

**November 7, 2019 (13:30-14:15)**



**VENDOR SEMINAR:**

**Compact Analytical Devices for Rapid Screening of Chemical Contaminants: Affidia Presents New Innovative High-Tech Companies**

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**Compact analytical devices for rapid screening of chemical contaminants: Affidia presents new innovative high-tech companies**

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**Affidia**

Affidia is a new company. We are building a competence center in food diagnostics, independent from any kit/device/instrument manufacturer. We want to inform the community of quality managers of the food and feed industries, as well as laboratory managers, about all is needed to control food contaminants, avoid frauds, improve the quality of food and feed. We will continuously listen to the market needs and watch the evolution of products and services. We can be useful to method providers as well, reporting end-user opinions and communicating in a clear way advantages of new products.

We are launching a web portal ("FoodTestCompass") where there will be commercially available test kits by any reliable producer. We are starting with "rapid methods" (LFDs), then we will move online ELISA and PCR kits, as well as key materials for sample preparation, reference materials etc. Now who is interested to rapid methods need to visit 5 to 10 web sites where specifications are shown in different ways and it is hard to make a comparison in a reasonable time. By FoodTestCompass the process will be easier and faster. We will offer to the end-user the possibility to share their experiences, find validation reports, sometimes get our expert evaluation too.

As independent experts, we will watch whether and how the results of the research institutions are exploited by the industries. Sometimes governmental bodies sponsor with million euro works that seems to us not so innovative, sometimes they really are lifting new disruptive enterprises. After this screening we can then help some young scientists and entrepreneurs that are in early pre-market stage to get some visibility.

In this seminar we will introduce two start-ups, both really innovative and promising. They are developing new screening methods and devices that could make control on-site simpler than now.

**BIOsens MYCO**

Dr. Andrii Karpiuk, BIOsens, Kyiv, Ukraine, will present BIOsens MYCO - an all-in-one device that perform automatically extraction and clean-up of grain samples that have to be tested for mycotoxins. By mean of disposable part, who use the device does not need to manage methanol or making accurate volume dispensing. At the end of the process the sample preparation cartridge can be disposed and replaced by a clean one. The purified extract, limited volume, can be then analyzed by a fluorimeter or other type of mycotoxins sensors.

Right now, company works on upgrading sensor for testing 7 mycotoxins (Fumonisins B1/B2, Aflatoxins B1/B2/G1/G2, Ochratoxin A, T-2 and HT-2, Zearalenone, Deoxynivalenol) simultaneously and looking for R&D partners.

*a@sens.bio / www.sens.bio*

## **Inspecto Solutions**

Dr. Lior Eligal, CTO at Inspecto Ltd. from Israel, will present a portable, analytical device that offers both automated sample preparation and analysis for food producers. The Raman SERS based innovation produces results within approximately 30 minutes and can be used by any non-skilled personnel. The model is based on a device with disposable capsules per scan. Inspecto's first application will be for acrylamide detection in various matrices.

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The world of start-up companies is characterized by small teams, limited resources and, when the project looks very promising, early acquisitions too. We hope to be able to introduce another interesting enterprise, otherwise we will overlook the scenario of similar initiative we are in touch with.

We want to continue this scouting for innovation as well to let the community aware of failures of past initiatives. Please follow us at [affidia.tech](#), read our magazine ([Affidia, The Journal of Food Diagnostics](#)) and when you need to choose a kit please visit [FoodTestCompass.com](#)