



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: Sarah Gahbauer
Study program: Biological Chemistry
Department/Institute: Inst. of Chemistry
Thesis title: Three-Dimensional Visualization of Tick-Borne Encephalitis Virus Infection in Mouse Brain Tissue

Supervisor: Marie Vancová, Ph.D.
Co-supervisor: Jiří Týč, Ph.D.
Supervisor's affiliation: Faculty of Science, University of South Bohemia in České Budějovice; Institute of Parasitology, Biology Centre of the CAS

	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	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		14

* Choose one

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

Comments of the supervisor on the student and the thesis:

Sarah worked actively, learned how to prepare samples for SBF-SEM, work with large volume data, edit and stitch datasets using software, and create 3D models. Through her proactive approach, studying literature, ultrastructural atlases, and consultations, she quickly developed an understanding of the ultrastructure and function of brain cells, especially in the blood-brain barrier region, and described at the EM level numerous cellular ultrastructure alterations caused by TBEV virus, which was the main goal of her bachelor thesis. The text of this thesis is clearly organized, accompanied by many illustrative figures, although they could have been more thoroughly elaborated. The results obtained are discussed with several literature sources.

Conclusion: In conclusion, I recommend.

Conclusion:

In conclusion, I recommend the thesis for the defense.

In České Budějovice date 14. 6. 2023

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² Enter the number of points awarded.