



Electromagnetic Fields (EMF) Applications in Medicine

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims at collecting results of cutting-edge research on the use of Electromagnetic Fields (EMF) in medicine and health. The interaction between EMF and biological tissues opens the path to a broad range of applications. Those span from low-frequency (LF) applications, such as neurostimulation and neuromodulation of the central and peripheral nervous systems, LF imaging, cancer treatment and EMF-assisted drug and cell delivery, pulsed EF and EMF, to high-frequency (HF) and Radio Frequency (RF) applications.

We are interested in both experimental in vitro and in vivo studies as well as in computational studies for the design, optimization and evaluation of innovative EMF-based techniques, systems and materials.

Research related to the following topics, but not limited to, are invited for this Special Issue:

- Innovative strategies in Neuromodulation and Neurostimulation;
- EMF-based imaging techniques;
- EMF-assisted drug delivery through magnetic or magnetoelectric nanoparticles, electroporation;
- EMF-based innovative systems and materials in medicine;
- Pulsed EMF applications;
- RF ablation, Hyperthermia;
- EMF applications' safety.

Special Issue



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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