



IIAD International Laboratory Training Program

Overview

The IIAD International Laboratory Training Program consists of face-to-face, online, and independent study courses. The program includes nine modules, and provides trainees with foundational information and skills to support veterinary diagnostics. The information is presented in a series of PowerPoint presentations with speaker notes, exercises, activities, and evaluation materials. Available courses include Laboratory Management and Introduction to Bioinformatics.

Laboratory Management Short Course

For mid- and senior-level veterinary laboratory diagnosticians, this two-week short course provides an overview of executive laboratory management. The course is intended to provide foundational information and skills to support laboratory management. Topics are taught face-to-face or through video recorded online lectures.

The course includes 34.5 hours of lectures, exercises, evaluation materials, and answer sheets. Topics covered include:

- Laboratory Organization
- Human Resource Management
- Communication
- Financial Management
- Operational Management
- Building Laboratory Networks (available 8/1/2016)

Duration

- U.S. laboratory training: 2 weeks
- U.S. and in-country scientific exchanges: 8-12 weeks

Introductory Bioinformatics Short Course

Bioinformatics combines the disciplines of statistics, computer science, and biological sciences to enable researchers to understand, analyze, and interpret biological data. The Bioinformatics Short Course provides a concise overview of bioinformatics using avian influenza as a model for presentations, exercises, experiential learning, and other activities. A five module course for U.S. and in-country training activities provides mid-career international veterinary scientists with foundational skills for the interpretation of bioinformatics information. Topics are taught face-to-face or through video recorded online lectures.

The course includes 40 hours of lectures, exercises, and evaluation materials. All participants will receive printed study materials and answer sheets. Topics include:

- Phylogenetics of Animal Pathogens
- Basic Local Alignment Search Tool and Multiple Sequence Alignment Programs
- Influenza A Virus and Public Databases
- Sequence Alignment and Genetic Diseases
- Influenza A Virus Phylogenetics 101

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