



# 2018 TRAINING NEEDS ASSESSMENT

## SUMMARY FOR ENVIRONMENTAL HEALTH PROGRAM

In 2018, APHL conducted an online survey to update their laboratory training offerings and to better understand the training needs of its public health laboratory (PHL) members and associates. The survey received 892 responses, 65% of which came from PHLs. In this training needs assessment (TNA), the laboratory supervisors were asked to select topics they felt were critical needs for their staff, and each individual respondent was asked to select their most desired training needs. The training topics categorized into four groups: Scientific/Technical, Technology, Management, and Leadership and Personal Development.

The analyzed data from the TNA outline three sets of the “top ten” selected critical training needs identified for the staff of PHLs. It presents the significant interest of respondents in receiving the training contents in forms of either workshops or webinars. This report has been customized to highlight the mentioned sets of critical training needs to which APHL’s Environmental Health program can contribute.

### Top 10 Trainings Selected by Supervisors for Themselves

| Rank | Category             | Selected Training  |
|------|----------------------|--|
| 1    | Scientific/Technical | Bioinformatics - Application in public health laboratory |
| 2    | Scientific/Technical | Bioinformatics - Data analysis                           |
| 3    | Scientific/Technical | Emergency Preparedness - Emerging pathogen preparedness  |
| 4    | Scientific/Technical | Bioinformatics - Basics                                  |
| 5    | Scientific/Technical | Information Systems - Electronic data exchange           |
| 6    | Scientific/Technical | Information Systems - Laboratory informatics             |
| 7    | Scientific/Technical | Bioinformatics - Application in clinical laboratory      |
| 8    | Scientific/Technical | Information Systems - Data analysis                      |
| 9    | Scientific/Technical | Information Systems - Digital tools                      |
| 10   | Scientific/Technical | Environmental - Instrument training                      |

### Top 10 Trainings Selected by Supervisors for Their Staff

| Rank | Category             | Selected Training  |
|------|----------------------|--|
| 1    | Scientific/Technical | Bioinformatics - Application in public health laboratory |
| 2    | Scientific/Technical | Bioinformatics - Data analysis                           |
| 3    | Scientific/Technical | Bioinformatics - Basics                                  |
| 4    | Scientific/Technical | Emergency Preparedness - Emerging pathogen preparedness  |
| 5    | Scientific/Technical | Information Systems - Laboratory informatics             |
| 6    | Scientific/Technical | Bioinformatics - Application in clinical laboratory      |
| 7    | Scientific/Technical | Information Systems - Electronic data exchange           |
| 8    | Scientific/Technical | Information Systems - Laboratory automation              |
| 9    | Scientific/Technical | Emergency Preparedness - MALDI-TOF                       |
| 10   | Scientific/Technical | Emergency Preparedness - Rule-in/Rule-out                |

### Top 10 Trainings Selected by Non-Supervisors for Themselves

| Rank | Category             | Selected Training  |
|------|----------------------|--|
| 1    | Scientific/Technical | Bioinformatics - Application in public health laboratory |
| 2    | Scientific/Technical | Emergency Preparedness - Emerging pathogen preparedness  |
| 3    | Scientific/Technical | Bioinformatics - Data analysis                           |
| 4    | Scientific/Technical | Emergency Preparedness - Sentinel bioterrorism           |
| 5    | Scientific/Technical | Information Systems - Laboratory informatics             |
| 6    | Scientific/Technical | Bioinformatics - Basics                                  |
| 7    | Scientific/Technical | Information Systems - Electronic data exchange           |
| 8    | Scientific/Technical | Emergency Preparedness - Chemical threat agents          |
| 9    | Scientific/Technical | Emergency Preparedness - Rule-in/Rule-out                |
| 10   | Scientific/Technical | Information Systems - Data analysis                      |

**Program Information:** catherine.johnson@aphl.org

**Technical Information:** sudaba.parnian@aphl.org

## Association of Public Health Laboratories

The Association of Public Health Laboratories (APHL) works to strengthen laboratory systems serving the public's health in the US and globally. APHL's member laboratories protect the public's health by monitoring and detecting infectious and foodborne diseases, environmental contaminants, terrorist agents, genetic disorders in newborns and other diverse health threats.

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8515 Georgia Avenue, Suite 700

Silver Spring, MD 20910

Phone: 240.485.2745

Fax: 240.485.2700

[www.aphl.org](http://www.aphl.org)

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