



Přírodovědecká
fakulta
Faculty
of Science

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

OPPONENT'S REVIEW ON BACHELOR/DIPLOMA* THESIS

Name of the student: Sabrina Vranjes

Thesis title: Differential expression of genes in replicative (spiral) and persistent (biofilms) forms of the causative agent of human Lyme borreliosis

Supervisor: Maryna Golovchenko

Referee: Mária Kazimírová

Referee's affiliation: Institute of Zoology, Slovak Academy of Sciences

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Extent of the thesis (for bachelor theses min. 18 pages, for masters theses min. 25 pages), balanced length of the thesis parts (recommended length of the theoretical part is max. 1/3 of the total length), logical structure of the thesis	0-3	3
Quality of the theoretical part (review) (number and relevancy of the references, recency of the references)	0-3	3
Accuracy in citing of the references (presence of uncited sources, uniform style of the references, use of correct journal titles and abbreviations)	0-3	2
Graphic layout of the text and of the figures/tables	0-3	3
Quality of the annotation	0-3	3
Language and stylistics, complying with the valid terminology	0-3	2
Accuracy and completeness of figures/tables legends (clarity without reading the rest of the text, explanation of the symbols and labeling, indication of the units)	0-3	2
Formal requirements – points in total		18
(2) PRACTICAL REQUIREMENTS		
Clarity and 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 the results and their discussion with the literature (absence of discussion with the literature is not acceptable)	0-3	2
Logic in the course of the experimental work	0-3	3

* Choose one

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

Completeness of the description of the used techniques	0-3	3
Experimental difficulty of the thesis, independence in experimental work	0-3	3
Quality of experimental data presentation	0-3	2
The use of up-to-date techniques	0-3	3
Contribution of the thesis to the knowledge in the field and possibility to publish the results (after eventual supplementary experiments)	0-3	3
Practical requirements – points in total		23
POINTS IN TOTAL (MAX/AWARDED)	48	(41)²

Comments of the reviewer on the student and the thesis:

The submitted bachelor thesis fulfills the requirements set for this type of work. It deals with a very important topic, the results are new and can be part of an extensive study on differential expression of genes in various forms of *Borrelia burgdorferi* s.l. with practical implication in treatment of Lyme borreliosis in future. Considering the student is not a native English speaker, the thesis is very well written.

Suggestions and questions, to which the student has to answer during the defense.

Mistakes, which the students should avoid in the future:

Although paragraphs comprising aims of the thesis and conclusions are present, they should be identified by the corresponding headings. There are a number of formal mistakes both in language, references to tables, figures and literature sources – all tables, figures should be referred to in the text, in some sections references to the relevant sources are missing. The format of references in the list should be uniform. Specific comments which should help the student avoid some errors in future are included in the thesis which I send attached to the evaluation.

I have one question: The thesis deals with *Borrelia burgdorferi* sensu stricto. Does the student think that gene expression profiles in various forms of the different species of the *B. burgdorferi* s.l. complex are the same or they may differ?

Conclusion:

In conclusion, I

recommend / ~~do not recommend~~*

the thesis for the defense and I suggest the grade 2 .³

In Bratislava date 12 June 2023

Mária Kazimírová

signature

² Enter the number of points awarded.

³ You can suggest a grade, which can be modified during the defense based on the presentation. However, if the reviewer is not present at the defense, the grade will not be counted. Grades: excellent (1). Very good (2), Good (3), Unsatisfactory/failed (4).

