



FACULTY OF SCIENCE

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Mentor's statement about the bachelor thesis of Tamara Bernadette Aigner

Title of the thesis: Study of Dco role in *Drosophila melanogaster* hematopoiesis

Tamara spent several weeks during spring 2010 in our laboratory testing an RNAi of Disc overgrown using UAS-Gal4 system in fruit flies. Her work brought another genetic tool to our project studying roles of *Dco* gene in *Drosophila* model. This gene and its mammalian homolog *CKIε* are very important for regulation of various cellular processes both in flies and humans and mutations were associated with human cancer. However the roles of these genes are far from being clearly understood and *Drosophila* may serve as an excellent model to further study these roles. One of the important way of investigation is to turn off this gene in a tissue-specific manner and Tamara tested the tool allowing this in her project.

She had just enough time in her program to finish necessary genetic crosses excluding any mistakes. Fortunately, she was able to do the crosses perfectly and her work gave us the seeking answers – she demonstrated that it is possible to use this system for a *Dco* knock down. I have to say that Tamara showed from the beginning a strong motivation for her work, she asked many questions and she understood her project very well. All this allowed her to finish her project in the limited time. I was also satisfied with the way she worked on her thesis and also how she prepared for the defense.

Tamara is very nice and friendly young lady; it was pleasure to work with her in the lab. I believe that she is quite motivated student with promising future in science (if she decides so), she is very smart and focused person. I can absolutely recommend her for the bachelor degree.

in České Budějovice 16.6.2011

Mgr. Tomáš Doležal, Ph.D.