

Molecular Methods for Public Health Laboratories

October 27-29, 2009

Atlanta, GA

Sponsored by
National Laboratory Training Network
A Public Health Series Workshop



Description

Traditional molecular methods are still the fundamental piece of the public health laboratory. However, new trends in molecular technology are at the forefront. This in-depth workshop will explore traditional and novel molecular methods used in the public health laboratory. Discussions of testing algorithms will allow participants to collaborate and network with agent specific subject matter experts. Topics to be covered include RT-PCR and genomic sequencing design. The program will be comprised of didactic lectures, “hands-on” interactive laboratory case study analysis, and roundtable discussion groups.

Location

Centers for Disease Control and Prevention
Atlanta, GA

Objectives

At the conclusion of this program, the participants will be able to:

- design and optimize RT-PCR assays.
- describe how to adapt molecular assays to a variety of sequencing platforms.
- discuss specific molecular assays, technology, and future trends with subject matter experts.

Audience

This intermediate-level program is intended for laboratorians proficient in basic design and development of molecular assays. Participants must have basic knowledge of RT-PCR and sequencing theory and techniques.

Continuing Education

Continuing education credit for this activity is pending. See final announcement for specific details.

Application

Application Deadline: July 20, 2009

The preliminary application is to be completed online at www.nltm.org/app167-09.htm.

- If you are unable to complete the application online, notify the NLTN at 240-485-2727 or email anakay.yaghoubian@aphl.org. Only completed applications received by the deadline will be considered.
- This course is open to laboratory personnel with preference given to laboratorians working in public health laboratories. Public health applicants must be approved by their state or local laboratory director. Students will be selected according to the degree to which the applicant’s job description, experience, and responsibilities are consistent with the prerequisites. Application does not guarantee acceptance.
- Notification of acceptance status will be sent via email by August 7, 2009.
- For additional program information, email labworkshops@aphl.org.

Registration Fee: \$550.00 (payable to APHL)

Participants are responsible for lodging, meals and travel costs. Registration, payment, and logistical details will be provided upon acceptance into the course. Please do not make travel arrangements until you are notified of acceptance into course. Lodging will be available adjacent to the CDC at a cost of approximately \$141.00 (plus tax and fees) per night.

Special Needs

Individuals seeking special accommodations should submit their request in writing to anakay.yaghoubian@aphl.org. Please allow sufficient time for NLTN to make arrangements, which is normally at least three weeks prior to start date of the course. For more information call 1-800-536-NLTN (6586).

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Preliminary Agenda

Tuesday, October 27, 2009

- 1:00 p.m. Welcome and Introductions
- 1:15 Pre-test
- 1:30 Design and Optimization of RT PCR
- 2:30 Break (provided)
- 2:45 Primers & Probes Assay Design
- 3:45 Strategies and Processes for Adapting An Assay to a New Platform
- 4:45 Discussion/Q&A
- 5:00 Adjourn

Wednesday, October 28, 2009

- 8:00 a.m. PCR Case Studies
- 9:30 Break (provided)
- 9:45 PCR Case Studies (cont.)
- 11:45 Lunch (on your own)
- 1:00 p.m. Genotyping and Sequence Analysis, Part 1
- 2:00 Discussion/Q&A
- 2:15 Break (provided)
- 2:30 Genotyping and Sequence Analysis, Part 2
- 4:30 Discussion/Q&A
- 5:00 Adjourn

Thursday, October 29, 2009

- 8:00 a.m. Subject Matter Expert (SME) Panel Discussion of Molecular Topics
- 9:15 Break (provided)
- 9:30 SME Round Table Rotation
- 11:30 Lunch (on your own)
- 12:30 p.m. SME Round Table Rotation (cont.)
- 2:30 Break (provided)
- 2:45 Reconvene SME Panel for Final Q&A
- 4:15 Post test and Evaluation
- 5:00 Adjourn

Faculty

Karen McCaustland, BS

Consultant, Specialist in Real-Time Assay Development

Timothy Read, PhD

Associate Professor, School of Medicine, Emory University, Atlanta, GA

Invited Faculty

Centers for Disease Control and Prevention, Atlanta, GA
SME's from various disciplines within the CDC will be invited to participate in the SME Panel Discussion of Molecular Topics.

Security Clearance Requirements

This course will be held at the training laboratory on the CDC Clifton Road campus. Due to CDC requirements for security clearance, all **non-US citizens** will be asked to provide information needed to obtain clearance. **IF YOU ARE A NON-US CITIZEN please contact Gwen Barnett at gnb3@cdc.gov or 404-498-6433** to obtain information needed to complete this on-line form **no later than October 9, 2009**. You will receive an email from the CDC with a web link to the on-line security form. The information you provide will only be used for the purposes of attending this course. If you cannot provide this information, are unwilling to provide this information, or do not get the information to the CDC by the deadline, your security clearance request will be denied and you will not be able to attend the course.

Questions?

Please contact Ana Kay Yaghoubian, Course Logistics Assistant, by email at anakay.yaghoubian@aphl.org.