



SHIMADZU
Excellence in Science

SHIMADZU LUNCH PRESENTATION AT METABOLOMICS 2026

DATE: JUNE 22ND, 2026

TIME: 12:20 – 1:20 P.M.

MAKE THE MOST OF YOUR METABOLOMICS 2026 EXPERIENCE BY JOINING SHIMADZU'S LUNCHTIME SEMINAR ON DAY 2 OF THE EVENT.

DISCOVER HOW ADVANCED LC-MS SOLUTIONS ARE TRANSFORMING METABOLOMICS WORKFLOWS

WHEN YOU KNOW WHAT THE ANSWER IS ... OUR EXPERIENCE WITH THE LC-MS 8060RX



Prof Jules Griffin
The Rowett Institute,
University of Aberdeen, UK.

Prof Jules Griffin is the Director of the Rowett Institute, University of Aberdeen. His research applies analytical chemistry to study metabolism and nutrition in metabolic diseases, aiming to understand why fat metabolism can be so detrimental to the cell. His group focuses on the interactions between diet and chronic diseases including type 2 diabetes, fatty liver disease, cardiovascular disease and dementia. He is the chair of the Scottish Environmental Food and Agricultural Research Institutes (SEFARI) Gateway Scientific Advisory Group for Estimating Green House Gas Emissions for the Food and Drink Industry in Scotland and is a member of the Food, Drink and Agriculture Board for Opportunity North East.

In terms of study design in metabolomics, while open profiling methods are perfect for discovery science, many times in the clinic we need to test a hypothesis, and in such circumstances a targeted analysis makes more sense. Within the analytical core at the Rowett Institute we have developed a collection of assays that are designed to answer specific questions concerning metabolism. One of our most challenging assays developed to date has been for lipid mediators, which includes classic eicosanoids based on arachidonic acid but also oxidised phospholipids and other polyunsaturated fatty acids. We have been following this diverse range of signalling molecules in human blood to understand the metabolic consequences of heart failure. An assay under current development involves ceramides – both canonical ceramides based on serine and palmitate as the sphingoid base, and novel metabolites where serine is replaced with alanine or alternatively longer chain or more unsaturated fatty acids replace palmitate. As part of a multi-site collaborative project across the UK, we are tracking these ceramides in people at risk of metabolic associated inflammation. We are also profiling bioactive compounds in foods, including polyphenolics and heterocyclic amines and food additives such as parabens to understand their roles in human health. This talk will detail our experience of introducing the Shimadzu LC-MS 8060RX into a busy metabolomics and small molecule core facility where we apply these assays on a day-to-day basis.

SICRIT® – NEW DIMENSIONS IN MASS SPECTROMETRY



Dr. Jan Bucek
Head of Global Sales
Plasmion GmbH

Born in Germany in 2016, SICRIT® now stands as one of the most versatile LC-MS ionization sources on the market. From an operational standpoint, installation takes no longer than 60 seconds and is fully plug-and-play. Being compatible with the entire portfolio of Shimadzu LC-MS mass spectrometers, SICRIT® offers the coverage of EI, APCI, APPI, and ESI within one single, sensitive, and soft ionization technology.

Moreover, conventional hyphenation with LC is not the only option. SICRIT® can be deployed completely without any chromatography, resulting in rapid and sample prep-free analysis. Besides the already mentioned LC-SICRIT®-MS workflow, a GC can also be connected. In this case, however, to a conventional LC-MS instrument. This innovative approach tears down the typical LC-MS / GC-MS diversification and brings a previously unseen, highly practical combination of GC and any Shimadzu LC-MS mass spectrometer.

From highly non-polar to extremely polar compounds, while easily working with virtually any separation technique, SICRIT® brings completely new dimensions to modern mass spectrometry.

