Special Issue

Bio-Electric and Electrochemical Biosensors for Respiratory Viruses Detection

Message from the Guest Editors

The recent severe acute respiratory syndrome outbreak emerged the need for the accurate and on-time identification of COVID-19 disease and other emerging viruses in symptomatic and asymptomatic patients. Several rapid and cheap immuno-diagnostic tests have also been developed, but their results do not present high accuracy. Biosensors represent promising alternatives to the abovementioned technologies. Electrochemical biosensors display several advantages over the traditional spectroscopic methods, as they are cheap, easy to use, and applicable in on-site analyses with a minimum or no sample pretreatment. On the other hand, bioelectric biosensors measure the electric properties of biorecognition elements as a reflection of cellular, biological, and biomolecular functions offering multiple options of assay targets as well as methodological approaches. This Special Issue will provide knowledge on research and development in the fields of bio-electric and electrochemical biosensors as analytical tools for the infection caused by SARS CoV-2 and related respiratory viruses. Research papers, short communications, and reviews are all welcome.

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Deadline for manuscript submissions

closed (31 July 2023)



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Impact Factor 5.6 CiteScore 9.8 Indexed in PubMed



mdpi.com/si/107125

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About the Journal

Message from the Editor-in-Chief

Biosensors is a leading journal, devoted to fast publication of the latest achievements, technological developments and scientific research in the exciting multidisciplinary area of biosensors. Both experimental and theoretical papers are published, including all aspects of biosensor design, technology, proof of concept and application. Special issues are devoted to specific technologies and applications, and a selection of the most outstanding papers each year is recognized. Pushing the boundaries of the discipline, we invite original papers, as well as timely reviews on cutting edge fields within the subject area.

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