



Newsletter No. 34

3rd World Congress on Electroporation and Pulsed Electric Fields; Toulouse, France, September 3 – 6, 2019

Newsletter by: Marie-Pierre Rols, IPBS-CNRS, Toulouse, France & Eugène Vorobiev, Université de Technologie de Compiègne, France
marie-pierre.rols@ipbs.fr, eugene.vorobiev@utc.fr

The 3rd World Congress on Electroporation and Pulsed Electric Fields in Biology, Medicine, and Food & Environmental Technologies, will be held in Toulouse, France, September 3 – 6. Toulouse is the 4th largest city in France and the metropolitan leader in Occitania with privileged natural surroundings. Toulouse is the European leader in aeronautic & space industries and in France in biotechnologies, microbiology, life science, and technologies sector. The meeting will be held at the Centre de Congrès Pierre Baudis, which is located in the centre of the city and is walking distance to the Capitole, the emblematic city hall of Toulouse, where we will have a Reception on Tuesday, September 3. The meeting is scheduled for four full working days spanning Tuesday to Friday. On Monday, September 2, the registration desk will open in the afternoon and in the evening the Opening Reception will be held in the conference centre. In addition, on Monday afternoon, meeting rooms will be made available to accommodate the workshops (e.g. the Bioelectrics Consortium). The Gala Dinner will be held on Thursday, September 5.

Additional information is available on the website. Please visit wc2019.electroporation.net.

The 3rd World congress will bring together people from different disciplines possessing diverse expertise, who are involved in a basic research or are developing applications based on the use of pulsed electric field. It will highlight the most relevant areas of research and development in the field of novel and emerging applications. The 4th International Bio and Food Electrotechnologies Conference & the 16th International Bioelectrics Consortium Symposium will be organized as joint events of the 3rd World Congress on Electroporation.

The scientific program includes 11 [plenary talks](#):

- Ismail Gogenur, Københavns Universitet, Denmark – *Electroporation as immunological prehabilitation before colorectal cancer surgery*;
- Nir Grossman, Imperial College London & MIT Media Lab, USA – *Non invasive deep brain stimulation via temporally interfering electric fields*;
- Jürgen F. Kolb, Leibniz Institute for Plasma Science and Technology, Germany – *title to be announced*;
- Olga Martin Belloso, University of Lleida, Spain – *Development of innovative technologies (pulsed electric field, pulsed lighting, combined) for safe and healthy food products*;
- Eric Mazur, Harvard University, USA – *Laser-activated poration and cargo delivery*;
- Lluís M. Mir, IGR, France – *Electropulsation, a journey from electroporation to electropermeabilization*;
- Nikolai Lebovka, University of Kyiv, Ukraine – *Electroporation of complex biological tissues*;

See verso for continuation...



Newsletter Editor

Damijan Miklavčič
University of Ljubljana, Slovenia
damijan.miklavcic@fe.uni-lj.si

Newsletter Technical Editor and Website Administrator

Samo Mahnič-Kalamiza
University of Ljubljana, Slovenia
samo.mahnic-kalamiza@fe.uni-lj.si

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- Eric Robert, CNRS Orléans, France – *Non thermal plasmas: newly-developed, multifaceted and complementary tool for cell permeabilization;*
- Stefan Töpfl, German Institute of Food Technologies, Germany – *PEF use in potato products: scientific basis, technological development and product advantages;*
- Atul Verma, Southlake Regional Health Centre, Ontario, Canada – *Electroporation for treatment of Atrial Fibrillation;*
- Philipp Wiggerman, Städtisches Klinikum Braunschweig, Germany – *Minimal invasive tumour therapies: Current role and future concepts of Electroporation.*

The 3rd Congress will be organized to facilitate interactions and discussions similar to the 1st and 2nd Congresses. The planning committee works to enhance opportunities for these discussions. In addition to the major topics (Basics, fundamental mechanisms and modelling of electroporation; Pulsed electric field technology, laboratory and large treatment capacities; Biomedical applications of electroporation; Food applications of electroporation; Electroporation in biotechnology, biorefinery and environmental applications; Other emerging technologies for biomedical, food and environmental applications (plasma, ultrasound, microwaves,..)), there are 16 special sessions being organised, for the list please see the website: <https://wc2019.electroporation.net/special-sessions>.

As with the 1st and 2nd World Congresses, we also encourage participation from our young researchers at the 3rd World Congress, and we will have a Young Investigator Competition. The Doreen J. Putrah Cancer Research Foundation has kindly agreed to sponsor travel grants for both graduate students and post-doctoral researchers to attend the 3rd World Congress. The Foundation is interested in supporting young researchers working in the field of electroporation-related biomedical research, particularly, but not limited to, nanosecond pulsed electric fields, electrochemotherapy and irreversible electroporation. To apply for the award, please visit wc2019.electroporation.net/travel-grant and fill in the form.

The 3rd Congress offers the venue to meet again your colleagues, make new friends, and establish new collaborations. This is the meeting you want to attend if you are involved in research related to electroporation and pulsed electric fields. As with the 1st and 2nd Congress “we will all be there” at the 3rd. As we move towards September, many important dates are approaching. The abstract submission deadline has been extended to March 20th, after which the submission site will close. Don't miss the opportunity to present your work.

[Marie-Pierre Rols](#) & [Eugène Vorobiev](#)

Forthcoming events

4th Veterinary Workshop on Electroporation-Based Treatments

Ljubljana, April 2 – 3, 2019

<https://goo.gl/vUKxtX> (click on the first entry, “Electroporation”)

6th School on Pulsed Electric Field Applications in Food and Biotechnology

Cesena, June 3 – 7, 2019

<http://pefschool2019.electroporation.net>

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Congress centre Pierre Baudis,
11 Esplanade Compans
Caffarelli, 31000 Toulouse,
France

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