

Review Form 3

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_JABB_120370
Title of the Manuscript:	Understanding The Significance of Raffinose Family Oligosaccharides in Seed Physiology
Type of the Article	Short Research Article

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PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.</p>	<p>This manuscript provides significant insights into the role of Raffinose Family Oligosaccharides (RFOs) in enhancing seed vigor and longevity, which are crucial for crop yield and global food security. It delves into the biochemical mechanisms of seed deterioration and how RFOs contribute to mitigating these processes. The manuscript's focus on RFOs' diverse functions, such as cytoplasmic vitrification, water substitution, and osmoprotection, highlights their essential role in seed health and storage. I appreciate this manuscript for its comprehensive approach to a complex topic, combining biochemical, physiological, and agricultural perspectives to address seed preservation challenges.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>Yes, The title "Understanding The Significance of Raffinose Family Oligosaccharides in Seed Physiology" is suitable.</p>	
<p>Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The abstract is comprehensive, providing a clear overview of the key points discussed in the manuscript.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The subsections and structure of the manuscript are appropriate. The manuscript is well-organized, with clear headings that guide the reader through the various aspects of seed physiology, the role of RFOs, and the biochemical processes involved. Each section builds logically on the previous one, creating a cohesive narrative.</p>	
<p>Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.</p>	<p>The manuscript is scientifically robust and technically sound, presenting well-supported arguments and evidence from various studies. It effectively integrates biochemical and physiological data to explain the mechanisms by which RFOs enhance seed vigor and longevity. The use of recent references and detailed explanations of the roles of different biochemical processes in seed preservation adds to the manuscript's credibility and depth.</p>	
<p>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p>	<p>The references are sufficient and recent, reflecting current research in the field of seed physiology and biochemistry.</p>	
<p>Minor REVISION comments</p> <p>Is language/English quality of the article suitable for scholarly communications?</p>	<p>The language and English quality of the article are suitable for scholarly communications. The manuscript is well-written, with clear and precise language that effectively conveys complex scientific concepts.</p>	
<p>Optional/General comments</p>	<p>Adding graphical summaries or flowcharts to illustrate complex biochemical pathways and processes could enhance the reader's understanding.</p> <p>It is a well-written, comprehensive, and scientifically sound manuscript that provides valuable insights into the role of RFOs in seed physiology.</p>	

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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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