

Online course

MOSQUITOES, PHLEBOTOMINE SAND FLIES AND TICKS MONITORING: TRAPS AND CAPTURE TECHNIQUES

Scientific Director

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A key element in the epidemiology of vector-borne diseases is the knowledge of arthropod vectors, involved in pathogen transmission. Staff involved in arbovirus surveillance therefore require to have basic knowledge of the biology, ecology, and distribution of arthropods of public health importance. The epidemiology of vector-borne diseases is rather complex but vector monitoring is equally challenging and requires various methods and tools. Here, monitoring refers to all procedures and techniques put in place to assess the occurrence, distribution and density of a vector in a given area.

Many training courses provide information on diseases, but only few focus their attention on vectors of pathogens. For this reason, this course takes a practical approach, focusing on the main techniques for monitoring the most common vectors: ticks, mosquitoes, and phlebotomine sand flies. Specifically, the aim of the course is to provide knowledge on how to plan sampling and which tools to use. The course will outline monitoring examples implemented primarily in Italy, but common to many European countries, and are applicable to temperate zones. The specific environmental and climatic conditions of tropical countries require other monitoring systems, which are not covered by this course.

RECIPIENTS	<ul style="list-style-type: none">• Agronomists• Health care workers• Biologists• Naturalists• Physicians• Veterinarians• Laboratory technicians• PhD students who deal with medical entomology-related studies
DURATION	3 HOURS
AVAILABILITY	12 months since subscription
LINK FOR REGISTRATION	https://learning.izsvenezie.it/

PROGRAMME

1 - INTRODUCTION

- Mosquitoes monitoring
- Phlebotomine sand fly monitoring
- Tick monitoring

DURATION : 1 hours

2 - TRAPS AND CAPTURE TECHNIQUES

- Ovitrap
- Larval sampling methods
- BG sentinel
- Gravid traps
- Mosquito magnet traps
- Animal bait traps
- CDC light traps
- CDC CO₂
- Human landing catches
- Hand-held or electric aspirators
- Sticky traps
- Dragging and flagging
- Other methods
- Game-based learning “Where are the vectors?”

DURATION : 2 hours

LEARNING TEST

An online multiple-choice test will be performed at the end of the course.

VERIFICATION OF PERCEIVED QUALITY

Filling in the satisfaction questionnaire.

USEFUL INFORMATIONS

OBJECTIVES

By the end of this course, the participants will be able to handle the monitoring tools used in mosquitoes, ticks and sand flies surveillance and will gain skills in vector control management.

TEACHING METHODS

The course includes online lessons and interactive games in support of education.

PREREQUISITES

The course does not require the possession of specific knowledge or skills.

TECHNICAL PREREQUISITES

You need a device like a computer, tablet or smartphone, an Internet connection and a browser updated to the latest version (Mozilla Firefox, Safari, Google Chrome). The use of Google Chrome is recommended.

REGISTRATION

To take the course you must access the website <https://learning.izsvenezie.it/> and register your profile.

FOR MORE INFORMATION



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