



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: Miriam Hopfgartner

Study program: Biological Chemistry

Department/Institute: Institute of Chemistry

Thesis title: Dissemination of *Cordyceps fumosorosea* by entomopathogenic nematodes

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	3
Ability to work with literature	0-3	3
Language and stylistics	0-3	3
Formal requirements – points in total		9
(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	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	3
Practical requirements – points in total		15
POINTS IN TOTAL (MAX/AWARDED)		
	24	24

* 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 dissemination of *Cordyceps fumosorosea* by entomopathogenic nematodes. In the introduction part student summarized basic knowledge about the entomopathogenic fungi, entomopathogenic nematodes and their symbiotic bacteria with the focus on *Cordyceps fumosorosea* and Steinernematid nematodes. Due to the lack of available information about the relationship of different biological agents used in pest control the work represents one of the first step into this field. This together with time consuming methods and limited amount of time (only one academic year) for experimental work did not allow to focus deeper in the topic. On the other hand, thanks to this work we shed more light, and understood much better our previous results and opened the way to following experiments that will help us to understand and utilize natural transmission of spores in the target environment. This work is part of our long-term research interest. Since the time our research team (included M. Hopfgartner) have started with the research in this area, the used methods were more developed and research will probably be finished within next academic year. Results obtained by Miriam Hopfgartner and presented in this thesis will be published as standard research paper in peer reviewed journal. Recently we are in the process of preparing manuscript. We expect that manuscript will be submitted within September or October of this year.

Within the work on thesis Miriam Hopfgartner read and studied wide range of relevant sources (more than 50 cited works), that represent significant part of the knowledge in the field of entomopathogenic nematodes and fungus and their use in biological pest control. Student worked in the lab independently and was reliable member of our research team. She is able to manage all the methods described in the thesis on excellent 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, the presented work can be considered as very good and valuable contribution to our knowledge in the field and I can definitely recommend it for defense.

Conclusion:

In conclusion, I

r e c o m m e n d / ~~d o n o t r e c o m m e n d~~*

the thesis for the defense.

In České Budějovice

date **23.8.2022**

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signature