

Study programme: N-MCBE Molecular and Cell Biology

Diploma thesis external reviewer's evaluation

Author: Nikolaeva Vanina

Thesis title: Effects of newly synthesized compounds on the activity of intestinal microbial communities

External reviewer: Prof. PharmDr. Josef Jampilek, Ph.D.

	Evaluation criterion	Max.	Points
1	Objectives and structure of the thesis	4	4
2	Theoretical part elaboration quality	4	4
3	Practical part elaboration quality	4	4
4	Working with literature and citations	4	4
5	Adequate method selection and methodology laboriousness	4	4
6	Formal level of the thesis	4	4
7	Achieved results of the work (quality, importance)	4	3
8	Discussion	4	3
9	Comprehensible and adequate conclusion(s)	4	4
10	Achievement of the aims of the thesis	4	4
Total points:			38

Questions, comments, objections (continue on next page if needed):

A very-well written diploma thesis. The entire theoretical introduction is particularly valuable. From the amount of work/obtained data, it is clear that the student devoted a lot of time to her thesis.

The thesis has several minor shortcomings, e.g., it is not good to use the contractions "don't" ", "can't", etc. in professional texts and also not quite correct writing of chemical names according to IUPAC (italics, small letters versus capitals). The mentioned formalities in no way reduce the substantive quality of the work.

I have a few questions:

What are the MIC values of common antibiotics effective against the tested bacteria?

How would you explain the "greater sensitivity" of *S. typhimurium* compared to *E. coli*?

How would you explain the behaviour of GO-04/NM-05 and GO-12/GO-14?

Grading scheme:

A Excellent:	B Very good:	C Good:	D Satisfactory:	E Sufficient:	F Failed:
40-36	35-31	30-26	25-21	20-16	15 and less

Conclusion: I recommend the thesis for defense

Proposed grade (see the scheme below): A

Date and signature of the supervisor: 12.06.2023



In the overall evaluation of the thesis, the opinions of the supervisor and the external reviewer will be taken into account, as well as the level of the presentation (form, content, performance, meeting the set time). **The final grade is determined by the committee after consultation.**

Grading scheme:

A Excellent: 40-36	B Very good: 35-31	C Good: 30-26	D Satisfactory: 25-21	E Sufficient: 20-16	F Failed: 15 and less
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