

Laboratory Identification of Emerging Pathogenic Molds – Advanced

May 14-16, 2019

Centers for Disease Control | Atlanta, GA

Sponsored by the Association of Public Health Laboratories and the Mycotic Diseases Branch, Division of Foodborne, Waterborne and Environmental Disease, National Center for Emerging and Zoonotic Infectious Diseases, Centers for Disease Control and Prevention



DESCRIPTION

This advanced-level, hands-on workshop in the identification of medically important molds will cover a range of organisms commonly isolated from superficial, subcutaneous, and systemic infections of humans as well as a number of common laboratory contaminants. This workshop will include both lecture and laboratory components and is intended to build upon previously offered workshops. A larger variety of organisms will be presented which may be more challenging to identify. These organisms will include aleuriosporic molds, molds with enteroblastic conidia, molds with holoblastic conidia, and mucormycetes and miscellaneous molds. Methods for Molecular-based identification and susceptibility testing will also be discussed.

AUDIENCE

This advanced-level workshop is intended for persons who have some mycology experience and who identify a wider range of unusual and emerging molds of medical importance. These persons include public health laboratorians, clinical laboratory microbiologists, medical technologists, infectious disease physicians, and pathologists.

OBJECTIVES

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

- Explain the classification and identification of molds based upon their macroscopic and microscopic characteristics.
- Identify the following fungi using the provided key and strategies:
 - Blastomyces dermatitidis, Histoplasma capsulatum, and similar aleuriosporic molds, including Chrysosporium and Sepedonium spp.
 - Common and uncommon dermatophytes.
 - A wide range of common and less common molds that form enteroblastic conidia, including Aspergillus, Sarocladium, Fusarium, Exophiala, Penicillium, Phaeoacremonium, Phialophora, and Scedosporium spp.
 - A wide range of common and less common molds that form holoblastic conidia, including Bipolaris, Exserohilum, Cladophialophora, Curvularia, Verruconis, and Rhinocladiella spp.
 - A wide range of mucoraceous molds, including Lichtheimia, Rhizopus, Apophysomyces, Cokeromyces, Saksenaea, and Syncephalastrum spp.

APPLICATION to ATTEND

Application Deadline: February 5, 2019

- The preliminary application is to be completed online at <https://www.surveymonkey.com/r/102-19AdvMycApp>
- Only completed applications received by the deadline will be considered. Application does not guarantee acceptance.
- If you are unable to complete the application online, email Marisa Barley at marisa.barley@aphl.org or phone 240.485.3843.
- Public health applicants must have approval from their state or local laboratory director to apply. Students will be selected according to the degree to which the applicant's job description, experience, and responsibilities are consistent with the prerequisites. Priority will be given for one applicant per public health laboratory, with a second person considered on a space available basis.
- Notification of acceptance status will be sent via email after February 12, 2019.

REGISTRATION

- **Registration for this workshop is being offered at No Charge to the participants!**
- Registration and logistical details will be provided upon acceptance into the course.

TRAVEL

- All travel and logistical details will be provided upon acceptance into the workshop.
- Participants are responsible for all lodging, meals, and travel costs.
- A group lodging discount is being negotiated at the current federal per diem rate of \$152.00 (plus tax and fees) per night.
- Transportation between the hotel and CDC will be provided.

SPECIAL NEEDS

In compliance with the Americans with Disabilities Act (ADA), individuals seeking special accommodations should submit their request in writing to Marisa Barley, APHL Customer Support at marisa.barley@aphl.org, at least three weeks prior to the start date of the workshop.



The Association of Public Health Laboratories (APHL) sponsors educational programs on critical issues in laboratory science.

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PRELIMINARY AGENDA

Day 1 Tuesday, May 14, 2019

- 7:30 am Welcome and Course Overview
- 7:45 Safety in the Training Lab
- 8:00 **Lecture:** Introduction to Mold Identification
- 9:15 **Lecture:** Introduction to Yeasts
- 10:00 Break
- 10:15 **Lecture:** Arthrosporic and Aleuriosporic Molds (Endemics and dermatophytes)
- 11:30 Lunch (on your own at a CDC cafeteria)
- 12:45 pm **Laboratory:** Arthrosporic and Aleuriosporic Molds (Endemics and dermatophytes)
- 2:00 Break
- 2:15 **Lecture:** Molds with Enteroblastic Conidia (*Aspergillus*, *Penicillium*)
- 3:30 **Laboratory:** Molds with Enteroblastic Conidia (*Aspergillus*, *Penicillium*)
- 5:00 Adjourn

Day 2 Wednesday, May 15, 2019

- 8:00 am **Lecture:** Molds with Enteroblastic Conidia (*Fusarium*, *Scedosporium*, *Phialophora*)
- 9:30 Break
- 9:45 **Laboratory:** Molds with Enteroblastic Conidia (*Fusarium*, *Scedosporium*, *Phialophora*)
- 11:00 **Lecture:** Molds with Holoblastic Conidia (*Curvularia*, *Bipolaris*, *Exserohilum*)
- 12:00 pm Lunch (on your own at a CDC cafeteria)
- 1:00 **Laboratory:** Molds with Holoblastic Conidia (*Curvularia*, *Bipolaris*, *Exserohilum*)
- 2:30 Break
- 2:45 **Lecture:** Mucormycetes and Miscellaneous Molds (*Rhizopus*, *Mucor*, *Lichtheimia*)
- 3:45 **Laboratory:** Mucormycetes and Miscellaneous Molds (*Rhizopus*, *Mucor*, *Lichtheimia*)
- 4:45 Adjourn

Day 3 Thursday, May 16, 2019

- 8:30 am **Lecture:** Case Histories
- 9:45 Break
- 10:00 **Lecture:** Molecular-Based Identification of Molds
- 11:00 **Lecture:** Antifungal Susceptibility Testing
- 11:45 Lunch (on your own at a CDC cafeteria)
- 1:00 pm **Laboratory:** Antifungal Susceptibility Testing Demonstration
- 1:00 **Laboratory:** Unknowns
- 3:00 Review Unknowns & Final Question/Answer
- 3:30 Evaluation
- 4:00 Adjourn

FACULTY

Mycotic Diseases Branch (MDB), CDC, Atlanta, GA

- Shawn Lockhart, PhD, D(ABMM), Director, Fungal Reference Laboratory
- Mark Lindsley, ScD, D(ABMM), Microbiologist, MDB
- Ana Litvintseva, PhD, Team Lead, Mycology Research Unit
- Elizabeth Berkow, PhD, Microbiologist, MDB
- Rory Welsh, PhD, Microbiologist, MDB

INVITED FACULTY

- Karin L. McGowan, PhD, F(AAM), MS, SM(NRCM)

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. Participants who successfully complete this program will be awarded 20.5 contact hours.

This course has been approved for 20.5 contact hours in the category (*Microbiology/Mycology/Parasitology*) for Florida Laboratory Licensees.

NOTE: CDC SECURITY CLEARANCE REQUIREMENTS

NON-US CITIZENS - This course will be held at the CDC Roybal campus. Due to CDC requirements for security clearance, all non-US citizens will be asked to provide information needed to obtain clearance, which will only be used for the purposes of attending this course. Detailed instructions will be provided upon acceptance into the course. Please do not make any nonrefundable travel plans until you have received confirmation of acceptance into the course and security clearance approval.

US CITIZENS - If you are a US CITIZEN there is no extra clearance process required.



This training was supported by Cooperative Agreement #5NU60HM000803-03 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 CDC or the Department of Health and Human Services. This project was 100% funded with federal funds.