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Biosensors and Smart Analytical Systems in Food Quality and Safety: Status and Perspectives

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Message from the Guest Editors

Dear Colleagues,

Foodborne diseases are currently a serious concern that affect 600 million people worldwide. The demand for developing accurate, simple, rapid, low-cost and ideally portable analytical systems that can make point-of-care analyses is constantly growing.

Biosensors are an alternative to conventional methods, and their way of functioning also takes most of the advantages of green chemistry. Similarly to biosensors, smart analytical systems that use miniaturized spectrometric instrumentation have made significant advances in the last years, offering nowadays significant advantages in terms of mobility, price, size or weight.

One of the main advantages of biosensors and smart analytical systems is their portability, what makes them ideal tools in the monitoring and control of food quality and safety, for instance in foodborne outbreaks where a rapid detection in situ is required to control the emergence.

This Special Issue is a great opportunity for colleagues working with biosensors and smart analytical systems assessing the quality or safety in foods. Submission of original research articles and reviews are encouraged.

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Special Issue



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Message from the Editor-in-Chief

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