



Confidential

Supervisor's Review of USB RIFCH PhD Thesis

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| Surname of the PhD student: MSc. Sarvenaz Khalili Tilami | Name of supervisor: doc. Jan Mráz, Ph.D. |
| Title of PhD thesis: Factors influencing nutritional value of fish | |

OVERALL COMMENTARY ON THE PhD THESIS

The thesis of Sarvenaz Khalili is dealing with an important issue of fish consumption and human health. Especially, in the Czech Republic, where the fish consumption is very low and thus the population is in deficiency of n-3 LC PUFA and suffers for cardiovascular diseases and metabolic syndrome, there is a need to focus on these matters and nutritional value of fish should be promoted. Sarvenaz Khalili well addressed these issues in her thesis and a review paper I (published in Reviews in Fisheries Science and Aquaculture) and research paper II (published in PeerJ). Beside this, a very important issue of replacement of traditional components for fish feed production is addressed. Novel approach of replacing fish oil with yeast oil was tested and published in a prestigious journal Scientific Reports. Two manuscripts focused on replacement of fish meal with insects are also included. In these three papers effects of the replacement on nutritional value of fish was also investigated. The thesis is thus composed of 3 published articles in excellent journals and two manuscripts. In addition to these included papers Sarvenaz has coauthored 2 other articles published in the Science of The Total Environment. Overall, she has published 5 papers in excellent scientific journals, out of them 4 in Q1 journals. Unfortunately, her study took longer mainly thanks to the fact that her former supervisor doc. Sabine Sampels, Ph.D. left our Faculty and she had to replace her with me as a new supervisor. In conclusion I strongly recommend her thesis for defense.

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

2.11.2018 České Budějovice

Date and place

MRÁZ

surname and signature