

Special Issue

Advances in Biosensor Technologies for Clinical Applications

Message from the Guest Editors

A Rapid diagnosis and timely treatment are key determinants of improved clinical outcomes and public health safety. Traditional in vitro diagnosis of disease requires centralized laboratories and bulky equipment, which is expensive, time consuming and can cause severe discomfort to patients. Biomarkers are key indicators for the diagnosis and treatment of many diseases. Compared with healthy individuals, specific biomarkers of disease patients will show significant concentration deviations. In recent years, the development of biosensor-based biomarker detection technology has provided the possibility for the timely diagnosis of diseases. It is superior to traditional detection methods in timeliness, accuracy and cost, and has the potential for extensive development. In particular, the current pandemic of COVID-19 has greatly disrupted the world's health system, enhancing the importance of telemedicine systems and increasing the need for new biosensing and treatment technologies.

Guest Editors

Prof. Dr. Daxiang Cui

Institute of Nano Biomedicine and Engineering, Department of Instrument Science and Engineering, School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

Dr. Ning Tang

Institute of Nano Biomedicine and Engineering, Department of Instrument Science and Engineering, School of Electronic Information and Electrical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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