

## List of amendments in MRes thesis – corrected version submitted January 2025

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1) The term 'endophytic grass' has been replaced with 'endophyte-infected grass' where appropriate. Presentation of scientific names has been corrected. Minor formatting and spelling errors have been corrected.

2) Some more background has been added on sugar beet production and factories in the UK, including on virus overwintering and persistence.

Excessive information on volatile organic compounds has been removed. This section focusses on how plant signalling influences fungal symbiosis and is needed to help set the background for endophytes.

3) Project aims have been re-written to focus on the work done, specifically physiology, bio stimulatory effects and biomass measurements. Focus on aphid resistance and aphid behaviour have been removed.

4) Justification for the glasshouse split plot design and choosing 10g of seed meal has been added. The methodology sections in Chapter 2 and 3 have been restructured and re-written to improve readability. Duplicate data in tables has been removed from main text and moved to appendix, retaining only the graphs in main text.

5) Information on how data was handled is mentioned. A two-way ANOVA has been re-performed in experiment two of Chapter 2 to test for significance in treatment interactions. ANOVA was also performed on the ELISA data to make it more quantitative and results discussed accordingly.

6) "Symptom expression" is now referred to as "Disease incidence" in Chapter 3. Discussion sections in Chapter 2-4 have been expanded to include some more external literature where possible. Results from the experiments are discussed in context to applicable wider research with different endophyte crop pathosystems.