

*7th Call for STSM-Applications*



COST Action FA1205: AQUAGAMETE - Assessing and improving the quality of aquatic animal gametes to enhance aquatic resources. The need to harmonize and standardize evolving methodologies, and improve transfer from academia to industry

**Name:** Nataša Radojković

**STSM Title:** Grant period 3, 7<sup>th</sup> call

**STSM Reference:** ECOST-STSM-FA1205-290615-063076

**Dates:** 29.6.2015 – 10.7.2015

**Location:** Department of Aquaculture, Institute of Aquaculture and Environmental Safety, Faculty of Agricultural and Environmental Sciences, Szent István University in Gödöllő, Hungary

**Host:** Dr Ákos Horváth

**Purpose of the STSM**

This STSM was carried out at the Department of Aquaculture, Gödöllő, Hungary under the supervision of Dr Ákos Horváth, with the main objective to test the effect of different protocols for the cryopreservation of tench sperm.

**Description of the work**

During this STSM we performed several different experiments. Main focus of this visit is usage of CASA system as software for evaluation of sperm quality. The experiments carried out were related to the cryopreservation of tench sperm. We tested the effect of 4 different cryoprotectant (methanol, 2- methoxyethanol, glycerol and ethylene glycol) in 3 different concentrations (5%, 10% and 15%) on sperm motility parameters, fertilization and hatching success. Second experiment was designed to determine the effects of two cryoprotectants from the previous experiment, which showed the best results (methanol and 2-methoxyethanol) on sperm motility parameters, fertilization and hatching success. For this experiment was used controlled rate freezer in which is frozen a large number of straws.

My stay at the Department of Aquaculture, Institute of Aquaculture and Environmental Safety, Szent István University in Gödöllő was of great benefit to me and so continued successful collaboration that has been established between Dr. Akos Horvath and our group

**Confirmation by the host institution of the successful completion of the STSM**

Dr Ákos Horváth certifies that Nataša Radojković has completed a Short-Term Scientific Mission awarded by the COST Action FA1205 in the period 29.6.2015 – 10.7.2015.

Dr Ákos Horváth  
(Host institution)

Nataša Radojković  
(STSM applicant)