

## **General comment**

Overall, this manuscript presents a comprehensive study on the evaluation of *Aegilops tauschii*-derived introgression lines (ILs) for heat and drought tolerance in wheat. The study is very interesting and well-designed, and the findings may give significant resources for research and may aid in deciphering the Salicaceae's complicated evolutionary architecture. **I have some minor comments which could be addressed to improve the manuscript and increase the chance of publication.**

**Here are some specific comments and suggestions for improvement:**

1. Clarity and Organization: The manuscript is well-structured and organized, with a clear delineation of the objectives, methods, results, and conclusions. **However, some sections could benefit from further clarification or elaboration, particularly in explaining the rationale behind certain experimental approaches or data interpretation.**
2. Methodological Rigor: The methodology appears robust, with appropriate experimental designs and statistical analyses. **However, more details could be provided regarding specific protocols and procedures, particularly in the seedling evaluation and field trials sections, to ensure reproducibility by other researchers.**
3. Results: **Additional discussion on the implications of the findings in the context of previous research or theoretical frameworks could enhance the manuscript's scientific significance.**
4. Significance and Novelty: The manuscript addresses an important issue in agriculture - improving stress tolerance in wheat - and utilizes novel genetic resources from *Aegilops tauschii*. Emphasizing the novelty and potential impact of the findings could strengthen the manuscript's contribution to the field.
5. Language and Style: Overall, the language is clear and concise. : **Additionally, there are instances where terminology could be clarified or jargon reduced to improve accessibility to a broader audience, particularly in describing complex genetic concepts or experimental techniques.**
6. Figures and Tables: The figures and tables provided are informative and well-designed. : **Additionally, ensuring consistency in labeling and clarity in presentation would enhance their effectiveness in conveying key results and trends.**
7. Future Directions: It would be beneficial to include a brief discussion on future research directions or potential applications of the findings, particularly regarding further genetic studies or breeding efforts aimed at developing stress-tolerant wheat varieties.

**# Also check all references in the text and reference list carefully some are missing from the list or not cited in the text.**

Overall, the manuscript presents valuable research on improving stress tolerance in wheat through the utilization of introgression lines from *Aegilops tauschii*. Addressing the above points could strengthen the manuscript and increase its impact in the field of agricultural genetics and breeding