



Newsletter No. 40

3rd World Congress on Electroporation and Pulsed Electric Fields and Special Issues

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The total number of accepted abstracts is 360 submitted by authors coming from 37 countries. Overall, from these 360 submissions, 230 will be presented as oral, and 128 as posters. You can view the live Electronic Programme on the web:

<https://wc2019.electroporation.net/event/program>. The programme is arranged so that the first session of each morning is devoted to plenary lectures. After the morning coffee break, we have organized several parallel sessions in four tracks. The first set of parallel sessions will be in the morning between the coffee break and the lunch break, while in the afternoon there will be two sessions (each with 4 tracks) just before the posters session with a short break in between. We would like to thank all of the session chairs and special session organizers who have been working with us to finalize the program.

Currently, there are 377 registrants. There is still time to register! We expect that there will be just short of 400 of us at the Congress! And this we can consider once again as a great success. In addition to participants–presenters, we will also have thirteen exhibitor booths, meaning we will have a vivid exhibition in addition to the scientific programme: <https://wc2019.electroporation.net/exhibitors>.

As with the 1st and 2nd World Congresses, we also encourage participation from young researchers and will have a Young Investigator Competition.

There will be three categories: Biomedical Engineering (Sponsored by IFMBE – The International Federation for Medical and Biological Engineering); Food, Biotechnology, and Environment (Sponsored by DIL – The German Institute of Food Technologies); and Medicine and Biology (Sponsored by Fondation Toulouse Cancer Santé, Cancéropôle Grand Sud-Ouest, Vaccines, and Université Paul Sabatier).

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**3rd World Congress on Electroporation
& Pulsed Electric Fields in Biology, Medicine
& Food and Environmental Technologies**
Toulouse, France September 3–6, 2019





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Agreements have been reached with the following Journals to publish special issues on topics covered by the Congress: Bioelectrochemistry, Cancers, Vaccines, Frontiers in Bioengineering and Biotechnology, and Innovative Food Science and Emerging Technologies. Some information is already available on the website of the congress (see the website wc2019.electroporation.net/special-issues, or click the linked journal titles below if reading online).

Bioelectrochemistry: Bioelectrochemistry is calling for papers for a Special Issue entitled "New approaches in enhancing cell membrane permeabilization". The issue will comprise papers on mechanisms and basic phenomena of electroporation as well as advances in cell membrane permeabilization through *in vitro* and *in vivo* experimentation combined with theoretical and numerical analysis. Guest editors are Matej Kranjc and Marie-Pierre Rols.

Cancers: The Special Issue will cover the latest research pertaining to electroporation and electric field-based technologies and their therapeutic applications, principally but not exclusively applied to cancer treatments. Guest editors are Jelena Kološnjaj-Tabi, Muriel Golzio, and Marie-Pierre Rols.

Frontiers in Bioengineering and Biotechnology: The Special Issue will focus particularly on extraction of value compounds by electro technologies, product modification and properties, microalgae biorefinery, PEF microbial bioprocessing, PEF in biotechnology, the effect of PEF on microbial characteristics, and equipment design in biotechnology. Guest editors are Saša Haberl-Meglič, Damijan Miklavčič, and Eugène Vorobiev.

Vaccines: The Special Issue will be entitled: "Immunization by Electroporation". Presenters (oral/poster) of the Sessions dedicated to the immuno-oncology by electroporation are invited to submit their work as well as others treating immunology topics. Guest editors are Emanuela Signori, Richard Heller, Maja Čemažar, and Marie-Pierre Rols.

Innovative Food Science and Emerging Technologies: Special Issue will focus on equipment design, in-package processing, indicator microorganisms, PEF-assisted sterilization, new applications in food and bio-science, use of reversible permeabilization for metabolite production, as well as other topics (see website for an exhaustive list). The editor Prof. Dietrich Knorr expects presenters of high quality research to submit their contributions to this Special Issue of the IFSET journal entitled "Pulsed Electric Field Treatment – Research and Development Needs". Guest editors are Samo Mahnič-Kalamiza and Eugène Vorobiev.

Forthcoming events

Electroporation-Based Technologies and Treatments

Ljubljana, November 10 – 16, 2019

<http://2019.ebtt.org>

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