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Title

Category of Submission New

Manuscript ID EAHT-21-037 Type of Manuscript Systemic Review

Subspecialty Ecotoxicology and Risk Assessment

Temporary number 20210037 Date Submitted 2021년 06월 02일 17시 20분 32초

Title The Use of Green Mussel as Bioindicator of Heavy Metal Pollution In Indonesia: A Review

Running title The Use of Green Mussel as Bioindicator

Corresponding Author

E-mailsya809@umkt.ac.idNameSyamsir Syamsir

Affiliation Department of Environmental Health, Universitas Muhammadiyah Kalimantan Timur

Address Juanda Street Number 15, Samarinda Ulu

CitySamarindaCountryIndonesia

Tel +6282350972100 **Fax** 0

Cellular Phone

Author Information

Ismail Saleh¹, Syamsir Syamsir^{1*}ib, Vita Pramaningsih¹ib, Hansen Hansen¹

¹Department of Environmental Health, Universitas Muhammadiyah Kalimantan Timur, Samarinda, Indonesia

Abstract & Cover Letter

Asian Green Mussel is a marine animal that is used as food by most Indonesians. The mussels are widely cultivated in tropical countries such as Indonesia, Malaysia, Thailand, and other Asian countries. The mussel, known as Perna Viridis, is marine biota that is a filter feeder in the waters. Therefore, the quality of its meat is greatly influenced by the quality of the sea in its habitat. It is a food that is quite popular with the community but can endanger public health due to the accumulation of heavy metals. This study used a literature review by collecting data related to heavy metal concentrations in green mussel tissue in Indonesia. The results showed that the mussels from several sampling locations still exceeded the maximum acceptable limits of Pb, Hg, and Cd concentration according to the standards of the Food and Drug Administration of the Republic of Indonesia. Consumption of green mussels can increase health risks if you frequently consume them from cultivating or catching locations that have been contaminated with

heavy metals.

Key Words

Green Mussel&&Perna Viridis&&Bioindicator&&Health Risk&&Heavy Metal

Acknowledgment

Abstract

Cover Letter

Manuscript File

Original files

File Name PDF File Name File Designation

A_20210037_1_00.docx Manuscript file Manuscript File

A_eaht_20210037_0.pdf

1st revision files

File Name PDF File Name File Designation

A_20210037_1_11.docx Manuscript file Revision 1

A_eaht_20210037_1.pdf

Review Result

1st 2nd 3rd 4th 5th

Review Result Major revision Accept without revision

Author's Opinion

1st 2nd 3rd 4th 5th

Author's Opinion 1st

Author's Opinion

EHT

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Division of Environmental Science and Ecological Engineering, Korea University

145 Anam-ro, Seongbuk-gu, Seoul 02841, Korea

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Manuscript ID 20210037

Subject [Environmental Analysis Health and Toxicology] Complete submissions. Temporary number

[20210037]

Send Type Manuscripts Revision

Receipt Date 02-Jun-2021



Environmental Analysis Health and Toxicology

ONLINE MANUSCRIPT SUBMISSION

[Environmental Analysis Health and Toxicology] Complete submissions.

Sender: Korean Society of Environmental Health and Toxicology

Recipient: Syamsir Syamsir

Date Submitted: 02-Jun-2021 17:20

Temporary number: 20210037

Category of

Submission :

Type of Manuscript: Systemic Review

Subspecialty: Ecotoxicology and Risk Assessment

Abstract

The Use of Green Mussel as Bioindicator of Heavy Metal Pollution In Indonesia: A Review

Asian Green Mussel is a marine animal that is used as food by most Indonesians. The mussels are widely cultivated in tropical countries such as Indonesia, Malaysia, Thailand, and other Asian countries. The mussel, known as Perna Viridis, is marine biota that is a filter feeder in the waters. Therefore, the quality of its meat is greatly influenced by the quality of the sea in its habitat. It is a food that is quite popular with the community but can endanger public health due to the accumulation of heavy metals. This study used a literature review by collecting data related to heavy metal concentrations in green mussel tissue in Indonesia. The results showed that the mussels from several sampling locations still exceeded the maximum acceptable limits of Pb, Hg, and Cd concentration according to the standards of the Food and Drug Administration of the Republic of Indonesia. Consumption of green mussels can increase health risks if you frequently consume them from cultivating or catching locations that have been contaminated with heavy metals.

Manuscript file: - A 20210037 1 00.docx (232KBytes) Manuscript file

Dear Dr. Syamsir Syamsir:

Thank you for submitting your manuscript to Environmental Analysis Health and Toxicology.

Your manuscript titled "The Use of Green Mussel as Bioindicator of Heavy Metal Pollution In Indonesia: A Review" has been received by the electronic manuscript submission system of *Environmental Analysis Health and Toxicology* and has been numbered 20210037 temporarily.

A manuscript number will be assigned shortly, and we will be in touch with you in due course.

Sincerely,

Jung-Hwan Kwon, PhD Editor-in-Chief

Environmental Analysis Health and Toxicology Editorial Office Division of Environmental Science and Ecological Engineering, Korea University 145 Anam-ro, Seongbuk-gu, Seoul 02841, Korea

TEL: +82-32-560-7520 E-mail: envitoxic@gmail.com Website: http://submit.eaht.org/

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Manuscript ID EAHT-21-037

Subject Manuscript ID [EAHT-21-037] Letter of decision 1st - Major revision

Send Type Manuscripts Revision

Receipt Date 23-Aug-2021



Environmental Analysis Health and Toxicology

ONLINE MANUSCRIPT SUBMISSION

[Environmental Analysis Health and Toxicology] Review result: 1st

Date sent : August 23, 2021

Date Decisioned : August 23, 2021

Manuscript ID : EAHT-21-037

Title: The Use of Green Mussel as Bioindicator of Heavy Metal Pollution In Indonesia: A

Review

Corresponding

Author:

Syamsir Syamsir

Review result: Major revision (Revision Period: ~ 2021-10-22)

Comments to Authors

(Editorial Office):

It is difficult to complete editorial evaluation of your report. Major revision is required as noted in the reviewer(s) comments. Such revisions must be made if you wish to resubmit your manuscript for consideration for publication.

Please review all comments issued by the reviewers and respond to them point-by-point.

When submitting your revised manuscript, you will be able to respond to the comments made by the reviewer(s) in the space provided. You can use this space to document any changes you make to the original manuscript. In order to expedite the processing of the revised manuscript, please be as specific as possible in your response to the reviewer(s).

Because we are trying to facilitate timely publication of manuscripts submitted to *Environmental Analysis Health and Toxicology*, your revised manuscript should be uploaded as soon as possible. If it is not possible for you to submit your revision in a reasonable amount of time, we may have to consider your paper as a new submission.

Once again, thank you for submitting your manuscript to *Environmental Analysis Health and Toxicology* and we look forward to receiving your revision.

Sincerely,

Jung-Hwan Kwon, PhD Editor-in-Chief

Environmental Analysis Health and Toxicology Editorial Office Division of Environmental Science and Ecological Engineering, Korea University 145 Anam-ro, Seongbuk-qu, Seoul 02841, Korea

TEL: +82-32-560-7520 E-mail: envitoxic@gmail.com Website: http://submit.eaht.org/

Reviewer's comments

#1 reviewer:

This is an interesting review article and provides information on green mussel as a heavy metal indicator in Indonesia. I am requesting a major revision.

The most important during the first revision should be adding proper references to the author's writings. Many of sentences are missing

references. I understand that the sentences delivering general information or briefly introducing details in the following sentences don't need

to have specific references.

As readers are not an expert on the contents, however, other many sentences are required to provide references supporting the contents. Some

sentences seem to contain author's opinions but have no supporting references.

Another key point is that the article is missing to validate capability of green mussel as a indicator. In the line 50, it was written that this

review examines "ability of green mussels as a seawater bioindicator".

Ability as an pollution indicator should be proven with evidences. The evidences could be cases that the green mussels in Indonesia reflect

heavy metal concentrations from the surrounding environment or discharging concentration from the industrial complex near to the sampling site.

I couldn't find any evidencing sentences.

Add a few paragraph provide the evidences to the manuscript.

Below provide the lines that require addition of references.

Add a reference to the lines 19 to 20.

Add a reference to the lines 20 to 21.

Add a reference to the lines 21 to 22.

Add a reference to the lines 22 to 23.

Add a reference to the lines 27 to 28.

Add a reference to the lines 29 to 30.

Add a reference to the lines 40 to 41.

Add a reference to the lines 102 to 103.

Add a reference to the lines 108 to 109.

Add a reference to the lines 109 to 110.

Add more descriptions on the "several studies" that were introduced in lines 118 to 119 and provide corresponding references.

Add a reference to the lines 122 to 123.

Add a reference to the lines 124 to 125.

Add a reference to the lines 127 to 128.

#2 reviewer:

Attach File: R_EAHT-21-037_1_1629344470_1.docx

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Manuscript ID EAHT-21-037

Subject [1st Revision completed] EAHT-21-037 was revised and submitted

Send Type Manuscripts Revision

Receipt Date 22-Oct-2021



Environmental Analysis Health and Toxicology

ONLINE MANUSCRIPT SUBMISSION

[Environmental Analysis Health and Toxicology] 1st Revision completed.

Manuscript ID: EAHT-21-037

Revision Date : 22-Oct-2021 01:03

Type of Manuscript : Systemic Review

Title: The Use of Green Mussel as Bioindicator of Heavy Metal Pollution In Indonesia: A

Review

Corresponding Author

. .

Syamsir Syamsir

Author's opinion : M_20210037_11_1.docx (423KBytes)

#1 Revision:

- I have added references on lines 19 - 30, 40 - 41, 102 - 103, 108 - 110, and

124 - 131

- I have added several studies on lines 109 - 110

#2 Revision:

- I have corrected the writing in the Abstract section

- I have corrected line 44 to "Several areas of cultivation and capture of mussels in Indonesia are leasted ground industries."

in Indonesia are located around industries"

- I have corrected the sentence structure on lines 51 and 52 so that there is no more repetition of writing

- It is not possible to graph by year for data collection in the methods section

- I have edited line 73

- I have added a Cd pollutant source on line 101

- I have corrected the sentence structure on lines 128 - 132 so that there is no more repetition of writing

- I have added a toxic mechanism (heavy metals) into the human body due to

consuming shellfish. Can be seen in lines 157 -179

Sincerely,

Jung-Hwan Kwon, PhD Editor-in-Chief Environmental Analysis Health and Toxicology Editorial Office Division of Environmental Science and Ecological Engineering, Korea University 145 Anam-ro, Seongbuk-gu, Seoul 02841, Korea

TEL: +82-32-560-7520 E-mail: envitoxic@gmail.com Website: http://submit.eaht.org/

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Manuscript ID EAHT-21-037

Subject Manuscript ID [EAHT-21-037] Letter of decision 2nd - Accept without revision

Send Type Manuscripts Revision

Receipt Date 02-Nov-2021



Environmental Analysis Health and Toxicology

ONLINE MANUSCRIPT SUBMISSION

[Environmental Analysis Health and Toxicology] Review result: 2nd

Date sent :November 02, 2021Date Decisioned :November 02, 2021

Manuscript ID: EAHT-21-037

Title: The Use of Green Mussel as Bioindicator of Heavy Metal Pollution In Indonesia: A

Review

Corresponding

Author:

Syamsir Syamsir

Review result: Accept without revision

Comments to Authors

(Editorial Office):

With pleasure, we would like to inform you that your manuscript titled above has been accepted for publication in *Environmental Analysis Health and Toxicology*.

Your manuscript will be checked by English and/or bibliographic experts and will be delivered to you if there are any minor changes necessary. In that case, please return the final version through the online submission system.

Thank you for your worthy contribution to *Environmental Analysis Health and Toxicology*. We look forward to your continued contributions to the journal.

Sincerely,

Jung-Hwan Kwon, PhD

Editor-in-Chief

Environmental Analysis Health and Toxicology Editorial Office Division of Environmental Science and Ecological Engineering, Korea University 145 Anam-ro, Seongbuk-gu, Seoul 02841, Korea

Website: http://submit.eaht.org/

Reviewer's comments

Division of Environmental Science and Ecological Engineering, Korea University 145 Anam-ro, Seongbuk-gu, Seoul 02841, Korea

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