



SUPERVISOR'S STATEMENT ON BACHELOR THESIS

Name of the student: Nelli Manoczki
Study program: Biological chemistry
Department/Institute: Institute of Chemistry
Thesis title: Mechanism of dsRNA virus replication: cloning, production and structural characterization of C-terminal domain of σ NS
Supervisor: Zdeněk Franta
Supervisor's affiliation: University of South Bohemia, Institute of Chemistry

| | Point scale ¹ | Points |
|--|--------------------------|---------------------------|
| (1) FORMAL REQUIREMENTS | | |
| Formal and graphical quality of the thesis | 0-3 | 3 |
| Ability to work with literature | 0-3 | 2 |
| Language and stylistics | 0-3 | 3 |
| Formal requirements – points in total | | 8 |
| (2) PRACTICAL REQUIREMENTS | | |
| Fulfillment of the aims | 0-3 | 3 |
| 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 | 2 |
| Experimental difficulty of the thesis, independence in experimental work | 0-3 | 2 |
| Contribution of the thesis to the knowledge in the field and the possibility to publish the results (after eventual supplementary experiments) | 0-3 | 3 |
| Practical requirements – points in total | | 12 |
| POINTS IN TOTAL (MAX/AWARDED) | 24/20 | (0-24)² |

¹ Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

² Enter the number of points awarded.

Comments of the supervisor on the student and the thesis:

Nelli joined our lab in autumn 2017. She, together with another bc Student Eliška, started to work on non-structural protein σ NS from ARV, which has substantial role in virus replication, but its exact function and the crystal structure still remain unclear. Nelli project included cloning and recombinant production of C-terminal domain of σ NS, which was identified by our collaborators via limited proteolysis. To produce the C-terminal domain, Nelli learned various mol-biol techniques and biochemical approaches. She was easy to collaborate, showing an interested in the research project as well as the lab work itself. Nelli worked all the time very precisely, and carefully performed all the given tasks; however, she shall be a bit more self-confident to become more independent. Although we did not get the recombinant protein, I was satisfied with Nelli's performace in the lab and I am confident she fulfills all the criteria for obtaining bsc. degree.

Conclusion:

In conclusion, I

r e c o m m e n d

the thesis for the defense.

In **České Budějovice** date **17.06.2019**



signature