



Přírodovědecká
fakulta
Faculty
of Science

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

SUPERVISOR'S STATEMENT ON MASTER/DIPLOMA^{*} THESIS

Name of the student: Anna-Celine Danklmaier

Study program: M.Sc. Biological Chemistry

Department/Institute: Institute of Parasitology

Thesis title: Differentiating the Adhesion Properties of Surface Proteins between Various *Borrelia* Species

Supervisor: Ryan O. M. Rego Ph.D.

Supervisor's affiliation: Institute of Parasitology, Biology Center, CAS

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Formal and graphical quality of the thesis	0-3	3
Ability to work with literature	0-3	3
Language and stylistics	0-3	2
Formal requirements – points in total		8
(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	3
Discussion quality – interpretation of results and their discussion with the literature	0-3	3
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		13
POINTS IN TOTAL (MAX/AWARDED)	24	21

^{*} Choose one

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

Comments of the supervisor on the student and the thesis:

I was happy when Anna said she would like to do her Master's project in the lab, after initial discussions, because Anna had successfully done her Bachelor's work in the lab and had success working with *Borrelia* and in transforming and obtaining GFP expressing *Borrelia afzelii*, which was a first. She was very diligent and hard-working during that time and those are qualities I knew she would bring with her when she undertook the Master's. Unfortunately for Anna, COVID took away more than 5-6 months of lab work that she could have done, because of the restrictive measures between countries and also a broken foot. Anna was a different student from the one who was doing her Bachelor's. She had clearly developed and adapted more in the lab setting, becoming someone who thought clearly on their feet, designed and planned their experiments well and analysed their data. She was unlucky in that she was working with bacteria that are normally not susceptible to easy genetic modifications and a species of *Borrelia* that until now did not have a single gene knocked out. Anna's project was part of a running broader lab project and I hoped she would have similar success as before working with *Borrelia*. A lot of time and effort with some of the more tedious experiments, which of course does not get seen in a thesis, was spent by Anna without much complaints. She picked up a lot of new methods on her journey to complement those she had learned in her Bachelor's including using EM for immunolocalization. I cannot speak enough of Anna as person, she is very thoughtful and helpful in the lab to her fellow labmates and peers. The one place where Anna needed more encouragement was at moments even with all controls and everything else in place, experiments failed. This is a part of science but Anna was always second guessing if she had made mistakes, which is good of a scientist to look back, but not let the disappointment bring one down which I believe in some instances affected her. Overall I could not have asked for a better Master's student to take on this project and I thank Anna for choosing this lab.

Conclusion:

In conclusion, I

recommend / ~~do not recommend~~*

the thesis for the defense.

In C. Budejovice

date 26/1/2022



signature

