

AGILENT WEBINAR

ACCELERATED DATA WORKFLOWS FOR BIOMARKER DISCOVERY IN METABOLOMICS: CLINICAL RESEARCH APPLICATIONS IN CYSTIC FIBROSIS RESEARCH

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LIVE WEBINAR

Date: June 14, 2017

Location: Your desktop

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9:00 a.m. EST / 6:00 a.m. PST /
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Accelerated Data Workflows for Biomarker Discovery in Metabolomics: Clinical Research Applications in Cystic Fibrosis Research

Comprehensive metabolite profiling (i.e., metabolomics) offers a holistic approach for understanding the phenotype of an organism on a molecular level that is closely associated with clinical research outcomes. However, low sample throughput and complicated data processing remain major bottlenecks to biomarker discovery in clinical-based metabolomics research. Recent progress towards characterization of the sweat metabolome of screen-positive cystic fibrosis infants, as well as identification of new markers of CF in asymptomatic neonates will be discussed in support of universal newborn screening programs. Multi-segment injection-capillary electrophoresis-mass spectrometry (MSI-CE-MS) offers a cost-effective approach for greatly expanding the productivity of MS-based chemical analyses while offering an accelerating data workflow for biomarker discovery in metabolomics.

Webinar participants will learn about the following topics:

- What is metabolomics?: Non-targeted metabolite profiling for discovery-based research in clinical medicine
- What is in human sweat?: Using CE-MS-based metabolomics for comprehensive characterization of volume-restricted biospecimens
- Beyond sweat chloride: How can sweat biomarkers improve diagnostic testing and/or treatment monitoring of cystic fibrosis patients?



Presented by:

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