

## Supervisor assessment

Author of thesis: Jiří Hrubý

Title of thesis: Autophagy induction decreases the presence of endogenous P301S tau aggregates

Type of thesis \*: Bachelor of Science

| Evaluation criteria |                                                                                                | Grades |   |   |   |   |   |               |
|---------------------|------------------------------------------------------------------------------------------------|--------|---|---|---|---|---|---------------|
|                     |                                                                                                | A      | B | C | D | E | F | non-evaluable |
| 1                   | Interest in the topic (frequency of discussions with the adviser, knowledge of the literature) | A      |   |   |   |   |   |               |
| 2                   | independence during the thesis writing                                                         | A      |   |   |   |   |   |               |
| 3                   | language and stylistic quality of thesis                                                       | A      |   |   |   |   |   |               |
| 4                   | working activity                                                                               | A      |   |   |   |   |   |               |
| 5                   | manual skills, accuracy and reliability                                                        | A      |   |   |   |   |   |               |
| 6                   | self-reliance within the experiments                                                           | A      |   |   |   |   |   |               |
| 7                   | analysis and interpretation of experimental data                                               | A      |   |   |   |   |   |               |

Note<sup>1</sup>: if impossible to apply, use "non-evaluable"

Note<sup>2</sup>: mark with "X"

Note<sup>3</sup>: final grade is based only on evaluable (A-F) items

\* - select "Bachelor" or "Master of Science"

**Grade  
(A-F)**

A

Please, attach your comments and questions as well as reasons for your evaluation at the next page (pages)

**Conclusion: the thesis is recommended for defense**

Olomouc (i.e. place), (date): 23.06.2020

Narendran Annadurai

*A. Narendran*

Signature: (Name of supervisor)

**Comments:**

The thesis is well structured. The thesis demonstrates author's understanding and command of recent literature for the Bachelor level. Jiří Hrubý used appropriate language and style, including academic format for graphs and tables. The text effectively refers to graphs and tables and disposes with a complete bibliography. The tools used are relevant to the research question being investigated, and adequate to the author's level of studies. At this Bachelor level, Jiří needed guidance at the initial stage of the work. With enthusiasm over the project, he focused on learning new techniques. At the end of the thesis period, Jiří Hrubý was able to do the experiments on his own and able to interpret and analyze the results with the research questions. He also has a very good skill to make the informative figures in the literature review.

Overall, this is an excellent bachelor thesis, written briefly with a strong focus on the result.

**Questions:**

1. What are the types of cellular protein aggregate clearance systems?
2. How tau protein aggregates responsible for the pathology in neurodegenerative diseases?
3. How extracellular tau peptide aggregate induce intracellular tau aggregates?
4. Define autophagy
5. How autophagy helps to clear the intracellular tau protein aggregates?