



Lunch webinar of the Swiss Metabolomics Society

Non-Targeted LC-MS Capability Optimization Using a Bruker timsTOF Pro for Chemical Characterization of Complex Matrices

Join us on **14.07.2021 12:00-13:00**

Get the zoom link in our webpage <http://www.swiss-metabolomics.ch/Events-and-Courses.php>



Dr. Christian Wachsmuth, Scientist Chemistry Research
PMI R&D, Philip Morris Products S.A., Neuchâtel, Switzerland

Abstract

This presentation provides an introduction to non-targeted screening (NTS) and gives an overview about our current LC-MS based NTS workflow at PMI R&D (Arndt, D., Wachsmuth, C., et al., Rapid Communications in Mass Spectrometry 34 (2020) e8571). Based on several combined analytical methods and compound identification strategies, we typically obtain results in a reasonable timeframe of 3-4 months per study for the characterization of known matrices (e.g., tobacco). However, for the application to new matrices such as other plant matrices that are even more challenging to analyze, a Bruker timsTOF Pro was evaluated and compared to the current approach with the objective of continuously improving our methodologies and processes. The performance of the two existing LC-MS workflows and novel aspects of integrating ion mobility measurements into the new LC-MS based NTS approach will be demonstrated by applying NTS for chemical characterization of aerosol from the Tobacco Heating System.

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