



Pracoviště Nové Hradý

### Školitelský posudek bakalářské práce

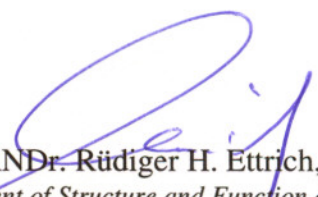
#### **Jiří HELLER: Příprava rekombinantního PsbQ proteinu fotosystému II ze špenátu ke studiu vzájemných interakcí proteinů kyslík-vyvíjecího komplexu**

The bachelor thesis of Jiří Heller can be separated into four main parts: The 8 pages long theoretical introduction does not only give a general overview over photosynthesis but leads the reader by a step by step focus to the details of the studied parts and problems. This clearly demonstrates that Jiří tried and managed to understand the object of research and got a better insight into the broader research concept his research is embedded in. The 15 pages methods part gives a detailed description of the methods used and shows the broad range of methods he learned and is able to apply himself. On six pages the resulting data are summed up followed by a 3 page discussion that very nicely discusses the gained results and shows his ability not only to perform the experiments but also to put things together and do the interpretation, which in science is at least as important as the experiment itself. The thesis is closed by a one page conclusion stating that the methodological as well as the scientific goal of the thesis was reached.

I am pleased to say that Jiří Heller showed great interest in the laboratory work, from the beginning he declared that his aim was not to do a one month quick literature search or a standard experiment, but to learn and apply useful methods in molecular biology and to get a little insight about how research is planned, performed and interpreted. As he worked in the lab for one day a week for more than half a year, together with Jaroslava Ristvejova, a PhD student in plant physiology and his co-supervisor, he got to learn not only scientific enthusiasm, but also the frustration of countless unsuccessful repetitions of newly designed experiments unless the fine-tuning leads to success.

At the end I must state that Jiří Heller performed much better than I generally expect from bachelor students and I rate his work with respect to his scientific level (bachelor student) as excellent. Therefore there is nothing else I can do, and I do that with pleasure, than to recommend Jiří Heller for being awarded the Bsc. degree.

Nové Hradý, 2. June 2008

  
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