

Reviewer Report

Title: DeepPod: A Convolutional Neural Network Based Quantification of Fruit Number in Arabidopsis

Version: Revision 1 **Date:** 12/6/2019

Reviewer name: Andrew French

Reviewer Comments to Author:

Dear Authors

Thank you for spending time to work through the comments. I am happy that with the corrections the paper is now suitable for publication.

However, I have two suggestions to make based on a couple of the revisions:

1. Regarding this revision:

Thank you for the suggestion. We do have estimates of silique length for all the test examples in Set-2, and have now provided the results (including the mean and range of the silique length) in CSV file as Supplementary Data S1.

>>This is good to see - I wonder if you could manually ground truth just enough of this data to demonstrate the measurements are valid?

2. Regarding this revision:

Our annotation approach does not require detailed segmentation of the images, only pixel/point sampling for the main structural regions are required. Although most tips and bases have been annotated, only a small portion of patches for body or stems have been labelled (see Figure 3).

>>Could you add some more info to Fig 3 legend to help explain this sampling labelling strategy? Neither of these are essential, but will make for an improvement to the paper I feel.

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