



Academy and University Center Nové Hradý

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POSUDEK ŠKOLITELE - SUPERVISOR'S RECOMMENDATION

Nové Hradý,

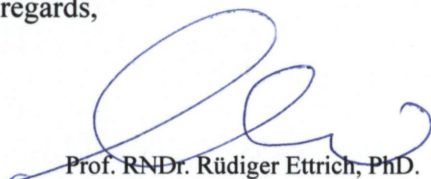
To Whom it may concern

Dhiraj Sinha was working on his PhD thesis under my supervision on the structure-function relationship of the multimeric type I restriction-modification system EcoR124I in the field of computational structural biology. The principal aim of his project was an *in silico* characterization of the motor-subunit of these enzymes and to elucidating the role of individual domains during translocation or restriction or in interdomain communication. Hereby he is working in close collaboration with the experimentalists in my group.

Dhiraj joined my group in 2010, after having finished his master in India in the field of bioinformatics, as he was convinced that the computational work in our group suits his future interests for a PhD. Dhiraj today is a skilled researcher, technically masters all methodology applied here in computational biology (molecular dynamics in Gromacs, homology modeling, yasara, QM/MM calculations, generation of force field parameters, PCA etc), and has a very solid theoretical background. During his PhD studies he had a two month research and training stay in the Drug Discovery Center of the University of Szeged, Hungary. Dhiraj 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 **Dhiraj Sinha** 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 **Dhiraj Sinha** 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.

14. 12. 2016