Paternal effect on progeny quality in Eurasian perch (Perca fluviatilis)

Project PI: dr Daniel Żarski

Position: PhD student in the project entitled "Transcriptomic and zootechnical exploration of parental contribution to progeny quality in Eurasian perch, *Perca fluviatilis*" (National Science Centre, Sonata Bis 10)

Description of the tasks:

Each PhD candidate will be expected to work on either maternal or paternal contribution to progeny quality in Eurasian perch (*Perca fluviatilis*) being the model species to work with. The general aim of the project is related with the identification of the larvae-quality-related processes (at zootechnical and molecular level) for which either male or female is responsible. Each of the two students will be expected to work arm-in-arm (in a partnership manner) during the experimental (controlled reproduction of fish, egg incubation and larvae rearing operations) and analytical (molecular and in silico analysis) phases of the project. During the 4-year-long, fully funded scholarship each PhD student will be expected to perform research, laboratory analysis, write scientific articles, present the results during the international scientific conferences and – consequently – defend her/his PhD thesis at the Institute of Animal Reproduction and Food Research of Polish Academy of Sciences. High-level mentoring, detailed research agenda as well as full financial support for the research planned will be ensured to both PhD candidates. Appropriate training on controlled reproduction, larviculture, transcriptomics, proteomics and molecular analysis will be provided with the use of high-end, modern research infrastructure.

Qualifications:

The candidate is expected to have:

- A Master's degree in fisheries, agriculture, biology or equivalent (expected before the deadline of this application);
- High motivation to work in a multidisciplinary team with fish breeders, fish larvae as well as in molecular laboratory;
- Basic knowledge on biology and animal physiology;
- Basic knowledge on genomic tools (mainly transcriptomics and proteomics) will be appreciated, but not prerequisite;
- Background in animal husbandry, including fish, will be appreciated, but not prerequisite;
- Fluency in English in writing and speaking;
- Good writing and presentation skills;
- Availability, good work organization, team work skills and ability of coping with stress will also be considered.

Conditions:

Maximum scholarship duration: 4 years <u>Type of position</u>: PhD scholarship <u>Position</u>: doctoral student <u>Start of position</u>: October 1st, 2021 (beginning of the academic year 2020/2021 at the doctoral school) <u>Location</u>: Institute of Animal Reproduction and Food Research of Polish Academy of Sciences in Olsztyn (Poland), Department of Gamete and Embryo Biology PhD scholarship: 4 276 PLN per month (~3700 PLN net salary)

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<u>Work environment:</u> lively, friendly and interdisciplinary research group (<u>http://pan.olsztyn.pl/research-dissemination/scientific-groups/gamete-and-embryo-biology/</u>) and a <u>supportive PI:</u> Dr. Daniel Żarski (https://www.researchgate.net/profile/Daniel-Zarski)