Agilent Solutions to Accelerate Metabolomics Research

Agilent has a long history in metabolomics research dating back to the first international Metabolomics Society meeting in 2004. This presentation will review Agilent’s comprehensive portfolio for metabolomics and discuss some of the latest Agilent innovations for metabolomics analysis.

A New LC/QTOF Platform for Metabolomics Analysis

Successful metabolomics analysis relies on advances in analytical measurements, specifically LC/MS. Agilent has been designing and selling bench top LC/MS systems since 1995. This presentation will review the latest Agilent LC/Q-Tof and how it enhances metabolomics analysis.

Agilent Lipidomics Workflows - Lipid Profiling to Achieve Greater Insight

Shotgun lipidomics is a well-established infusion-based technique designed to rapidly yield quantitative lipid class data on a small number of lipids using class internal standards. This talk will focus on new workflows for profiling lipidomics and the benefit of lipid separation to lipidomics research.

Metabolomics Changes Involved in C2C12 RatMyoblast Differentiation into Myotubes

Metabolomics analysis can be divided into discovery or targeted analysis. The intent of this talk is to highlight the power of collecting untargeted data (LC/Q-TOF) and examining it using a pathway hypothesis and targeted data analysis. The talk will show a pathway targeted approach can be used to simplify the data analysis and get results faster.

Metabolomic Flux Analysis- Exploring KRAS or EGFR Oncogenic Mutations in NSCLC Cell Lines

Metabolomics is a powerful technique for understanding biological systems by measuring the abundance of metabolites, however, this approach gives only a static view of metabolism. This presentation will show how measuring flux can give insight that is not achievable with conventional metabolomics approaches.

Bravo Metabolomics Sample Prep Platform - Automating Plasma Sample Prep

Plasma metabolomics has been of increasing research interest because it is a readily available biofluid and amenable to large translation studies. Manually performing sample preparation in such studies is impractical due to both the time commitment and the greater possibility of errors. This presentation will discuss a new automated sample preparation solution designed for plasma metabolomics.

Enhancing the Metabolomics Workflow with Functional, Real-Time, Live-Cell Analysis

Metabolomics has long been the standard in deriving detailed, comprehensive metabolite flux analysis. Although sensitive and specific, metabolic flux analysis provides a single snapshot in time potentially missing windows of insight. The Agilent Seahorse XF platform provides a real-time, kinetic quantification of glycolytic and mitochondrial function, delivering functional pathway information within a few hours. This analysis is ideally suited to both inform downstream metabolic flux experiments or confirm flux data. This talk will demonstrate the Seahorse XF Analyzer platform is a perfect complement to accelerate metabolic analysis.