



**BIOLOGY CENTRE CAS**  
Institute of Parasitology

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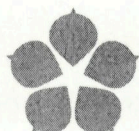
Dear committee members,

Even though David had to juggle a demanding class schedule with time-consuming experiments at the bench, he was able to manage his time extremely well and successfully complete several important experiments that helped to reveal the subunits of the  $F_0F_1$ -ATP synthase responsible for the dimerization of this macromolecular complex that contributes to the mitochondrial cristae ultrastructure of the human pathogen *Trypanosoma brucei*. David is very responsible and always came to the lab well-prepared. Before he started a new experiment, he thoroughly read the protocol and not only understood the purpose of each step but was also able to identify potentially problematic areas. This allowed him to successfully implement a wide variety of molecular biology techniques, some of which are quite advanced, in just a short time. David was also able to interpret his results and suggest conclusions from the experiment or troubleshoot what might have gone wrong. He also recorded very detailed scientific notes and fluently communicated his ideas about his research. David is a very motivated student, sending me a quite polished first draft of his thesis months before I usually have to start prodding students to complete various sections. With minimal input from me, he has demonstrated the ability to write in a clear and concise manner that expresses a clear understanding of the significance of the project.

Science is difficult, but I believe that David possesses a broad range of attributes that will help him to be successful in his future endeavors. Furthermore, he is a bright and very pleasant person to work with. We would like to thank David for all his contributions to the lab and we wish him all the best in his future endeavors.

Alena Zíková, PhD  
Institute of Parasitology  
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## STATEMENT OF THE BACHELOR THESIS SUPERVISOR

Name of the student: David Hollaus

Study programme: Biological Chemistry

Department/Institute: Institute of Parasitology

Thesis title: Determining the role of  $F_0F_1$ -ATP synthase dimers in *Trypanosoma brucei* mitochondrial biogenesis.

Supervisor: Alena Zíková

Supervisor's affiliation: Department of Molecular Biology and Genetics, CASR

	Point scale <sup>1</sup>	Points
<b>(1) FORMAL REQUIREMENTS</b>		
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
<b>(2) PRACTICAL REQUIREMENTS</b>		
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	3
Logic in the plan of the experimental work	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		18
<b>POINTS IN TOTAL (MAX/AWARDED)</b>	<b>27</b>	<b>(27)<sup>2</sup></b>

<sup>1</sup> Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

<sup>2</sup> Enter the number of points awarded.



**Suggestions and questions, to which the student has to answer during the defense:**

None

**Eventual mistakes, which the students should avoid in the future:**

None

**Additional comments of the supervisor on the student and the thesis:**

More often than not, the Linz biological chemistry students are exceptional in the lab. Even within this prestigious group, David is the best student we have had the pleasure to work with over the last 10 years. David is one of the few young scientists that already demonstrates proficiency in a wide range of skills that are required for a successful career in research. He has excellent hands at the bench, a deep scientific background and great communication skills. Furthermore, David's passion for science and pleasant personality made it exciting to supervise such a rare talent.

**Conclusion:**

In conclusion, I r e c o m m e n d the thesis for the defense and I suggest the grade of 1.

28.7.2020

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Signature

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Date