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Posudek školitele na doktorskou dizertační práci Mgr. **Olgy Bazalové**

## CIRCADIAN CLOCK GENES IN INSECT

Olina came to work in our laboratory long, very long time ago as a master student. During that time she started to characterize circadian clock in the housefly, *Musca domestica*. Topic that originally seemed like a good training material for a new student, who is learning all laboratory techniques. And there were more and more techniques to learn and enjoy in following years. At the end, Olina stayed in our laboratory also for her PhD program. And during all these years she was studying circadian clock in various insects. This is a broad field, especially if you consider the number of techniques and tools that Olina used. And a lot of these results are not in her thesis, although it will be published. One day.

To briefly summarize, Olina worked with at least seven different insect species, studied and analyzed their locomotor activity and reproduction. She analyzed expression using quantitative real-time PCR, immunocytochemistry, explored function of genes by reverse genetic tools such as RNA interference and recently contributed to our gene editing adventure. Olina also spend remarkable time with yeast two hybrid experiments, for which she had to establish the technology in our lab, and of course to clone all constructs. This stuff is unpublished, but the data are promising and will be important part of a quite large publication.

Important part of duties during the PhD study is teaching and that is a field where Olina stands out as well. She is able to communicate with students very effectively. Olina was a co-supervisor for one master and two bachelor students recently.

I am not going to talk about her thesis too much, that will be her opportunity now, but at least I can emphasize that the thesis contains only a part Olina's results, three papers are just mentioned in her CV and a few more will be submitted this year.

Taken together, my general impression is that Olina is really hardworking and enthusiastic scientist. Personally, she is a great team member, willing to help others and going very well with everybody. So I would like to thank her for joining our group for a few years and I am sure she is the person who should stay in the scientific field.

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