



Academy and University Center Nové Hradý

Center for Nanobiology and Structural Biology

Institute of Microbiology

Academy of Sciences of the Czech Republic

Prof. RNDr. Rüdiger H. Ettrich, PhD.

☎ +420 386 361 297 📠 +420 386 361 279 ✉ ettrich@nh.cas.cz



POSUDEK ŠKOLITELE - SUPERVISOR'S RECOMMENDATION

Nové Hradý,

To Whom it may concern

Vitali Bialevich was working on his PhD thesis under my supervision on the structure-function relationship of the motor subunit of a type I restriction-modification system Eco R124I in the field of experimental structural biology and biochemistry. The principal aim of his project was to elucidate the possible role of the so-called helical domain on translocation and ATPase activity, and to get a deeper insight into the structural consequences of this domain on the potential translocation stages of the helicase/translocase within the motor subunit. To do so he had to apply a broad range of methods ranging from molecular biology, via biochemical assays, *in vivo* studies up to protein crystallization. Additionally he had to collaborate with the computational biologists in our group and learn to interpret molecular dynamics and modeling data.

Vitali joined my group in 2008 and never had a problem in full-filling his study duties. He is a skilled researcher in the lab, technically masters all methodology without the need of any interference, and has a very solid theoretical background. Vitali has a clear mind about the aims and objective of his research. During his PhD studies he had a research and training stay in Jost Ludwig's lab at Bonn University, where he got training molecular biology of yeast and fluorescence microscopy. He has a reasonable amount of results and data meeting international scientific standard, and I certainly regard him to be ready for finding his own way within the scientific community.

I can confirm that **Vitali Bialevich** fulfilled all pre-requirements for finishing his PhD studies, published his work in impacted papers, passed the state exam with success etc. I believe, that his research presented in the submitted thesis will convince the reviewers and the doctoral commission that **Vitali Bialevich** fulfills also all demands needed for a successful defense of his doctoral thesis. Certainly, I can recommend him for being awarded the PhD-degree.

Best regards,



Prof. RNDr. Rüdiger Ettrich, PhD.

9.12.2016