

Special Issue

Electroporation-Mediated Drug and Gene Delivery

Message from the Guest Editors

Electroporation, a technique using pulsed electric fields to enhance cell membrane permeability, has shown tremendous promise in biomedical applications by improving the delivery efficiency of drugs and genes. However, to fully exploit the capabilities of electroporation and enhance its efficiency, deeper insights into the molecular mechanisms of drug and gene delivery are essential. This Special Issue seeks innovative research on pharmaceutical substances and the incorporation of chemical and physical methods, novel pulsed electric field protocols, their molecular interactions, and advanced analytical and numerical methods to deepen our understanding of the field, leading to more efficient electroporation-based treatments. We invite you to submit innovative research in the form of reviews, original research articles, and communications. By advancing our knowledge in these areas, we aim to inspire further innovation and optimization in electroporation-mediated therapies, facilitating their wider application in clinical settings.

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