Review Form 1.7

Journal Name:	**Journal of Advances in Biology & Biotechnology**
Manuscript Number:	**Ms_JABB_119122**
Title of the Manuscript:	**Effect of packaging materials and storage conditions on seed biochemical parameters during storage in onion seed (Allium cepa L.)**
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	**Author's comment** *(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)*

Review Form 1.7

Compulsory REVISION comments **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?**	**The effect of packaging materials and storage conditions on seed biochemical parameters during storage in onion seed (Allium cepa L.) is an important aspect to consider for maintaining seed quality and viability.** **1. Influence of Packaging Materials and Storage Conditions on Seed Germination Ability and Biochemical Changes in Some Medicinal Plants of Indian Forests [1]:** **○ This study investigated the impact of different seed packaging/storage materials (polythene bags, jute bags, cloth bags, aluminum foil, unburned earthen pots, and burned earthen pots), storage duration (1, 6, and 12 months), and temperature (room temperature and 4°C) on seed germination and biochemical activities of seven medicinal plant species.** **○ Key findings:** **▪ Germination ability varied among species based on storage materials.** **▪ Some species showed better germination at room temperature, while others benefited from low-temperature storage.** **▪ Total phenolic and flavonoid content was higher at low temperatures.** **○ Conclusion: Species-specific storage requirements are essential for higher germination and longer seed viability in medicinal plant species.** **2. Effect of Storage Conditions on Seed Longevity of Onion (Allium cepa L.) [2]:** **○ This study focused specifically on onion seeds.** **○ Seeds stored in commercial cold storage gained moisture content due to higher relative humidity (RH) and low temperature.** **○ Moisture content increased during storage, affecting seed longevity.** **3. Influence of Modified Atmospheric Packaging on Seed Quality Parameters [3]:** **○ Onion seeds packed in vacuum packaging showed good results after 18 months of storage.** **○ Vacuum packaging helped maintain seed quality parameters related to germination and seedling growth.** **In summary, proper packaging materials and controlled storage conditions play a crucial role in preserving seed quality, germination ability, and biochemical properties. Understanding species-specific requirements is essential for effective seed storage.** **Influence of Packaging and Storage on Onion (*Allium cepa* L.) Seed Biochemistry** **The abstract should be reviewed and revised both in terms of grammar and should be accompanied by an introduction.** **The abstract provides a concise overview of the study, including the experimental setup, factors investigated (storage conditions and containers), and key findings related to seed biochemical parameters (α-amylase and catalase activity). The vacuum-packed bag stored in cold storage showed the best results after 18 months. However, additional details on the specific implications of these findings would enhance the comprehensiveness of the abstract.** **They should be set according to the guidelines of journal authors.** **The limitations of the study mentioned are:** **1. Seed Quality Parameters: The study focused on seed germination, speed of germination, root length, shoot length, seedling dry weight, and seed vigor index. It did not evaluate other important seed quality parameters such as seedling emergence, seedling survival, and seedling uniformity.**	

6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. (Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)	2. Seed Storage Conditions: The study only considered three storage conditions: ambient condition, conditioned cold storage (18-20°C, 45-50% RH), and commercial cold storage (5-7°C, 65% RH). It did not explore other storage conditions, such as high-temperature storage or storage with different humidity levels. 3. Packaging Materials: The study used five different packaging materials: cloth bag, high-density polythene bag (HDPE), polythene bag (700 gauge), aluminum laminated bag, and vacuum packed bag. It did not investigate the effects of other packaging materials or combinations of materials. 4. Seed Variety: The study focused on a single onion variety, Arka Kalyan. It did not evaluate the effects of different onion varieties or cultivars on seed longevity and storage potential. 5. Seed Moisture Content: The study did not explicitly discuss the impact of seed moisture content on seed longevity and storage potential. It only mentioned that seeds with higher moisture content showed a significant decline in seed quality parameters over time. 6. Seed Ageing: The study did not explore the effects of seed aging on seed longevity and storage potential. It only evaluated the seed quality parameters at the end of the storage period. 7. Seed Storage Duration: The study only evaluated the seed quality parameters after ten months of storage. It did not investigate the effects of longer storage periods on seed longevity and storage potential. 8. Seed Storage Temperature: The study only considered storage temperatures of 5-7°C and 18-20°C. It did not evaluate the effects of other storage temperatures, such as higher or lower temperatures, on seed longevity and storage potential. 9. Seed Storage Humidity: The study only considered storage humidity levels of 45-50% RH and 65% RH. It did not investigate the effects of other humidity levels on seed longevity and storage potential. 10. Seed Storage Location: The study did not consider the effects of storage location, such as storage in different regions or climates, on seed longevity and storage potential. These limitations highlight the need for further research to fully understand the factors affecting seed longevity and storage potential in onion seeds. This research requires a statistical investigation (descriptive and inferential statistics) comparing the average of the treatments, a one-way and two-way analysis of variance, and the relationships and correlations between the treatments and the investigated traits. The references are old, and considering that there is access to new references, the references should be updated, and new references should be used. https://scholar.google.com/scholar?q=Effect+of+packaging+materials+and+storage+conditions+on+seed+biochemical+parameters+during+storage+in+onion+seed+%28Allium+cepa+L.%29&hl=en&as_sdt=0%2C5&as_ylo=2020&as_yhi=2024 https://www.scielo.br/j/hb/a/JPCyzqqhLkVRF6q8ZDZCqKP/?lang=en 1. Implications for Seed Quality and Storage Practices: ○ The study highlights the importance of proper packaging and storage conditions for maintaining seed quality during storage. ○ Vacuum-packed bags stored in cold storage showed the best results after 18 months. ○ These findings suggest that using vacuum-sealed bags and cold storage can help preserve seed biochemical properties, potentially leading to better germination and longer seed viability. 2. Other Biochemical Parameters:	

	○ **While the abstract specifically mentions α-amylase and catalase activity, other biochemical parameters related to seed quality (such as lipid peroxidation, antioxidant enzymes, protein content, etc.) may have been assessed in the study.** ○ **These additional parameters could provide a more comprehensive understanding of seed health and vigor during storage.** **The limitations of the study mentioned in the abstract are:** **1. Seed Quality Parameters: The study focused on seed germination, speed of germination, root length, shoot length, seedling dry weight, and seed vigor index. It did not evaluate other important seed quality parameters such as seedling emergence, seedling survival, and seedling uniformity.** **2. Seed Storage Conditions: The study only considered three storage conditions: ambient condition, conditioned cold storage (18-20°C, 45-50% RH), and commercial cold storage (5-7°C, 65% RH). It did not explore other storage conditions, such as high-temperature storage or storage with different humidity levels.** **3. Packaging Materials: The study used five different packaging materials: cloth bag, high-density polythene bag (HDPE), polythene bag (700 gauge), aluminum laminated bag, and vacuum packed bag. It did not investigate the effects of other packaging materials or combinations of materials.** **4. Seed Variety: The study focused on a single onion variety, Arka Kalyan. It did not evaluate the effects of different onion varieties or cultivars on seed longevity and storage potential.** **5. Seed Moisture Content: The study did not explicitly discuss the impact of seed moisture content on seed longevity and storage potential. It only mentioned that seeds with higher moisture content showed a significant decline in seed quality parameters over time.** **6. Seed Ageing: The study did not explore the effects of seed aging on seed longevity and storage potential. It only evaluated the seed quality parameters at the end of the storage period.** **7. Seed Storage Duration: The study only evaluated the seed quality parameters after ten months of storage. It did not investigate the effects of longer storage periods on seed longevity and storage potential.** **8. Seed Storage Temperature: The study only considered storage temperatures of 5-7°C and 18-20°C. It did not evaluate the effects of other storage temperatures, such as higher or lower temperatures, on seed longevity and storage potential.** **9. Seed Storage Humidity: The study only considered storage humidity levels of 45-50% RH and 65% RH. It did not investigate the effects of other humidity levels on seed longevity and storage potential.** **10. Seed Storage Location: The study did not consider the effects of storage location, such as storage in different regions or climates, on seed longevity and storage potential.** **These limitations highlight the need for further research to fully understand the factors affecting seed longevity and storage potential in onion seeds.** **The study on the storability of onion seeds and the effects of packaging and storage conditions on viability and vigor did not consider the following specific factors:** **1. Seed Moisture Content: The study did not explicitly discuss the impact of seed moisture content on seed longevity and storage potential. It only mentioned that seeds with higher moisture content showed a significant decline in seed quality parameters over time.** **2. Seed Ageing: The study did not explore the effects of seed aging on seed longevity and storage potential. It only evaluated the seed quality parameters at the end of the storage period.** **3. Seed Storage Duration: The study only evaluated the seed quality parameters after 10 months of storage. It did not investigate the effects of longer storage periods on seed longevity and storage potential.**	

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Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	**It needs severe revision and correction.**	
Optional/General comments	**It needs correction and revision in terms of statistics and English grammar.**	

PART 2:

	Reviewer's comment	**Author's comment** *(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)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	Sayed Mohammad Reza Khoshroo
Department, University & Country	Islamic Azad University, Iran