



Přirodovědecká  
fakulta  
Faculty  
of Science

Jihočeská univerzita  
v Českých Budějovicích  
University of South Bohemia  
in České Budějovice

## STATEMENT OF THE BACHELOR THESIS SUPERVISOR

**Name of the student:** Haindrich Alexander Christoph

**Study programme:** Biological chemistry

**Department/Institute:** Faculty of Science

**Thesis title:** Iron-sulfur cluster assembly in *Trypanosoma brucei*

**Supervisor:** Prof. RNDr. Julius Lukeš CSc.

**Supervisor's affiliation:** Director, Institute of Parasitology, Biology Centre, ASCR v.v.i.  
Professor, Faculty of Science, University of South Bohemia,

**Co-supervisor:** Somsuvro Basu, M.Sc.

	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	2
Ability to understand the results, their interpretation, and clarity of the results, discussion, and conclusions	0-3	3
Formal requirements – points in total		11
<b>(2) PRACTICAL REQUIREMENTS</b>		
Fulfillment of the aims	0-3	2
Discussion quality – interpretation of results and their discussion with the literature	0-3	2
Logic in the course 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 possibility to publish the results (after eventual supplementary experiments)	0-3	3
Practical requirements – points in total		13
<b>POINTS IN TOTAL (MAX/AWARDED)</b>	<b>27</b>	<b>24</b>

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

1. The recent advancement in the field, especially the pathway the student delved into, regardless the organism he dealt with.
2. The experiments he planned for the future, downstream to the ones done during the Bachelor thesis.

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

Devoting more time in writing the thesis, which can eventually minimize the effort writing the manuscript for publication.

**Eventual additional comments of the supervisor on the student and the thesis:**

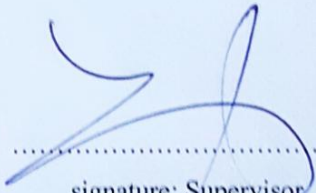
It was a pleasing experience to work with him. He always showed his interest in the project, zeal to learn more techniques. The flexibility of working hour is appreciable, eventually polished the thesis in a sound manner, which will be a healthy contribution in the future manuscripts.

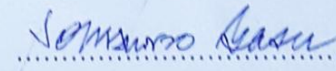
**Conclusion:**

**In conclusion, I RECOMMEND the thesis for the defense and I suggest the grade**

**1.**

In date 10.06.2013

  
.....  
signature: Supervisor

  
.....  
signature: Co-Supervisor

Here I present the 'supervisor's report' for **Alexander Christoph Haindrich** defending his bachelor thesis titled as "**Iron-sulfur cluster assembly in *Trypanosoma brucei*.**"

From a shaky start at day-0 which a person usually suffers from trying his hand out on molecular biology for the first time, Alexander showed a huge growth and leap at the end of his stay in our lab under my co-supervision. He stayed for 5-6 months in the lab scrutinizing the cytosolic iron-sulfur cluster assembly in the model organism *T. brucei*.

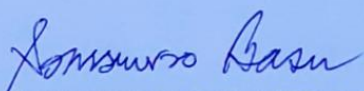
Alexander developed ~~from~~<sup>five</sup> combinations of RNAi double knockdowns of the gene candidates involved in the cytosolic iron-sulfur cluster assembly and concluded the results soundly while initially; we were suffering from showing the essentiality of the pathway in this parasitic protist.

He proved to be an independent molecular biologist with many ideas, which helped the project to have a steady progression.

In the frame of this bachelor thesis he learned the essential techniques involved in the molecular cell biology and cell culture of *T. brucei*, which bolstered his basic knowledge and will help him to flourish more if he wants to stay in this field.

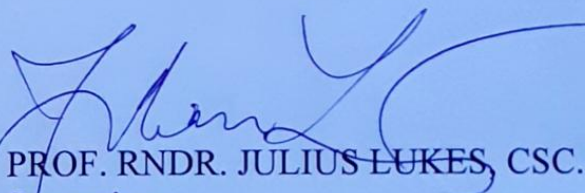
There are some lacunae in this thesis, which can be overlooked if we weigh the amount of work he has done. He operated on other several topics and those were not mentioned in the thesis, but will become visible in the future manuscripts after further refurbishment.

I am delighted and satisfied from his productivity and recommend granting him the bachelor's degree.



SOMSUVRO BASU, M.Sc.

Co-supervisor



PROF. RNDR. JULIUS LUKES, CSC.

Supervisor

Ceske Budejovice, 19<sup>th</sup> June, 2013