



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: Mia Nußbaumer
Study program: Biological Chemistry
Department/Institute: Department of Chemistry
Thesis title: Role of the serotonin receptor type 7 (5-HT7) in autoimmune disease

Supervisor: Alexey Bondar, Ph.D.
Supervisor's affiliation: Department of Molecular Biology and Genetics, FSc USB

	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	2
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	2
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		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:

Mia Nußbaumer performed excellent high-quality independent research for her bachelor's thesis despite the coronavirus pandemic and unexpected experimental challenges. Mia was able to actively support setting up of the single-molecule imaging technique in the lab despite multiple technical challenges. She performed her cell culture and imaging experiments independently and was able to produce good amount of data. Mia learned to develop image analysis algorithms which she extensively applied to analysis of her results. Although we were not able to achieve all the planned goals due to extremely laborious nature of experiments, Mia's high standard of work ethic and amount of obtained data made an excellent contribution to the science in our lab. Mia wrote her thesis independently and, although her writing requires a bit of improvement, she produced a coherent solid well-structured text. I believe that Mia's research results are of high quality and her independence and data analysis abilities are excellent. I happily recommend the thesis of Mia Nußbaumer for the defense.

Conclusion:

In conclusion, I

recommend /

the thesis for the defense.

In Ceske Budejovice date 17.05.2023