

CZECH UNIVERSITY OF LIFE SCIENCES PRAGUE

Faculty of Tropical AgriSciences

Evaluation of the Bachelor Thesis by supervisor

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**

Cooperation and communication with the supervisor

1 2 3 4

Engagement of the student

1 2 3 4

Schedule and timing of the research process

1 2 3 4

Choice of suitable methods

1 2 3 4

Fulfilment of the aims

1 2 3 4

Scientific contribution of the thesis

1 2 3 4

Theoretical background of the author

1 2 3 4

Handling with data and information

1 2 3 4

Handling with scientific literature (citations)

1 2 3 4

Argumentation and critical thinking

1 2 3 4

Abstract and keywords

1 2 3 4

Structure of the chapters and paragraphs

1 2 3 4

Comprehensibility of the text

1 2 3 4

Accuracy of the terminology

1 2 3 4

Quality of scientific language

1 2 3 4

Formatting, layout and general impression

1 2 3 4

Evaluation of the work by grade (1, 2, 3, 4)

3

Evaluation: 1 = the best

Date 03/09/2021

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Supervisor signature

Other comments or suggestions:

Matcha is a unique and specific type of tea popular in many countries and a complete review of its health effects is missing. This gap should have been filled by this thesis. Unfortunately, the bachelor thesis is not very well written. The level of English language is poor making the text very hard to read. The text is not comprehensive, some information is extra and some is missing. The chapter 7. Health effects of matcha on consumers seems to be the best part of this thesis, unfortunately, it contains sentences such as "If you need to improve your concentration and wake up for better performance, but you don't like coffee, try this tea", that reduce the scientific level of the text. In order to receive a complete review on the health benefits of matcha, the thesis would have to be improved considerably; nevertheless, it contains some information and the text can be defended as a bachelor thesis.

Comments for the author:

The abstract should not contain an abbreviation that is not explained, except those that are notorious (not the case for EGCG).

The classification system of Camellia (pages 7-8) does not add anything important to the topic of the bachelor thesis and shouldn't have been a part of it.

Examples of sentences that are not understandable:

Page 12, chapter 4.1, the last paragraph on the site: "The tree has a medium posture and a strong tree."

Page 13, chapter 5.1, the last paragraph on the site: "Those that fail to be processed in time are sung."

Page 15, chapter 5.1, section Initial drying: "After passing through 4 sections of different temperature mesh belts, it lasts 20-25 Complete the initial baking in minutes."

Page 18, chapter 6, section Catechin content and method: "Matcha tea is prepared in the traditional way in water, and the syringe is filtered before analysis." It would be recommendable to call this section Catechin content and method of its analysis (or similarly).

Some parts of the text are written in an imperative (e.g. in the chapter 5.1), this is not common for scientific text.

I would recommend avoiding expressions such as "my country's..." as the reader does not have to be familiar with the country of origin of the author (page 17).

Chapter 5.2 Refined has a strange title and it contains a part called "Gold exploration". I have some doubts whether it is a correct name for the processing operation and the cited sources is, unfortunately, not available.

The abbreviation ECG is not explained in the text (just in the explanation below the picture).

The section Catechin content and method of the chapter 6. Chemical composition and methods does not, surprisingly, contain any information on the content of catechins, except an information about their presence (no amount of these compounds) and also no methods of catechins detection – the method could only be guessed from presented electropherogram; nevertheless, the presented figure seems to be a chromatogram rather than electropherogram. The source of the figure is not provided. The formulas in the section Chlorophyll content and method are just copied from other sources without any connection with this bachelor thesis.

The whole chapter 6. Chemical composition and methods makes an impression the author conducted the laboratory analyses. This is obviously not the case; I believe it should have been a literature review of possible analytical methods.

The conclusion is rather poor, the information that matcha is known in Japan is no conclusion to this thesis.

References are not formatted according to the "Citation Rules of the Faculty of Tropical AgriSciences" and some of them cannot be found based on the provided references.

Plagiarism control: The system Theses.cz has not assessed the thesis as suspicious.

Date 03/09/2021

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