



Department
of Health



Cornell **CALS**
College of Agriculture and Life Sciences

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NY CoE Epi Trainings Toolkit *Resources for epi/EH staff who investigate enteric disease clusters*

Molecular Epidemiology and Sequencing Approaches in Public Health

<https://nyfoodsafety.cals.cornell.edu/molecular-epidemiology/>

These online molecular epidemiology trainings were developed through a collaboration with the CDC and the CDC Integrated Food Safety Centers of Excellence. This project is a multi-pronged approach to deliver training on whole genome sequencing (WGS) to health department and agriculture department staff who use WGS data for foodborne disease surveillance and outbreak investigations. The training includes four online [modules](#) that provide foundational knowledge on WGS, and four [webinars](#) on basic genomic principles.

Whole Genome Sequencing for Laboratorians and Epidemiologists Live Learning Series

<https://nyfoodsafety.cals.cornell.edu/training/whole-genome-sequencing-laboratorians-and-epidemiologists-live-learning-series/>

The Whole Genome Sequencing for Laboratorians and Epidemiologists Live Learning Series is targeted towards laboratorian-epidemiologist teams (from the New York and Colorado Integrated Food Safety Center of Excellence regions) with a focus on WGS workflow, basics on BioNumerics resources and use of case studies to illustrate pathogen thresholds, cluster identification and resource prioritization.

wgMLST Student Activity

<https://nyfoodsafety.cals.cornell.edu/training/wgmlst-activity/>

The New York Integrated Food Safety Center of Excellence developed this activity to provide public health staff and students of public health with an understanding of how whole genome sequencing and whole genome multi locus sequence typing functions as a subtyping model.

Epi-Ready Team Training: Foodborne Illness Response Strategies

<https://www.cste.org/page/foittm?&terms=foodborne+and+materials>

**review of PowerPoint slides (for sections of interest) may be useful*

The Epi-Ready course is a team-based training for public health professionals involved in foodborne disease outbreak investigations. Coordinated by the National Environmental Health Association (NEHA) and funded by CDC, it is a two day, in-person training. Epi-Ready focuses on how to efficiently and effectively respond to a foodborne disease outbreak using a "team-based" approach, bringing together the disciplines involved in the investigation of these outbreaks (i.e., environmental health specialists/sanitarian, epidemiologists, laboratorians, and public health nurses).

Pining for a Common Source, a Foodborne Illness Outbreak Investigation: Table Top Exercise

<https://nyfoodsafety.cals.cornell.edu/training/case-studies/>

This case study, developed by the New York Integrated Food Safety Center of Excellence, was adapted from an actual Salmonella investigation initiated by the New York State Department of Health in 2011, heralding a multistate outbreak associated with a novel vehicle. The case study is designed to be completed as a self-paced individual activity or as a moderated small group table top exercise.

Interviewer Training Resources

- **Interviewer Orientation Packet** utilized at the NYSDOH for student interview teams; if interested in receiving a copy, please contact the NY CoE
- **Outbreak (*Interviewing Skills*) response training**
<https://coloradosph.cuanschutz.edu/research-and-practice/centers-programs/foodsafety/trainings/student-outbreak-response-training>
*review of PowerPoint slides (for sections of interest) may be useful
This course, designed by the Colorado Food Safety Center of Excellence (and adapted by the NY CoE), introduces participants to foodborne disease outbreak investigations and provides training on effective interview techniques.

Recorded Webinars

- **Interviewing Food Workers During an Outbreak Investigation**
<https://www.youtube.com/watch?v=dXogi737jXM&t=287s>
- **Using the NCBI Pathogen Detection Pipeline as part of the Epi Work Flow**
<https://vimeo.com/657580470/de0cf5786a>
- **Using the NCBI Pathogen Detection Portal to Aid in Surveillance of Enteric Pathogens Webinar** <https://www.aphl.org/conferences/proceedings/Documents/2017/NLTC-9/NCBI%20Pathogen%20Browser-20180307.mp4>
- **The Use of Whole Genome Sequencing During Foodborne Outbreak Investigations**
<https://meetny.webex.com/meetny/ldr.php?RCID=da973a692754a8b3bf60587cfe9b4988>
- **Using Epi Info Templates to Build Questionnaires**
<https://meetny.webex.com/recordingservice/sites/meetny/recording/82ebfdf5e244412aba50df66fa23bafb/playback>

For a full listing of NY CoE resources, access the NY CoE website at:
https://nyfoodsafety.cals.cornell.edu/about
To contact the NY CoE for assistance, send an email to:
paula.pennell-huth@health.ny.gov
All-CoE products and trainings available at:
https://foodsafetycoe.org/