



Immunogenic Effects of Electroporation-Based Treatments

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Message from the Guest Editors

Studies in the field of immunology are revealing an attractive set of novel and different therapeutic approaches to treat cancer and infectious diseases. Electroporation, also named electropermeabilization (EP), is an efficient and safe technique based on the application of voltage pulses of sufficient strength and duration to generate transient membrane permeabilization/poration, thus allowing the delivery of drugs or genetic material into the target cells via electrotransfer. Following EP treatments, different innate and adaptive immune cells can be recruited, influencing immune responses at local and distant levels. Due to this property, many studies in the field of immunization by electroporation have been undertaken.

In this Special Issue, induction of immunological effects and enhancement of the immune system response induced by genetic vaccines and/or immunomodulatory molecules, administered alone or in combination with other therapeutic treatments by EP, will be discussed. Presentations of results on the immunological effects of drugs delivered by electric fields in pre-clinical and clinical trials will be very welcome as well.





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Message from the Editor-in-Chief

Vaccines (ISSN 2076-393X), founded in 2013, now has a firm history of publishing peer-reviewed, state-of-the-art research papers on vaccines and vaccination in the broadest sense. Areas covered include, but are not limited to, novel and emerging vaccine technologies, building on in-depth knowledge of what constitutes a protective immune response. These can be new vaccines for old diseases, or old vaccines for new diseases. Vaccines against cancer and autoimmune diseases explicitly are also within the scope of the journal. Because public opinion and even government policies towards vaccines and vaccination have changed, vaccine policy and public health issues are major concerns. Climate change will also have an impact on the spread of infectious diseases, and thus also on vaccine and vaccination policies worldwide.

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