

## Rice Science

**Manuscript ID:** RiceSci-2025-0304

**Paper Title:** *Evaluation of the leaf spectra (150-1100nm) of the rice tetraploids and their spontaneous reverted counter partners*

*The letter highlights the absorption wavelengths in the UV and NIR regions, which can be used as indicators to differentiate between diploid and tetraploid varieties. This is an important contribution, especially for remote sensing applications in precision agriculture and crop research.*

**1) Line 35:** “we conducted a multi-year experiment (2022–2025)”. The manuscript should provide a clear analysis of the repeatability of measurements over the years and the factors affecting the variability of the data. This will enhance the reliability of the study.

**2) Line 74 - 89:**

*I needed a considerable amount of time to read Figure 1. It was quite difficult to understand, so I had to make some guesses. Therefore, Figure 1 needs to be clarified as follows:- Lack of clear X,Y axis labels and units*

*- There is no explanation in the figure itself about the meaning of these colors. A legend or annotation explaining what each color represents would enhance understanding for readers unfamiliar with the specific experiment.*

**3) Line 08:** The manuscript should consider briefly summarizing techniques such as PCA, ANOVA, and SNV correction.

**4) The manuscript lacks a discussion on limitations. Therefore, the draft should include this section.**

**5) SUPPLEMENTAL DATA:** Fig S4 (B); Fig S5; Fig 6 need to include X and Y axes.