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: Linda Jernej
Study program: Cross-Border Study of Biological Chemistry
Department/Institute: Institute of Chemistry and Biochemistry
Thesis title: Genome analysis of Kutzneria sp. strain BCCO 10_1627 and detection of antifungal secondary metabolites

Supervisor: **Erika Corretto**
Supervisor`s affiliation: Institute of Soil Biology, Biology Centre CAS

	Point scale[1]	Points
(1) FORMAL REQUIREMENTS		
Formal and graphical quality of the thesis	0-3	2
Ability to work with literature	0-3	2
Language and stylistics	0-3	2
Formal requirements – points in total		6
(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	2
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		13
POINTS IN TOTAL (MAX/AWARDED)	24	19[2]

* Choose one

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

2 Enter the number of points awarded.

Comments of the supervisor on the student and the thesis:

The thesis consisted in a mix of bioinformatics analysis and practical work in the laboratory. For the bioinformatics part, the student learned how to assemble a bacterial genome and perform a phylogenetic analysis to assign a bacterium to a specific taxon. She received training for common microbiology techniques: preparation of growth media, cultivation of microbes (bacteria and fungi) in liquid and solid media. In addition, the student gained knowledge in the extraction of metabolites and performed tests to assess the extracts activity against different fungi.

During the stay in our group, the student acquired also a set of soft skills. She organized her work and time-schedule in order to complete the assigned tasks respecting the planned deadlines.

In her thesis, she gave a clear and concise overview on the state of the art in the field of bioinformatics and about the metabolic potential of Actinomycetes. She presented the results in a cohesive way, discussing and comparing the main findings with what is known from literature.

The obtained results contributed to an advance in the on-going project and will be partly used for the preparation of a manuscript for publication.

Conclusion:

In conclusion, I

recommend/~~do not recommend*~~

the thesis for the defense.

In **České Budějovice** date **06.09.2019**

Erika Corretto

signature