



**Confidential**

### **Supervisor's Review of USB RIFCH PhD Thesis**

Surname of the PhD student: <b>Pavel Šauer</b>	Name of supervisor: <b>Hana Kocour Kroupová</b>
Title of PhD thesis: <b>Environmental pollutants progestins: occurrence, hormonal activities and effects on fish</b>	

#### **OVERALL COMMENTARY ON THE PhD THESIS**

The PhD thesis is clearly and logically structured. It is written in standard scientific English and the text is easy to follow.

Introduction gives a thorough overview of the current knowledge on the occurrence of progestins in the aquatic environments as well as their hormonal activities *in vitro*. Moreover, present data on the occurrence of selected hormonal activities in the aquatic environment, which may be related to the occurrence of progestins, is summarized. Last but not least a concise summary of information on the effect of progestins on fish is included. The author clearly showed that he has a very good overview of the literature published on the topic so far. In addition, the outline, purpose, and the aims of the work were concisely presented in the introduction.

The thesis covers 3 already published articles and 1 manuscript submitted to an international journal. PhD candidate is the first author of 2 published articles. I would like to point out that the journals where the articles have been published belong to leading journals of the field of environmental sciences. All of them belong to the first quartile (Q1) of their category.

Discussion is well-organized and includes all relevant topics. Findings presented in the PhD thesis are summarized and put into a broader context of already published data. Conclusions are drawn correctly and significance of all findings is highlighted.

To sum up, the student demonstrated a deep knowledge of the subject. His PhD thesis represents a very complex scientific work of high level. All objectives of the work have been fulfilled. Therefore, I would like to recommend the PhD thesis for defence.

#### **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

21. 11. 2018, VODŇANY

Date and place

KOCOURE KROUPOVÁ H.K. Kroupová

surname and signature