

SUPERVISOR'S STATEMENT ON BACHELOR THESIS

Name of the student:

Anna Razkova

Study program:

Biological chemistry

Department/Institute:

The effect of CG18446 gene on the specification of circulating immune cells in *Drosophila melanogaster*

Supervisor:

RNDr. Alena Krejčí, Ph.D.

Supervisor's affiliation:

University of South Bohemia, Faculty of Science

(1) FORMAL REQUIREMENTS

Formal and graphical quality of the thesis

0-3

2

Ability to work with literature

0-3

2

Language and stylistics

0-3

3

Formal requirements – points in total

7

(2) PRACTICAL REQUIREMENTS

Fulfillment of the aims

0-3

2

Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions

0-3

2

Discussion quality – interpretation of results and their discussion with the literature

0-3

1

Experimental difficulty of the thesis, independence in experimental work

0-3

3

Contribution of the thesis to the knowledge in the field and the possibility to publish the results (after eventual supplementary experiments)

0-3

2

Practical requirements – points in total

10

POINTS IN TOTAL (MAX/AWARDED)

24

17

Comments of the supervisor on the student and the thesis:

Anna Razkova worked on her bachelor thesis in our laboratory between November 2016 - June 2017. She was given a project that was based on previous results of another Linz student Dajana Tanasic. It was in the centre of our attention since it was describing a completely new player at the hot topic of the crosstalk between metabolism and immunity. In her thesis Anna describes the effect of the CG18446 gene on the JAK/STAT mediated lamellocyte production using the Hoptm allele. Originally this was just one part of the project as we planned to test the effect of this gene during the naturally occurring immune challenge mediated by wasp infection but this turned to be too ambitious for Anna's project. I have to praise Anna that she worked well and independently. However, the time she decided to devote to the practical work in the lab was limited and I would say it was obvious that the main goal was to finish the work quickly rather than to understand the deeper background and wider significance of the project.

Of course I understand that it is not easy to combine studying with the experimental work in the lab but in comparison to other Linz students that went through the lab over the years I would say Anna could have achieved more. Although her results are interesting they would require more robust analysis and repetitions before making any strong conclusions. It is also obvious from the thesis that the 1.5 year gap between finishing the experimental work and writing up made it difficult to remember some of the details and interpret correctly the data. Meanwhile, other students in the lab made a good progress in the functional description of the CG18446 gene and we are currently in the process of publishing the story. Unfortunately, Anna's data were not strong enough to be included in the paper, which is a pity. Nevertheless, I think the experimental work Anna performed was a good introduction to the practical work in a molecular biology lab and it is sufficient in order to defend her bachelor thesis. In comparison to other bachelor students in the programme I suggest the grade very good and I wish Anna all the best for her future at the field of chemistry.

Conclusion:

In conclusion, I recommend the thesis for the defense.

In
České Budějovice, 9/1/2019

signature
