



sensors



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Sensors Based on Electrophysiology Measurements

Guest Editor:

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Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

Dear Colleagues,

The past two decades have seen an exponential growth in investigations focused on developing analytical devices inspired from measurements typical to a traditional electrophysiology setups. The working principles rely on the ability to measure tiny changes in the ionic currents through a conducting pathway created in a supporting membrane upon specific or nonspecific interactions with analytes of interest. The large interest in this technology was fueled by the promise of fast and reliable DNA sequencing. However, this principle was extended for a large variety of sensing applications. The goal of this SI is to present recent advancements in this field that employ unregulated synthetic nanopores, wild-type or modified pore-forming proteins reconstituted into bilayer lipid membranes, and natural or artificial channels that include conductance regulation mechanisms upon exposure to physical or chemical stimuli. Original research articles and reviews that address the most recent advancements in sensing approaches identical or similar to an electrophysiology setup are welcome.

For more details, please click: mdpi.com/si/37622

Prof. Dr. Daniel Fologea

Guest Editor



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Special Issue



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Message from the Editor-in-Chief

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