

Special Issue

Biosensor Applications in Agriculture, Aquaculture and Animal Husbandry

Message from the Guest Editors

This Special Issue, entitled “Biosensor Applications in Agriculture, Aquaculture and Animal Husbandry”, represents an emerging interdisciplinary field that integrates biosensors with various advanced technologies. Agricultural biosensors integrate the high specificity of biological recognition with rapid signal response, enabling precise detection and real-time monitoring of target analytes in complex matrices. The scope of this Special Issue includes, but is not limited to, the design, development, and application of diverse biosensors (e.g., enzyme sensors, immunosensors, electrochemical sensors, and optical biosensors) in agricultural contexts covering aquaculture and animal husbandry. Key application areas encompass livestock disease diagnosis, aquaculture water-quality monitoring, feed safety detection, and agricultural product quality assessment. We welcome high-quality original research papers and comprehensive review articles that showcase the latest breakthroughs and future trends in this field, highlighting the fusion of biosensors with emerging technologies like nanotechnology and artificial intelligence to address critical agricultural issues of global interest.

Guest Editors

Dr. Liu Wang
Dr. Yue Wu
Dr. Yachao Liu

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Biosensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biosensors@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Giovanna Marrazza

Department of Chemistry "Ugo Schiff", University of Florence, via della
Lastruccia 3, 50019 Sesto Fiorentino, Italy

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