

# CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Tropical AgriSciences

## Evaluation of the Bachelor Thesis by Opponent

Thesis Title **Processing and health benefits of matcha – a review**

Name of the student **Xuejiao Wei**

Thesis supervisor **Ing. Olga Leuner, Ph.D.**

Department **Department of Crop Sciences and Agroforestry**

Opponent **Ing. Ingrid Faltová**

Formulation of the aims	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Choice of suitable methods	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Fulfilment of the aims	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Scientific contribution of the thesis	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Originality of the thesis	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Theoretical background of the author	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Handling with data and information	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Handling with scientific literature (citations)	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Argumentation and critical thinking	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Abstract and keywords	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
Structure of the chapters and paragraphs	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Comprehensibility of the text	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Accuracy of the terminology	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Quality of scientific language	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Formatting, layout and general impression	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
Evaluation of the work by grade (1, 2, 3, 4)	<b>3</b>			

Evaluation: 1 = the best

Date 05/09/2021

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Signature of Opponent

**Other comments or suggestions:**

In the submitted thesis author is focusing on the processing and health benefits of matcha. Despite very interesting topic, overall impression of the work is rather weak. The thesis is not comprehensive and sometimes it was difficult to follow. I found some information redundant, at the same time, other important information was missing. The author used 63 references, however, the citation format is not uniform and is not in accordance with the required directive. On the other hand, I would like to emphasize that author has chosen suitable methods and fulfilled the aims of the thesis.

I have following comments:

The thesis lacks a list of abbreviations.

Latin names e.g. *Camellia sinensis* should be written in italics.

The work contains several typing errors which made some sentences difficult to understand e.g. "Otherwise, the irritation and coldness of matcha will cause excessive gastric acid secretion and induce the adverse effects of hypoglycaemia, which will cause palpitations, palpitation, weakness, dizziness, and dizziness. appear."

Another example: "Then use and dryer for further drying."

I miss the introductory paragraph in chapter 6 (Chemical composition and methods) describing which substances does author want to test, why, and how.

The author sometimes switches between active and passive tense even within a single paragraph.

e.g." Use steam or steam hot air to make the dry tea green... ..Fresh tea leaves are exposed to heat for about 10 to 15 minutes in a fixation process."

Despite the above-mentioned comments, I evaluate the bachelor's thesis positively and I suggest evaluation as "good".

**Questions for thesis defence:**

- 1) Is there any potential toxicity of epigallocatechin gallate (EGCG)? If yes, please state examples.
- 2) Please, describe the difference between caffeine absorption from matcha versus from coffee in time.

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