



Puguh Bintang <puguhbintang4478@gmail.com>

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## [ipas] Article Review Request

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Admin JIP <jip.faperta@ugm.ac.id>

24 Oktober 2025 pukul 14.41

Kepada: "Puguh Bintang Pamungkas, S.P., M.P." <puguhbintang4478@gmail.com>

Dear Dr. Puguh Bintang Pamungkas, S.P., M.P.:

I believe that you would serve as an excellent reviewer of the manuscript, "Enhancing Vigour and Rapid Radicle Emergence Test of Expired Cucumber (*Cucumis sativus* L.) Seeds Through Osmopriming Invigoration Treatment," which has been submitted to Ilmu Pertanian (Agricultural Science). The submission's abstract is inserted below, and I hope that you will consider undertaking this important task for us.

Please log into the journal web site by 2025-10-31 to indicate whether you will undertake the review or not, as well as to access the submission and to record your review and recommendation. The web site is <https://jurnal.ugm.ac.id/jip>

The review itself is due 2025-11-07. If there are problems, the review manuscript can be returned via email ([jip.faperta@ugm.ac.id](mailto:jip.faperta@ugm.ac.id)) or WhatsApp at +62 811-2632-106. Thank you

If you do not have your username and password for the journal's web site, you can use this link to reset your password (which will then be emailed to you along with your username).

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Submission URL: <https://jurnal.ugm.ac.id/jip/reviewer/submission/78452>

Thank you for considering this request.

Admin JIP  
Faculty of Agriculture, Universitas Gadjah Mada  
Phone +628112632106  
[jip.faperta@ugm.ac.id](mailto:jip.faperta@ugm.ac.id)



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## Archive

ACTIVE

ARCHIVE

ID	MM-DD ASSIGNED	SEC	TITLE	REVIEW	EDITOR DECISION
111401	10-24	ART	ENHANCING VIGOR OF CUCUMBER ( CUCUMIS SATIVUS L.) SEEDS...	Revisions Required	Accept Submission

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## #111401 Review

### Submission To Be Reviewed

Title Enhancing Vigor of Cucumber (*Cucumis sativus* L.) Seeds Through Osmo-priming

Journal Section Research Articles

Abstract

Cucumber production relies heavily on high-quality seeds, yet prolonged storage often leads to a significant decline in seed vigor and viability, characterized by reduced germination and non-uniform growth. To address this challenge, invigoration techniques through seed priming offer a promising solution to revitalize aged seeds, which also aligns with global sustainability efforts in preserving genetic resources and ensuring food security. This study aimed to evaluate the effectiveness of various invigoration treatments in enhancing the viability and vigor of expired cucumber seeds from different storage periods. The research utilized a factorial split-plot design with two factors, consisting of invigoration treatments (Control,  $\text{KH}_2\text{PO}_4$ , PEG, and Distilled Water) and storage periods (9 years, 7 years, and 5 years). The variables observed included radicle emergence (RE) at 24 and 48 hours, germination capacity, percentage of abnormal seedlings, and vigor index. The results showed that all invigoration treatments significantly improved seed performance compared to the control. The  $\text{KH}_2\text{PO}_4$  treatment was the most effective for rapid improvement within 24 hours, showing a strong correlation ( $R=0.99$ ) with increased vigor and a reduction in abnormal seedlings ( $R=0.85$ ). However, distilled water showed the best performance for 48-hour RE, particularly when applied to 5-year stored seeds, reaching an 88% germination rate and the highest vigor index of 80%. In conclusion, invigoration is a viable method to restore

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## Review Schedule

Editor's Request	2025-10-24
Your Response	2025-11-04
Review Submitted	2025-11-04
Review Due	2025-11-07

## Review Steps

1. Notify the submission's editor as to whether you will undertake the review.

Response Accepted

2. If you are going to do the review, consult Reviewer Guidelines below.

3. Click on file names to download and review (on screen or by printing) the files associated with this submission.

Submission Manuscript 111401-412630-2-RV.DOCX 2025-10-24

Supplementary File(s) None

4. Click on icon to enter (or paste) your review of this submission.

Review 

5. In addition, you can upload files for the editor and/or author to consult.

Uploaded files None

6. Select a recommendation and submit the review to complete the process. You must enter a review or upload a file before selecting a recommendation.

Recommendation Revisions Required 2025-11-04



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