



Firzan Nainu &lt;firzannainu@unhas.ac.id&gt;

---

## Invitation to review for Heliyon

1 message

---

**Heliyon** <em@editorialmanager.com>  
Reply-To: Heliyon <info@heliyon.com>  
To: Firzan Nainu <firzannainu@unhas.ac.id>

Mon, Feb 27, 2023 at 10:04 PM

Probiotic potential of *Lactobacillus plantarum* DMR14 for preserving and extending shelf life of fruits and fruit juice

Manuscript Number: HELIYON-D-23-03760

Dear Dr. Nainu,

We are considering a new submission for publication in Heliyon, an open-access journal from Cell Press. Your expertise seems appropriate to give feedback on this article. Would you be willing to review?

### Abstract:

**Objectives:**The harmful effects of chemical preservatives are driving the need for natural ones. To meet this demand, probiotic lactic acid bacteria (LAB) were isolated from fermented oats in this study. The goals of this study were to separate and identify probiotic LAB from fermented oats, to determine how effective these LAB are at combating pathogenic microorganisms in vitro, and to investigate their preservative capacity by applying the bacterium's cell-free supernatant (CFS) to specific fruits and fruit juice. **Methods:**Morphological, biochemical, and molecular approaches were utilized to identify lactic acid bacteria. The probiotic potential of the isolated strain was determined using the Kibry-bauer disc diffusion method, DPPH free radical method, agar-well diffusion method, and other conventional protocols. **Results:**The isolated strain was identified as *Lactobacillus plantarum* DMR14 using morphological, biochemical, and molecular investigation. *Lactobacillus plantarum* DMR14 had the strongest antagonistic and anti-biofilm capacity against *Shigella boydii*. Furthermore, the bacteriocin-containing compounds, cell-free supernatant (CFS) of the LAB, were tested against three fruits and one fruit juice, with the cell-free supernatant (CFS) of the bacterium lengthening the shelf life of the fruits compared to the untreated ones. **Conclusion:**Furthermore, while the concentration of coliform bacteria decreased in the treated sugarcane juice, an increase in the concentration of lactic acid bacteria suggested that the strain might be used as a fruit preservative in food industries.

Heliyon publishes scientifically accurate and valuable research across the entire spectrum of science and medicine. Heliyon received its first Impact Factor (3.776) in June 2022 and we are indexed in the Science Citation Index Expanded (SCIE).

Please click the following link to accept this invitation and view the manuscript. To encourage you to submit your review in a timely manner, we are offering [publication discounts for reviewers](#). Upon completion of valuable and timely review reports, you will be eligible to publish with Heliyon at a reduced rate.

[Agree to Review and View Reviewer PDF](#)

By agreeing to review this manuscript, you are declaring that you have no conflict of interest.

Please click the following link to decline the manuscript. We would very much appreciate if you could suggest an appropriate alternate reviewer. Please do keep diversity of gender, career stage, and geography in mind as you make these suggestions.

[Decline to Review](#)

If, for any reason, the above links do not work, please log in as a reviewer: <https://www.editorialmanager.com/heliyon/default.aspx>.

If you accept this invitation, I would be very grateful if you would return your review within 14 days of accepting this invitation. We understand that the global COVID-19 situation may well be causing disruption for you and your colleagues. If that is the case for you and you would need more time than usual to be able to complete this review, please let us know so we can agree on a time frame that works for you.

Please note that you should treat this invitation, the manuscript, and your review as confidential. You must not share your review or information about the review process with anyone without the agreement of the editors and authors involved, even after publication. This also applies to other reviewers' comments to author which are shared with you after a decision (and vice versa).

If you need more time than usual to be able to complete this review, please let us know so we can agree on a time frame that works for you.

We look forward to receiving your response to this review request and thank you in advance for your contribution and time.

Kind regards,

Wuyang Huang

Associate Editor - Food and Nutrition

Heliyon

As a reviewer you are entitled to complimentary access to references, abstracts, and full-text articles on ScienceDirect and Scopus for 30 days. Full details on how to claim your access via [Reviewer Hub](#) will be provided upon your acceptance of this invitation to review.

Please visit the Elsevier Reviewer Hub to manage all your refereeing activities for this and other Elsevier journals on Editorial Manager.

More information and support

FAQ: How do I respond to an invitation to review in Editorial Manager?

[https://service.elsevier.com/app/answers/detail/a\\_id/28524/supporthub/publishing/](https://service.elsevier.com/app/answers/detail/a_id/28524/supporthub/publishing/)

You will find guidance and support on reviewing, as well as information including details of how Elsevier recognizes reviewers, on [Elsevier's Reviewer Hub](#).

FAQ: [How can I reset a forgotten password?](#)

For further assistance, please visit our [customer service site](#). Here you can search for solutions on a range of topics, find answers to frequently asked questions, and learn more about Editorial Manager via interactive tutorials. You can also talk 24/7 to our customer support team by phone and 24/7 by live chat and email

#REV\_HELIYON#

To ensure this email reaches the intended recipient, please do not delete the above code

---

*In compliance with data protection regulations, you may request that we remove your personal registration details at any time. [\(Remove my information/details\)](#). Please contact the publication office if you have any questions.*



Heliyon

# Certificate of Reviewing

Awarded since July 2020 (2 reviews)  
presented to

**FIRZAN NAINU**

in recognition of the review contributed to the journal

The Editors of Heliyon

