



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: Lukas Florian Ortmayer

Study program: Biological Chemistry

Department/Institute: Institute of Chemistry

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

Supervisor: Ing. Jiří Nermuť, Ph.D.

Supervisor's affiliation: Biology Centre CAS, Institute of Entomology, Branišovská 1160/31, 370 05 České Budějovice

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Formal and graphical quality of the thesis	0-3	2
Ability to work with literature	0-3	3
Language and stylistics	0-3	3
Formal requirements – points in total		8
(2) PRACTICAL REQUIREMENTS		
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 results and their discussion with the literature	0-3	2
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	3
Practical requirements – points in total		14
POINTS IN TOTAL (MAX/AWARDED)		
	24	22

^{*} Choose one

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

Comments of the supervisor on the student and the thesis:

Presented bachelor thesis aims the selection of the bacterium for mass production of *Phasmarhabditis* nematodes in lab scale. In the introduction part student summarized basic knowledge about the pestiferous molluscs, their natural enemies and biocontrol agents with the focus on nematodes, mainly genus *Phasmarhabditis*. Due to the lack of available information about the area of cultivation of nematodes of the genus *Phasmarhabditis* other than *P. hermaphrodita* the work represents the first step into the unknown field. This together with time consuming methods and limited amount of time (only one academic year) for experimental work did not allow to present wider results. On the other hand, thanks this work opened to way to following experiments and significantly helped us to understand the topic. This work is the first / preliminary part of our long-term research interest. Since the time our research team (included L. Ortmayer) have started with the research in this area, the methods were significantly improved thanks to and based on the presented results and methods were turned to more developed successful liquid culturing and using nematodes in more practical way. Results obtained by Lukas Ortmayer also served as methodological base for following research that will be published as standard research paper in peer reviewed journal and recently is in the process of preparing manuscript.

Within the work on thesis Lukas Ortmayer read and studied wide range of relevant sources (more than 50 cited works), that represent significant part of the knowledge in the field of control of pestiferous molluscs and *Phasmarhabditis* culturing. Student worked in the lab independently and was reliable member of our research team. He is able to manage all the methods described in the thesis on very good level and is able to work without any assistance. Despite the fact the work on this thesis was negatively influenced by the lack of time and covid epidemic that did not allow us to work in appropriate personal base, the presented work can be considered as very good valuable contribution to our knowledge in the field and I can definitely recommend it for defense.

Conclusion:

In conclusion, I

~~recommend / do not recommend*~~

the thesis for the defense.

In České Budějovice

date 4.1.2022



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signature