

# New publication using Attana's QCM-technology for optimization of biosensor surfaces using different flow types

**Researchers at the University of Chemical Technology and Metallurgy, Bulgaria and Sofia University have with Attana's QCM-technology investigated the effect of different process parameters when preparing functionalized biosensor surfaces. This is important for developing and optimizing new sensors for many different applications.**

Polymers and biomolecules, such as proteins, are used as recognition elements for different kind of biosensors. In order to develop new or improved biosensor surfaces, it is important to understand the influence of different process parameters. In the publication "Effects of the Flow type on the immobilization of Horseradish peroxidase on polymers", assistant professor Spaska Yaneva and co-workers have studied the effect of turbulent and laminar flow and an intermediate state with respect to immobilization properties of biosensor surfaces. They demonstrated a flow type effect on coating amount, time, structure and molecular orientation, and consequently the function of the surface.. Attana QCM was used to quantify the amount of immobilized enzymes at laminar flow. This work can be combined with other studies on biosensors optimization, such as effect of pH and surface charge to form a comprehensive knowledge of biosensor surfaces development. To learn more on how Attana technology and expertise can be used contact us at [info@attana.com](mailto:info@attana.com)

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The Board of directors for Attana consider that the information in this press release does not affect the share price, but is of general interest for the share holders and hence should be communicated.

This is information that Attana AB is obliged to make public pursuant to the EU Market Abuse Regulation. The information was submitted for publication, through the agency of the contact person set out above, at March 13 CET on 07.00 2018

Attana was founded in 2002 with the vision of *in-vitro* characterization of molecular interactions mimicking *in-vivo* conditions. Since then, Attana has developed proprietary label free biosensors for biochemical, crude, sera, and cell-based assays. Attana's products and research services are used by Big Pharma, biotech companies and academic institutions within the life sciences. To learn more about Attana's contract research services and our label free cell-based biosensors, please visit [www.attana.com](http://www.attana.com) or contact [sales@attana.com](mailto:sales@attana.com).