

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

# Waters

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**VENDOR SEMINAR:**

## **A Comprehensive Toolkit for Pesticide Residues, from Highly Polar Pesticides to Multiresidue Analysis**

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### **A comprehensive toolkit for pesticide residues, from highly polar pesticides to multiresidue analysis**

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The use of pesticides on crops to control pests during the production, storage and transport is common practice to protect crops. Food producers utilise various pesticide combinations to increase the production yields from each crop, improve quality and shelf life for various commodities. This practice has benefited consumers globally, giving them access to a wide range of foods all year which have been grown domestically or in another country.

To ensure that consumers are not placed at risk by the use of pesticides, maximum residue levels (MRLs) have been established by countries based on good agricultural practice and effects on human health, alongside regulations on marketing and usage of these chemicals.

In 2017 the European Union member states analysed in total 88,247 samples for pesticide residues, of which 95.9% fell within the current legal limits for pesticide usage. Of the 88,247 samples tested 41.8% of samples had one or more pesticide residues which was measured below or equal to the MRLs. Out of 11,158 samples measured in the 12 selected food commodities for the 2017 EUCP, 179 (1.6%) samples contained residue concentrations exceeding the legally permitted MRLs.

The analysis of pesticide residues remains a critical analysis for food contaminant laboratories. Due to the physiochemical properties of the various pesticides as well as the different commodities required to be tested, this analysis also still presents many challenges to laboratory workflows, from sample processing through to data analysis and interpretation.

A modern food contaminant laboratory needs to have an advanced analytical toolkit at its disposal to meet the growing demands of increasing multiresidue suites as well as challenging class specific analysis such as highly polar pesticides.

Join us at our talk where we will discuss a comprehensive toolkit for pesticide residue analysis. We will provide an update on new technologies designed to meet the challenges and regulations for this analysis. Find out about the various software functions designed to provide benefits to your analytical workflows as well as hearing about our latest highly polar pesticide solution, designed to bring this analysis into the routine.