

Applicant: Gergely Bernáth

Home Institution:

Szent István University, Department of Aquaculture, 2100, Gödöllő, Hungary

Host: Dr. Martin Pšenička

Host Institution:

University of South Bohemia in Ceske Budejovice, Faculty of Fisheries and Protection of Waters Vodnany, Czech Republic

Duration: 1 month

Project title:

Germ cells isolation in sturgeon.

Summary

The aim of my Short-term Scientific Mission was to get knowledge about germ cell isolation and transplantation.

As first step, I had opportunity to join in harvesting of Russian sturgeon (*Acipenser gueldenstaedtii*), Siberian sturgeon (*Acipenser baerii*) and Sterlet (*Acipenser ruthenus*). After i learned the habit of these Acipenseriform species, the laboratory practice was began. I observed the mechanism of PGC labelling and trained the method of microinjection. I could participate in the process of the deep freezing of labelled PGCs as well. The second part of my studies I spent with the acquirement of spermatogonia and oogonia isolation and transplantation. I also investigated the efficiency of germ cell isolation from stored tissue.

In this one month I collected important knowledge from a scientific field which was different from my previous research topic. I had availability for cooperation with a very ambitious and professional team in friendly atmosphere. I look forward for possible future collaboration.

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Supervisor

Martin Pšenička, Ph.D.

