

INNOVATION, the path to successfully bring new biosensors into the market**Jaureguibeitia A***

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Abstract

Biosensors are increasingly used as a powerful alternative to traditional analytical techniques for the simple, fast and accurate detection of a large number of parameters of interest in many fields such as food safety and quality analysis, environmental monitoring and health diagnostics, among others. Thanks to technological advances in electronics, nanomaterials, digitalization and connectivity, biosensors are becoming highly competitive tools with unique attributes such as speed, simplicity, easy of use, accuracy, cost and usability. In this context, BIOLAN is a group of companies focused on the development, large-scale production and commercialization of biosensors based on two main technologies that have proven to be highly effective for the simple, rapid and cost-effective detection of a large number of parameters on food and healthcare sectors: enzymatic biosensors based on electrochemical detection and lateral flow immunoassays. Innovation is a key value for BIOLAN, that has led the company to become one of the main players in the food safety testing sector. The intensive investment and activity of BIOLAN in R&D has been the key to overcome challenges (such as lack of stability, reproducibility, specificity, etc.) and bring new biosensors and improved versions into the market. Among others, good examples of this effort are the portable and ready-to-use enzymatic

sulfite (SO₂) biosensor developed in the framework of the SO₂SAFE EU project, the OSAXYL PoC solution for the diagnosis of lactose intolerance developed under the LACTOPOC project and the new generation of digital biosensors developed in the framework of different national and EU projects.

Biography

Dr. Arrate Jaureguibeitia: holds a MSc in Biochemistry (2001). In 2005 she received the PhD for her research on enzymatic technology. After a Postdoctoral Research position in a pharma company (2005-2006), she led the Biotechnological Area of a chemical company (2006- 2011). Since 2011 in BIOLAN as Innovation Manager leading regional, national and European research strategies focused on the development of biosensors for diagnostic applications in the food and health sectors. She is author and co-author of 8 publications and 5 international conferences, co-ownership of three patent applications.