APHL™ LEARNING CENTER

WEBINAR SERIES

Why HRMS Is Right for Your Laboratory

Part 1: HRMS 101 June 11, 2025 | 1:00 – 2:30 pm ET — Course # 588-621-25
Part 2: HRMS Method Development and Data Processing June 18, 2025 | 1:00 – 2:30 pm ET — Course # 588-622-25
Part 3: HRMS In Action June 26, 2025 | 2:00 – 3:30 pm ET — Course # 588-623-25

DESCRIPTION

High Resolution Mass Spectrometry (HRMS) enables chemists to potentially identify thousands of chemicals in a sample by more accurately measuring the mass of individual compounds. Consequently, HRMS instruments may provide state and local laboratories an opportunity to improve their ability to identify suspect and unknown chemicals in the environment, food and clinical samples. In addition, as instrument costs decrease, data processing workflows improve, and spectral libraries continue to grow, HRMS technology is increasingly accessible for state and local laboratories seeking to keep pace with ever-evolving public health questions.

Join this 3-part webinar series to learn about HRMS fundamentals, testing approaches including suspect screening, semi-targeted, and non-targeted analysis and practical information to manage and process the powerful but often large amount of HRMS data. Presenters will provide examples of how they implemented HRMS in their laboratories for the analysis of PFAS compounds in drinking water, drugs of misuse in clinical specimens and drug products and harmful contaminants in consumer products.

AUDIENCE

State, territorial and local public health, environmental and agricultural laboratories, governmental agencies and federal partners.

OBJECTIVES

After completing this webinar series the participant will be able to:

- Identify the benefits and limitations of HRMS
- Distinguish between the various methods for HRMS
- Discuss examples of HRMS being used in public health laboratories

ACCESSIBILITY

In compliance with the Americans with Disabilities Act, individuals seeking special accommodations must email a request to Sydney Comet (sydney.comet@aphl.org) prior to the live webinar. Closed captions will be available with the webinar recording.

ENROLL FOR FREE

Enrollment for Part 1, Part 2 and Part 3 is required to access the live webinars. If you need assistance with enrollment, send us an email. To participate in this live webinar, log in to the APHL Learning Center (ALC) and follow these instructions. If accessing the APHL Learning Center (ALC) for the first time, create a free APHL account.

Continuing Education
The Association of Public Health Laboratories (APHL) is approved as a provider of continuing education programs in the clinical laboratory sciences by the ASCLS P.A.C.E.® Program. P.A.C.E.® is accepted by all licensure states except Florida. This learning activity will provide 1.5 contact hours per webinar for the participant who successfully completes this training.

Level of Instruction:

- **BASIC:** Entry level; no prior knowledge of the subject is necessary.

LEARN MORE

For more information about this webinar, please email webinars@aphl.org.

By registering for this event, you are consenting to have your information shared with APHL event collaborators, such as the Centers for Disease Control and Prevention and Public Health Laboratories. We will not, in any circumstances, share your information with other individuals or organizations without your permission, including corporations or individuals, except when applicable by law. We do not sell, communicate or divulge your information to any mailing lists.

This webinar is supported by Cooperative Agreement number NU600E000104 funded by the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention or the Department of Health and Human Services, or APHL and member laboratories. This project was 100% funded with federal funds from a federal program of $1,379,661.

APHL | LEARNING CENTER

WEBINAR SERIES

Why HRMS Is Right for Your Laboratory

Part 1: June 11, 2025 | 1:00 – 2:30 pm ET Course # 588-621-25
Part 2: June 18, 2025 | 1:00 – 2:30 pm ET Course # 588-622-25
Part 3: June 26, 2025 | 2:00 – 3:30 pm ET Course # 588-623-25

PART 1: HRMS 101 | June 11, 2025

OBJECTIVES

After completing this webinar series the participant will be able to:

- Describe key concepts of HRMS technology
- Identify potential uses of HRMS within their own laboratory
- Compare advantages and disadvantages of HRMS to traditional tandem mass spectrometry

SPEAKERS

Presenters

- **Mike Filigenzi,** laboratory manager, Toxicology Section, California Animal Health and Food Safety Laboratory, UC Davis (formerly)
- **James McCord,** PhD, research chemist, United States Environmental Protection Agency

PART 2: HRMS METHOD DEVELOPMENT AND DATA PROCESSING | June 18, 2025

OBJECTIVES

After completing this webinar series the participant will be able to:

- Describe the method development and validation process for HRMS
- Distinguish HRMS instrumentation types
- Explain differences between suspect screening, semi-targeted, and non-targeted testing techniques and the data they generate

SPEAKERS

Presenters

- **Mike Filigenzi,** laboratory manager, Toxicology Section, California Animal Health and Food Safety Laboratory, UC Davis (formerly)
- **James McCord,** PhD, research chemist, United States Environmental Protection Agency

PART 3: HRMS IN ACTION | June 26, 2025

OBJECTIVES

After completing this webinar series the participant will be able to:

- Identify at least three examples of how HRMS technology has been used in public health laboratories
- Explain the decision-making process of determining whether to use HRMS or not for a particular scenario
- Describe how HRMS data can be useful for public health partner interventions

SPEAKERS

Presenters

- **Mike Filigenzi,** laboratory manager, Toxicology Section, California Animal Health and Food Safety Laboratory, UC Davis (formerly)
- **Jason Peterson,** MS, chemical threats and biomonitoring supervisor, Minnesota Department of Health
- **Sinisa Urban,** PhD, division chief, Division of Environmental Sciences, Maryland Department of Health Laboratories Administration

SERIES MODERATOR

Stefan Saravia, MPH, CIH, environmental laboratory manager, Minnesota Department of Health