

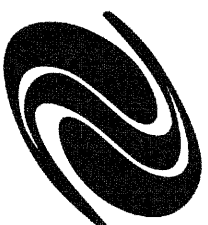


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POSUDEK ŠKOLITĚLE - SUPERVISOR'S RECOMMENDATION

To Whom it may concern

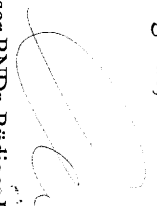
Nové Hradky, September 22nd, 2015

Katsiaryna Shamayeva was working on her PhD thesis under my supervision on the structure-function relationship of the motor subunit of a type I restriction-modification system EcoRI241 in the field of experimental structural biology and biochemistry. The principal aim of her project was to elucidate the involvement of the endonuclease domain of the EcoRI241 restriction-modification complex in interdomain communication, and to get a deeper insight into the structural consequences of interdomain contacts on the potential translocation stages of the helicase/translocase or the endonuclease activity within the motor subunit. To do so she had to apply a broad range of methods ranging from molecular biology, protein purification and expression via biochemical and biophysical *in vitro* assays up to *in vivo* studies. Additionally she had to collaborate with the computational biologists in our group and learn to interpret molecular dynamics and modeling data.

Katsiaryna Shamayeva joined my group in 2008 and never had a problem in full-filling her study duties and technically masters all methodology without the need of any interference. During her PhD studies she had a research and training stay in Jost Ludwig's lab at Bonn University, where she got training molecular biology of yeast and fluorescence microscopy. She now has a reasonable amount of results and data meeting international scientific standard, two papers published, with shared first authorship on one, and two papers ready for submission to NAR and BMC Structural Biology. I certainly regard her to be ready for finding her own way within the scientific community.

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

Best regards,


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