



STATEMENT OF THE BACHELOR THESIS REVIEWER

Name of the student: Hedvika Primasová
Thesis title: The use of artificial opsonization for cancer treatment
Supervisor: RNDr. Jan Ženka, CSc.
Reviewer: Mgr. Pavlína Kaiserová
Reviewer's affiliation: Krajská zdravotní, a.s. – Nemocnice Chomutov, o.z., Hematologicko-transfuzní oddělení

	Point scale ¹	Points
(1) FORMAL REQUIREMENTS		
Extent of the thesis (for bachelor theses min. 18 pages, for masters theses min. 25 pages), balanced extents of the thesis divisions (recommended extent of the theoretical part is max. 1/3 of the total extent), 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	2
Graphic layout of the text and of the figures/tables	0-3	3
Adequacy and clarity of the results and conclusions	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 even without reading the rest of the text, explanation of the symbols and labeling, indicating the units)	0-3	3
Formal requirements – points in total		23
(2) PRACTICAL REQUIREMENTS		
Clarity of the aims	0-3	3
Fulfillment of the aims	0-3	3
Discussion quality – interpretation of results and their discussion with the literature	0-3	3
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	3
Quality of experimental data presentation	0-3	3
The use of up-to-date techniques	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		25
POINTS IN TOTAL (MAX./AWARDED)	51	48

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

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

In the theoretical part is written, that macrophage are activated by T lymphocytes. Could you describe the mechanism?

Why did you wait overnight before centrifugation of the serum for the IgG preparation?

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

Correct form of the cited articles should begin with surname of the author (<http://www.lib.jcu.cz/docs/ak-ikurz-citace-citacni-etika.pdf>).

The chapter "Aims" is missing.

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

The thesis of Hedvika Primasová is focused on very current topic – Cancer treatment, especially on the role of innate immunity in cancer therapy and the efforts to use artificial opsonization to enhance innate immunity.

It has classical division, although I am missing the chapter "Aims". The theoretical part consists of 14 pages of properly cited text. It is focused on main topics of this thesis - cancer, melanoma, cancer immunology and cancer immunotherapy. The parts fit well together and the author explains the later used terms.

In experimental part (6 pages) author clearly describes material, methods and the schedule of experiments.

The results are summarized on 4 pages, in synoptic charts and tables. Author used two experimental approaches, *in vivo* and *in vitro*.

Although the *in vitro* experiments need to be optimized, author has learned and manually performed several methods useful for further laboratory praxis such as cell and IgG preparation, fluorimetry and statistical methods.

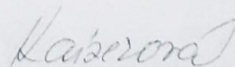
I hope that the author will continue with this topic, because *in vivo* experiments has shown statistically significant results in tumor reduction and it would be appropriate to publish these data after repeating a clearing the mechanism of action.

Conclusion:

In conclusion, I r e c o m m e n d the thesis for the defense and I suggest the grade excellent.²

In Chomutov

date 8.6.2013



signature

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.