LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH: JURNAL ILMIAH TERINDEKS SCOPUS

Judul Karya Ilmiah/Artikel	:	Study of *Bacillus methylotrophicus* as a Probiotic Candidate Bacteria With Different Concentration Against Aeromonas hydrophila on Water as a Cultivation Media of Tilapia (*Oreochromis niloticus*)		
Jumlah Penulis	:	4 (empat)		
Status Pengusul		~~Penulis pertama~~/ penulis ke 2/ ~~penulis korespodensi~~*		
Penulis Karya Ilmiah	:	Putri Agustina, **Sarjito**, Alfabetian Harjuno Condro Haditomo.		
Identitas Karya Ilmiah	a.	Nama prosiding	:	4t^{h} IOP Conf. Series: Earth and Environmental Science
	b.	No.ISSN	:	17551307/17551315
	c.	Vol, No, Bln, Thn	:	Vol. 1246 (2019) 012030
	d.	Penerbit	:	IOP Publishing
	e.	DOI Artikel (Jika ada)	:	10.1088/1755-1315/246/1/012030
		URL	:	https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012030/pdf
	f.	Alamat Web Prosiding	:	https://iopscience.iop.org/article/10.1088/1755-1315/246/1/012030
	g.	Terindeks di	:	Scopus, SJR : 0.18 ; H Index : 26

Kategori Publikasi Prosiding Ilmiah :
(beri ✓ pada kategori yang tepat)

☑ Prosiding Internasional / Internasional bereputasi
☐ Prosiding Nasional

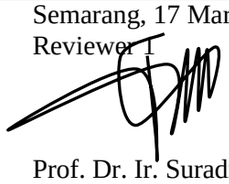
Hasil Penilaian *Peer Review*:

Komponen Yang Dinilai	**Nilai Maksimal Prosiding**			**Nilai Yang Diperoleh**
	Internasional terindeks Scopus	**Internasional**	**Nasional**	
	30	15	10	
a. Kelengkapan unsur isi artikel (10%)	3			3
b. Ruang lingkup dan kedalaman pembahasan (30%)	9			8,5
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9			8,75
d. Kelengkapan unsur dan kualitas penerbit (30%)	9			8,5
Total = (100%)				28,75
Nilai Pengusul : 28,75 x (0,4/2) = 5,75				

Catatan Penilaian Paper oleh Reviewer:

1. Artikel lengkap, latar belakang jelas menggambarkan pentingnya penelitian, dengan tujuan terdeskrip dengan baik. Metode telah disusun untuk mencapai tujuan.
2. Ruang lingkup sesuai dengan bidang ilmu pengusul, dan pembahasan cukup mendalam, dalam didukung 31 referensi untuk membahas hasil
3. Data cukup untuk menjawab tujuan, dan kemutakhiran informasi didukung 22 referensi di bawah 10 tahun, dari 35 pustaka yang disitir.
4. Kesimpulan telah disusun dengan baik, dan telah sesuai menjawab tujuan penelitian
5. unsur dan kualitas penerbit lengkap dan baik
6. Tingkat kemiripan 6%, tidak ada indikasi plagiasi

Semarang, 17 Maret 2022
Reviewer 1



Prof. Dr. Ir. Suradi, M.S.
NIP. 196005161987031001

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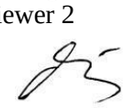
Hasil Penilaian *Peer Review*:

Komponen Yang Dinilai	**Nilai Maksimal Prosiding**			**Nilai Yang Diperoleh**
	Internasional terindeks Scopus	**Internasional**	**Nasional**	
	30	15	10	
e. Kelengkapan unsur isi artikel (10%)	3			2.9
f. Ruang lingkup dan kedalaman pembahasan (30%)	9			7.8
g. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	9			8.2
h. Kelengkapan unsur dan kualitas penerbit (30%)	9			8.2
Total = (100%)				27.1
Nilai Pengusul : 0.4 x 27.1/2 = 5.42				

Catatan Penilaian Paper oleh Reviewer:

IOP Conference Series: Earth and Environmental Science; Scopus coverage years:from 2010 to Present; ISSN:1755-1307E-ISSN:1755-1315. Artikel ditulis dalam Bahasa Inggris yang baik. Gap analysis terlihat, disertai referensi sesuai. Metode juga baik dan lengkap, disertai referensi. Pembahasan juga baik, menggunakan 50% artikel yang tersedia (total artikel 48). Kebaruan juga baik, >60% artikel terbit dalam 10 th. Kualitas Penerbit baik.

Semarang, 17 Maret 2022
Reviewer 2



Prof. Dr. Ir. Diah Permata Wijayanti, M.Sc.
NIP. 196901161993032001

4th International Conference on Tropical and Coastal Region Eco Development

FOREWORD FROM THE CHAIR PERSON OF THE 4th ICTCRED 2018

Assalamu'alaikum Warahmatullohi Wabarokatuh

On behalf of the Organizing Committee, I would like to extend our warmest welcome to you at the International Conference on Tropical and Coastal Region Eco Development (ICTCRED) 2018. This annual conference is the fourth event after the third has been successfully conducted in 2017 at Yogyakarta. This conference is organized by Faculty of Fisheries and Marine Science starting this year as previously organized by Research and Community Services Institute (LPPM), Diponegoro University. The conference aims to provide a forum for researchers, academicians, professionals, and industries to expose and exchange innovative ideas, methods, and experience in the areas related to tropical life sciences and coastal development. This conference also provides forum for researchers and scientists to exchange ideas and their current achievements.

We have accepted 170 abstracts for oral and poster presentation coming from different universities and research centers from many countries. In addition, we cordially invite five highly respected researchers as keynote speakers with different field, to share their knowledge and expertise. I am grateful of each one of them for setting aside their valuable time to participate in this conference.

Moreover, I would like to announce that the ICTCRED 2018 Committee has signed an agreement with the Institute of Physics (IOP) to publish the conference proceeding in their Scopus-indexed *IOP Conference Series: Earth and Environmental Sciences (EES)* after a series of review. We also offer some selected paper to be published in *Biodiversitas* (Scopus-indexed journal). We do hope that the collaboration with IOP and Biodiversitas will increase the visibility of this conference papers to international levels which also give benefits to authors and also their institutions.

The committee extent very kind thank to all participants for the success of the conference. They are Rector of Diponegoro University, Dean of Faculty of Fisheries and Marine Science, the keynote speakers. Finally the success of this conference lies not only in the quality of papers but also on the dedicated team work of the organizing and scientific committee. I would like to acknowledge Institute of Physics (IOP) for the collaboration in publishing the conference proceedings.

To all participant, I do hope that the 4th ICTCRED 2018 event bring a fruitful knowledge and be a memorable event not only from the scientific perspective but also in the joy of meeting with other scientists for mutual collaboration. I wish you enjoy the conference as well as the beautiful nature and great traditions of Semarang.

Wassalamu'alaikum Warahmatullohi Wabarokatuh

Thank you

Tri Winarni Agustini
4th ICTCRED Chair

FOREWORD FROM DEAN FACULTY OF FISHERIES AND MARINE SCIENCE

Bismillahirrahmanirrahim

My respect for distinguished speakers, presenters, delegates, professionals, and all participants

Praise be to the Allah S.W.T. for granting us the opportunity to organize the International Conference on Tropical and Coastal Region Eco Development (ICTCRED) 2018 in Semarang, Indonesia. Fisheries and Marine Science Faculty, Diponegoro University, is pleased and feels honored to be the host of this prestigious annual conference.

I am very pleased to welcome you all to this international conference, Tropical and Coastal Region Eco-development, which acts as a forum for those interested in tropical marine and coastal development issues. This annual conference is the fourth event after the third has been successfully held at Yogyakarta in 2017. This conference is the first time organized by Fisheries and Marine Science Faculty after the last three was organized by Research and Community Services Institute (LPPM), Diponegoro University.

Diponegoro University commits to providing an opportunity for scientific society to always play an important role in disseminating ideas and research results especially in the area of coastal and marine tropical development, which is the main research field of our university. Hence, this conference offers a platform for extensive sharing and exchange of knowledge for the *Coastal Region Eco Development* (CRED) and *Tropical Life Sciences (TLS)*. The CRED topics presented in this conference cover aquaculture, fisheries, coastal management and social economics, marine product processing, biotechnology, coastal engineering, climate change, disaster mitigation, and rehabilitation. In the *TLS*, this conference deals with relevant ideas and knowledge addressing coastal public health and policy, epidemiology, food nutrition and health, medical microbiology, molecular biology, pharmacological aspect and treatment, tropical diseases. Thus, it is clear that the International Conference on Tropical and Coastal region eco-development is a unique blend of coastal and tropical that nicely fits the current interest among the community concerned with sustainable coastal and tropical marine ecosystems.

On behalf of the Faculty of Fisheries and Marine Science UNDIP, I would like to express my deep thanks to our distinguished keynote speakers, Prof. Dr. Ocky Karna Radjasa, Prof. Dr. Kazuo Nadaoka, Dr. Elconor A. Tendencia, Prof. Yasuhiro Igarashi, and Prof. Dr. Irwandi Jaswir, who had been traveling all the way to Semarang. Certainly, we will have an important benefit of preparing the next generation of Indonesian scientists with international exposure.

Finally, we thank our participants to present their research papers, to share extensively and exchange of ideas thoughts and discussions so that this conference facilitates the formation of networks among participants. Many thanks to the organizing and scientific committee of ICTCRED 2018 who have worked very hard to run the conference.

I pray to Allah S.W.T. to bless this conference with His Grace. I wish you all the best and hope your presence in Semarang would be a memorable one. Thank you.

My best regards,

Prof. Dr. Agus Sabdono
Dean of Fisheries and Marine Sciences Faculty
Diponegoro University

WELCOME ADDRESS OF THE RECTOR OF DIPONEGORO UNIVERSITY

Assalamu'alaikum Warahmatullohi Wabarokatuh

It is a great pleasure and honour for our University to be the host of the 4th International Conference on Tropical and Coastal Region Eco Development 2018. Previously, the Conference was initiated and hosted by Research and Community Services Institute, Diponegoro University. Due to the broader attention to the venue from the researchers who work on tropical, marine science and coastal development study, from 2018, the Conference was organized by Faculty of Fisheries and Marine Science, Diponegoro University. The origin of the conference theme is reflected the idea of our Center of Excellence (CoE) which was established in 2012 representing our priority as a Research University. Since the declaration of Diponegoro University as a research university, the main theme of the research should be enhanced to the level of international benchmarking. Therefore, international level of a venue is very important.

Here I would like to express a special acknowledgement, to the distinguished speakers: Prof. Dr. Ocky Karnaradjasa from Ministry of Research, Technology and Higher Education; Prof. Dr. Kazuo Nadaoka from Tokyo Institute of Technology Japan; Dr. Eleonor A. Tendencia from Southeast Asian Fisheries Development Philippine; Prof Dr. Yasuhiro Igarashi from Toyama Prefectural University Japan; Prof. Dr. Irwandi Jaswir from International Islamic University Malaysia. Thank you for the valuable time to deliver knowledge and share scientific information at this conference. I believe that this opportunity will provide valuable information for us and deliberates the new research ideas for participants of this conference. For all the participants, I would also like to welcome you at this conference, to Semarang City where our University was located.

Diponegoro University, consists of 13 faculties, has strong human resources and research background related to the coastal development and tropical life sciences. It is also supported by Integrated Laboratory of Marine and Fisheries and also Marine Science Techno Park which is located at Teluk Awur, Jepara.

Coastal development and tropical life sciences are two important issues in Indonesia. The issues need to be actualized by the Government and the stake holders involved. The enormous potencies of Indonesian ocean, couple with the various type of existing ecosystems, provide a remarkable opportunity for thousand of scientists to contribute for the prosperity of human life. Currently, various reports mentioned the occurrence of global warming which is affect the broader aspects of human life. The sea and coast are believed to have a major role in global climate change. Therefore, research involving many aspects in both areas will generate a lot of new knowledge that is very important to deal with the climate change.

Moreover, the exploration and exploitation of marine products must be considered on the impact of the environmental devastation. These issues are interesting topics which are reflected by large number of abstracts submitted to this conference. These interesting issues need to be discussed in this conference by sharing research finding and ideas.

I am grateful to see that this conference has enormous responds from the participants either from domestic or from other countries such Japan, Philippine and Malaysia as reported by Organizing Committee.

Number of publication indexed by reputable database has been set as an indicator for world university rank including Indonesia. Therefore, Diponegoro University also encourages all scientists and academic staffs to increase their publication records in these international reputation journals. Currently, Diponegoro University is in the 3rd position among national universities in Indonesia for the number of

publications in the reputable International journals. I sincerely express appreciation to the organizing committee for their effort to organize the conference.

By the end of my short welcome address, I hope our foreign guests take advantage of their stay here to enjoy Semarang, a warm and friendly city. May you enjoy the original Semarang's cuisine, Lumpia and its wonderful places known as Old Town.

Once again, it is my great pleasure to welcome you all to the 4th International Conference on Tropical and Coastal Region Eco Development 2018. I wish you a pleasant a fully scientific day of conferences and I hope you can get a fruitful share with other scientists on current developed knowledge and perhaps seeking for potential collaboration of your interested field.

Wassalamu'alaikum Warahmatullohi Wabarokatuh
Thank you for your kind attention.

Prof. Yos Johan Utama
Rector

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Peer review statement

To cite this article: 2019 *IOP Conf. Ser.: Earth Environ. Sci.* **246** 011002

IOP Conf. Series: Earth and Environmental Science **246** (2019) 011002 doi:10.1088/1755-1315/246/1/011002

Peer review statement

All papers published in this volume of *IOP Conference Series: Earth and Environmental Science* have been peer reviewed through processes administered by the proceedings Editors. Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing.

Characterization of Marine Bioflocculant-producing Bacteria Isolated From Biofloc of Pacific Whiteleg Shrimp, *Litopenaeus vannamei* Culture Ponds

Nurul Fakriah Che Hashim[1], Nurarina Ayuni Ghazali[1], Nakisah Mat Amin[2], Noraznawati Ismail[3] and Nor Azman Kasan[1]

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Abstract. Characterization of marine bioflocculant-producing bacteria isolated from bioflocs of Pacific whiteleg shrimp, *Litopenaeus vannamei* culture ponds was prompted to explore the bacteria that enhanced bioflocculation process in aquaculture wastewater treatment. Certain marine bacteria were potentially secreted extracellular polymeric substances (EPS) which response to the physiological stress encountered in the natural environment that can act as bioflocculants. This study aimed to identify marine bioflocculant-producing bacteria isolated from biofloc; to evaluate their flocculating activities; and to characterize their protein in EPS. Phenotypic and genotypic identification of the bacteria including morphological and molecular approaches were employed, while their flocculating activities were examined via Kaolin clay suspension method and statistically analyzed. The EPS that acted as bioflocculants were extracted using cold ethanol precipitation method. Protein concentration was determined by Bradford assay and protein profiling was finally completed with Sodium Dodecyl Sulfate Polyacrylamide Gel Electrophoresis (SDS-PAGE) method. Six species of marine bacteria known as *Halomonas venusta, Bacillus cereus, Bacillus subtilis, Bacillus pumilus, Nitratireductor aquimarinus* and *Pseudoalteromonas* sp. were successfully identified as bioflocculant-producing bacteria. The highest flocculating activity was exhibited by *Bacillus cereus* at 93%, while *Halomonas venusta* showed the lowest record at 59%. All bioflocculant-producing bacteria species showed different protein concentration that ranged between 1.377 µg/mL to 1.455 µg/mL. Several protein bands with different molecular weight that ranged between 16 kDa to 100 kDa were observed. This study revealed that all the identified bacteria species have high potential characteristics to initiate aquaculture wastewater treatment and may play important roles in bioflocculation process.

1. Introduction

Aquaculture is an industry that involves cultivation of freshwater and seawater organisms under controlled operations. However, application of effective technologies for wastewater treatment remains challenge in intensive aquaculture operations. High composition of uneaten fish feed and faeces in river or sea released by aquaculture operation can cause eutrophication problem [1]. Sludge contained debris, faecal materials and uneaten feed that settled in the bottom sediment can interfere with the interactions

IOP Conf. Series: Earth and Environmental Science **246** (2019) 012082 doi:10.1088/1755-1315/246/1/012082

Is Integrated Multi-Trophic Aquaculture (Imta) Concept An Answer to Abraded Coastal Area? A Stakeholders' Perspective Analysis

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[2] Communication & Innovation Social Science,Wageningen University & Research, The Netherlands
[3] WorldFish, Phnom Penh, Cambodia
[4] Aquaculture & Fisheries, Wageningen University & Research, The Netherlands

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Abstract. Abrasion in coastal area of northern Central Java is severe, with abraded area exceeding 5,000 hectares which resulted in many aquaculture ponds became submerged and dissapeared. Eventhough physically the ponds are no longer visible, however the water quality is still supporting aquaculture to be carried out in that area. This paper explores the possibility that aquaculture innovation technology using an IMTA concept is suitable for abraded area in the stakeholders' point of view so that can be introduced to local community affected by abrasion to support their livelihood. This study employed rapid appraisal for aquaculture innovation system (RAAIS) to obtain data in two location in Central Java: Demak and Brebes regency and used descriptive for analysis method. Stakeholders from different background were involved representing fish farmers, government, NGOs, private sector and academics. Systemic analysis showed that both areas uncover similar constraints due to adopting the new IMTA technology. Stakeholders believed that constraints were mostly grouped as technological and institutional issues and that most problems rooted in the national level. Issues along value chain were believed by stakeholders from Brebes region may occur mostly in production area while stakeholders from Demak believed that inability to access credit deserves the blame. The possibility of using IMTA for aquaculture activity in abraded coastal area were also dicussed based on the obtained data.

1. Introduction

Northern coast of Central Java is experiencing a serious abrasion issue which highly impact on coastal communities. Abrasion in Central Java are severe as it covers 5.235 Ha, accross 17 regions and cities and along 157,35 km of coastal line [1]. Abrasion is only one among few coastal problems encountered by northern Java, others include land subsidence, sea water rise and tidal floods. These problems occured as the impact of exploitation of coral reef and mangrove removal [2] in order to convert them into aquaculture pond [3] [1] [4] [5]. The removal of mangrove resulted in consequences that impacted the community ecologically and socioeconomically [6]. In order to regain aquaculture

Analysis of *β*-cryptoxanthin from yellow pigmented marine bacterium *Erythrobacter* sp. kj5

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[2]*Department of Marine Science, Universitas Diponegoro, Jl. Prof. Soedarto Tembalang, Semarang-50275, Indonesia*
[3]*Department of Plant Physiology and Biochemistry, Jagiellonian University, ul. Gronostajowa 7, 30-387 Krakow, Poland*
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Abstract. The objectives of this study were to isolate and analyze *β*-cryptoxanthin from yellow pigmented marine bacterium *Erythrobacter* sp. KJ5. The pigments from *Erythrobacter* sp. KJ5 were extracted from cells with methanol:acetone (7:3, v/v). *β*-cryptoxanthin standard was isolated from citrus fruit peel using 100% acetone and purified by high-performance liquid chromatography (HPLC) using a C30 column. The existence of *β*-cryptoxanthin in *Erythrobacter* sp. KJ5 was determined based on spectral properties and co-chromatography analyses after adding the standard *β*-cryptoxanthin. The co-chromatography results showed that peak 5 at retention time 33.32 min sharply spiked without changing maximum wavelengths (λ_{max}) at 453 and 480 nm after adding the standard *β*-cryptoxanthin. These results likely conclude that peak 5 was *β*-cryptoxanthin.
Keywords: carotenoid, *β*-cryptoxanthin, *Erythrobacter* sp. KJ5, co-chromatography, HPLC

1. Introduction

The utilization natural pigments from marine organism should be consider the sustainability marine resources. Marine microorganism such as bacteria could become a fine alternative as source of natural pigment from marine and not damaging marine ecosystem. Another advanted is they easy to be cultured in laboratory. At least, there are 7 kinds of pigment that can be found from marine bacteria. There are prodiginines, carotenoids, violacein, phenazine compound, quinones, tambjamines, melanins [1]. Among those pigments, carotenoids have attractive research object for researcher due to their biological activity that useful for human life.

Carotenoids found in plants, animals, and microorganisms (bacteria and microalgae), play a critical role in the photosynthetic process to collect light energy in the visible region and to protect against photo-oxidation [2]. Carotenoids are consisted of 40-carbon atom to form 8-isoprene and have yellow, orange, and red color [3]. In addition, carotenoids have been reported to have significant value to support human health as pro-vitamin A [4], antioxidant [5], antibacterial [6], protecting from photooxidation and photoreceptor cells [7]. *β*-carotene is one of the important carotenoids that has function for preventing cancer and antioxidant [8]. Marine bacteria have been known to produce carotenoids, i.e. astaxanthin from *Agrobacterium aurantiacum* [1]. Novel marine bacteria from *Flavobacteriaceae* produce saproxanthin as a secondary metabolite and has function as antioxidant [9]. Another marine bacteria

Certificate

ICTCRED 2018

This to certify that

PUTRI AGUSTINA

Has contributed as

PRESENTER

in The 4th International Conference on Tropical and Coastal Region Eco-Development (ICTCRED) 2018

Semarang, 31st October 2018

Prof. Dr. Ir. Agus Sabdono, M.Sc.
Dean of Faculty of Fisheries and Marine Science

Prof. Ir. Tri Winarni Agustini, M.Sc., Ph.D.
Chair Person

Source details

IOP Conference Series: Earth and Environmental Science

Scopus coverage years: from 2010 to Present

ISSN: 1755-1307 E-ISSN: 1755-1315

Subject area: Earth and Planetary Sciences: General Earth and Planetary Sciences

Environmental Science: General Environmental Science

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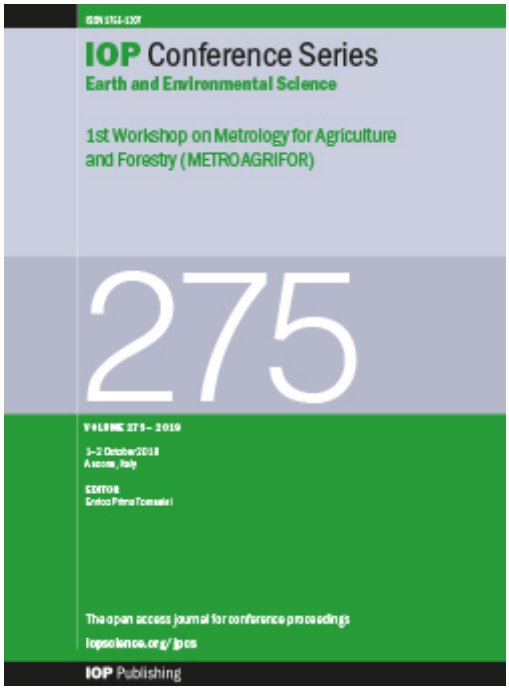
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VOLUME 275 – 2019
3–5 October 2018
Ancona, Italy
EDITOR
Enrico Primo Tomasini
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Characterization of Marine Bioflocculant-producing Bacteria Isolated From Biofloc of Pacific Whiteleg Shrimp, *Litopenaeus vannamei* Culture Ponds

Nurul Fakriah Che Hashim, Nurarina Ayuni Ghazali, Nakisah Mat Amin, Noraznawati Ismail and Nor Azman Kasan

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Accumulation of Heavy Metals Pb, Cu, Zn in the Water and Sediment in Cirebon and Demak

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Formulation of Emergency Food in Flakes Form Made from Proso Millet Flour (*Panicum milliaceum*) and Snakehead Fish (*Channa striata*)-Tempeh Flour *Koya*

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