

Tutor Evaluation of Master Thesis

Author Name: GLORY EBHOSETALE OKOJIE

Thesis Title: Genetic mapping of seed dormancy as a key domestication trait in pea (*Pisum sativum* L.)

Tutor Name: prof. Ing. Petr Smýkal, Ph.D.

Criteria N.	Evaluation criteria	Points (0-5)
1	Work activity	4
2	Interest in thesis topic (frequency of discussions with the tutor, knowledge of relevant scientific literature)	4
3	Manual skills	3
4	Diligence and reliability	4
5	Evaluation and interpretation of experimental results	3
6	Independence during thesis writing	3
Total points		21

Max.
30

Comments and questions to the thesis:

The presented thesis focuses on the assessment of two genes encoding calcineurin-like proteins identified in previous work as candidates involved in pea seed dormancy. Due to the time available for the thesis, the applicant has performed the experimental work over the course of 4 months. This was reflected in the thesis task and outcome. It was necessary to learn the majority of the laboratory methods and also due to the lacking time (starting in September 2023) the isolated DNA was already provided for the work as well as the phenotypic analysis of the entire mapping population for seed dormancy/imbibition. Nevertheless, the applicant accomplished to conduct PCR followed by restriction analysis of polymorphism of selected two candidate genes and assess their relationship to the seed properties. In addition, the microscopic analysis of selected lines and their dormancy testing was done. Finally, the diversity and possible selection were estimated in pea diversity panel samples. Despite the pitfalls and lacking time, reasonable solid data were produced and analysed.

I evaluate the applicant on the scale of criteria by ranking B.

Conclusion: I recommend this thesis for defence.

In Olomouc on May 17, 2023

Signature:

Thesis evaluation according to total points:

A – 26-30
B – 21-25
C – 16-20
D – 11-15
E – 6-10