



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: Lukas Florian Ortmayer

Thesis title: Selection of bacterium for mass production of *Phasmarhabditis* spp. and its effect on the mortality of slugs

Supervisor: Ing. Jiri Nermut, Ph.D.

Referee: Mgr. Sara Eliáš

Referee's affiliation: Department of Experimental Biology, Faculty of Science, Masaryk University, Kamenice 5, 625 00 9 Brno, Czech Republic

	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	2
Accuracy in citing of the references (presence of uncited sources, uniform style of the references, use of correct journal titles and abbreviations)	0-3	3
Graphic layout of the text and of the figures/tables	0-3	1
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	1
Formal requirements – points in total		15

(2) PRACTICAL REQUIREMENTS

Clarity and fulfillment of the aims	0-3	3
Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions	0-3	3
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	1
The use of up-to-date techniques	0-3	2
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	(0-48) ²

Comments of the reviewer on the student and the thesis:

The diploma thesis of Lukas Florian Ortmyer deals with the description of Selection of bacterium for mass production of *Phasmarhabditis* spp. and its effect on the mortality of slugs. The work begins with introductory research, where the author demonstrates his overview in this topic. The work clearly sets out the goals that have been achieved according to the chapters "results" and "conclusion". I positively evaluate the use of many bacterial species and their subsequent testing.

There are several shortcomings in the work. Right at the introduction, I would recommend that the chapters should be better linked so that the text follows each other. I evaluate the figures insufficiently described (e.g. Figure 2. the description of the axis is missing or is incorrect)

In the next work, I would recommend focusing on a better aesthetic presentation of the results and their more appropriate placement in the text.

I recommend this work for defense.

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

Mistakes, which the students should avoid in the future:

You are mentioning that in the study of Grewal (200) were used some granules. What kind of granules are they?

What specific conditions were used for storing nematodes in the refrigerator? I mean what temperature, concentration, and medium was used.

How many times was the experiment of growing DJ in different medias repeated? It is not very clear from the material and methods and this information is completely missing in the description of figure 1.

What could be the mechanism of the bacteria's inhibition of nematode growth?

One of your explanations for low yields in liquid and solid media is that the bacteria did not grow in the media. Shouldn't this have been tested before the experiment began to avoid it?

Conclusion:

In conclusion, I

² Enter the number of points awarded.

~~recommend / do not recommend*~~

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

In Riverside, California, USA date 11.1.2022



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signature



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).

