

REPORT

Training visit 29th November - 04th December 2015 of Tamas Petrovic (NIV) to IPH

Training visit was conducted to upgrade knowledge of IPH partner in laboratory diagnostic procedures for detection of pathogens in vector mosquitoes. The selected emergent pathogens that were selected for training was West Nile virus (WNV) and Usutu virus (USUV) both belonging to family Flaviviridae.

During visit short introduction of Scientific Veterinary Institute Novi Sad (NIV) and Institute of Public Health (IPH) was performed regarding the specialist (diagnostic) and research work done in the field of vector borne pathogen detection.

The Laboratory facility conditions and equipment of IPH was screened regarding the possibilities of introduction of vector borne pathogen detection. The conclusion is that IPH is fully equipped and with a good laboratory conditions and capacity for introduction of vector borne pathogens detection.

The laboratory protocols for detection and characterization of WNV and USUV that is in use in NIV was introduced to IPH laboratory experts and personal, as well as those protocols were given in kind to IPH staff. (Protocols given in attach).

During the training a few meetings with IPH laboratory experts were organized. During those meetings possibilities and different protocols and chemistry (reagents) for molecular detection of WNV and USUV were discussed. Also, different experiences in molecular detection of other virus's species were discussed.

A special attention was given to the virus isolation and tissue culture cultivation procedures as IPH laboratory experts try to introduce this classical virology procedure in their routine laboratory practice. Regarding this, protocols and consumables that are used were inspected and some recommendation was given to IPH staff to obtain the best practice in cell and virus cultivation.

Also, the special attention is given to the procedures of mosquito and other vector insect preparation for detection of viruses. Different procedures and those used routinely in NIV laboratory was presented to the IPH staff with detailed explanation of all advantages and problems that could arise during that process.

During the training visit, meeting was organized with the representatives and experts of Veterinary Specialist Laboratory of Montenegro in Podgorica. On the meeting dedicated to the introduction of the role of veterinary service in vector borne pathogens detection and in monitoring processes, a lot of discussion was performed in the area of possible future WNV and other vector borne viruses national monitoring programs.

Date 04th December 2015.

Regular member of Veterinary Medicine Academy