



Přírodovědecká
fakulta
Faculty
of Science

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

SUPERVISOR'S STATEMENT ON BACHELOR/DIPLOMA * THESIS

Name of the student: Julie Kratka

Study program: Biological Chemistry

Department/Institute: Laboratory of Molecular Ecology of Vectors & Pathogens, Institute of Parasitology BC CAS

Thesis title: Expression and characterization of defensins from the hard tick *Ixodes ricinus*

Supervisor: Ryan O. M. Rego

Supervisor's affiliation: Laboratory of Molecular Ecology of Vectors & Pathogens, Institute of Parasitology BC CAS

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Formal and graphical quality of the thesis	0-3	2
Ability to work with literature	0-3	1
Language and stylistics	0-3	1
Formal requirements – points in total		4
(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	14

* Choose one

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

Comments of the supervisor on the student and the thesis:

Julie joined the lab with an interest in the topic that I had proposed looking at expression of tick defensin, an antimicrobial peptide, and its characterization. I had initially got her to be supervised by a postdoc in the lab whose expertise was in protein expression. Unfortunately Julie's efforts at cloning were not rewarded and since she inadvertently cloned a different defensin, we decided she should try to explore that. Even then she did not have a lot of luck and given the problems with the actual supervision, I decided to supervise her 100% and asked her to evaluate defensins that were provided by a collaborator 2 years before Julie was in the lab. Julie worked hard on this part of her project, which involved a lot of manual hours of counting *Borrelia* and making sure of using controls etc. Overall Julie tackled a difficult project and although COVID measure did hamper her work briefly, I believe she did achieve some promising results that can move our investigation forward. Overall I was happy with Julie's work ethic in the lab and analysis of her results.

Conclusion:

In conclusion, I

~~recommend / do not recommend*~~

the thesis for the defense.

In Ceske Budejovice date 20/1/2022

A handwritten signature in blue ink, appearing to be 'R. K. P.', with a long horizontal line extending to the right.

signature