

Special Issue

Microelectrode Array for Biomedical Applications

Message from the Guest Editors

Dear colleagues, For half a century, many kinds of MEA (micro-electrode array) have been developed, including the plane MEA on glass, the Utah electrode, the Michigan electrode, and electrode arrays on silicon. Using different MEAs, different studies have been carried out, including research on the biological performance of artificial cultured neuronal networks and brain slices, the combined study of cell electrophysiological function and morphology, the study of nerve regeneration, the study of prominent plasticity, the study of retina, the study of pacing and electrical excitation conduction characteristics of myocardial cells, acute heart slices, or isolated hearts, and so on. For different studies, different devices, instruments, and systems have been developed. In this Special Issue, all aspects related to MEAs for biomedical applications will be discussed.

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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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