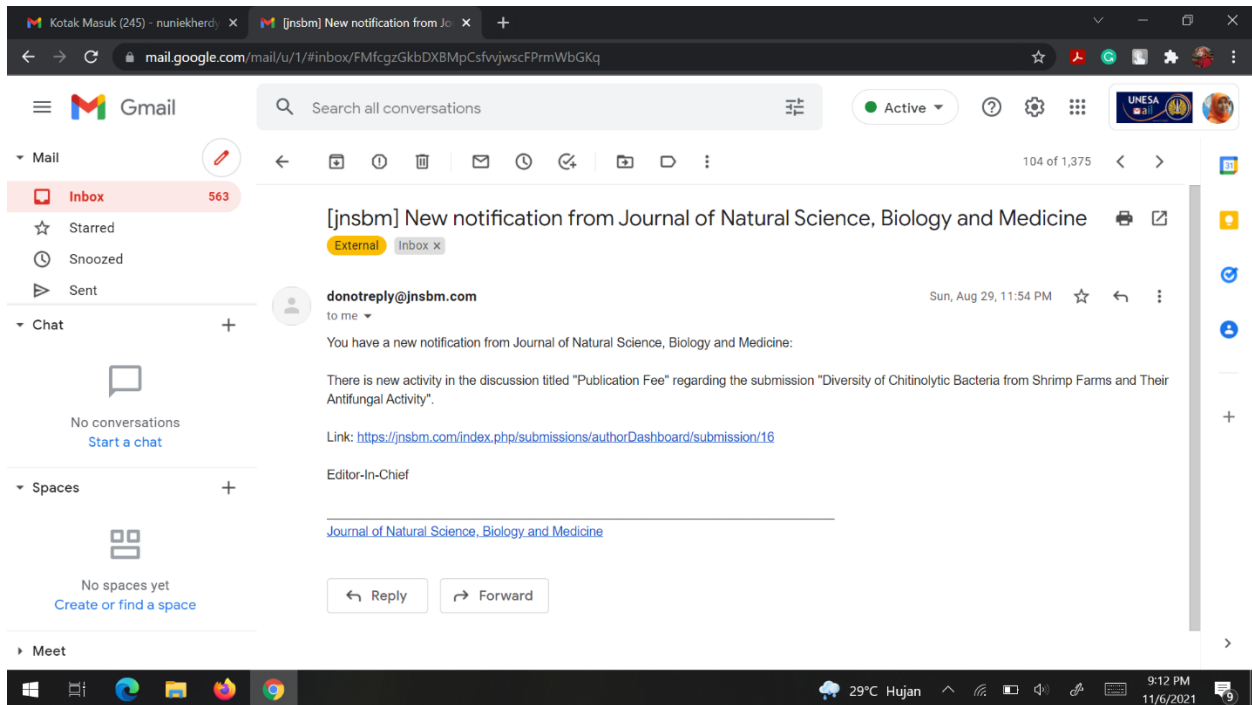
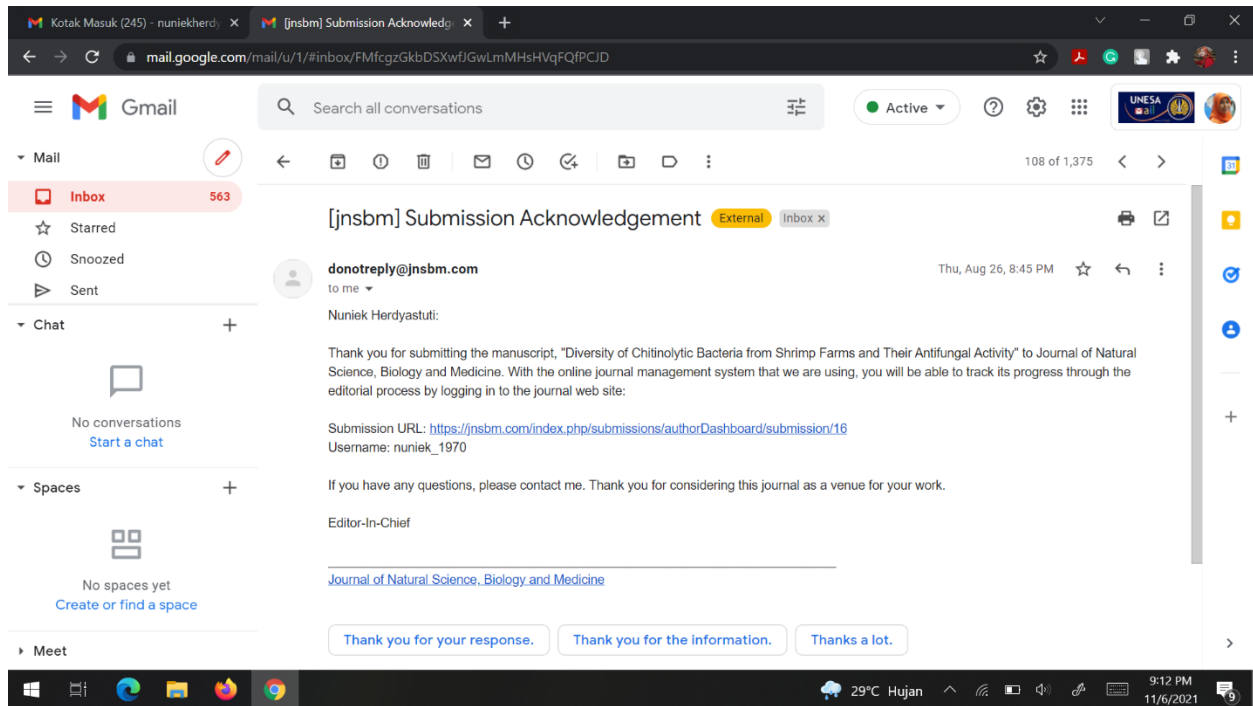


KRONOLOGI SUBMIT ARTIKEL DI JOURNAL OF NATURAL SCIENCE, BIOLOGY AND MEDICINE



Kotak Masuk (245) - nuniekherd X [jnsbm] Editor Decision - nuniek X

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Sep 7, 2021, 1:34 AM

Nuniek Herdyastuti:

We have reached a decision regarding your submission to Journal of Natural Science, Biology and Medicine, "Diversity of Chitinolytic Bacteria from Shrimp Farms and Their Antifungal Activity".

Our decision is to: Resubmit for Review

Reviewer A:

Technical comments:

This article describes the antifungal activity of Chitinolytic bacteria from shrimp farms. Although the study is good overall, yet there are certain things that need to be addressed.

1. Add a few lines in introduction which highlight what exactly is chitinolytic activity?
2. Last paragraph of INTRODUCTION describes "benefits of derivatives of chitin" but the article is about the chitinase enzyme that degrades chitin. Please rectify it.
3. Rewrite this whole sentence of methodology as it is not understandable "Paper dish that were added chitinase enzymes that have known activity As a control is used a solution of buffer phosphate pH 6.8 and then incubated at room temperature for four days and observed the clearance zones".

Non-technical comments:

1. The English writing contains many grammatical errors and awkward sentence contractions and should be thoroughly revised.
2. Figure 5 is blurry, add a clear image.

Recommendation: Resubmit for Review

29°C Hujan 4:35 PM 11/7/2021

Kotak Masuk (245) - nuniekherd X [jnsbm] Editor Decision - nuniek X

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Tue, Sep 7, 1:34 AM

Nuniek Herdyastuti: We have reached a decision regarding your submission to Journal of Natural Science, Biology and Medicine, "Diversity of ...

Nuniek Herdyastuti <nuniekherdyastuti@unesa.ac.id> to Editor-in-Chief

Tue, Sep 7, 7:55 AM

Dear Editor - in-Chief

Thank you for the information, I will improve my article and resubmit it for review again. for my English is very limited, but I have given it to an expert before I send it to your journal. on APC I read that the fee I will pay is already an improvement in the language, is that so?

Regards
Author

Reply Forward

29°C Hujan 4:36 PM 11/7/2021

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editor@jnsbm.org to me Sat, Sep 18, 11:42 PM

Dear Herdyastuti

We have send you acceptance of your article submitted to JNSBM. Please confirm if you have received acceptance email

In few days, you would receive invoice for the payment of publication fee.

If you have any question, do not hesitate to ask.

Thanks
Editor
JNSBM

Nuniek Herdyastuti · <nuniekherdyastuti@unesa.ac.id> to editor Sun, Sep 19, 6:16 PM

Dear Editor

Thank you for your information

Sincerely,

Windows taskbar: 29°C Hujan, 4:33 PM 11/7/2021

Kotak Masuk (245) · nuniekherd · x [jnsbm] Editor Decision · nuniek · x +

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[jnsbm] Editor Decision External Inbox x

donotreply@jnsbm.com to me Sat, Sep 18, 10:13 PM

Nuniek Herdyastuti:

We have reached a decision regarding your submission to Journal of Natural Science, Biology and Medicine, "Diversity of Chitinolytic Bacteria from Shrimp Farms and Their Antifungal Activity"

Our decision is to: Accept Submission

Reviewer A:

Comments:

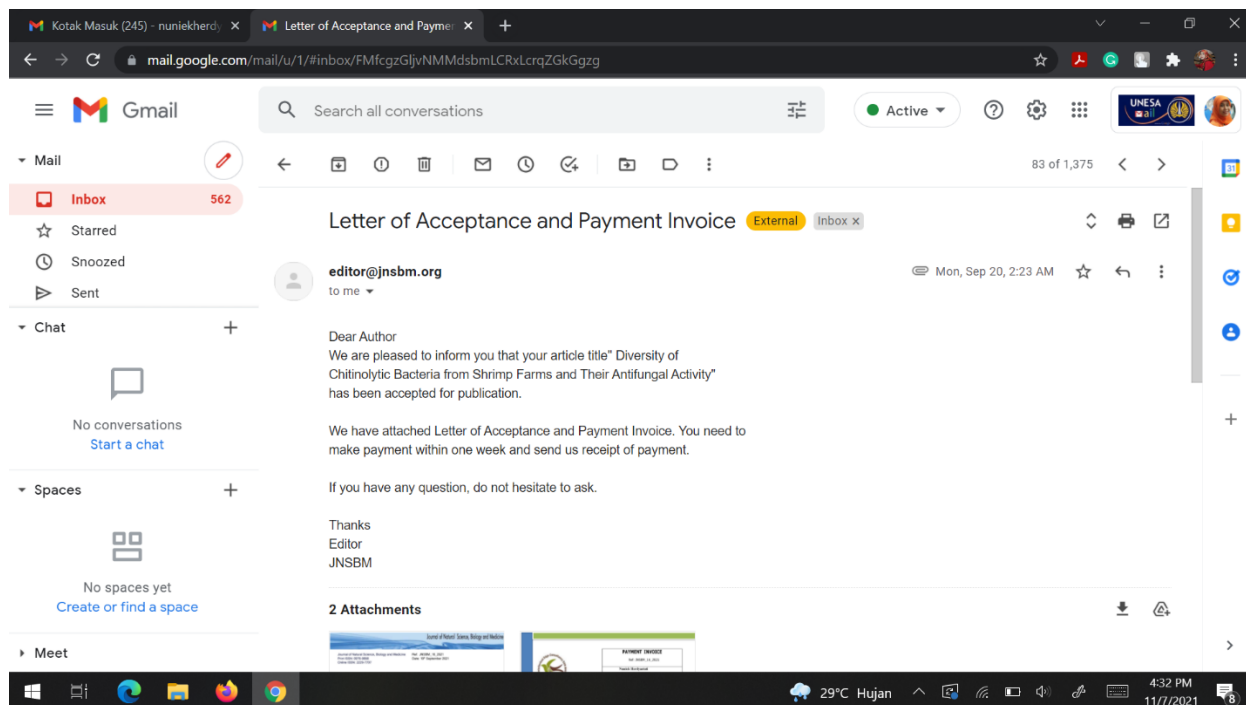
1. A little rephrasing is required for abstract.
2. Please rectify the spelling & grammar mistakes which are present in whole document.
3. Avoid repetition of words or sentences. For example, chitinolytic activity is mentioned twice in the following statement:

It has been reported that some bacteria from the aquatic environment have been identified as having chitinolytic activity such as those from species *Aeromonas*, *Enterobacter*, *Chromobacterium*, *Arthrobacter*, *Flavobacterium*, *Serratia*, *Bacillus*, *Erwinia*, and *Vibrio* have shown chitinolytic activity

1. Rephrase the following:
 - a- Chitinolytic activity that can be developed recently is to use it as a biocontrol agent as a substitute for chemical pesticides that have an adverse effect on the environment.
 - b- Paragraph under the heading "Anti-fungal potential in chili plants"

Recommendation: Accept Submission

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Journal of Natural Science, Biology and Medicine
Print ISSN: 0976-9668
Online ISSN: 2229-7707

Ref: JNSBM_16_2021
Date: 19th September 2021

Dear Authors

Nuniek Herdyastuti*, Fauziah, Rio Widodo, Yusak Yulianus Prabowo, Intan Ayu Apriliana, dan Sari Edi Cahyaningrum

Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya.

Email: nuniekherdyastuti@unesa.ac.id

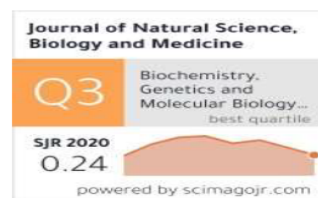
Congratulations upon the acceptance of your research paper into our Scopus Indexed Journal.

It's my pleasure to inform you that, after the peer review, your paper, "**Diversity of Chitinolytic Bacteria from Shrimp Farms and Their Antifungal Activity**" has been ACCEPTED to publish with *Journal of Natural Science, Biology and Medicine*. It will be published in the upcoming issue of 2021. I believe that our collaboration will help to accelerate the global knowledge creation and sharing one-step further. Please do not hesitate to contact me if you have any further questions.

Sincerely,

Managing Editor

Journal of Natural Science, Biology and Medicine
Print ISSN: 0976-9668
Online ISSN: 2229-7707



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We have completed language editing of your article. You need to provide some missing information in this manuscript.

1-Reference 7, 42 and 53 are not cited in manuscript (You need to insert these references in manuscript at their appropriate place)
2-Reference 2 and 37 are same. Similarly reference 9 and 43 are same.

Please revise these reference in attached file of manuscript. Also highlight, where you are making any change. If you have any confusion, feel free to ask.

Thanks
Editor

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2

Nuniek Herdyastuti <nuniekherdyastuti@unesa.ac.id> to Editor-in-Chief

Sat, Sep 25, 9:43 AM

Dear Editor

Ok, never mind...I understand, I have also submitted a revision of my last article. When will my article be published?

Thanks
Nuniek

editor@jnsbm.org to me

Sat, Sep 25, 4:56 PM

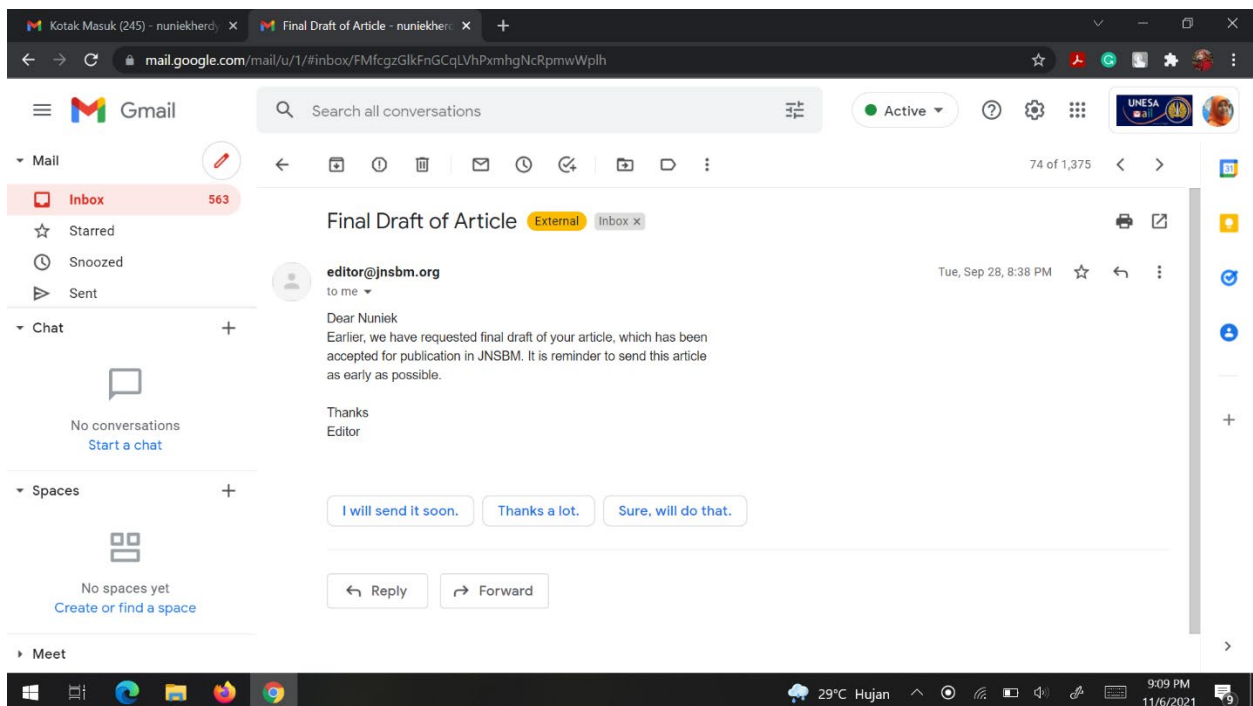
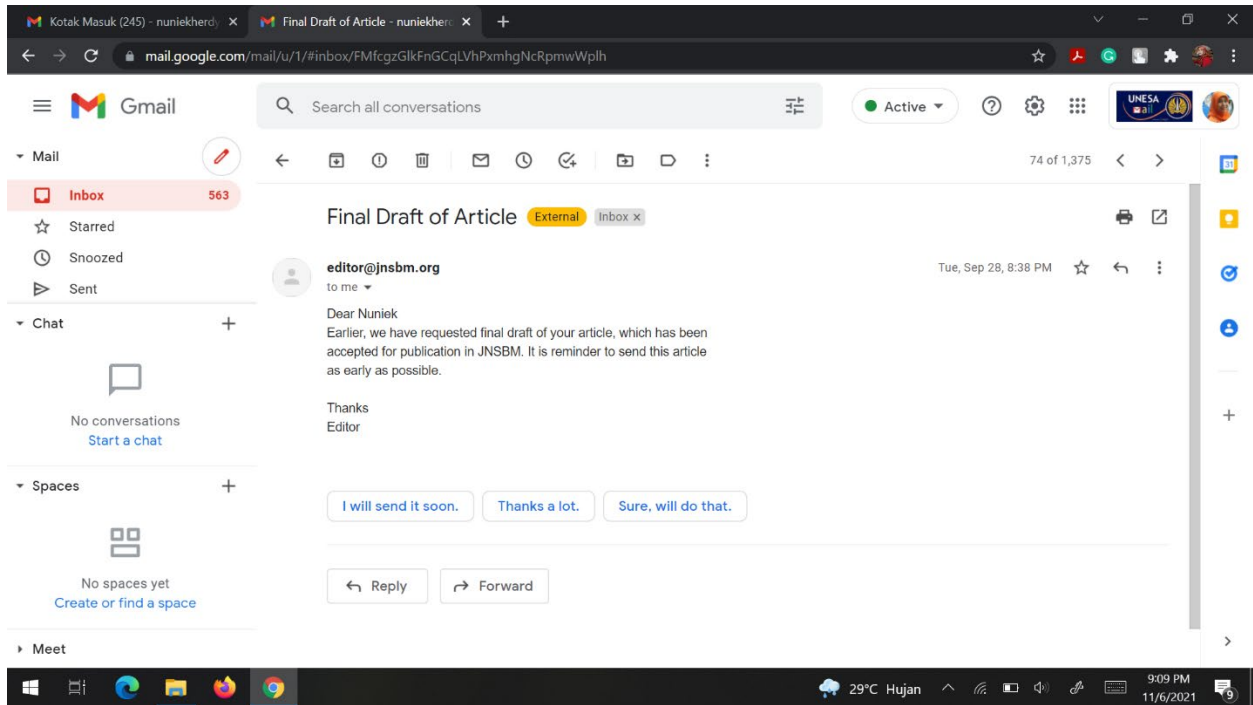
Dear Nuniek

We confirm the receipt of publication fee. Please send final version of your manuscript on this email.

Thanks
Editor

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Final Draft of Article External Inbox x

editor@jnsbm.org to me Fri, Oct 1, 1:19 AM

Dear Nuniek

It is another reminder for final draft of your article, so that our team can start its language editing.

Thanks
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JNSBM

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Nuniek Herdyastuti <nuniekherdyastuti@unesa.ac.id> to Editor-in-Chief Tue, Oct 12, 7:04 PM

Dear Editor JNSBM

I request information regarding the progress of my article

Thanks
Nuniek

editor@jnsbm.org to me Wed, Oct 13, 12:41 AM

Dear Nuniek

We have sent you two emails and have asked for final version of your article on this email. But you have not responded. Now you need to send you final draft of article on this email as soon as possible.

Thanks
Editor

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Nuniek Herdyastuti <nuniekherdyastuti@unesa.ac.id>
to Editor-in-Chief

Oct 13, 2021, 6:08 AM

Dear Editor,
I apologize in advance if I do not understand what you want. I thought I'd sent the final draft of my article to the reviewers, so I'll just wait for further news. here I am sending back the final draft which I have corrected on the advice of the reviewer

Sincerely
Nuniek

Manuscript Nuniek...

editor@jnsbm.org
to me

Oct 14, 2021, 10:53 AM

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editor@jnsbm.org
to me

Oct 14, 2021, 10:53 AM

Dear Nuniek
You need to insert all figures and tables within the manuscript at their suitable places. We strongly suggest you to draw structures in figure 5. Copying these structures does not create good impact on readers. You can use any tool like Chemdraw or any other online available structure drawing tool. Please send again final draft after making these corrections at your earliest.

Thanks
Editor

Nuniek Herdyastuti <nuniekherdyastuti@unesa.ac.id>
to Editor-in-Chief

Thu, Oct 14, 3:12 PM

Dear Editor
I have revised the article as you wish. For image 5 that I have made myself using chemdraw. here I attach proof of the drawing (chemdraw) that I have made

Sincerely
Nuniek

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editor@jnsbm.org

to me

Oct 21, 2021, 12:03 AM

Dear Nuniek

We have completed language editing of your article. You need to provide some missing information in this manuscript.

1-Reference 7, 42 and 53 are not cited in manuscript (You need to insert these references in manuscript at their appropriate place)
2-Reference 2 and 37 are same. Similarly reference 9 and 43 are same.

Please revise these reference in attached file of manuscript. Also highlight, where you are making any change. If you have any confusion, feel free to ask.

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Nuniek Herdyastuti <nuniekherdyastuti@unesa.ac.id>

to Editor-in-Chief

Sun, Oct 24, 6:01 AM (13 days ago)

Dear Editor

Thank you for the information, all the errors you pointed out have been corrected by giving red color to the revision.

1. I made a mistake when writing the reference, for reference number 7 it has been written as in the article. there was an error I wrote reference no 41 which should be in figure 5, reference no 42 already exists. Reference 53 doesn't exist yet because I immediately wrote 54

2. what you have said is true that reference 2 is equal to 37 and reference 9 is equal to 43, and I have corrected the order of references as they should

3. I have removed references 37 and 43, so the numbering changes to the references. number of references previously was 55 now it is 53

Here I include the revised results in the attachment file

Thanks
Nuniek

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editor@jnsbm.org

to me

Oct 25, 2021, 2:16 AM (12 days ago)

Dear Nuniek

Please check reference 42, it is not mentioned in manuscript text.

Thanks

Editor

Nuniek Herdyastuti . <nuniekherdyastuti@unesa.ac.id>

to Editor-in-Chief

Oct 25, 2021, 7:39 AM (12 days ago)

Dear Editor

Thank you for the very thorough correction, I have corrected it with a red mark

Sincerely,

Nuniek

29°C Hujan

9:07 PM

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to me

Oct 28, 2021, 11:55 PM (9 days ago)

Dear Author

Galley Proof of your article is attached. You need to check it carefully and can recommend any change, if you want. Return this article within a week.

Thanks

Editor

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Nuniek Herdyastuti .

Oct 29, 2021, 11:49 AM (8 days ago)

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Nuniek Herdyastuti - <nuniekherdyastuti@unesa.ac.id>
to Editor-in-Chief

Fri, Oct 29, 11:49 AM (8 days ago)

Dear Editor

I have agreed with the galley proof article, there is no correction from me

Thanks

Nuniek

editor@jnsbm.org

Nov 4, 2021, 3:36 PM (2 days ago)

Dear Nuniek Your article is now online. Please visit website of journal <https://jnsbm.org/current-issue> Thanks Editor

Nuniek Herdyastuti - <nuniekherdyastuti@unesa.ac.id>
to Editor-in-Chief

Nov 4, 2021, 4:40 PM (2 days ago)

Dear Editor

I thank you for publishing my article, hopefully next time I can still publish my other articles

sincerely,
Nuniek

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Mon, Nov 1, 10:37 PM (5 days ago)

Nuniek Herdyastuti:

The editing of your submission, "Diversity of Chitinolytic Bacteria from Shrimp Farms and Their Antifungal Activity," is complete. We are now sending it to production.

Submission URL: <https://jnsbm.com/index.php/submissions/authorDashboard/submission/16>

[Journal of Natural Science, Biology and Medicine](#)

Nuniek Herdyastuti - <nuniekherdyastuti@unesa.ac.id>
to Editor-in-Chief

Mon, Nov 1, 10:37 PM (5 days ago)

Thanks a lot.

30°C Cerah 8:59 PM 11/6/2021

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Thu, Nov 4, 3:36 PM (3 days ago)

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Your article is now online. Please visit website of Journal
<https://jnsbm.org/current-issue>
Thanks
Editor

Nuniek Herdyastuti, <nuniekherdyastuti@unesa.ac.id>
to Editor-in-Chief
Dear Editor
I thank you for publishing my article, hopefully next time I can still publish my other articles
sincerely,
Nuniek

Thu, Nov 4, 4:40 PM (3 days ago)

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28°C Hujan 5:17 PM 11/7/2021

Diversity of Chitinolytic Bacteria from Shrimp Farms and Their Antifungal Activity

Nuniek Herdyastuti*, Fauziah, Rio Widodo, Yusak Yulianus Prabowo, Intan Ayu Apriliana, dan Sari Edi Cahyaningrum

Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya.

Abstract

Background: The chitinase enzyme has received increased attention due to its wide range of biotechnological applications, especially in agriculture for the biocontrol of fungi. In this study, chitinolytic bacteria from shrimp farms (East Java, Indonesia) were isolated and evaluated for their antifungal activity. **Material and methods:** Screening of chitinolytic bacteria in the media containing colloidal chitin was determined colorimetric activity using a UV-Vis spectrophotometer. Isolates with the highest activity are determined species based on physiology, morphology, and the 16S-rRNA gene. Chitinase enzymes from selected isolates are tested as antifungals of chili plants by measuring their taste ability through the formed clear zones. **Result:** There were 24, 40, 54, and 78 isolates of bacteria from shrimp farms in Tuban (TB), Situbondo (ST), Lamongan (LA), and Sidoarjo (SD) in Indonesia respectively. Based on enzyme production, four isolates namely LA21 (0.73 U / mL), SD54 (0.663 U / mL), TB11 (1.160 U / mL), and ST7 (0.405 U / mL) were selected for further analyzed and evaluated. Phylogenetic analysis revealed that the LA21 isolates have homologous with *Bacillus cereus*, morphological and biochemical tests showed that isolate TB11 is thought to be a group of *Vibrio alginolyticus* while isolating ST 13 belongs to *Bacillus licheniformis*. The LA21 isolate displayed antifungal activity against *Fusarium oxysporum* f.sp. *capsici* and *Colletotrichum capsici* during the trial period. **Conclusion:** This study demonstrated that chitinolytic bacterial isolates from various shrimp farms have great potential for chitinase production and antifungal applications.

Keywords: antifungal, chitinolytic, chitinase activity, shrimp farm

INTRODUCTION

Chitinolytic bacteria are widely distributed in various types of environments, including soil, water, and living organs. In aquatic environments, chitinolytic bacteria can be found in oceans^[1] brackish water lakes^[2], waterways such as the Suez Canal^[3], and shrimp-farm wastewater.^[4] Based on their location, chitinolytic bacteria have different characteristics and properties.^[5] It has been reported that some bacteria from the aquatic environment have been identified as having chitinolytic activity such as those from species *Aeromonas*, *Enterobacter*, *Chromobacterium*, *Arthrobacter*, *Flavobacterium*, *Serratia*, *Bacillus*, *Erwinia*, and *Vibrio*. Bacterial isolates from whales have also revealed some species, including *Eubacterium*, *Streptococcus*, and *Clostridium*. Moreover, *Bacillus licheniformis* has been found in the liquid food industry.

Other species such as *Serratia* and *Streptomyces* isolated

from crustacean residues, and the *Acinetobacter johnsonii* and *Bacillus amyloliquefaciens* species isolated from shrimp residues have chitinolytic activity.^[6] Chitinolytic activity has been developed recently to use it as a biocontrol agent as a substitute for chemical pesticides that harm the environment.^[7] Chitinolytic bacteria can be used as a biocontrol agent against pathogenic fungi^[8,9] and increase plant fertility.^[10] Chitinase enzymes produced by chitinolytic bacteria have various inhibitory capabilities. The amount of chitin in the fungus cell walls varies significantly, so that

Address for Correspondence: Nuniek Herdyastuti, Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Negeri Surabaya, Jl. Ketintang Surabaya 60231, East Java, Indonesia
E-mail: nuniekherdyastuti@unesa.ac.id

Submitted: 26-08-21

Received: 06-09-21

Accepted: 23-09-21

Published: 02-11-21

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Website:
www.jnsbm.org

DOI:
10.4103/jnsbm.JNSBM_12_3_6

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