



## SUPERVISOR'S STATEMENT ON BACHELOR/~~DIPLOMA~~<sup>\*</sup> THESIS

Name of the student: **Anna Marie Mikulecká**

Study program: **Biological Chemistry**

Department/Institute: **Chemistry**

Thesis title: **Diversity of mycorrhizal communities in roots of selected grassland plant species**

Supervisor: **doc. RNDr. Marie Šmilauerová, Ph.D.**

Supervisor's affiliation: **Department of Botany, Faculty of Science, University of South Bohemia**

	Point scale <sup>1</sup>	Points
<b>(1) FORMAL REQUIREMENTS</b>		
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
<b>(2) PRACTICAL REQUIREMENTS</b>		
Fulfillment of the aims	0-3	2
Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions	0-3	1
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	2
Contribution of the thesis to the knowledge in the field and the possibility to publish the results (after eventual supplementary experiments)	0-3	1
Practical requirements – points in total		7
<b>POINTS IN TOTAL (MAX/AWARDED)</b>	<b>24</b>	<b>(11)<sup>2</sup></b>

\* Choose one

<sup>1</sup> Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

<sup>2</sup> Enter the number of points awarded.

### Comments of the supervisor on the student and the thesis:

Anna contacted me with a list of questions dealing with my field of interest – arbuscular mycorrhiza – three years ago, during her first study semester, which was quite unusual. She accompanied me during a field sampling campaign for our GACR project and we agreed that she will use root samples collected for one part of that project for her bachelor thesis. She participated in all parts of sample processing – with the help of our technician Blanka Divišová and consulting with Dr Jirka Košnar.

During her one-year study in České Budějovice she managed on her own to quantify mycorrhizal colonisation of roots of 66 plant individuals (more than 3400 evaluated fields of view), and also prepared a part of samples for NGS under the guidance of Jirka Košnar, and she got acquainted with the post-processing of obtained molecular data. I highly appreciate her patience during microscoping all the samples.

During the long way of thesis writing I discovered that Anna is quick to ask questions but she is not so keen to search comprehensive answers, as if she would be content just to ask the questions. I was also surprised how little was she able to work with the knowledge she was expected to gain during her bachelor study (plant anatomy, basic statistical methods). She lacks the ability to combine her knowledge of theory with her own creative work and during the interpretation of collected data.

The bachelor thesis is usually student's first endeavour in the field of research publications and therefore its final state is rarely satisfactory either for the student or for his/her supervisor. I sincerely wish to Anna that she learns from the mistakes and she makes the asking clever questions just the first step on the way of gaining knowledge and passing it to her colleagues.

### Conclusion:

In conclusion, I

**recommen**d / ~~do not recommen~~d\*

the thesis for the defense.

In Ceske Budejovice 15<sup>th</sup> June 2021

