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Bioelectric Impedance Technology for Next Generation Point-of-Care Biomedical Biomarkers and Diagnostics

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Message from the Guest Editors

Point-of-care devices are unique diagnostic technologies that provide the potential for rapid biomarker detection and monitoring of medical conditions, thereby bypassing the demand for high-cost clinical laboratory facilities in many cases. Bioelectric sensors are suitable for use in handheld diagnostic devices due to the integrated electronic detection instrumentation and low requirement for processing reagents. Nowadays, bioelectric impedance sensing is widely used in tissue analysis such as body composition monitoring, however, its use in point-of-care patient testing is yet to be widely adopted.

The aim of this Special Issue is to focus on the most recent advances and developments of biosensors in the field of bioelectric impedance sensing. Suggested topics are bioelectric sensors for single cell analysis, impedimetric biosensors, wireless biological electronic sensors, and implantable autonomous bioelectric micro- and nano-sensors. In addition, approaches providing a point-of-care/portable and wireless instrumentation, high throughput analytical capacity, and intelligent bioelectric impedance sensing platforms are also welcome.



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Special Issue



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Message from the Editor-in-Chief

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