



**University of South Bohemia in České Budějovice  
Faculty of Fisheries and Protection of Waters**

Zátiší 728/II, 389 25 Vodňany, Czech Republic  
VAT: CZ60076658

☎ +420 387 774 601 fax: +420 387 774 634 e-mail: [sekretar@vurh.jcu.cz](mailto:sekretar@vurh.jcu.cz)

*Confidential*

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

Name of the PhD student: <b>M.Sc. Peter Podhorec</b>	Name of the supervisor: <b>Assoc. Prof. Dipl.-Ing. Jan Kouřil Ph.D.</b>
Title of PhD thesis: <b>Artificial reproduction of tench (<i>Tinca tinca</i> L.), with an emphasis placed on hormonal induction of ovulation</b>	

**OVERALL COMMENTARY ON THE PhD THESIS**

M.Sc. Peter Podhorec started his Ph.D. study in October 2007. Peter Podhorec can be considered as a diligent and purposeful student with ability to successfully conduct and evaluate his own experiments. Peter Podhorec has submitted his Ph.D. thesis on the topic of artificial reproduction of tench with an emphasis placed on hormonal induction of ovulation. The submitted Ph.D. thesis is devoted to elucidate basal and applied aspects of using hypothalamic factors for hormonal induction of ovulation in tench.

Submitted Ph.D. thesis with objective of artificial reproduction in tench is a continuation of our earlier research on this commercially important fish species. In order to improve and optimize hormonal treatment in tench inceptor conducted series of trials based on the evaluation of LH profiles and reproductive performances. Acquired data mean a significant breakthrough in basic knowledge of neuroendocrine regulation of luteinizing hormone secretion and ovulation in cyprinids and particularly in tench. Gained results also determine the optimal dosage as well as the composition of hormonal treatment necessary for successful hormonal therapy in tench. Research of basic and applied issues of neuroendocrine regulation of LH in tench is beyond all dispute of highly importance especially in the light of expected European veterinary legislative and possible restrictions in usage of neuroactive drugs in hormonal therapy of fish.

Above mentioned research activities of Peter Podhorec thus unambiguously evidenced on his ability of full acquaintance with study theme, ability of research hypotheses creation and skills of creative preparation, realization and solution of the complicated and sophisticated experiments individually as well as a member of research team. Results achieved within the Ph.D. thesis of Peter Podhorec were published, accepted for publication, and submitted for review process to international scientific journals with appropriate IF. Besides they were presented at national and international conferences as well as within scientific seminars at USB RIFCH. Peter Podhorec passed all prescribed exams in planned terms and met all other requirements including training stays and pedagogical praxis. Thus all requirements for successful finishing of Ph.D. study, which are laid down by appropriate obligatory as well as internal directives at training institution, were completed.

Therefore I am delighted to **recommend submitted Ph.D. thesis of M.Sc. Peter Podhorec** entitled „Artificial reproduction of tench (*Tinca tinca* L.), with an emphasis placed on hormonal induction of ovulation” **to 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

28.04.2011

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Date and place

JAN KOUŘIL

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surname and signature