

# THE ESSENTIALS OF LC PURIFICATION & MASS SPECTROMETRY

## 28<sup>th</sup> HSKIKI WORKSHOP

March 29, 2023, 15:30

Hotel Lone, Hall 1

### How to integrate the Compact Mass Spectrometer at each step in the laboratory's workflow

With over 25 years of mass spectrometry and chemistry expertise, Advion Interchim Scientific has produced a family of compact mass spectrometers (CMS) designed for the chemist. The affordability, small size and ease-of-use makes them ideal for use directly at the chemist's bench, giving immediate answers and informed decisions instead of waiting in line at a central analytical service laboratory. Now every chemist can have a mass spec that works the same hours they do.

The expression® family of compact mass spectrometers was developed with maximum versatility in mind. They allow users to switch rapidly between the many different sample introduction techniques required throughout the chemist's workflow; from simple direct probe analysis to ultra-high performance liquid chromatography and prep-scale purification.

In the workshop we will cover different aspects of successful integration of the CMS detector in lab's workflow:

- Chemical purity of the compounds
- Reaction monitoring
- Purification, where the fraction collection is directed by mass
- TLC-MS technique
- LC Chromatography
- Direct sample information, even from solids, without any sample preparation/dilution
- Broad range of innovative sampling techniques
- Q&A section

The workshop is organized by BIA d.o.o. and Advion Interchim Scientific.

The advertisement features a dark blue background with various pieces of laboratory equipment. On the left is the Plate Express™ TLC Plate Reader. In the center are several compact mass spectrometers, with labels indicating their mass ranges:  $m/z$  10 - 1200 units and  $m/z$  10 - 2000 units. To the right are columns, with labels for Flash purification columns, prep-LC columns, and DAC columns. A chemical structure of a silica-based stationary phase is shown, with a methyl group (CH<sub>3</sub>) and a hydroxyl group (OH) attached to a silicon atom (Si) bonded to a carbon chain (C<sub>n</sub>H<sub>2n+1</sub>). The Advion Interchim Scientific logo is prominently displayed in the center, with the BIA logo to its left. Contact information is provided at the bottom.

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