



# 2018 TRAINING NEEDS ASSESSMENT

## SUMMARY FOR INFORMATICS 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 Informatics 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	Bioinformatics - Basics
4	Scientific/Technical	Information Systems - Electronic data exchange
5	Technology	Informatics - Analyzing and managing data from non-targeted analyses
6	Technology	Informatics - Electronic data exchange
7	Technology	Informatics - Big data
8	Technology	Informatics - Digital tools
9	Technology	Informatics - Biomonitoring data
10	Technology	Informatics - Artificial intelligence

### 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	Information Systems - Laboratory informatics
5	Technology	Informatics - Electronic data exchange
6	Technology	Informatics - Analyzing and managing data from non-targeted analyses
7	Technology	Informatics - Digital tools
8	Technology	Informatics - Big data
9	Technology	Informatics - Biomonitoring data
10	Technology	Informatics - Opioids surveillance

### 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	Bioinformatics - Data analysis
3	Scientific/Technical	Information Systems - Laboratory informatics
4	Scientific/Technical	Bioinformatics - Basics
5	Technology	Informatics - Electronic data exchange
6	Technology	Informatics - Analyzing and managing data from non-targeted analyses
7	Technology	Informatics - Digital tools
8	Technology	Informatics - Biomonitoring data
9	Technology	Informatics - Big data
10	Technology	Informatics - Opioids surveillance

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## 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.

This publication is supported by Cooperative Agreement #U600E000103 funded by the Centers for Disease Control and Prevention (CDC). 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 is 100% funded with federal funds.



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