



SYMPOSIUMS

Symposium finalizing the realization of the Polish-French partnership project HARMONIA financed by the National Science Center

1-2 juin 2022

Centre Scientifique de l'Académie Polonaise des Sciences à Paris

Daniel Źarski

Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences

Between 1st and 2nd of June 2022 the “Symposium finalizing the realisation of the Polish-French partnership project HARMONIA entitled: “Integrated analysis of transcriptome and proteome as a tool for assessment of quality and aging process in eggs of pikeperch” (Grant Number: 2016/22/M/NZ9/00590) financed by the National Science Center (NCN) implemented between 2017 and 2021, took place at the Polish Academy of Sciences – Scientific Center in Paris.

The Symposium was attended by researchers and PhD students from the Institute of Animal Reproduction and Food Research of the Polish Academy of Sciences (IARFR PAS) in Olsztyn and French collaborators from INRAE (Institut national de recherche pour l'agriculture, l'alimentation et l'environnement): Dr. Julien Bobe (Director of Laboratoire de Physiologie et Génomique des Poissons LPGP) and Dr. Christophe Klopp (group leader of bioinformaticians providing services to INRAE biologists – SIGENAE). Due to the unpredictable circumstances prof. Pascal Fontaine (Director of Animal and Functionality of Animal Products – URAFPA of University of Lorraine) could not join. The meeting was moderated by Dr. Daniel Źarski – the coordinator of the project – who first presented the overall conceptus of the HARMONIA project which aimed at molecular profiling of pikeperch eggs in order to understand the factors conditioning egg quality in this important commercial species. His talks were followed up by Dr. Joanna Nynca (from

IARFR PAS) who has provided an overview on aspects related to proteomic profiling of pikeperch. It should be stressed out that during implementation of this project French partners provided Polish group with their knowledge and experience on fish reproductive biology, transcriptomics and bioinformatics, whereas Polish partners brought to the table a detailed zootechnical and biological knowledge on fish reproduction as well as proteomics research skillset. In this sense the four entities supplemented each other with various expertise and laboratory capacity constituting unique interdisciplinary Team.

In different sessions of the Symposium particular aspects were presented and discussed in great details. This was related to the various aspects of molecular characterization of the eggs of pikeperch, creation of multi-tissue transcriptomic atlas of the species studied as well as possible implementation of genome editing system to validate functionality of some gonadal specific genes in this species. The important part was also to discuss and to determine fate of the remaining data as well as re-use already published one. During the second day of the Symposium Polish and French researchers were discussing the possibility of collaboration on current research project of Dr. Daniel Źarski – SONATA BIS (Grant number . 2020/38/E/NZ9/00394) also funded by NCN) – and aiming at exploration of parental contribution to progeny quality in other percid species of Eurasian perch. The project will take 4 more years where various aspects can be jointly studied and thus improve the overall scientific sound of the project. Moreover, during these sessions, PhD students, Abhipsa Panda and Rossella Debernardis (from IARFR PAS) presented their first results coming from the project. The discussion was related to the possibility of future collaboration and ended up with agreement on staff exchange between the Polish and French institution. And importantly, it has also been agreed that long-term collaboration is within everybody's interest and intention for long term collaboration has been clearly stated.

It should be noted that HARMONIA project has so far led to publication of 6 scientific articles with Polish and French group of Authors, and at least 3 being currently prepared for submission to scientific journals. At the moment, as a result of this Symposium two new projects – prepared in collaboration with French partners – are intended to be submitted to the NCN in Poland still this year, what additionally indicates the great success of this meeting which was possible thanks to the Scientific Center in Paris of Polish Academy of Science.

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01-02/06/2022

Académie Polonaise des Sciences
Centre Scientifique à Paris
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75116 Paris

Organizers:



ACADÉMIE POLONAISE
DES SCIENCES
Centre Scientifique à Paris



HARMONIA 8

Narodowe
Centrum Nauki

Spotkanie podsumowujące
Réunion de synthèse
Wrap-up meeting

Dalsza współpraca
Une collaboration plus poussée
Further collaboration



Projekt

Zintegrowane transkryptomiczno-proteomiczne profilowanie jakości jaj u sandacza

Projet

Profilage transcriptomique-protéomique intégré de la qualité des œufs chez le sandre

Project

Integrated transcriptomic-proteomic profiling of egg quality in pikeperch

Affiche

 PROGRAMME

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01/06/2022

- 14:00-14:05 Magdalena SAJDAK (Welcome Speech)
- 14:05-15:30 Daniel ŹARSKI
*Presentation of results of the project – zootechnical-
transcriptomic part*
- 15:30-16:00 Coffee break
- 16:00-16:30 Joanna NYNCA
Presentation of results of the project – proteomic part
- 16:30-17:00 Julien BOBE
Biological relevancy, future prospects

02/06/2022

- 09:00-09:30 Rossella DEBERNARDIS
Presentation of SONATA BIS project – maternal effect
- 09:30-10:00 Abhipsa PANDA
Presentation of SONATA BIS project – paternal effect
- 10:00-10:30 Coffee break
- 10:30-12:00 Christophe KLOPP
*Bioinformatic support of current and future research
projects*