



Přírodovědecká  
fakulta  
Faculty  
of Science

Jihočeská univerzita  
v Českých Budějovicích  
University of South Bohemia  
in České Budějovice

## STATEMENT OF THE BACHELOR THESIS SUPERVISOR

**Name of the student:** Anďa Radoš

**Study program:** Biological Chemistry

**Department/Institute:** Institute of Chemistry and Biochemistry

**Thesis title:** OASL protein isoforms in human neural cell lines infected by tick-borne encephalitis

**Supervisor:** RNDr. Ján Štěřba, Ph. D., **co-supervisor:** Mgr. Martin Selinger

**Supervisor's affiliation:** Institute of Chemistry and Biochemistry, Faculty of Science, University of South Bohemia; Institute of Parasitology, Biology Centre, CAS

|                                                                                                                                                | Point scale <sup>1</sup> | Points |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------|
| <b>(1) FORMAL REQUIREMENTS</b>                                                                                                                 |                          |        |
| 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      |
| <b>(2) PRACTICAL REQUIREMENTS</b>                                                                                                              |                          |        |
| 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                      | 2      |
| Practical requirements – points in total                                                                                                       |                          | 11     |

**POINTS IN TOTAL (MAX/AWARDED)**

**24**

**18<sup>2</sup>**

<sup>1</sup> Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

<sup>2</sup> Enter the number of points awarded.

**Comments of the supervisor on the student and the thesis:**

Anďa Radoř started her work on this thesis in autumn 2015. Her aim was to describe the expression kinetics of OASL, an interferon-stimulated gene with a potential antiviral effect against the tick-borne encephalitis virus (TBEV). The experimental part required lots of optimization steps since Anďa was the first one who used new glioblastoma (U373) and neuroblastoma (SK-N-SH) cell lines for such experiments. She also optimized the protocol for qRT-PCR with OASL isoform-specific primers.

Anďa managed to learn basic skills in terms of working in BSL2 area, including tissue culture experiments as well as experiments with TBEV. She also proved herself in terms of handling with RNA and subsequent analyses using RT-PCR or real-time PCR. Moreover, as a bachelor student, she understood the principles of real-time PCR data analysis without any major problems and was capable of active participation in the experimental design. Despite her problems with the work schedule, Anďa produced and processed a valuable portion of data which will be certainly used as a part of a publication dealing with OASL function in TBEV-infected human neural cells.

**Conclusion:**

In conclusion, I

**r e c o m m e n d / ~~do not recommend~~.**

In České Budějovice      date 14.9. 2017



signature