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**Confidential**

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

Surname of the PhD student: M.Sc. Zhi-Hua Li

Name of supervisor: Assoc. Prof. Dipl.-Ing. Tomáš Randák Ph.D.

Title of PhD thesis: Effects of residual pharmaceuticals present in aquatic environment on fish

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

Zhi-Hua Li was a very active, creative and self-reliant student in my laboratory during his Ph.D. study (2008-2011). His scientific topic was effects of pharmaceuticals on fish, especially oxidative stress biomarkers and proteomics. He carried out several *in vivo* and *in vitro* laboratory experiments and follow-up analyses. In 2010 he obtained internal grant from Grant Agency of USB focused on proteomics profile and antioxidant responses in rainbow trout chronically exposed to a fungicide propiconazole. Zhi-hua published the obtained results of performed experiments in more than 30 peer-reviewed papers. He completed 3 months of training at the laboratory of Prof. Daniel Schlenk at Department of Environmental Sciences, University of California, Riverside, USA. The stay was focused on aquatic toxicology and proteomics technique. I think that Zhi-hua has an excellent scientific potential. I believe Zhi-hua is qualified for defense of his PhD Thesis.

### **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

30.4.2011 Vodňany

Assoc. Prof. Dipl.-Ing. Tomáš Randák Ph.D.