

## Bukti korespondensi

The screenshot shows the eProofing interface with the article title "Sequential acid and enzymatic hydrolysis of carrageenan solid waste for bioethanol production: a biorefinery approach". The authors listed are Maria Dyah Nur Meinita<sup>1</sup>, Bintang Marhaeni<sup>1</sup>, Gwi-Taek Jeong<sup>2</sup>, and Yong-Ki Hong<sup>2</sup>. The affiliations are: <sup>1</sup> Fisheries and Marine Science Faculty, Jenderal Soedirman University, Purwokerto, Indonesia (AQ1); and <sup>2</sup> Biotechnology Department, Pukyong National University, Busan, South Korea (AQ2). The submission status is "Article submitted successfully" with a DOI of 10.1007/s10811-019-1755-8. The abstract begins with "The seaweed industry has developed rapidly over the last decade, and carrageenan is the leading hydrocolloid in the seaweed industry. Approximately 57,500 t of".

This screenshot shows the same eProofing interface as the first, but with an "Update Author Query Details" dialog box open. The dialog box contains a confirmation message: "Please confirm if the author names are presented accurately and in the correct sequence (given name, middle name/initial, family name)." Below this is a text area with the statement: "We confirm that the author names are presented accurately and in the correct sequence (given name, middle name/initial, family name)". The dialog box has "Answer" and "Cancel" buttons at the bottom. The background shows the same article details and abstract as the first screenshot.

DOI: 10.1007/s10811-019-1755-8

# production: a biorefinery approach

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2 Biotechnology Department, Pukyong National University, Busan, South Korea

Received: 23 July 2018 / Accepted: 29 January 2019

## Abstract

The seaweed industry has developed rapidly over the last decade, and carrageenan is the leading hydrocolloid in the seaweed industry. Approximately 57,500 t of carrageenan is produced annually throughout the world. As a consequence of the increase in carrageenan production, the enormous amount of waste resulting from the carrageenan industry has also increased. This study investigated the possibility of ethanol production using carrageenan solid waste from the carrageenan

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DOI: 10.1007/s10811-019-1755-8

# production: a biorefinery approach

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2. Please check if the affiliations are presented correctly.

## Abstract

The seaweed industry has developed rapidly over the last decade, and carrageenan is the leading hydrocolloid in the seaweed industry. Approximately 57,500 t of carrageenan is produced annually throughout the world. As a consequence of the increase in carrageenan production, the enormous amount of waste resulting from the carrageenan industry has also increased. This study investigated the possibility of ethanol production using carrageenan solid waste from the carrageenan

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DOI: 10.1007/s10811-019-1755-8

# production: a biorefinery approach

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## Abstract

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### Author Details

Prefix	First Name	Suffix	Role	Particle	Degrees
	Yong-Ki				

Display Order: ☐ Eastern ☒ Western

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DOI: 10.1007/s10811-019-1755-8

Carrageenan waste	30.52 ± 0.79
2. Carrageenan waste after acid pretreatment	
Galactose	
Glucose	
HMF	
Levulinic acid	
3. Carrageenan waste after enzymatic hydrolysis	
Galactose	
Glucose	
HMF	
Levulinic acid	

**Update Author Query Details**

The citation 'Hayashi and Paula 2007' has been changed to 'Hayashi and De Paula, 2007' to match the author name/date in the reference list. Please check if the change is fine in this occurrence and modify the subsequent occurrences, if necessary.

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Please change "Hayashi and De Paula, 2007" to "Hayashi et al. (2007)". This is the correct bibliography:  
Hayashi L, de Paula EJ, Chow F (2007) Growth rate and carrageenan analyses in four strains of *Kappaphycus alvarezii* (Rhodophyta, Gigartinales) farmed in the subtropical waters of São Paulo State, Brazil. *J Appl Phycol* 19:393–399. doi: 10.1007/s10811-006-9135-6

**Answer Cancel**

**AQ5**  
**AQ6**  
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In this study, the amount of carrageenan waste was 30.52 ± 0.79% (Table 2). Hence, we assumed that 30.52% or 15,260 t of seaweed raw material, which could be used as raw material for bioethanol production, remains as waste produced from the carrageenan industry each year.

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DOI: 10.1007/s10811-019-1755-8

## production: a biorefinery approach

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Received: 23 July 2018 / Accepted: 29

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**Abstract**

The seaweed industry has developed rapidly over the last decade, and carrageenan is the leading hydrocolloid in the seaweed industry. Approximately 57,500 t of carrageenan is produced annually throughout the world. As a consequence of the increase in carrageenan production, the enormous amount of waste resulting from the carrageenan industry has also increased. This study investigated the possibility of ethanol production using carrageenan solid waste from the carrageenan

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Yong-Ki **Hong,** <sup>2</sup>

<sup>2</sup> Biotechnology Department, Pukyong

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
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Dear Dr Meinita,

We have received the reports from our advisors on your manuscript, "Sequential Acid and Enzymatic Hydrolysis of Carrageenan Solid Waste for Bioethanol Production: A Biorefinery Approach", submitted to Journal of Applied Phycology

Based on the advice received, I have decided that your manuscript can be accepted for publication after you have carried out the corrections as suggested by the reviewer(s).

Attached, please find the reviewers' comments for your perusal.

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With kind regards,  
Michael A. Borowitzka, PhD  
Editor in Chief

Comments for the Author:

Reviewer #1: November 26, 2018

Journal of Applied Phycology Review  
JAPH-D-18-00512

This paper described the extraction of carrageenan and its hydrolysis for bioethanol production. The scope is OK but it cannot be published because of the following reasons.

Major comments

- Carrageenan yields of 25.4-5.3% and 20-35% should be clarified. According to Hayashi et al. (2011), the G11 strain had semi-refined carrageenan yields which were significantly higher (31% - 43%) than tetrasporophytic strains, and similar to those for the commercial sample (49%) for all months studied (Figure 1b). Refined carrageenan yield was significantly higher for the G11 strain than for the tetrasporophytic strains throughout the year, except in February (related to the green strain) and May (related to the brown and red strains) (Figure 1c). The values obtained from this strain (15% - 28%) are similar to those for the commercial sample (27%).

- Line 149-150. A yield of 35.3% should be corrected because 46.1% was reported according to Goes and Reis (2012).
- Why the carrageenan yield and ethanol production of this research was better than others? Results of Table 3 should be discussed in regards with extraction yield and ethanol production.

#### Minor comments

There are two Fig. 4. Should be corrected

Fig. 1 should be deleted

Figure 3 caption. Enzy me concentration (%) -> Enzyme concentration (%)

Number font size in Table 2 should be identical

Line 177 (Fig. 1a) -> Fig. 2a

Line 182 by Meinita et al. (2015, 2012, 2011). -> by Meinita et al. (2015, 2012)

Line 187 (Fig. 1b) -> Fig. 2b

Line 198 (Fig. 1c) -> Fig. 2c

Line 300 (Fig. 4) -> Figure number should be added.

Line 312 Figure 4 -> Figure number should be added.

#### Many errors in references

Reference line 331-333 -> J Appl Phycol 24:173-180

Reference line 339-341 -> J Appl Phycol 23:439-447, Kappaphycus alvarezii should be in italic Reference line 342-344 -> J Appl Phycol 19:393-399

Reference line 352 -> (Book) -> McHugh (2003) A Guide to the Seaweed Industry, FAO, Roma

Reference line 353 -> year 2011 -> 2012

Reference line 356-358 -> J Appl Phycol 29:3201-3209

Reference line 359-361 -> J Appl Phycol 30:143-147

Reference line 371-373 -> J Apple Phycol 1-7 (2018)

Reference line 374-376 -> J Appl Phycol 6:1-5 doi: 10.1007/BF02185896

Reference line 377-378 -> Mar Blosci Biotechnol 4:6-10

Reference line 379-381 -> Food Hydrocoll 23:1903-1909

Reference line 382-384 -> authors should be four. Periyasamy C, Anantharaman P, Balasubramanian T, Rao PS (2014), J Appl Phyco 26:803-810

Reference line 385-386 -> J Appl Phycol 29:2187-2200

Editors Note: The other reviewer has been unresponsive and I do not wish to hold up this paper any longer.

When revising, please correct the unit g L-1 on the graphs - there should be a space between the g and the L. Also, please carefully check all your references to see they are complete and up-to-date. The doi should only be given if the paper has been published only on-line.

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Dear Dr Meinita,

We are pleased to inform you that your manuscript, "Sequential Acid and Enzymatic Hydrolysis of Carrageenan Solid Waste for Bioethanol Production: A Biorefinery Approach", has been accepted for publication in Journal of Applied Phycology.

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