



Confidential

Supervisor's Review of USB RIFCH PhD Thesis

Surname of the PhD student: Waghmare, Swapnil Gorakh	Name of supervisor: Azin Mohagheghi Samarin, Ph. D
Title of PhD thesis: Fish oocyte ageing and histone modifications	

OVERALL COMMENTARY ON THE PhD THESIS

Overall comment:

The PhD thesis entitled "Fish oocyte ageing and histone modifications" has been planned to study the possible involvement of epigenetic regulators in the progress of fish oocyte ageing focusing on histone modifications as one of the most important epigenetic mechanisms. The experiments are organized to investigate the basic science behind the ageing of fish oocytes.

The idea is quite mature, and the experiments are done properly. The results are novel and reliable because the idea has been confirmed/denied by several phenotypic and molecular analyses using a few fish species. Furthermore, the outcomes suggest the possible development of the epigenetic markers for determining fish egg quality as a new tool in aquaculture. The thesis is written based on a deep literature search and could provide a good interpretation of the obtained results leading to a clear conclusion. In addition, the study is opening new insights for the future works and is distinctly addressing them.

The results of this PhD study have been already published as two articles in two Q1 journals and the further results are also planning to be submitted to the first ranking quartile journals.

As the supervisor of "Swapnil Gorakh Waghmare", I see the novelty which his thesis brings to the field of fish gamete quality. From my point of view, the thesis is fulfilling a qualification required for a PhD study and therefore, I would like to recommend it for the defence process.

FINAL RECOMMENDATION

- ☒ can be recommended for defence of PhD Thesis
☐ can be recommended with reservations for defence of PhD Thesis
☐ can not be recommended for defence of PhD Thesis

06.10.2021 Vodňany
Date and place

Mohagheghi Samarin
surname and signature