

CHARLES UNIVERSITY
FACULTY OF PHARMACY IN HRADEC KRALOVE

Department: of Biological and Medical Sciences Master's degree program in Pharmacy

Opponent's review of Master's thesis

Student's name: Hyojung Park

Mentor of the thesis: doc. PharmDr. Miloslav Hronek, Ph.D.

Year of the thesis

Opponent of the thesis: PharmDr. Jana Rathouská, Ph.D.

defense: 2022

Title of the thesis:

Nutritional factors in etiopathogenesis of Alzheimer's disease

Formal comments: number of pages: 66, number of figures: 0, number of tables: 0, number of references: 177.

Type of work: Literature review

- a) The aim of the thesis is: Fulfilled partially
- b) Language and graphic level: Excellent
- c) Processing of the theory: 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:

Minor points:

- 1.) Table of contents declares page numbers, however page numbering is not present in the entire thesis.
- 2.) The thesis is not provided by any graph, table, figure or scheme. Since the text often describes some detailed mechanisms and consequences, at least some figures would be valuable and descriptive for the reader.
- 3.) Several facts are repeated frequently. Especially some statements about fatty acids, vitamins and minerals overlap when reading chapter 6 about dietary factors and chapter 9 about nutritional recommendations.
- 4.) There are several minor discrepancies in citations.

Major points:

- 1.) The thesis lacks a Czech abstract.
- 2.) Despite some interesting points and up-to-date facts, the information often do not logically follow each other. Moreover, several paragraphs include sentences that do not reasonably connect each other.
- 3.) Though having the etiopathogenesis of Alzheimer's disease in both the title and the aim of the study, the etiopathogenesis of AD is not described at all.

Questions:

- 1.) Could you describe the basic etiopathogenesis of Alzheimer's disease?
- 2.) In your thesis you use a term "excitotoxicity". Could you explain the meaning of this term?
- 3.) The chapter 6.1.4 discusses dietary carbohydrates. Why is Alzheimer's disease also called "type 3 diabetes"?

Evaluation of Master's thesis: Good

Recommendations for the thesis defense: Recommended

In Hradec Kralove 31.8. 2022

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Opponent's signature