New and Emerging Clinical Application.

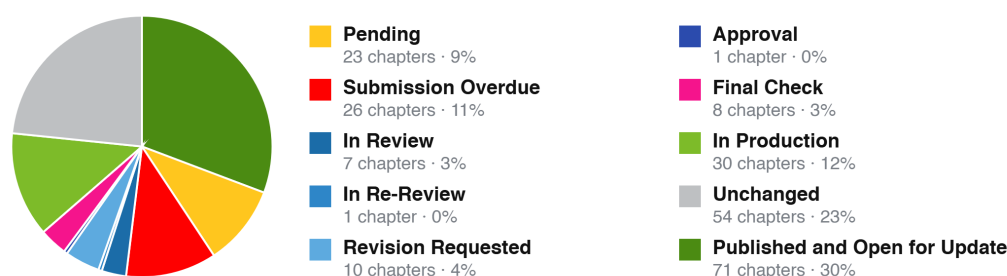
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SECTION	TITLE	SECTION	TITLE
I	Fundamental Mechanisms of Electroporation	IX	Electroporation in Biotechnology
II	Basic Description of Cell Electroporation in Vitro	X	Electroporation in Food Science and Technology
III	Electroporation Phenomena on Tissue Level and Systemic Effect	XI	Electroporation in Bioeconomy and Biorefinery Applications
IV	Hardware Used in Electroporation Experiments and Applications	XII	Cardiac Ablation, Preclinical and Clinical
V	Modeling of Electroporation and Related Phenomena	XIII	Preclinical and Clinical Nucleic Acid-Based Therapies using Electroporation
VI	Laboratory Techniques Used in Electroporation	XIV	New and Emerging Clinical Application
VII	Preclinical Development for Biomedical Applications of Electroporation	XV	Veterinary Medicine
VIII	Electroporation in Cancer Therapies		



Status of the chapters in the second edition.

FORTHCOMING EVENTS

6th World Congress on Electroporation
27 September to 1 October 2026 · Daytona Beach, Florida
wc2026.electroporation.net

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

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