

MIPRO 2014 -
37th International Meeting
COST TD 1104 Special Session

„Electroporation Based Technologies and Treatments“

29 May 2014 , 9:00 – 11:00
Grand hotel Adriatic, Opatija, Croatia



Croatian Society MIPRO, University of Ljubljana and University of Zagreb in cooperation with COST TD 1104 Action European network for development of electroporation-based technologies and treatments (EP4Bio2Med) organize this Special Session. The Session seeks to bring together researchers, professionals, and practitioners to present and discuss recent developments and challenges in Electroporation Based Technologies.

Chairs: **Ratko Magjarević** (University of Zagreb, Croatia), **Damijan Miklavčič** (University of Ljubljana, Slovenia)

Speakers:

Damijan Miklavčič, University of Ljubljana, Slovenia

COST TD1104 Action: EU network for development of electroporation based technologies and treatments

Martina Goettel, Institute of Technology, Karlsruhe, Germany

Biofuel production from microalgae – application of PEF treatment in microalgae processing

Saša Haberl Meglič, University of Ljubljana, Slovenia

Extraction by means of electroporation of biotechnologically relevant molecules from bacterial cells

Henry Jaeger, University of Natural Resources and Life Sciences (BOKU), Vienna, Austria

Structural effects of PEF - Application as pre-treatment in food drying

Luis Mir, Institut Gustave-Roussy , Villejuif, France

Electrochemotherapy: a developing new method of cancer treatment

Claudia Siemer, German Institute of Food Technologies, Germany

Pulsed electric field application in food industry - Equipment design and commercial experience

Eugene Vorobiev, Nabil Grimi, University of Technology, Compiègne, France

Extraction from food, waste and microalgae treated by pulsed electric field

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For more information on the
COST TD 1104 Action, please visit
www.electroporation.net



Scope of the Special Session:

Topics of interest include:

- Basic Mechanisms of Electroporation and Modelling
- Food Processing and Pharmaceuticals
- Medical Applications;
- Sustainable Environmental Applications and Biomass Processing
- Technology Development and Transfer

The Special Session on Electroporation Based Technologies will enable participants to:

- obtain an overview of the biological, physical and chemical mechanisms underlying electroporation
- gain information on process-product interactions in food and pharmaceutical applications involving electroporation and combine it with the latest findings in other application areas to improve equipment and process design
- learn about technology and instrumentation behind present clinical applications, development of new applications and experience in standardization of clinical protocols
- obtain an overview on how to improve the economic and technological efficiency of environmental and biomass applications of electroporation
- gain information on introduction of safe and reliable electroporation systems for industrial applications and clinical use.

Location:

Opatija, with its 170 years long tourist tradition, is the leading seaside resort of the Eastern Adriatic and one of the most famous tourist destinations on the Mediterranean. With its aristocratic architecture and style Opatija has been attracting renowned artists, politicians, kings, scientists, sportsmen as well as business people, bankers, managers for more than 170 years. Opatija's distinguished visitors were the Austrian Emperor Franz Joseph, the German King Wilhelm II, the Swedish Royal couple Oscar and Sophia, the Greek King George, the composers Pietro Mascagni and Giacomo Puccini, the writers James Joyce, Anton Pavlovich Chekhov and Henry Sienkiewicz, the dancer Isadora Duncan, the well-known physician and scientist Dr. Leopold Schrotter who discovered in 1891 the medicinal benefits of the air in Opatija as a result of the mixture of the Mediterranean and mountain climate. The tourist offering of Opatija includes a vast number of hotels, excellent restaurants, entertainment venues, art festivals, superb modern and classical music concerts, beaches and swimming pools and is able to provide the perfect response to all demands. Opatija, the Queen of the Adriatic, is also one of the most prominent congress cities on the Mediterranean, particularly important for its international ICT conventions MIPRO that have been held in Opatija since 1979 gathering more than a thousand participants from more than forty countries. These conventions promote Opatija as the most desirable technological, business, educational and scientific center in Southeast Europe and the European Union in general. For more details please look at www.opatija.hr/ and www.opatija-tourism.hr/.

Official language is English.

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