

**Journal of Aquaculture Science**



# **JOURNAL OF** **AQUACULTURE** **SCIENCE**

*Volume 10 (2) October 2025*



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**Volume 10 Number 2 October 2025**

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## Description

**Journal of Aquaculture Science (JoAS)** registered with p-ISSN number: 2550 - 0910, e- ISSN: 2579 - 4817, published by the Aquaculture Study Programme, Faculty of Fisheries and Marine Sciences, Universitas Airlangga.

**Journal of Aquaculture Science (JoAS)** has been accredited by the Directorate General of Research and Development, Ministry of Research, Technology and Higher Education, Republic of Indonesia with Number: 36/E/KPT/2019 valid since 25 September 2023.

**Journal of Aquaculture Science (JoAS)** is to present research articles, review articles, short communications and technical reports on Fisheries and Marine Science published twice a year (April and October). Journal of Aquaculture Science is a media for researchers, students and fisheries practitioners. All articles published by the Journal of Aquaculture Science are published through the Open Journal System (OJS). Information about article loading and writing guidelines is available on the website: <https://e-journal.unair.ac.id/JoAS/index>

## VISION

Become a reputable journal in the field of fisheries, both nationally and internationally

## MISSION

1. As a medium of intellectual development for the academic community in support of Universitas Airlangga's development into a world-class university;
2. To organise accountable and high quality journal management in order to increase the number of intellectual products in the form of scientific journals;
3. To become a leading reference for the academic community and researchers in the field of fisheries, particularly aquaculture.

**Focus and Scope:** aquaculture, fish reproduction and disease, aquaculture and aquatic environment, and biotechnology.

**Main Language:** English

Articles accepted by the Journal of Aquaculture Science (JoAS) are:

1. Original Articles
2. Article Review
3. Short Communication
4. Technical note

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## Writer's Guide for Online Submissions

### How to Register as an Author

- Visit Website <http://joas.co.id/index.php/JoAS/index>
- Click on the "Register" link.
- Fill in all the required information on the registration form.
- All fields that have a '\*' (star) are mandatory.
- Users can register as Reader and/Author. Under the "register as" field, it can be selected as an "Author" as well. Only those users who have registered as "Author" can submit manuscripts online. If you forget to register as Author, you can change your role from Reader to Author. For this, after logging in click on the "edit my profile" link. Under the "role" heading, then select the role as Author.
- After filling in all the required details, click on the register button.
- If the registration is successful, you can immediately login as an author using the username and password you have registered. You will also receive an email informing you of the details of your registration.

### How to Login and what is Author's user home page?

- To login to the system, click on the login link on the top sub menu, then enter the username and password that has been registered.
- After logging in, the "user home page" will appear, which has links to "Author", "Active article". & "New Submission".
- Clicking on the "Author" link will take you to a page that will show you links to "Active" & "Archived" articles.
- To check the status or details of an article, click the "Active" link. To submit a new article, click the "New submission" link.
- To change your profile, click on the "Edit My Profile" link under the "My Account" section. You can also change your password here.

### How do I submit my manuscript online?

Online submission is a five-step submission process as below:

1. START
2. UPLOAD SUBMISSION
3. ENTER METADATA
4. UPLOAD SUPPLEMENTARY FILES
5. CONFIRMATION

Click on "New submission" (if you are already on the "user home page" after login) as shown in figure 1 below.



Figure 1. Starting new submission

The five-step submission process is described below:

### Step 1; Initiate Submission

Submission Language : select the language of the article you wish to submit.

Submission Checklist: Author must agree to some JoAS requirements.

Copyright Notice: Author must agree to the terms of copyright registration.

Journal Privacy Statement: Author must agree to the Journal Privacy Statement.

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### Step 1. Starting the Submission

1. **START** 2. UPLOAD SUBMISSION 3. ENTER METADATA 4. UPLOAD SUPPLEMENTARY FILES 5. CONFIRMATION

Encountering difficulties? Contact [Suciyo, S.St.Pi., M.P](#) for assistance (+62 857-8558-2992).

---

#### Submission Language

This journal accepts submissions in several languages. Choose the primary language of the submission from the pull-down below.

Language \* English

---

#### Submission Checklist

Indicate that this submission is ready to be considered by this journal by checking off the following (comments to the editor can be added below).

- ☐ Penyerahan belum diterbitkan sebelumnya, atau sedang dalam pertimbangan jurnal lain (atau sebuah penjelasan belum disediakan dalam komentar kepada editor).
- ☐ File naskah dalam format file dokumen OpenOffice, Microsoft Word, RTF, atau WordPerfect.
- ☐ Ketika tersedia, URLs untuk referensi telah disediakan.
- ☐ Teks 1 spasi; font 12; italic; tidak digaribawahi (kecuali alamat URL); dan semua ilustrasi, figur, dan tabel yang ditempatkan di dalam teks pada poin yang tepat, jangan di akhir.
- ☐ Teks yang mematuhi persyaratan mengenai perpustakaan dan gaya bahasa digambarkan secara garis besar di [Petunjuk Penulis](#), yang akan ditemukan dalam halaman Tentang Kami.
- ☐ Jika penerimaan untuk bagian blind peer-review dari jurnal, instruksinya terdapat di [Memastikan Reviewer Anonim](#) telah diikuti.

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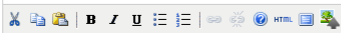
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Figure 2. First step of submission

## Step 2: Uploading the Manuscript

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**Choose File:** click on "browse" or "Choose File" to open the Choose File Window to search for files on your computer storage. Find the file you want to submit and select it. Click "open" in the Choose File Window, which places the name of the file on this page.

**File Upload:** Don't forget to click Upload, which uploads the file from your computer to the journal website and names it according to the journal's requirements. If you upload the wrong file, you can replace the file by re-uploading a new file.

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### Step 2. Uploading the Submission

1. START 2. **UPLOAD SUBMISSION** 3. ENTER METADATA 4. UPLOAD SUPPLEMENTARY FILES 5. CONFIRMATION

To upload a manuscript to this journal, complete the following steps.

1. On this page, click Browse (or Choose File) which opens a Choose File window for locating the file on the hard drive of your computer.
2. Locate the file you wish to submit and highlight it.
3. Click Open on the Choose File window, which places the name of the file on this page.
4. Click Upload on this page, which uploads the file from the computer to the journal's web site and renames it following the journal's conventions.
5. Once the submission is uploaded, click Save and Continue at the bottom of this page.

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|                    |                      |
|--------------------|----------------------|
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| Original file name | 102-291-1-SM (1).pdf |
| File Size          | 1MB                  |
| Date uploaded      | 2020-07-21 03:35 PM  |

Replace submission file  No file chosen

*Figure 3. Uploading the manuscript file*

hen the file submission is successfully uploaded, click "save and continue" to go to the next step.

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## Step 3. Entering the Submission's Metadata

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3. ENTER METADATA
4. UPLOAD SUPPLEMENTARY FILES
5. CONFIRMATION

Form Language English Submit

To enter the information below in additional languages, first select the language.

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Middle Name

Last Name \*

Email \*

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### Title and Abstract

Title \*

Abstract \*

Figure 4. Details of aithor, tittle and metadata

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Contributors and Supporting Agencies: identify agencies (people, organisations, or services) that have contributed to the content or provided funding or support for the submission.

References: Provide a formatted list of references in the work cited in this submission.

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Language

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### References

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Figure 5. Indexing, Contributors, references metadata

### Step 5: Upload Supplementary files

This step is optional, supplementary files can be uploaded in formats such as TIF, JPG, GIF, Word, etc.

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### Step 4. Uploading Supplementary Files

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This optional step allows Supplementary Files to be added to a submission. The files, which can be in any format, might include (a) research instruments, (b) data sets, which comply with the terms of the study's research ethics review, (c) sources that otherwise would be unavailable to readers, (d) figures and tables that cannot be integrated into the text itself, or other materials that add to the contribution of the work.

| ID | TITLE     | ORIGINAL FILE NAME   | DATE UPLOADED | ACTION                                        |
|----|-----------|----------------------|---------------|-----------------------------------------------|
| 15 | Untitleda | 102-291-1-SM (1).pdf | 07-21         | <a href="#">EDIT</a>   <a href="#">DELETE</a> |

Upload supplementary file

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*Figure 6. Uploading Supplementary Files*

**Step 4A: Adding Supplementary Files Metadata**

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**Step 4a. Add a Supplementary File**

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| Keywords                         | <input type="text"/>                                                                       |
| Type                             | <input type="text" value="Research Instrument"/> Specify other <input type="text"/>        |
| Brief description                | <div><div></div><div>✂ 📄 📁   <b>B</b> <i>I</i> <u>U</u>   ☰ ☷   🔗 🔄 🌐 HTML 🖨 🗑</div></div> |
| Publisher                        | <input type="text"/>                                                                       |
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 Original file name 102-291-1-SM (1).pdf  
 File Size 1MB  
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*Figure 7. Supplementary file metadata*

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**Step 5: Confirm Submission**

You will see the file summary as shown in figure 8 below which lists the manuscript & supplementary files (if submitted). Click on "Finish Submission" to finalise the submission. Click on "Active Submission" to view the status of your article. You will receive an email notification and can view your submission process through the editorial process by logging in to the journal website.

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**File Summary**

| ID  | ORIGINAL FILE NAME                   | TYPE               | FILE SIZE | DATE UPLOADED |
|-----|--------------------------------------|--------------------|-----------|---------------|
| 311 | <a href="#">102-291-1-SM (1).PDF</a> | Submission File    | 1MB       | 07-21         |
| 312 | <a href="#">102-291-1-SM (1).PDF</a> | Supplementary File | 1MB       | 07-21         |

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: 0.00 (IDR)

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*Figure 8. FinalisiSng the Submission*

**How do I view the submission process?**

Author will be notified of the submission process by automatic email. The online publishing system notifies every important step of the review and editing process. Author must login to the system to view the submission process and take necessary actions.

Active Submission: after login. Click on the "author" link. This page will bring up two tabs or links -one for "active" & "archive". "active" will show the list of articles and their details. "archive" will show the list of published and rejected articles.

Article Status: After successful submission of the article, the system will show its status as "Awaiting Assignment". When the editor sends the article for peer review, the status will change to "in review". When the article has been accepted for publication, the status will change to "In editing".

The list of each status is described in the table below:

| Status             | Description                                                                                                                                                                                                                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Awaitig Assignment | The submission has been completed by you. You cannot currently remove a submission from the system by yourself. Editors can view the submission, and it will be assigned to an editor or section editor. Author can still provide updates to metadata details such as author, title, abstract and keywords until the article is assigned by the editor. |
| Incomplete         | Submission is still not complete. You have left the submission before completing the submission steps. You can return to where you left off to continue the submission.                                                                                                                                                                                 |
| In Review          | The submission is currently under review. You will be notified of the article review decision                                                                                                                                                                                                                                                           |
| In Editing         | Submissions have completed the review process and have been accepted for publication. Articles will go through copyediting, layout editing and proofreading processes.                                                                                                                                                                                  |
| Archived           | Article submission has been rejected. The article is now not in the active process.                                                                                                                                                                                                                                                                     |

Article Details: After login, click on the article title to see the details of the article. This page will show three tabs (links), Summary, Review, & Editing. Summary shows the article summary and metadata.

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## #64 Summary

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### Submission

|                |                                                                                                                                             |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Authors        | Hapsari Kenconoajati, Nina Rofi' Rukman                                                                                                     |
| Title          | Daya Hambat Ekstrak Daun Kelor ( <i>Moringa oleifera</i> ) Terhadap <i>Aeromonas Hydrophila</i> : Studi Awal Untuk Pengobatan Aeromoniasis. |
| Original file  | <a href="#">64-147-1-SM.PDF</a> 2019-04-27                                                                                                  |
| Supp. files    | None                                                                                                                                        |
| Submitter      | Zullyan Ahmad AR., ST.                                     |
| Date submitted | April 27, 2019 - 04:50 AM                                                                                                                   |
| Section        | Original Research                                                                                                                           |
| Editor         | Muhammad Azhar                                             |
| Abstract Views | 160                                                                                                                                         |

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### Status

|               |                                                              |
|---------------|--------------------------------------------------------------|
| Status        | Published Vol 4, No 1 (2019): Journal Of Aquaculture Science |
| Initiated     | 2019-04-27                                                   |
| Last modified | 2020-04-23                                                   |

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### Submission Metadata

#### Authors

|                                                 |                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Name                                            | Hapsari Kenconoajati  |
| Affiliation                                     | Universitas Airlangga                                                                                    |
| Country                                         | Indonesia                                                                                                |
| Bio Statement                                   | —                                                                                                        |
| Principal contact for editorial correspondence. |                                                                                                          |
| Name                                            | Nina Rofi' Rukman     |
| Affiliation                                     | Universitas Airlangga                                                                                    |
| Country                                         | —                                                                                                        |
| Bio Statement                                   | —                                                                                                        |

#### Title and Abstract

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Title    | Daya Hambat Ekstrak Daun Kelor ( <i>Moringa oleifera</i> ) Terhadap <i>Aeromonas Hydrophila</i> : Studi Awal Untuk Pengobatan Aeromoniasis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Abstract | <p>The aim of this study was to know antibacterial potency of ethanolic extract of drumstick leaf against <i>Aeromonas hydrophila</i> in vitro. Total flavonoid, alkaloid, tannin and saponin of the ethanolic drumstick leaf extract were analyzed using spectrophotometry. Antibacterial activity test was carried out by disk diffusion and tube dilution method. Ethanolic extract of drumstick leaf contained flavonoids total as 71.9 mg quercetine equivalent/g, alkaloids total as 3 mg quinine equivalent/g, tannin as 24.7 mg tannic acid equivalent/g and saponin as 44.4 mg/g. The result of antibacterial test showed significant inhibition of <i>Aeromonas hydrophila</i> by drumstick leaf extract (<math>P &lt; 0.05</math>). The highest inhibition zone was produced by drumstick leaf extract with concentration of 100% which is <math>9.9 \pm 0,162</math> mm. The minimum inhibition concentration (MIC) of drumstick leaf extract is 3.125%, while the minimum bactericidal concentration (MBC) is 6.25%. Based on this study, it can be concluded that drumstick leaf can be used as an alternative natural product of antibacterial agent which can be applied especially in aquaculture.</p> |

#### Indexing

|          |    |
|----------|----|
| Language | id |
|----------|----|

#### Supporting Agencies

|          |   |
|----------|---|
| Agencies | — |
|----------|---|

#### References

|            |   |
|------------|---|
| References | — |
|------------|---|

Figure 9. Summary

The second tab "review" shows the status of the review process

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## #64 Review

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SUMMARY REVIEW EDITING

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### Submission

|         |                                                                                                                                             |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Authors | Hapsari Kenconoajati, Nina Rofi' Rukman                                                                                                     |
| Title   | Daya Hambat Ekstrak Daun Kelor ( <i>Moringa oleifera</i> ) Terhadap <i>Aeromonas Hydrophila</i> : Studi Awal Untuk Pengobatan Aeromoniasis. |
| Section | Original Research                                                                                                                           |
| Editor  | Muhammad Azhar                                                                                                                              |

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### Peer Review

#### Round 1

|                |                                            |
|----------------|--------------------------------------------|
| Review Version | <a href="#">64-148-1-RV.PDF</a> 2019-04-27 |
| Initiated      | —                                          |
| Last modified  | —                                          |
| Uploaded file  | None                                       |

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### Editor Decision

|                       |                                                                                                                                                                                                              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Decision              | Accept Submission 2019-04-27                                                                                                                                                                                 |
| Notify Editor         |  Editor/Author Email Record  No Comments |
| Editor Version        | None                                                                                                                                                                                                         |
| Author Version        | None                                                                                                                                                                                                         |
| Upload Author Version | <div><div>Choose File</div><div>No file chosen</div><div>Upload</div></div>                                                                                                                                  |

Figure 10. Review

Authors can view the editor's version of the manuscript and can re-upload the author's version of the manuscript if revisions are requested from the editor.

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## #64 Editing

SUMMARY REVIEW EDITING

### Submission

Authors Hapsari Kenconoajati, Nina Rofi' Rukman   
 Title Daya Hambat Ekstrak Daun Kelor (Moringa oleifera) Terhadap Aeromonas Hydrophila: Studi Awal Untuk Pengobatan Aeromoniasis.  
 Section Original Research  
 Editor Muhammad Azhar 

### Copyediting

[COPYEDIT INSTRUCTIONS](#)

|                                                                                                       |      |         |          |                                                                                     |
|-------------------------------------------------------------------------------------------------------|------|---------|----------|-------------------------------------------------------------------------------------|
| Copyeditor                                                                                            | None |         |          |                                                                                     |
| <a href="#">REVIEW METADATA</a>                                                                       |      | REQUEST | UNDERWAY | COMPLETE                                                                            |
| 1. Initial Copyedit<br>File: None                                                                     | —    | —       | —        | 2019-04-27                                                                          |
| 2. Author Copyedit<br>File: None<br><a href="#">Choose File</a> No file chosen <a href="#">Upload</a> | —    | —       | —        |  |
| 3. Final Copyedit<br>File: None                                                                       | —    | —       | —        | 2019-04-27                                                                          |

Copyedit Comments  No Comments

### Layout

|                                                      |                                 |            |          |          |
|------------------------------------------------------|---------------------------------|------------|----------|----------|
| Layout Editor                                        | None                            |            |          |          |
| Layout Version                                       |                                 | REQUEST    | UNDERWAY | COMPLETE |
| None                                                 | —                               | —          | —        | VIEWS    |
| Galley Format                                        | FILE                            |            |          |          |
| 1. PDF (Bahasa Indonesia) <a href="#">VIEW PROOF</a> | <a href="#">64-158-2-PB.PDF</a> | 2019-06-24 |          | 33       |
| Supplementary Files                                  | FILE                            |            |          |          |
|                                                      | None                            |            |          |          |

Layout Comments  No Comments

### Proofreading

|                                 |                      |         |          |                                                                                       |
|---------------------------------|----------------------|---------|----------|---------------------------------------------------------------------------------------|
| Proofreader                     | Muhammad Hanif Azhar |         |          |                                                                                       |
| <a href="#">REVIEW METADATA</a> |                      | REQUEST | UNDERWAY | COMPLETE                                                                              |
| 1. Author                       | —                    | —       | —        |  |
| 2. Proofreader                  | 2019-04-27           | —       | —        | 2019-04-27                                                                            |
| 3. Layout Editor                | 2019-04-27           | —       | —        | 2019-04-27                                                                            |

Proofreading Corrections  No Comments [PROOFING INSTRUCTIONS](#)



### Technical Support

for any questions regarding technical support or assistance with online submission, please email [joas@psdku.unair.ac.id](mailto:joas@psdku.unair.ac.id)

**Title is written in capital letters at the beginning of the word (In Bahasa)**

Title in English (Times New Roman, Font 14) Title in English

(Times New Roman, Font 14)

Title in English (Times New Roman, Font 14)

Name of Authors (Full name) (Times New Roman Font 11 pt) Author<sup>1</sup>, Author<sup>2\*</sup>

Name of authors (Full name) (Times New Roman, Font 11 pt) Author<sup>1</sup>, Author<sup>2\*</sup>

Name Institution (Department, Faculty and address) (Times New Roman, Font 10 pt)

Name Institution (Department, Faculty and Address) (Times New Roman, Font 10 pt)

\*Corresponding Author: Email (Times New Roman, Font 10 pt)

\*Corresponding Author: Email (Times New Roman, Font 10 pt)

**Abstract (In English)** (Times New Roman, Font 10 pt)

Written in Indonesian and English. Abstracts include 3-5 keywords sorted according to their importance. Abstract contains a summary of the manuscript, covering all writing without trying to specify each part. Avoid using abbreviations.

Keywords: first, second, third, fourth, fifth.

Written in Indonesian and English. The abstract includes 3-5 keywords sorted according to their importance. The abstract contains a summary of the manuscript, which covers all the writing without trying to specify each section. Avoid using abbreviations.

Keywords: first, second, third, fourth, fifth

**Background (Introduction)** (Times New Roman, Font 12 pt)

Contains the scope, background of the objectives and benefits of the study. This section should provide background so that the reader can understand and assess the results of the study without reading previous reports relating to the topic. Give literature that can support the discussion.

Contains the scope, background objectives and benefits of the research. This section should provide a background so that the reader can understand and assess the research results without reading previous reports related to the topic. Provide appropriate literature that can support the discussion.

**Materials and Methods**

Describe in detail and clearly the design of the study, the method of treatment, the materials used and the method of work carried out, including statistical methods and an explanation of the certificate of ethical conduct of the animals if needed. The method of work submitted should contain sufficient information so as to enable the research to be repeated successfully.

Describe in detail and clarity the research design, husbandry methods, materials used and working methods performed, including statistical methods and an explanation of the animal ethical behaviour certificate if required. The methods presented should contain sufficient information to allow the study to be repeated successfully.

**Results and Discussions**

Presented jointly and discussed clearly the results of the study. The results of the research can be presented in written form in a script, table or picture. Reduce the use of graphics if it can be explained in the text. Limit the use of photos, present photos that clearly describe the results obtained. Pictures and tables must be numbered and quoted in the text. Photos can be sent in JPG, JPEG and PNG formats. The result of processing data is sent in a file separate from the scientific script file and accompanied by the name of the programme and basic data for compiling the graph. The discussion presented should contain an interpretation of the results obtained and the discussion relating to previous reports. Avoid repeating statements that have been conveyed to methods, results and other information that has been presented in the introduction.

Presented together and clearly discuss the results of the research. Research results can be presented in written form in the text, tables or figures. Reduce the use of graphs if they can be explained in the text. Limit the use of photos, present photos that clearly illustrate the results obtained. Figures and tables should be numbered and cited in the text. Photos can be submitted in JPG, JPEG and PNG formats. The results of data processing should be submitted in a file separate from the scientific script file and accompanied by the name of the programme and the underlying data to construct the graph. The discussion presented should contain an interpretation of the results obtained and a discussion relating to previous reports. Avoid repeating statements that have been made to the methods, results and other information that has been presented in the introduction.

**Conclusion** (Times New Roman, Font 12 pt)

Must be specific, clear and answer the problem. Presented separately from the results and discussion.

Should be specific, clear, and answer the problem. Presented separately from the results and discussion.

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**Acknowledgments** (Times New Roman, Font 10 pt)

Aimed at those who fund research and to reward institutions and individuals who have helped research or the process of scientific writing.

Aimed at those who fund research and to recognise institutions and individuals who have assisted in the research or scientific writing process.

**Bibliography** (Times New Roman, Font 10 pt)

Alphabetically arranged according to name and year of publication. Abbreviation of magazine/journal based on the procedures used by each journal. The proportion of bibliography: scientific journals/magazines at least 60% and textbooks 40%. Example of writing a bibliography:

- **Journal:** Verschuere L, Rombaut G, Sorgeloos P, Verstraete W. 2000. Probiotic Bacteria as Biological Control Agents in Aquaculture. *Microbiology and Molecular Biology Reviews*, 64(4): 655-671.
- **Article DOI:** Jin, E.S. & Melis, A. *Biotechnol. Bioprocess Eng.* (2003) 8:331. <https://doi.org/10.1007/BF02949276>.
- **Book:** Rai MK, Carpinella C. 2006. *Naturally Occurring Bioactive Compounds*. Elsevier, Amsterdam.
- **Proceeding:** Alikodra HS. 2000. Biodiversity for development of local autonomous government. In: Setyawan AD, Sutarno (eds). *Toward Mount Lawu National Park; Proceeding of National Seminary and Workshop on Biodiversity Conservation to Protect and Save Germplasm in Java Island*. Sebelas Maret University, Surakarta, 17-20 July 2000.
- **Undergraduate Thesis, Thesis, Dissertation:** Johari HS. 2009. Analysis of Heavy Metal Pollution of Cu, Cd, and Pb in the Waters of Thousand Islands Administrative District of Jakarta Province [thesis]. Bogor (ID): Bogor Agricultural University.
- **Online Document:** Balagadde FK, Song H, Ozaki J, Collins CH, Barnet M, Arnold FH, Quake SR, You L. 2008. A synthetic *Escherichia coli* predator-prey ecosystem. *Mol Syst Biol* 4:187. [www.molecularsystemsbiology.com](http://www.molecularsystemsbiology.com) [21 April 2015].

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- **Thesis, thesis, dissertation:** Johari HS. 2009. Analysis of Heavy Metal Pollution of Cu, Cd, and Pb in the Waters of Thousand Islands Administrative District of Jakarta Province [thesis]. Bogor (ID): Bogor Agricultural University.
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