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To Whom it May Concern,

The PhD thesis by Andras Patyi focuses on two key issues in lupin production: 1. Anthracnose disease caused by the pathogen *Colletotrichum lupini* that causes significant yield constraints if susceptible varieties are grown and 2. Alkaloid content in the lupin grain, which if it exceeds 0.02% cannot be used for human consumption. The thesis focuses on the identification of novel sources of anthracnose resistance and major loci that control alkaloid biosynthesis. The PhD research has resulted in two published peer-reviewed articles. I have provided some minor comments on these articles as they are already in press. The comments focus on suggestions for further research or request additional information that should have been provided in the articles for greater clarity. The others are minor formatting issues that should have been picked up by the authors of the paper during the proofing stage. Having said that the content and quality of the research is of a standard of a PhD and I would like to congratulate Andras on a nice body of work.

After reading the thesis I felt the non-published written section should have come after the two published peer reviewed articles as it often refers to the two articles without enough background information/context. The assumption was thus made that you had read these articles and then read the rest of the thesis. I found it odd to read about a summary of the results and a general discussion on the two papers without having the papers listed before this section. In essence, all the content is there, it is the organization and order that they appear in that could be improved. Having said that if this is the structure set out by the University that the candidate must adhere to, then I suggest providing more detailed information in certain sections as per my edits on the thesis.

In my opinion, the PhD thesis by András Patyi meets the requirements for a doctoral thesis, once he has addressed my minor changes in the unpublished chapter. I therefore recommend that the candidate be awarded the degree of Doctor.

Kind Regards,



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