

## **4<sup>th</sup> EMCA TRAINING COURSE**

### **Location:**

University of the Balearic Islands

Guillem Colom Casasnoves building (Dep. Biology, Faculty of Sciences)

Laboratory of zoology (ground floor)

### **Part A: IDENTIFICATION OF NON-TARGET FAUNA IN TRAPPING**

**Objective:** to learn how to recognize or determine other insects collected in traps, including insects of medical and veterinary importance. Become aware of the importance of insects in the ecosystem.

### **Agenda**

**09:00- 09:45:** Presentation. Introduction of insects of medical and veterinary importance. Blood-sucking and non-blood sucking Diptera.

**09:45-11:00: Practicum** Identification in the laboratory

- Blood sucking Diptera: Mosquitoes, sand flies, black flies, biting midges, horse flies, horn flies, stable flies and flat flies
- Non-blood sucking Diptera: botflies, bowflies and fruit flies

**11:00-11:30** COFFEE BREAK

**11:30-12:00** Introduction of non-targeted insects or insects without medical and veterinary importance

**12:00-13:00 Practicum** Identification in the laboratory. Most common Diptera collected in traps

**13:00-14:00** LUNCH

### **Part B: TRAINING COURSE: MOSQUITO REARING AND REPELLENT TESTING**

**Objective:** to acquire the skills to perform the internationally approved method called the Arm-in-Cage test and to learn how to breed mosquitoes in laboratory conditions

### **Agenda**

**14:00- 14:30** Presentation. Brief Introduction about the arm-in-cage (AIC). Selection and preparation of the study participants (5 cages, 1 cage/group, 1 volunteer/group).

**14:30-15:30: Practicum** AIC test- Time 0

1- Introduction

2- Pest Control methods and Biocidal products Regulation

**15:30-16:00 Practicum** AIC test- Time 1

3- AIC test: An internationally approved method

**16:00-16:30** COFFEE BREAK

**16:30-17:30 Practicum** AIC test- Time 2

4- Mosquito laboratory rearing methods

**17:30-18:00 Practicum** AIC test- Time 3

5- Conclusions. Questions and Answers