

**Title:** Better Together – Reaching Higher Peaks

**Presentation 1:** Experience New Clarity and a new peak in the analysis of biopolymers.

Dr. Gesa J. Schad, Shimadzu Europa GmbH, Duisburg, Germany

**Presentation 2:** Dual deconvolution of LC-PDA-MS data: A fast-track approach for chemical composition and impurity analysis; Anja Grüning, Philipp Jochems, Shimadzu Europa GmbH, Duisburg, Germany

**Short description:**

After this long time of isolation and distance learning, we are pleased and excited to take this opportunity to introduce a brand-new product line-up, ranging from bioinert method scouting, over a new compact single-quadrupole LCMS detector, to novel approaches of data evaluation – all developed to improve data quality and reliability, while keeping an eye on ease-of-use and traceability. We will be presenting the new Nexera XS inert, a truly bioinert UHPLC system that has been designed to resolve the most common problems encountered in the analysis of biopharmaceuticals. In a second presentation Shimadzu's new compact MS detector, the LCMS-2050 will be introduced. Now easily integratable into liquid chromatograph systems, mass spectrometry (MS) is increasingly recognized as an orthogonal detector that adds extra information to UV-based photodiode array (PDA) detectors. One barrier to the adoption of MS detectors has been software to simplify the interpretation of PDA and MS data. This seminar will reveal a streamlined workflow based on the dual deconvolution for resolving complexities caused by insufficient chromatographic separations. The approach is suited for both routine and research laboratories seeking to reduce time from samples to results.

Presenters:

- Dr. Gesa Johanna Schad

Graduated with a Diploma in chemical engineering from the Technical University NTA in Isny, Germany in 2004 and as a Master of Science in pharmaceutical analysis from the University of Strathclyde in Glasgow, UK in 2005. This was followed by a consultancy in HPLC method development and validation in an analytical laboratory of the FAO/IAEA in Vienna, Austria, before gaining her doctorate for research in pharmaceutical sciences at the University of Strathclyde in 2010. After working as HPLC specialist in the R&D department at Hichrom Ltd. in Reading, UK, she started as an HPLC product specialist in the analytical business unit of Shimadzu Europa in Duisburg, Germany and became HPLC Product Manager in 2015.



- Anja Grüning

After her apprenticeship as a state certified technician, Ms. Grüning worked for several years in the field of bioanalytics, where she was, among other things, responsible for the development and validation of LC-MS / MS methods. She has been with Shimadzu Europa GmbH as a product specialist LCMS since 2010.



- Philipp Jochems

After his apprenticeship as a chemical laboratory assistant and studying applied chemistry with a focus on instrumental analysis and laboratory management at the University of Applied Sciences Niederrhein, Mr. Philipp Jochems worked at the University Medical Center of the Johannes Gutenberg University Mainz in the field of occupational medicine, where he was responsible for the development of HPLC methods, among other things. Since 2016, he has been employed at Shimadzu Europa GmbH as a product specialist HPLC.

