



Integration and Miniaturization Strategies for Biosensing: Empowering Home Diagnostics

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Message from the Guest Editors

In clinical diagnosis, the transference from central laboratories to the point of patients' care is now being addressed by a number of technologies, including simple lateral flow assays, wearables or implantable sensors. These point-of-care technologies, however, still deal with important hurdles regarding:

- Complexity of the bioassay, in terms of sample treatment, analyte concentration, or target specificity.
- Operational limitations such as shelf life, need for recalibration, instability of light sources (in optical transduction), or the interference of components of the sample matrix.
- Size and cost of the associated instrumentation.
- Complexity of the treatment and management of the acquired data, and their conversion into easy-to-interpret information.

This Special Issue aims at presenting the most relevant multidisciplinary research focused on one or more of the aforementioned aspects, with the target of simplification, integration, miniaturization, and cost reduction of current laboratory assays for point of care.





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