



The Association for

Mass Spectrometry: Applications to the Clinical Lab

MSACL 2018 | 10th Annual Conference & Exhibits | Palm Springs, CA
January 21 - 25, 2018
BOOTH #41-42

Come by the Waters booth and talk with us about how you can integrate LC-MS technologies along the entire research continuum from discovery to clinical research.

If your focus is in the clinical lab we have a complete LC-MS workflow to assist you from sample to result.

See how - and pick up your free pair of safety glasses - by visiting Waters at MSACL.

■ SCIENTIFIC POSTERS

TUESDAY AT 7:00PM

#40A Charge Wars of Ion Suppression - Awakening the Force for the Analysis of Estrogens in Clinical Research

Robert Wardle, Waters Corp

WEDNESDAY AT 10:00AM

#29A A Comprehensive Method for Analysis of Pain Management Drugs Employing Simplified and Rapid LC-MS/MS Workflow for Clinical Research

Jonathan Danaceau, Waters Corp

THURSDAY AT 10:00AM

#33C Meeting the Challenges of Large Molecule Bioanalysis: Demonstration of an Automated & Standardized, Kit-based Workflow for LC-MS/MS Protein Quantification

Keil Brinster, Waters Corp

THURSDAY AT 12:30PM

#10A Increasing Throughput for High Analytical Sensitivity Bioanalysis of Human Insulin and its Biotherapeutic Analogs Using Microflow LC-MS/MS for Clinical Research

Andrew Peck, Waters Corp

#14A LC-MS/MS Quantification of Intact Insulin Like Growth Factor-I (IGF-I) from Serum for Clinical Research

Khalid Khan, Waters Corp

#14D UPLC-MS/MS Analysis of Oncology Drugs in Plasma for Clinical Research

Stephen Balloch, Waters Corp

#16A How Low Can Your Clinical Research Method Go For The Analysis of Serum Estrogens?

Robert Wardle, Waters Corp

#18A A Single High-Throughput UPLC-MS/MS Platform for Targeted Metabolomic, Lipidomic and Proteomic Studies (Targeted Multi-OMICS)

Billo Molloy, Waters Corp

■ PODIUM PRESENTATION - Thursday 11:40 AM

Track 6 - New Developments and Technologies Room 6

Optimised Desorption Electrospray Ionisation mass Spectrometry Imaging (DESI-MSI) Method for the Analysis of Proteins/Peptides Directly from Tissue Sections

Emmanuelle Claude

■ WORKSHOPS - Wednesday and Thursday

Wednesday, January 24 7:00 - 7:45 AM Room 4

It's all about the Base: How much Simpler, Cleaner and Faster can Mixed Mode Ion Exchange SPE Methods get?



Presenter: Kim Haynes, Principal Product Marketing Manager, Chemistry Technology Center

Mixed-mode ion exchange solid phase extraction (SPE) is an extremely powerful sample cleanup tool when higher degrees of analyte specificity and sample cleanliness are required. However, these methods are often associated with extra method development time and complicated processes. In this seminar we will explore the compromise scientists have had to make between analyte specificity, sample cleanliness and simple workflows. We will then introduce an easy-to-implement solution to this problem using a new solid phase extraction product recently developed by scientists at Waters Corporation. Finally, we will demonstrate how this new product simplifies workflows, reduces method development and processing time, while improving sample cleanliness in applications.

Wednesday, January 24 8:00-8:45AM Room 4

Measurement of Eicosanoids and their Urinary Metabolites using Mass Spectrometry



Presenter: Ginger L. Milne, Ph.D., Research Associate Professor, Director, Eicosanoid & Neurochemistry Core Laboratories, School of Medicine, Vanderbilt University

Eicosanoids are important signaling molecules central to many critical physiological processes such as inflammation, pregnancy and childbirth, and cardiovascular function. Dysregulation of eicosanoid production has been implicated in a number of diseases such as oncology, metabolic syndrome, and cardiovascular disease. Derived by the enzymatic or non-enzymatic oxidation of arachidonic acid or other 20 carbon length polyunsaturated fatty acids (PUFAs), eicosanoids are challenging to quantitatively measure due to their inherent structural and chemical similarities. This workshop will demonstrate how targeted mass spectrometry workflows are key to accurate and precise measurement of eicosanoids for clinical research and why they are required to further biomedical research of these important class of biochemicals.

Thursday, January 25 8:00-8:45AM Room 4

Automation and Integration of LC/MS/MS Assays into the Workflow of a Clinical Laboratory



Presenter: Dr. Emma Walker, FRCPath, Consultant Clinical Scientist, Imperial College, Charing Cross Hospital, London, UK

LC-MS/MS has been utilised in the clinical laboratory for approximately two decades and offers increased specificity over more traditional immunoassay based techniques. Widespread adoption of this technique has been hindered as a result of the high capital cost of the equipment, need for highly trained laboratory personnel and the often labour intensive sample preparation required. Automation of sample preparation and interfacing of the LC-MS/MS system to the laboratory information system has the potential to reduce staff time and increase sample throughput. The options available to improve automation and to integrate LC-MS/MS into the workflow of the clinical laboratory will be discussed, including the steps that we have taken within the laboratory at Charing Cross hospital.

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