



**Confidential**

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

Surname of the PhD student: Xuan Xie	Name of supervisor: Martin Pšenička
Title of PhD thesis: <i>In vitro</i> culture of sturgeon germ stem cells	

**OVERALL COMMENTARY ON THE PhD THESIS**

The main aim of the PhD thesis was very ambitious. The technique of *in vitro* culture was found as a very effective tool for propagation of germ stem cells. These cells have a potential to completely establish gametogenesis and differentiate into both sperm and eggs after transplantation into a suitable recipient. Thus, this technique can be used for *in vitro* conservation of genetic resources and their propagation, which is of a high importance especially in case of critically endangered sturgeons. Xuan Xie could achieve very interesting and useful results about sturgeon germ stem cell isolation, *in vitro* culture and transplantation, which was summarized in the presented PhD thesis as one published review, one published original article and two articles before submission. I really appreciate Xuan's work and I strongly recommend the PhD thesis for the 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

30.07.2020

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Date and place

Martin Pšenička

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surname and signature