

Special Issue

Continuous Glucose Monitoring

Message from the Guest Editor

Continuous glucose monitoring technologies provide information on glucose concentrations, direction and rate of change of glucose, and enable the analysis of historical trends. Real-time devices include alerts and alarms for rapid changes in glucose and for concentrations outside of specified ranges. Clinical data suggest that continuous glucose monitoring can improve overall glucose control, as measured by glycated haemoglobin, and can reduce the burden of extreme glucose values (hypo- and hyperglycaemia). However, devices remain invasive, accessing the subcutaneous interstitial fluid with a needle-type sensor, and cost remains a barrier to wider adoption in healthcare systems. Methods to improve needle-type sensors and alternative sensor methodologies have the potential to improve accuracy and precision, reduce cost, and may be more acceptable to people with diabetes. Non-invasive optical technologies and transdermal methods have been explored. [...] For further reading, please follow the link at: http://www.mdpi.com/journal/biosensors/special_issues/Continuous_Glucose_Monitoring_2018.

Guest Editor

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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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