

CHARLES UNIVERSITY
FACULTY OF PHARMACY IN HRADEC KRALOVE

Department:

Department of Biological and Medical Sciences

Master's degree program in Pharmacy

Opponent's review of Master's thesis

Student's name: Constance Bontle Mphetang

Mentor of the thesis: Associate Professor Petr Nachtigal,
PhD

Year of the thesis
defense: 2017

Opponent of the thesis: Iveta Najmanová, PhD

Title of the thesis:

The importance of membrane and soluble endoglin in atherosclerosis

Formal comments: number of pages: 65, number of figures: 6, number of tables: 0, number of references: 155.

Type of work: Literature review

- a) The aim of the thesis is: Fulfilled
- b) Language and graphic level: Very good
- c) Processing of the theory: Very good
- d) Methods description: Not commented, Literature review thesis
- e) Results description: Not commented, Literature review thesis
- f) Discussion and conclusions: Very good

I recommend Diploma thesis for the recognition as Rigorous thesis .

Opponent's comments: This diploma thesis is focused on cardiovascular diseases, which are the number one cause of death globally. For this reason, it is necessary to fully understand all aspects that contribute to the formation of endothelial dysfunction and the development of atherosclerosis.

The quality of this diploma thesis is very high. Number of citations is excellent and the level of written English is very good. Though, sometimes brief and general facts appeared (in some chapters), the author mentioned all the important data.

On the other hand I have a few comments about the formal aspect of the diploma thesis: Page numbering is incorrect, it starts on the first page but it should be hidden until the page with "Introduction".

A list of abbreviations is missing, which is a pity, given the large number of abbreviations in the diploma thesis. It could also help to unify some of them (angiotensin II x angiotensin 2, Ang1 x Ang-1, eNOS x Enos, sEg x sEng). A list of figures is also missing.

All references are correctly cited, however citation No. 8 is an on-line source and the link is missing. Although the on-line resources of the figures are listed below them, they should be also included at the "References" at the end of the diploma thesis.

Questions:

- 1) What is it the hyperpolarizing factor and are there any interactions with NO or prostacyclin?
- 2) In which part of the placenta is endoglin expressed?
- 3) How does the level of soluble endoglin change with gestational age? Compare pregnancies unaffected and affected by pre-eclampsia.

Evaluation of Master's thesis: Very good

Recommendations for the thesis defense: Recommended

In Hradec Kralove

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Opponent's signature