



Confidential

Supervisor's Review of USB RIFCH PhD Thesis

Surname of the PhD student: Buket Yazıcıoğlu	Name of supervisor: Prof. Pavel Kozák, Ph.D.
Title of PhD thesis: Some reproductive and physiological aspects of invasive crayfish	

OVERALL COMMENTARY ON THE PhD THESIS

Scientific value, originality and quality of processing of PhD thesis in a good quality. First of all, it is a complex of laboratory studies focused on reproduction biology of crayfish. Secondly, results of the thesis are highly applicable in the next research and evaluating of invasive potential of some non-indigenous crayfish species in the nature conservation point of view.

Firstly I also have to mention, that Buket had to move her topic of dissertation from reproduction biology of spiny-cheek crayfish *Orconectes limosus* to more general one during her study. It was not Buket false, but the reason was unpredictable behavior of this species which caused for us several complications. Buket performed this new topic with co-operation with some colleagues very well.

The Ph.D. theses started with original review focusing on different reproduction strategies in crayfish which was written with co-operation Julian Reynolds. I find this review extremely useful. The scientific results of the thesis are logically divided into 3 main Chapters. The first report of intersex in the signal crayfish *Pacifastacus leniusculus* is reported in Chapter 2, which is highly contributed to previous mentioned review. The new laboratory technics learned Buket in describing of structure of the spermatozoon in three crayfish species in Chapter 3. Finally, she examined post-mating spermatophore storage strategies in noble crayfish (*Astacus astacus*) and signal crayfish, which is very practical and applicable part of her study with possible implications for broodstock management.

Besides, I would like to say some words about Buket and her character. She is very friendly and independent person. I am sure and I hope that she will be successful in the research and academic area in Turkey and I think that we will hear about her in the near future. Finally, I also hope that we will continue in our cooperation.

Finally, I evaluate the PhD thesis as extremely successful and useful for future research work and application as well.

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

2.5.2017

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Date and place


Pavel Kozák

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surname and signature