

Subject: Training visits: Mosquito Control expert (Biocide, Biological and non-chemical control products) from international partner institution FoA to the partner institution.

Place: Podgorica, Montenegro

Date: 11th - 16th April, 2016

Procurement plan: Training, line 5

Training visit to Podgorica that will be conducted by Prof. Marija Zgomba is planned to provide a five-day meeting with training on assessment skills to collaborative research on native/invasive mosquitoes and pathogens they transmit in Montenegro and development of non-chemical control measures (WP2) within LOVCEN project researchers. The training will take place at Biotechnical faculty.

Training visit goals and activities WP 2 c

The main goals that is planned to be reach by this expert training visit:

- Upgrade of basic knowledge of biocide use within Integrated Mosquito Control management in conjunction with Biocide Directive in EU.
- Possibilities of introduction of novel non-chemical, biodegradable materials for control of mosquito larvae. Principles of efficient larval control. Prerogatives for the best way for prevention and control of MBD outbreaks is control of vector mosquito.
- Application techniques and evaluation of the biological efficacy degree in relationship to the larval breeding sites and the juvenal stages that should be treated.
- Acquiring knowledge on environmentally safe products, selection of the non-chemical products, the rate timing and way of application in accordance with the breeding sites/potential of mosquito larvae seasonal production.

Surveillance programs that are carried out as a core of LOVCEN project goal have been in progress and give a strategic approach to the further development of the foreseen objectives. However, surveillance and control require integrated knowledge, efficient and standardized methods, and awareness among researchers, academic educators and policy-makers as well as well-trained young scientists and students. Within the scientific community it has been stated that a sound and efficient mosquito control is very much needed since not many novel approaches have been implemented lately.

These training targets researchers/specialist and students from Biotechnical Faculty, IPH and/or Institutions like SME "Hemko", Podgorica that could be involved in operational work/application of products for MC. They should improve their knowledge/skills related to the environmentally safe MC approach, biocide characteristics used for MC, techniques, necessary achievements in mosquito breeding sites reduction/control. Except the new knowledge on the subject, this training will help specialists in MC to implement chosen techniques/ equipment to establish efficient mosquito control with none chemical products.

The trainees will receive the theoretical overview knowledge about the existence and possibilities of different MC approaches, the advantages and disadvantages of various methods (chemical, physical, environmental modification, mechanical and biological). They will also gain an overview of exact/optimal solutions of the techniques/time applications for sustainable MC.

The attendees will be also stimulated to develop critical points for implementation of WNV or/and other mosquito borne pathogens surveillance program including the control measures that should be implemented in Montenegro. Through a combination of discussions, presentations and exercises the training provides the following learning outcomes:

- to get basic knowledge about different types of mosquito breeding sites as the source of adult mosquito vectors

- to learn how to make a selection of the most appropriate method for larval control;
- to get acquainted with different formulations of the products for MC
- to implement in the optimal time of larval development the required/optimal rate of the selected product for larval control;
- to learn how to evaluate the outcome of the treated larval breeding site in regard to the rate of larval reduction

Main goal of this visit is training of involved specialists to comprehend the need of a sound MC approach, to select and implement safe, efficient and preferable long-lasting products and techniques that will reduce number of larvicide applications during a season in Montenegro.

Arrival date: 11th April, 2016

Departure date: 16th April, 2016