Special Issue

Biosensing and Imaging for Neurodegenerative Diseases

Message from the Guest Editor

Accurate diagnoses are crucial in the clinical diagnosis and treatment of neurodegenerative diseases. Increasing evidence has shown that specific biomarkers are helpful for the early detection, prognosis, and efficacy evaluation of neurodegenerative diseases. Highly sensitive sensing technologies (based on biomarkers derived from cerebrospinal fluid, blood, saliva, urine, or tissues and organs) can effectively measure and identify changes in clinically meaningful outcomes. The combination of biosensing with imaging will be more conducive to the accurate diagnosis of diseases and real-time monitoring of treatments. This Special Issue will provide the state of the art of portable sensors and their integration with new imaging methods in the field of neurodegenerative diseases, focusing on the screening of novel biomarkers derived from the periphery (especially blood, saliva, and urine), the exploration of dual-mode biosensors, and new applications of tissue-clearing for 3D imaging and in vivo multimodality imaging techniques.

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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