

Special Issue

Biomedical Sensors for Diagnosis and Rehabilitation

Message from the Guest Editor

According to data provided by the World Health Organization, by 2030, 1 of 6 people in world will be aged 60 years or over. From a biological point of view, aging is a natural process where cellules become damaged over time, increasing the risk of suffering several diseases. After acute trauma, rehabilitation therapy aims to recover those lost capabilities and restore the autonomy of patients. Cost-effective technologies that assist researchers and medical practitioners are both demanded and needed. Biosensors arise as key elements in the process of diagnosis, prognosis, and eventually rehabilitation therapies. The medical society demands safe and cheaper means of performing their work in order to guarantee the sustainability of the entire healthcare system. Biosensors' applications are for screening infections and early detection, chronic disease treatment, health management, and well-being surveillance. Moreover, some of them play an important role in the rehabilitation process. Physiological monitoring via biosensors could help in both diagnosis and ongoing treatment of a huge number of individuals with neurological, cardiovascular, and pulmonary diseases, among others.

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