Přírodovědecká Jihočeská univerzita
fakulta v Českých Budějovicích
Faculty University of South Bohemia
of Science in České Budějovice

STATEMENT OF THE BACHELOR/DIPLOMA[*] THESIS REVIEWER

Name of the student:　　Eva Záhorská

Thesis title:　　Role of adipokinetic hormone PERAM-CAH-II in insect reproduction
Supervisor:　　Prof. RNDr. Dalibor Kodrík, CSc.

Reviewer:　　Doc. RNDr. Magdalena Hodková, CSc.
Reviewer` affiliation:　　Entomologický ústav ČSAV

	Point scale[1]	Points
(1) FORMAL REQUIREMENTS		
Extent of the thesis (for bachelor theses min. 18 pages, for masters theses min. 25 pages), **balanced length of the thesis parts** (recommended length of the theoretical part is max. 1/3 of the total length), **logical structure of the thesis**	0-3	3
quality of the theoretical part (review) (number and relevancy of the references, recency of the references)	0-3	3
Accuracy in citing of the references (presence of uncited sources, uniform style of the references, use of correct journal titles and abbreviations)	0-3	3
Graphic layout of the text and of the figures/tables	0-3	3
Quality of the annotation	0-3	3
Language and stylistics, complying with the valid terminology	0-3	3
Accuracy and completeness of figures/tables legends (clarity without reading the rest of the text, explanation of the symbols and labeling, indication of the units)	0-3	3
Formal requirements – points in total		21

(2) PRACTICAL REQUIREMENTS		
Clarity and 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 (absence of discussion with the literature is not acceptable)	0-3	2
Logic in the course of the experimental work	0-3	3
Completeness of the description of the used techniques	0-3	3
Experimental difficulty of the thesis, independence in experimental work	0-3	2
Quality of experimental data presentation	0-3	3
The use of up-to-date techniques	0-3	2

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[*]　Choose one
[1]　Mark as: 0-unsatisfactory, 1-satisfactory, 2-average, 3-excellent.

Contribution of the thesis to the knowledge in the field and possibility to publish the results (after eventual supplementary experiments)	0-3	1
Formal requirements – points in total		22

POINTS IN TOTAL (MAX/AWARDED)	48	43

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

Are adipokinetic and allatostatic pathways controlling Vg independently or may they influence one another, for example by feedback action of Vg?

Vg was visualized by immunoblotting (control group). Quantification (and visualization) of Vg was performed on stained SDS-PAGE gels (all groups). Do you consider the quantification of Vg after immunoblotting less precise?

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

p. 10 – Žitňan 1996 in the text, but Žitňan et al. in References
p. 24 – Vg increase is one day delayed in controls due to stress caused by Ringer
        injection rather than by hormone injection
p. 24 – dependent should be instead of depended
        denaturated should be instead of denatured
p. 29 – *PYRRHOCORIS APTERUS*   (HETEROPTERA) in capitals

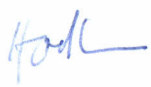### Eventual additional comments of the reviewer on the student and the thesis:

n is relatively small, particularly in case of Peran-CAH-II double injection group

Conclusion:

In conclusion, Eva Záhorská managed to realize two methods, SDS-PAGE electroforesis and immunoblotting and found similar suppressions of Vg synthesis by allatostatin and adipokinetic hormon in *Pyrrhocoris apterus*. The work is written in good English that merits praise.

I r e c o m m e n d the thesis for the defense and I suggest the grade 1[2]

In Česke Budějovice, 15.6.2014

M. Hodkova

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[2] You can suggest a grade, which can be modified during the defense based on the presentation. However, if the reviewer is not present at the defense, the grade will not be counted.