



FACULTY OF SCIENCE  
Charles University

## Report on defence of dissertation thesis

Academic year: 2023/2024

**Student's name and surname:** Mgr. Martin Volek  
**Student's ID:** 58843410

**Type of the study programme:** doctoral  
**Study programme:** Molecular and Cellular Biology, Genetics and Virology  
**Study ID:** 601382

**Title of the thesis:** Development and use of deoxyribozymes that generate color and fluorescence  
**Thesis department:** Department of Genetics and Microbiology (1400)  
**Language of the thesis:** English  
**Language of defence:** English  
**Supervisor:** Edward Arthur Curtis, Ph.D.  
**Reviewer(s):** doc. RNDr. Radovan Fišer, Ph.D.  
Mgr. doc. Lukáš Trantírek, Ph.D.

**Date of defence:** 10.09.2024    **Venue of defence:** Praha  
**Attempt:** regular

**Course of the examination:** At the start of the defense, the chair of the committee briefly introduced the current academic and scientific experiences of the student. The student then presented the topic of his doctoral project: he introduced the committee and the public into the topic of nucleic acids and their catalytic activity, the main objectives of his work and the experiments he did to fulfill these objectives, as well as some problems he met during the course of his work and how he overcame them, the results he got and the conclusions he made based on these results. His experiments also included testing of some potential practical applications of deoxyribozymes he synthesized. His presentation took approx. 28 min. The supervisor then expressed his total satisfaction with the student's work and his preparedness for an independent scientific work. Both reviewers were present online, both also very positively assessed the thesis and had some questions that the student then satisfactorily answered (including two that the student could not be prepared for in advance). It was clear that he is very knowledgeable about his topic and very interested in his work. This was also clear from the general discussion that followed. The final part of the defense was the closed session of the committee, which not only recommended awarding the student the Ph.D. degree but also his graduation cum laude.

<b>Result of defence:</b>	pass (P)	
<b>Chair of the board:</b>	Holá Dana, doc. RNDr., Ph.D. (present)	.....
<b>Committee members:</b>	Grantz Šašková Klára, Mgr., Ph.D. (present)	.....
	Lankaš Filip, doc. Ing., Ph.D. (present)	.....
	Maloy Řezáčová Pavlína, doc. RNDr., Ph.D. (present)	.....
	Schneider Bohdan, prof. Ing., CSc. (present)	.....