Special Issue

Biosensors for Healthcare and Disease Diagnosis

Message from the Guest Editors

Neuromuscular diseases affect people at all ages, sex and ethnicities. They can be inherited or caused by a spontaneous gene mutation. Electromagnetic signals, including electromyogram (EMG) and electroencephalogram (EEG), are widely used in neuromuscular disease diagnosis and management. These signals are also used to support motor rehabilitation for stroke patients. It is of crucial importance to have a reliable continuous monitoring system for the heart (electrocardiogram) and lung's functions (oscillometry). Patients with neuromuscular diseases also face challenges in medical treatment. For example, neuromuscular blockers or muscle relaxants that are used in anesthesia could cause fatal or permanent injuries. In this case, in addition to vital signal monitoring, drug delivery systems to ensure the drug affects only the target muscles are beneficial. This Special Issue will focus on original research that addresses but is not limited to the following topics:

- Electromagnetic signals for neuromuscular diseases: diagnosis and rehabilitation
- Advanced materials and nanoparticles for smart drug delivery

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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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