

Mirodovědecká jihočeská universita takulta v Českých Budějevnoch Fercilly onversity of South Bohemi of Source in Ceska Budějevice

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. Pavlina Kaiserová.

Reviewer' affiliation: Krajská Zdravotní, a.s - Nemocnice Chomutov, o.z, Hematologicko-

transfurni oddělení

Extent of the thesis for bachelor thesis min. 18 pages, for missions theses min. 28 pages), balanced extents, logical structure of the thesis (incommenced extent), or the theoretical part (incident extent), logical structure of the thesis quality of the theoretical part (incident) for the incident sources, uniform size of the references, use of correct journal titles and abbreviations). Graphic layout of the test and of the figures/tables. Adequacy and clarity of the nexults and conclusions. Quality of the annotation. Language and stylistics, complying with the valid terminology. Accuracy and completeness of figures/tables lagends (tably even without making the rest of the test. 6-1 explanation of the symbols and labeling, indicating the units). Formal requirements – points in total. (2) PRACTICAL REQUIREMENTS. Clarity of the aims. Discussion quality – interpretation of results and their discussion with the literature. Logic in the course of the experimental work. Completeness of the description of the used techniques. Experimental difficulty of the thesis, independence in experimental work. Quality of experimental data presentation.		Point scale	Points
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The use of up-to-date techniques (i.i.)	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 (sher ()) eventual supplementary experiments)	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	Practical requirements - points in total		25
POINTS IN TOTAL (MAXIANIARDED) 51 48	POINTS IN TOTAL (MAXIAWARDED)	51	48

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 recommend the thesis for the defense and I suggest the grade excellent.²

In Chomutov

date 8.6.2013

signature

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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.