

# UNIVERSITAS SUMATERA UTARA FACULTY OF AGRICULTURE INTERNATIONAL CONFERENCE ON AGRICULTURE, ENVIRONMENT, AND FOOD SECURITY 2023



Jalan. Prof. A. Sofyan No. 3 Kampus USU Medan - 20155 Email: aefs@usu.ac.id; Fax: 061 - 8211924

# LETTER OF ACCEPTANCE INTERNATIONAL CONFERENCE ON AGRICULTURE, ENVIRONMENT, AND FOOD SECURITY (AEFS 2023)

Dear Author,

On behalf of the committee, we are pleased to inform you that after the first step of the peer-reviewed, your manuscript entitled "Protein potential in nagara beans (Vigna unguiculata ssp Cylindrica)

**from South Kalimantan**", has been accepted for presentation at the 7<sup>th</sup> International Conference on Agriculture, Environment, and Food Security, which will be held hybrid in Medan and via Zoom Web Conference on September, 26 - 27<sup>th</sup> 2023.

Your paper is scheduled to be published in the forthcoming issue of IOP Conference Series: Earth and Environment Science indexed by Scopus, but before that, you have to fulfil the following requirements:

- 1. Submit your latest version paper to the morressier website on <u>https://tinyurl.com/icaefs</u> no longer than October 08<sup>th</sup> 2023. Remember, you may have another revision even after the presentation until your paper is ready to publish.
- 2. All articles must follow IOP Publishing's author and ethical guidelines https://publishingsupport.iopscience.iop.org/author-guidelines-for-conference-proceedings/.
- 3. For papers with multiple authors, ensure at least one of the registered authors attend the conference for oral presentation.
- 4. Complete your payment and fill this google form no later than September, 22<sup>th</sup> 2023: <u>https://bit.ly/AEFS2023PAYMENT</u>. This year, the payment for IC-AEFS 2023 is done through a virtual account that can be accessed through your registered account on the AEFS website. You can download the payment guideline here: https://bit.ly/PaymentGuidelineForAuthor.
- For the online presenter, please share your uploaded presentation video no later than September, 20<sup>th</sup> 2023 via this google form <u>https://bit.ly/AEFS2023VideoPresentation</u>. (More details about the video presentation and ppt template will be announced later).
- 6. IOP Publishing's Article Processing Charge (APC) is chargeable for accepted and declined articles
- 7. Papers written with artificial intelligence support (ChatGPT, Bard, etc.) will not be accepted.

Once you completed those procedures and we received all the required electronic materials, we will process your paper. As stated before, it will be scheduled for the next available slot in the IOP Conference series. More details will be announced closer to the event. If there is anything we can do to assist you in your preparations for this meeting, please do not hesitate to contact us.

We look forward to meeting you at the conference.





# Your Paper for AEFS-2023

1 message

**Morressier Team** <discover@morressier.com> To: rini.hustiany@ulm.ac.id Tue, Jan 9, 2024 at 12:27 PM



Hi there,

Thank you for your Paper Submission to 'AEFS-2023'. Your Submission 'Sustainability of protein potential in nagara beans (Vigna unguiculata ssp Cylindrica) from South Kalimantan' has been provisionally accepted by the Conference Editors. If your Paper is also accepted by the Publisher, you will be notified again when it enters the Production stage.

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Universitas Lambung Mangkurat Mail - Your Paper for AEFS-2023

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Please note that your revised Paper must be a camera-ready manuscript without any highlighted changes. A summary of the changes you have made to your Paper can be included in your Response to Reviewers, which you may upload as a separate document.

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**Morressier Team** <discover@morressier.com> To: rini.hustiany@ulm.ac.id Mon, Jan 8, 2024 at 9:50 AM



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Dear Rini Hustiany,

Don't forget that you have been requested to resubmit your Paper 'Protein potential in nagara beans (Vigna unguiculata ssp Cylindrica) from South Kalimantan' with some changes.

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# Your Paper for AEFS-2023

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**Morressier Team** <discover@morressier.com> To: rini.hustiany@ulm.ac.id Tue, Nov 28, 2023 at 1:43 PM

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The Editor has requested that you resubmit your Paper 'Protein potential in nagara beans (Vigna unguiculata ssp Cylindrica) from South Kalimantan' with some changes. Go to My Submissions to see any comments from the Reviewers or Editor and submit an updated version of your Paper. The Deadline for resubmitting is December 10, 2023.

Please note that your revised Paper must be a camera-ready manuscript without any highlighted changes. A summary of the changes you have made to your Paper can be included in your Response to Reviewers, which you may upload as a separate document.

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# You have submitted a Paper

1 message

**Morressier Team** <discover@morressier.com> To: rini.hustiany@ulm.ac.id Wed, Sep 27, 2023 at 11:13 AM





Paper submitted!

You have successfully submitted a Paper to 7th International Conference on Agriculture, Environment, and Food Security

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Submit new paper



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# [ICAEFS2023] Announcement: Full Paper Acceptance

1 message

aefs@usu.ac.id <aefs@usu.ac.id> To: rini.hustiany@ulm.ac.id Mon, Sep 18, 2023 at 10:21 PM

Dear Author,

Thank you for submitting your manuscript to the 7th IC-AEFS 2023. On behalf of the committee, we are pleased to inform you that after the first step of the peer-reviewed that your manuscript has been accepted for presentation at the 7th International Conference on Agriculture, Environment, and Food Security, which will be held hybrid in AryaDuta Hotel, Medan and via Zoom Web Conference on September, 26 - 27th 2023.

We would like to send the Letter of Acceptance (LoA) to you, please find it at the attachment of this email. Moreover, you will need to fulfil the requirements attached in the LOA. The scientific program, including the date and time of the presentation, will be emailed to you shortly. After being reviewed and meeting the criteria, the full paper will be published in the IOP Conference Series: Earth and Environmental Science. Please refer to the IOP Science's guidelines for conference proceedings here:

https://publishingsupport.iopscience.iop.org/author-guidelines-for-conference-proceedings/ and download the template here:

https://cms.iopscience.iop.org/alfresco/d/d/workspace/SpacesStore/f67538ae-18b2-11e4-831a-29411a5deefe/ WordGuidelines.zip.

Please check it carefully.

Join our WhatsApp group at https://bit.ly/wag-aefs2023 for more information and easier communication. Thank you for your participation and we look forward to seeing you at this event.

Best regards, The 7th IC-AEFS Organizing Committee

International Conference on Agriculture, Environment, and Food Security (AEFS) 7th International Conference on Agriculture, Environment, and Food Security (AEFS) 2023 https://ocs.usu.ac.id/AEFS/aefs2023

21165 R Hustiany.pdf 470K

## THE 7<sup>TH</sup> IC-AEFS 2023 PROCEEDINGS **CONTENT REVIEW FORM**

### **Moressier Paper ID** : 57 : Protein potential in nagara beans (Vigna unguiculata ssp Paper title Cylindrica) from South Kalimantan

Reviewer's Suggestion (Choose one)\*:a. Accepted with a Minor Revisionb. Accepted with a Major Revision\*Please write this suggestion as the reviewer's comment in Morressier. b. Accepted with a Major Revision c. Rejected

No.	Review Criteria	Comment/Suggestion	Response from Author
I. Te	chnical Criteria		
1	Scientific merit:		
	notably scientific		
	rigor, accuracy, and		
	correctness.		
2	Clarity of		
	expression.		
3	Communication of		
	ideas.		
4	Readability and		
	discussion of		
	concepts. Proofread		
	to increase the		
	readability level and		
	correct grammatical		
	errors.		
5	Sufficient discussion		
	of the context of the		
	work.		
6	Suitable referencing.		
	Please adhere to the		
	IOP referencing style.		
	The minimum		
	number of references		
	is 10, and 80% should		
	be international		
	journals.		
II. Q	uality Criteria		
7	Originality: Is the	yes	
	work relevant and		
	novel?		
8	Motivation: Does the	yes	
	problem considered		
	have a sound		
	motivation? All		
	papers should clearly		
	demonstrate the		
	scientific interest of		
	the results.		
9	Length: Is the	yes	
	content of the work of		
	sufficient scientific		
	interest to justify its		
	length? Max 8-9		
	pages.		
III. I	Presentation Criteria		

<u> </u>			
10	Title: Is it adequate	yes	
	and appropriate for		
	the content of the		
	article?		
11	Abstract: Does it	yes	
	contain the essential		
	information of the		
	article? Is it		
	complete? Is it		
	suitable for inclusion		
	by itself in an		
	abstracting service?		
12	Diagrams, figures,	yes	
12	tables, and captions:	yes	
	Are they essential and		
	clear? Make sure that		
	all tables and figures		
	have a good		
13	readability level.	1/00	
13	I thit wild	yes	
	mathematics: Are		
1	they brief but still		
	clear? If you		
	recommend		
	shortening, please		
	suggest what should		
<u> </u>	be omitted.		
14	Conclusion: Does the	- Conclucion- please	
	paper contain a	mention novelty of your	Done. It has been added
	carefully written	research and add more	to the conclusion section
	conclusion,	detailed suggestion for	
	summarizing what	further studies	
	has been learned and		
	why it is interesting		
	and useful?		
IV. C	Content Criteria		
15	Is the article topic	yes	
	within the IOP EES		
	scope? IOP EES		
	Scope:		
	https://iopscience.iop.		
	org/journal/1755-		
	1315/page/scope		
16	Is the article topic	yes	
	within the		
	conference scope?		
1	Plant Science		
1	(Agronomy, Plant		
	Breeding,		
	Biotechnology,		
1	Integrated Pest		
1	Management, and		
	Soil Science);		
	Agricultural		
1	Economics; Animal		
1	Science; Food		
	Science and		
	Technology;		
1	Agricultural		
1			
	Engineering; Marine		

	and Fisheries		
	Science;		
	Environmental		
	Science.		
17			
17	The Manuscript's	yes	
	Title: From the		
	Manuscript's Title,		
	can you see that the		
	content of the		
	manuscript will be		
	related to the		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? It		
	should be related.		
18	The Manuscript's	Suitable in this topic	
	Topic/Track Group:		
	Is the Manuscript's		
	Topic/Track Group		
	suitable, or is it more		
	suitable in another		
10	Topic/Track Group?		
19	The Manuscript's	yes	
	Abstract: Does the		
	Manuscript's Abstract		
	discuss matters		
	related to the		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
20	least 1 sentence.		
20	The Manuscript's	Please write in the	
	Introduction: Does	manuscript about the	
	the Manuscript's Introduction discuss	relationship of this paper	Done. SDGs have
	matters related to the	with the Sustainable	been added
	environment,	Development Goals	
	sustainability,	https://sdgs.un.org/goals	
	agricultural activities,	, and how this paper	
	and/or agricultural	might contribute to the	
	commodities? At	fulfillment of the	
	least 1 paragraph.	Sustainable	
	iousi i putagrapii.	Development Goals	
21	The Manuscript's	yes	
<i>2</i> 1	Results and		
	<b>Discussion</b> : Does the		
	Manuscript's Results		
	and Discussion		
	discuss matters		
	related to the		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
	least 1 paragraph. As		
	rease i purugruph. As		

	this is an international		
	publication, local		
	aspects need to be		
	discussed from a		
	global perspective.		
22	The Manuscript's	yes	
	Conclusions: Does		
	the Manuscript's		
	Conclusions discuss		
	matters related to the		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
	least 1 sentence.		
23	The Manuscript's	yes	
	Content: Is the	5	
	Manuscript's Content		
	the results of research		
	that the main content		
	includes sections:		
	Introduction,		
	Methods, Results and		
	Discussion,		
	Conclusions,		
	References, and		
	Acknowledgements		
	(optional)?		
	(optional)?		

# THE 7<sup>TH</sup> IC-AEFS 2023 PROCEEDINGS FORMAT REVIEW FORM

Moressier Paper ID : 57 Paper title : Pro

: Protein potential in nagara beans (Vigna unguiculata ssp Cylindrica) from South Kalimantan

# **Reviewer's Suggestion (Choose one)\*:**

**a.** Accepted with a Minor Revision b. Accepted with a Major Revision c. Rejected \*Please write this suggestion as the reviewer's comment in Morressier.

No.	<b>Review Criteria</b>	<b>Comment/Suggestion</b>	<b>Response from Author</b>
I. Te	chnical Criteria		
1	Suitable referencing. Please adhere to the IOP referencing style. The minimum number of references is 10, and 80% should be international journals.	Your manuscript's references do not adhere to the IOP referencing style. Please adhere to the IOP referencing style precisely (the format example attached in the Revision Guidelines).	Done
II. Q	uality Criteria		
2	<b>Repetition</b> : Have significant parts of the manuscript already been published? Turnitin Max 25-30% if the bibliography is included; Max 15- 20% if the bibliography is not included.	The repetition in your manuscript is quite high. The Turnitin similarity check result is 25% if the bibliography is included; and 19% if the bibliography is not included (The Turnitin result is attached). Please paraphrase to try reducing the similarity to less than 25% if the bibliography is included; and less than 15% if the bibliography is not included	Done
3	Length: Is the content of the work of sufficient scientific interest to justify its length? Max 8-9 pages.	Good	
III. I	Presentation Criteria		
4	Diagrams, figures, tables, and captions: Are they essential and clear? Make sure that all tables and figures have a good readability level, quite clear after zooming in 300%.	Figures 1 is not clear enough. Please make sure that all of them have a good readability level and quite clear after zooming in 300%	Done It's been enlarged
IV. (	Content Criteria		
5	Is the article topic within the IOP EES scope? IOP EES Scope: https://iopscience.iop. org/journal/1755- 1315/page/scope	Yes	

(		X7	
6	Is the article topic	Yes	
	within the		
	conference scope?		
	Plant Science		
	(Agronomy, Plant		
	Breeding,		
	Biotechnology,		
	Integrated Pest		
	Management, and		
	Soil Science);		
	Agricultural		
	Economics; Animal		
	Science; Food		
	Science and		
	Technology;		
	Agricultural		
	Engineering; Marine		
	and Fisheries		
	Science;		
	Environmental		
-	Science.	XY Y. 1 111 1 1	
7	The Manuscript's	No. It should be related.	
	Title: From the	Please add at least 1 word	Done
	Manuscript's Title,	related to the environment,	
	can you see that the	sustainability, agricultural	
	content of the	activities in your manuscript's	
	manuscript will be	title.	
	related to the		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? It		
	should be related.		
8	The Manuscript's	Yes	
_	Topic/Track Group:		
	Is the Manuscript's		
	Topic/Track Group		
	suitable, or is it more		
	suitable in another		
	Topic/Track Group?		
9	The Manuscript's	No. Please add at least 1	
7	Abstract: Does the	sentence related to the	
	Manuscript's Abstract	environment, sustainability,	
	discuss matters	agricultural activities in your	Done
	related to the	manuscript's abstract	Dono
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
	least 1 sentence.		
	Abstract max 200		
	words without		
	keywords.		
10	The Manuscript's	Yes	
	Introduction: Does		
	the Manuscript's		
	Introduction discuss		
	matters related to the		
L			

	•		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
	least 1 paragraph.		
11	The Manuscript's	No. Please add at least 1	
	Results and	paragraph related to the	
	Discussion: Does the	environment, sustainability,	
	Manuscript's Results	agricultural activities in your	Dono
	and Discussion	manuscript's	Done
	discuss matters	•	
	related to the		
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
	least 1 paragraph. As		
	this is an international		
	publication, local		
	aspects need to be		
	discussed from a		
10	global perspective.	No. Please add at least 1	
12	The Manuscript's		
	Conclusions: Does	sentence related to the	
	the Manuscript's	environment, sustainability,	Done
	Conclusions discuss	agricultural activities in your	Done
	matters related to the	manuscript's conclusions.	
	environment,		
	sustainability,		
	agricultural activities,		
	and/or agricultural		
	commodities? At		
1.0	least 1 sentence.		
13	The Manuscript's	Yes	
	<b>Content</b> : Is the		
	Manuscript's Content		
	the results of research		
	(not literature or		
	critical review) that		
	the main content		
	includes sections:		
	Introduction,		
	Methods, Results and		
	Discussion,		
	Conclusions,		
	References, and		
	Acknowledgements		
	(optional)?		
14	The Manuscript's	Yes	
	Format: Does the		
	Manuscript's Format		
	adhere to the IOP		
	format precisely? IOP		
	Publishing's author		
	and ethical		
	guidelines:		
	https://publishingsupp		
	ort.iopscience.iop.org		
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workspace/SpacesSto	
re/f67538ae-18b2-	
<u>11e4-831a-</u>	
29411a5deefe/WordG	
uidelines.zip	



PAPER NAME Protein potential in nagara beans (Vigna unguiculata ssp Cylindrica) from South K alimantan	AUTHOR -
WORD COUNT 4940 Words	CHARACTER COUNT 23582 Characters
PAGE COUNT 8 Pages	FILE SIZE <b>215.7KB</b>
SUBMISSION DATE Sep 27, 2023 10:13 AM GMT+7	REPORT DATE Sep 27, 2023 10:13 AM GMT+7

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# Protein potential in nagara beans (*Vigna unguiculata* ssp Cylindrica) from South Kalimantan

# R Hustiany<sup>1</sup>

<sup>1</sup>Agroindustrial Technology Department,<sup>22</sup> ambung Mangkurat University, Banjarbaru, Indonesia Email: <u>rini.hustiany@ulm.ac.id</u>

**Abstract**. Nagara beans are a local superior berrs from South Kalimantan which grow in the swampy area of lebak and belongs to the cowpea group. The purpose of this stude was to analyze the potential of nagara bean protein in various forms of nagara bean and their processes. The protein content of whole nagara beans is 14.22% and when roasted is 18.42%. If the nagara beans are peeled off and dried into flour, the protein content becomes 24.16%. Nagara bean flour that has been floured and the fat removed, then the protein content is 22.54%, the concentrate of nagara bean flour is 17.58% and the protein isolate is 61.31%. The protein content of nagara bean tempeh which has been fermented is 9.58%. The protein content of nagara bean tempeh which has been fermented is 9.58%. The protein content of nagara bean tempeh flour was 61.31%. The protein content of nagara bean tempeh flour was 61.31%. The protein content of nagara bean tempeh flour was 61.31%. The protein content of nagara bean tempeh flour was 61.31%. The protein content of nagara bean tempeh flour was 61.31%. The protein content of nagara bean tempeh flour was 61.31%. The protein content of nagara bean sprout for na small scale is 31.06% and when scaled up, the protein content of sprout flour becomes 19.83%. The composition of the many amino acids found in nagara beans are glutamic acid, aspartic acid, lysine, phenylalanine, threonine, and leucine. Nagara bean protein is mostly globulin and albumin. Nagara beans have the potential to produce protein.

### Introduction

Ragara bean is a typical legume commodity from South Kalimantan. Nagara bean is only cultivated in North Daha and South Daha Subdistricts, Hulu Sungai Selater District. The planting of these bean is usually done during the dry season, when the swampland has receded but the soil is still moist enough to plant.

The planting season in the villages of North Daha and South Daha is only carried out during the dry season, whereas during the rainy season the soil is flooded and cannot be planted. This condition causes the nagara bean to not grow rapidly, because planting is limited and their utilization is also lacking. Nagara bean is usually used by traditional communities as an additional part of a substitute for vegetables in curry dishes. Apart from that, nagara bean can also be used in the produce of kuku peanuts or fried peanuts which come from nagara beans which have had their skin removed. Nagara bean is also processed into magali cakes, which are cakes made from nagara beans which have been removed from the skin, mashed, and mixed with brown sugar.

Nagara bean belong to the cowpea class. There are four cultivars of cowpea germplasm, namely paddy, plank, yellow and arabic. Paddy cultivars have longer pods, small seeds and yellowish white with dark brown hilum. Plank cultivars have large pods, large yellowish-white or greenish seeds with a large dark brown triangular hilum. Yellow cultivars have large pods, when young the pods are green and yellowish white when ripe, the seeds are yellowish white with a dark brown hilum. Arabic cultivars have large pods, with relatively large seed sizes, the seeds are slightly yellowish white with a black hilum [1].

The yellow cowpea cultivar that grows in the North Daha and South Daha areas became the national superior cowpea under the name of nagara bean or cowpea nagara cultivar in 1994 [2]. Agara bean (Vigna unguiculata ssp Cylindrica) is a type of cowpea (Vigna unguiculata) that has adapted to the wampland environment in the North Daha and South Daha areas, South Kalimantan. Therefore, the nagara bean is different from cowpea in general and also different from cowpea (Vigna unguiculata L.

Walp) which grows in California, United States of America or other places in sub-Saharan Africa and other Asia. According to [3] many cowpeas are produced from these areas.

Nagara bean is also different from similar cowpeas, namely white beans which are commonly found in Java. Nagara bean has physical characteristics of small size, white bones and prinkled surface. The white beans that are abundant in the Java region are larger in size, white in color and the surface of the skin is smooth or not wrinkled.

Nagara bean, which belong to the cowpea group, is nut for which the protein, carbohydrates, and micronutrients such as vitamins and minerals can be utilized [3]. One that has the potential to be developed from nagara beans and cowpeas in general is protein which is contained in various forms. Based on [4], world production of cowpea in 2021 will be 8.9 million tons. Most of the cowpea producers are in Africa (95.3%) and Asia, only 2.9%. The purpose of this study was to analyze the potential of nagara bean protein in various forms of nagara bean and their processes.

# **38**. Materials and methods

The materials used in this study were the nagara bean (Vigna unguiculata ssp Cylindrica) a plank cultivar originating from North Daha or South Daha subdistricts, Hulu Sungai Selatan district, South Kalimantan province and several chemicals for analysis originating from Merck.

### 2.1. Skinless nagara bean flour

As stated by [5] that the nagara beans are sorted first and then washed thoroughly before soaking in an alkaline solution for 3 hours to reduce the activity of trypsin inhibitors and tannins, and eliminate hemaglutinin activity. The soaked beans are then drained and the skin removed. The beans were immediately dried in the oven at 50°C until dry. The dried nagara beans are then ground with a grinder. Nagara bean flour sifted through a 60 mesh sieve.

### 2.2. Roasted nagara bean flour

As stated by [5], nagara beans are sorted and washed with water for cleaning. After that, the nagara beans are coasted for 50 minutes while stirring. The roasted nagara beans were then ground using a grinder and sifted through a 60 mesh sieve.

### 2.3. Nagara bean tempeh

As stated by [5] that the processing of nagara bean tempeh is done by soaking the nagara beans for 1 night. Nagara beans are washed with running water. Nagara beans are ground to separate the shell from the nut and the flesh of the nut as well as to break the nuts into two parts. The ground nagara beans are men washed to separate the skin. Nagara beans are boiled for 1 hour. After that, the nagara beans are drained. After draining, the nagara beans are added with commercial tempeh yeast, T g of yeast for 100 g of beans. Furthermore, the nagara beans are put in plastic to be fermented for 1 night and become nagara bean tempeh.

### 2.4. Nagara bean tempeh flour

Nagara bean tempeh that has been produced is then cut into pieces and dried using an oven driver at 50°C until dry with a moisture content of 10-12%. The dried nagara bean tempeh is then mashed and sieved through a 60 mesh sieve. Nagara bean tempeh that has been dried and mashed is called nagara bean tempeh.

### 2.5. Defatted flour

Nagara bean flour and nagara bean tempeh flour were removed the fat by percolation method us 56 hexane solvent. The mixture of nagara bean flour and hexane was then shake at 180 rpm for 1 hour at room temperature. The mixture is filtered using filter paper. The filter results were then dried in an oven at 50°C until dry with a moisture content between 10 - 12%.

### 2.6. Protein concentrate

Nagara bean defatted flour and nagara bean tempeh defatted flour were then made into protein concentrate by dissolving 60 g of nagara bean defatted flour and nagara bean tempeh defatted in 300 ml of 80% ethanol. This mixture was stirred at room temperature for 30 minutes. Then the mixture is filtered. The filter results were then added with 300 ml of distilled water and adjusted to a pH of 4.5 using 2N HCl solution. This mixture was then centrifuged at 2000 rpm for 15 minutes. The centrifugal results are then separated between the precipitate and the supernatant. The supernatant was discarded and the precipitate was added with 300 ml of distilled water and neutralized to a pH of 6.5 – 7 with 2N NaOH solution. This mixture was then centrifuged again at 2000 rpm for 15 minutes. The precipitate was collected and the supernatant was discarded. This precipitate is then dried in the oven until dry at 50°C until dry with a moisture content between 10 - 12%. The dried precipitate is called nagara bean tempeh protein concentrate.

### 2.7. Protein isolate

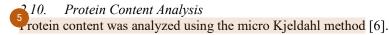
Protein isolate can be prepared by adding 200 g of nagara bean defatted flour or nagara bean tempeh defatted flour by adding 1 liter of distilled water (1: 5) and adjusting the pH to 8.5 - 8.7 using 2 N NaOH solution. Then extracted at 60°C for 30 minutes using a water bath shaker. After extraction, this mixture was then centrifuged at 2000 rpm for 15 minutes. The supernatant was collected which is called supernatant 1. The precipitate was then added with 400 ml of distilled water and centrifuged again at 2000 rpm for 15 minutes. The supernatant is collected which is called supernatant 2. The precipitate is discarded. Supernatants 1 and 2 were mixed and then the  $_{12}^{51}$  H was adjusted to 4.5 with 2N HCl solution. The solution was centrifuged at 2000 rpm for 15 minutes. The supernatant was discarded and the precipitate was then centrifuged again at 2000 rpm for 15 minutes. The supernatant was discarded and the precipitate was added with 200 ml of astilled water and neutralized to pH 7 with 2N NaOH solution. This mixture was then centrifuged again at 2000 rpm for 15 minutes. The supernatant was discarded and the precipitate was dried in an oven at 500C until dry with a moisture content between 10 – 12%. The dried precipitate is called nagara bean protein isolate or nagara bean tempeh protein isolate.

### 2.8. Small scale nagara bean sprout flour

The nagara beans are first sorted from defects and foreign objects. The nagara beans used are still mostly empty and light and split, and there is still a lot of dirt in the form of leftover pods, twigs and stones. These dirt materials will interfere during the germination process. Nagara beans are then washed with water and soaked in water with a ratio between nagara beans and unter is 1: 3. 500 grams of nagara beans are used. Soaking was carried out for 12 hours. After soaking, me soaking water is removed and drained. Furthermore, the nagara beans are wrapped in banana leaves, so that the nagara beans are still moist during the germination process. The germination process was carried out for 48 hours. After germination is complete, the nagara bean sprouts are cleaned of the skin and dried at 50°C. After drying, the sprouts were crushed to 80 mesh.

### 2.9. Scale up nagara bean sprouts flour

The nagara beans are first sorted from the defects and dirt of the nagara beans. Then the nagara beans are washed and soaked with the ratio between the nagara beans and water is 1: 3. Soaking time and germination on scale up are 12 hours and 48 hours. In this scale up, the amount of nagara beans used is 3 kg or 6 times more than the small scale. Nagara beans that have been soaked and drained are then put in a plastic basket with small holes and covered with black plastic. During the germination process, the nagara beans are sprinkled periodically with a little water. After 48 hours of germination, the skin of the nagara bean sprouts was removed and dried at  $60 - 70^{\circ}$ C. The dried sprouts were then crushed to 80 mesh.



2.11. Amino Acid Composition Analysis with HPLC-Ortophtha dehyde Derivatization Method The sample containing 3 mg of protein was put into an ampoule and added with 1 ml of 6 N HCl. The sample mixture was frozen using dry ice-acetone. The air in the sample that has been frozen is completely removed. If there are still air bubbles, then 1 or 2 drops of n-octyl alcohol are added to the sample as an anti-bubbling. The ampoule was vacuumed again for 20 minutes, then the center of the tube vers closed by heating it over a fire. The closed ampoules were placed in the oven at 110°C for 24 hours. Samples that have been hydrolyzed are cooled at room temperature. Then the contents were transferred to a 50 mL evaporator flask and the ampoule was ring d with 2 mL of 0.01 N HCl. The rinse liquid was also put into the evaporator flask. Rinsing is done 2 to 5 times. The samples were then frozen using a freeze dryer in a vacuum. To convert cysteine into cystine, 10-20 mL of water is added to the sample and the sample is dried again using a freeze dryer. This is repeated 2 to 3 times. The dried sample was added with 5 mL of 0.01 N HCl and ready to be analyzed. Samples were filtered using millipore paper. Detassium orate buffer pH 10.4 was added to the sample in a ratio of 1: 1. Into a clean empty vial,  $10 \,\mu$ l of sample was added and 25  $\mu$ l of OPA reagent (orthophthaldehyde) was added. This sample mixture was left for 1 minute so that the derivatization was complete. Samples were injected into the HPLC column as much as 5 µl. HPLC used with ultra techsper columns and fluorescence detectors. The mobile phases used were buffer A (a mixture of Na-acetate, Na-EDT methanol and tetrahydrofuran (THF)) and buffer B (a mixture of 95% methanol and distilled water) with a flow rate of 1 ml/minute using the gradient method.

# Calculation:

The concentration of amino acids (expressed in  $\mu$ mol of amino acids) in the sample is:

### Amino acid concentration

 $\frac{\text{Sample peak area}}{\text{Standard peak area}} x \text{ concentration standard}$ =

After that, the percent of amino acids in the sample is determined as follows:  $\mu mol\ amino\ acid\ x\ molecular\ weight\ of\ the\ amino\ acid\ x\ 100$ 

Percent of amino acids =

µg sample

### 2.12. Protein Types Analysis with the SDS-PAGE Method

The type of protein analyzed was defatted flour and protein concentrate from nagara bean and nagara bean tempeh. The protein contained in the flour was precipitated using the [7] method with a concentration of 90% v/v. Page means of 10 ml of sample added 90 ml of acetone. Protein electrophoresis based on the [8] method asing the SDS-PAGE (Sodium dodecyl sulfate - polyacrylamide gel electrophoresis) method with a vertical slab gel. Slab gel was made with a concentration of 4% collecting gel and 12.5% separating gel. The mark used was from Fermentas: Unstained Protein Molecular Weight Marker with 7 protein bands which can be seen in Table 1.

 Table 1. Marker Composition from Fermentas : Unstained Protein Molecular Weight Marker

Alolecular	4 rotein	Source
Weight (kDa)		
116.0	beta-galactosidase	E.coli
66.2	bovine serum albumin	bovine plasma
45.0	ovalbumin	chicken egg white
35.0	Lactate dehydrogenase	porcine muscle
25.0	REase Bsp981	E.coli
18.4	beta-lactoglobulin	bovine milk
14.4	Lysozyme	chicken egg white

# **5.** Results and discussion

## 3.1. Protein Content

The protein content of nagara beans in various forms and their processes is varied. The protein content of whole nagara beans is 14.22% (Table 2). The protein content is more or less the same as roasted nagara beans, namely 18.42% (Table 2). The increased protein content in roasted nagara beans is caused by a decrease in water content due to roasting. Roasting functions to inactivate the lipoxygenase enzyme which forms the beany flavor or unpleasant flavor in ragara beans.

Increasing the protein content of the nagara bean can be done by removing the epidermis of the nagara bean. The protein content of the nagara bean became 24.16% (Table 2) by removing the epidermis from the nagara bean. Nagara bean epidermis is a carbohydrate.

Nagara beans can also be processed into tempeh through a fermentation process, so it can hydrolyze protein into amino acids. The protein content of nagara bean tempeh is 9.58% with a total solids of 32.75% (Table 2), because the nagara bean tempeh is still wet.

Nagara bean and nagara bean tempeh can increase the arount of protein by making defatted flour, protein concentrate and protein isolate [9]. Defatted flour is nagara bean flour or nagara bean tempeh flour which has had the fat part removed. This removed fat functions to be able to increase the amount of protein in the nagara beans. Only nagara bean defatted tempeh nour could increase its protein content, while nagara bean defatted flour decreased its protein content.

Nagara Bean Forms	Protein Content (%)	Dry Matter (%)	Nagara Bean Forms	Protein Content (%)	Dry Matter (%)
Whole nagara bean	14.22±0.43	86.35	Nagara bean concentrate Nagara bean tempeh	17.58±1.63	87.91
Roasted nagara bean	$18.42 \pm 0.05$	94.27	concentrate	21.28±0.33	86.91
Nagara bean flour without	24.16±0.23	91.10			
skin			Nagara bean isolate	61,31±0.51	87.00
Nagara bean tempeh	9.58±0.47	32.75	Nagara bean tempeh isolate Small-scale nagara bean	38.40±2.57	87.00
Nagara bean defatted flour	22.54±0.34	90.67	sprout flour	$31.06 \pm 0.89$	89.49
Nagara bean tempeh defatted			Scale up nagara bean		
flour	26.09±1.25	88.30	sprout flour	19.83±0.24	90.12

Table 2. Protein content of various forms of nagara beans and processed nagara beans\*

\*2 replication

The increase in the amount of protein in nagara bean tempeh defatted flour can be caused by an increase in ammonia nitrogen and amino nitrogen [10] during the fermentation process, thereby increasing the nitrogen and amino acid content. As for the decrease in protein content in defatted flour, it is suspected that the non-polar amino acids that make up the protein are dissolved with hexane.

In nagara bean and nagara bean tempeh protein concentrate, there was a decrease in protein content compared to their defatted flour. This is because during the extraction process to produce protein concentrate, so proteins and amino acids become dissolved. Even so, the protein produced in protein concentrate is purer than defatted flour. According to [11] defatted soybean tempeh flour reduced its total ash, moisture content, fat content, total carbohydrates and crude fiber. In defatted soybean flour, only the protein increases.

In protein isolates, the solvent used for the produce of protein isolates only uses aqueous solvents, resulting in an increase in protein content. The protein content of nagara bean protein isolate can reach 61.31% (Table 2). In contrast to the protein content of nagara bean tempeh protein isolate, which was only 31.06% (Table 2). This is because the protein isolate of nagara bean tempeh contains many polar amino acids, so it is easily dissolved in water during extraction. Even though the amount of amino acid protein isolate of nagara bean tempeh can reach 78.95% (Table 3). The protein content in nagara bean tempeh protein isolate is lower than that of soybean tempeh protein isolate by 50.5% [11]. This is

because the nagara beans are very hydrophilic, while the soybeans are more hydrophobic. As a result, when the nagara beans are extracted with aqueous solvents, many of the proteins and amino acids are dissolved.

Nagara beans can also be processed into sprouts. On a small scale, the protein content of nagara bean sprouts increased to 31.06% (Table 2). This is caused by the formation of growth hormone and increased activity of enzymes during the growth process [12]. However, when the production scale for nagara bean sprouts was increased, the protein content decreased to 19.83% (Table 2). This is caused by an increase in the number of sprouts made and the thickness of the pile of sprouts increases, so the activity of enzymes becomes inhibited [13]. As a result, the amount of protein in the nagara bean sprouts decreased.

# 34.2. Amino acid composition

The amino acid composition of nagara beans was determined using the HPLC-derivatization orthophthaldehyde method. Total amino acids were highest in protein isolate compared to protein concentrate and defatted flour (Table 3). Protein isolates contain amino acids ranging from 77.58 - 78.95%, protein concentrates ranging from 24.27 - 27.71% and defatted flour ranging from 24.28 - 26.17%. The amino acid content found in defatted flour, protein concentrate, and protein isolate tends to be higher than the protein content (Table 3).

**Table 3**<sup>55</sup> mino acid composition in defatted flour, protein concentrate and protein isolate in nagara bean and nagara bean tempeh

Amino Acid Type			Amino Acid Con	centration (% w/w)	)	
-	Nagara Bean Isolate	Nagara Bean Tempeh Isolate	Nagara Bean Concentrate	Nagara Bean Tempeh Concentrate	Nagara Bean Defatted Flour	Nagara Bean Tempeh Defatted Flour
Alanine	2.53	2.85	0.94	1.23	1.00	1.23
Isoleucine	3.32	3.48	1.14	1.51	1.13	1.36
Leucine	5.31	6.14	1.95	2.60	1.93	2.19
Methionine	1.61	1.89	0.74	1.02	0.73	0.78
Phenylalanine	6.40	6.32	1.50	1.92	1.51	1.71
Tryptophan	0.82	0.85	0.47	0.36	0.39	0.57
Valine	3.73	3.91	1.32	1.71	1.31	1.56
Total	23.72	25.44	8.06	10.35	8.00	9.40
Glycine	2.35	2.42	0.77	1.04	1.00	0.93
Serine	4.10	3.92	1.45	0.21	0.34	0.59
Threonine	5.23	3.34	0.97	1.30	1.09	1.22
Tyrosine	2.67	2.83	0.81	1.11	0.85	0.98
Total	14.35	12.51	4.00	3.66	3.28	3.72
Aspartic Acid	9.23	9.65	2.75	3.37	2.82	3.11
Glutamic Acid	15.70	13.87	4.67	5.12	4.75	4.70
Total	24.93	23.52	7.42	8.49	7.57	7.81
Arginine	2.44	6.15	2.03	2.33	2.30	2.23
Histidine	4.69	3.86	1.23	1.44	1.35	1.45
Lysine	7.45	7.47	1.53	1.44	1.78	1.56
Total	14.58	17.48	4.79	5.21	5.43	5.24
Amino acid total	77.58	78.95	24.27	27.71	24.28	26.17

The amino acids found in defatted flour, protein concentrate, and protein isolate from nagara bean and nagara bean tempeh are mostly polar amino acids, namely amino acids with a negative charge, namely glutamic and aspartic acids. This is the same as what was stated by [14] which states that cowpea in Ethiopia contain also many glutamic acid and aspartic acid

In addition, there are several essential amino acids, such as lysine, phenylalanine, threonine, and leucing which are also found in abundance in nagara beans (Table 3). Essential amino acids are also found in cowpea (Vigna unguiculata L.walp) in Sudan in the form of defatted flour and protein isolate in greater amounts. However, compea in Sudan did not find aspartic acid [15]. In addition, cowpea found in Nigeria is almost the same as the amino acid composition of nagara beans. Most of the amino acids found are glutamic acid and aspartic acid [16]. The amino acid composition of the nagara bean is almost the same as that of the cowpea (Vigna unguiculata L. Walp) found in California. The content of polar amino acids is also more than non-polar amino acids in cowpea [17].

If the nagara beans are made into sprouts, then the number of amino acids is reduced [13]. This is due to the washing process on the nagara bean sprouts, the amino acids which are soluble in water become dissolved together with the water. The types of amino acids found in nagara beans are almost the same as those found in soybeans, that is, there are more polar amino acids than non-polar amino acids as stated by [18].

3.3. Protein Types of protein based on their molecular weight using the SDS-PAGE method can be seen in Figure 1. Only the nagara bean protein concentrate was identified and the protein was well separated based on its molecular weight. As for nagara bean defatted flour, nagara bean tempeh defatted flour and nagara bean tempeh concentrate cannot separate the protein properly. The protein in defatted nagara flour cannot be separated due to the large amount of carbohydrates, so the protein cannot be separated properly. The protein in the defatted flour and the nagara bean tempeh concentrate did not separate very well, because the nagara bean tempeh protein had experienced the breaking of peptide bonds into amino acids.

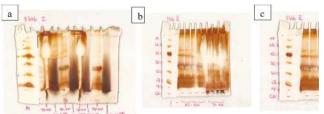


Figure 1. Types of protein in concentrate and defatted nagara flour and nagara bean tempeh. The molecular weight read is 64.90; 50.86; and 34.77 kilodaltons (kDa). a: TD-KN (nagara bean defatted flour), TD-MPE (nagara bean tempeh defatted flour), KS-KN (nagara bean protein concentrate), KS-MPE (nagara bean tempeh protein concentrate); b: TD-KN and KS-KN; c. KS-KN

In the nagara bean protein concentrate, the polypeptides that were mostly found to react a molecular weight of 64.90; 50.86; and 34.77 kilodaltons (kDa). Based on the research of [17], in cowpea (Vigna unguiculata L. Walp) found in California, especially in the globulin fraction, the majority of polypeptides found were with molecular weights of 65, 60, 56 and 50 kDa and the minority of polypeptides for d were with molecular weight 42 - 28 kDa. In the albumin fraction, the majority of polypetides are with molecular weights of 90, 91, 32 and 30. In the glutelin fraction there are several bands with molecular weights of 101, 68, 31 and 29 kDa. As for the prolamin fraction, there are 4 ominant bands namely 105, 62, 50 and 54 kDa. cominant bands, namely 105, 62, 59 and 54 kDa. Based on this, the nagara beans are also thought to contain globulin and albumin.

Most of the protein found in cowpea is globulin. According to [19] Vigna unguiculata bean (L.) Walp. contains 51% globulins, 45% albumins, 3% glutelin, and 1% prolamin. As for [14] stated that the protein content in cowpea in Ethiopia was dominated by the globulin and albumin fractions of 38.4-49.1% and 19.6–22.5%, while the glutelin fraction was 6.4 to 10.4% and prolamin of 1.0–1.14%.

### 4. Conclusion

Nagara beans in various forms and processes have the potential to produce protein. The amino acid composition is dominated by polar amino acids, especially glutamic acid and aspartic acid. In addition, nagara beans also contain essential amino acids, such as lysine, phenylalanine, threonine and leucine. Most of the protein in nagara beans is globulin and albumin.

### References

- Badrussaufari and C Nisa 1999 Studi Mikroskopik Kromosom Kacang Nagara (Vigna sp.) (Penjarbaru : Faperta Unlam)
- [2] Bela for Supervision and Certification of Food Crops and Horticulture Seeds of South Kalimantan 1994 Pelepasan Kacang Nagara sebagai Kultivar Unggul (Banjarbaru : BPSBTPH)
- [3] Affrifah N S, Phillips R D and Saalia F K 2021 Cowpeas: Nutritional profile, processing methods and products–A review Legume Science  $p_1 - 12$
- and products-A review Legume Science p 1 12 [4] AO 2021 Crop Production and Trade Pata https://www.fao.org/faostat/en/#data/QCL/visualize [5] Hustiany R, E Rahmawati and A Rahm-2016 Development Potential of Nagara Bean (Vigna unguiculate ssp Cylindrica) Cultivated in Freshwater Swamlands for Processed Food Tropical *Wetland J.* 2 (3): 30 – 36
- [6] AOAC, Official Method 955.04 2012 Nitrogen (Total) in Fertilizers Kjeldahl Method in: Official Methods of Analysis of AOAC International [19th ed.] (Gaithersburg MD USA : AOAC International)
- [7] copes R K 1987 Protein Purification. Principles and Practice (New York, Springer [8] caemmli U K 1970 Cleavage of Structural Proteins during the Assembly of the Head of Bacteriophage T4. Netwee. 227 680 – 685 [9] Lusas E W and Riaz M A 1995 Soy protein products: processing and use The J. of Nutrition, 125
- (suppl\_3) 573S-580S [10] Nowak J and Szebiotko K 1992 Some biochemical changes during soybean and pea tempeh
- fermentation *Food Microbiology* 9(1) 37-43 [11] Syida W S, W Noriham, A Normah I, and Yusuf M M 2018 Changes in chemical composition and
- amino acid content of soy protein isolate (SPI) from tempeh Int. Food Research J. 25(4) 1528-1533
- [12] Utomo J S, Kasno A, Wardani T 2002 Nilai Gizi dan Prospek Pengembangan Kacang Komak di Lahan Kering Beriklim Kering. Makalal Balittan Malang 91: SM-46.
- [13] Hustiany R, N W Wati, E Rahmawati, A Rahmi and Susi 2019 Karakteristik Tepung Kecambah Kacang Nagara (Vigna unguiculate ssp Cylindrica) pada Skala Kecil dan Scale Up J Teknologi Ind. Pertanian 29(3):222-232
- [14] Teka T, A Retta, N Bultosa, G Admassu, H dan Astatkie T 2020 Protein fractions, in vitro protein digestibility and amino acid composition of select cowpea varieties grown in Ethiopia Food Biosci. **36** : 100634. [15] Liharadallou S B, Khalid I I, Gobouri A A, and Abdel-Hafez S H 2015 Amino acid composition
- of cowpea (Vigna ungiculata L. Walp) flour and its protein isolates Food and Nutrition Sci. 6 (09) 790
- [16] resanmi J and Gungula D 2016 Amino acid composition of cowpea grains preserved with mixtures of neem (Azadirachta indica) and moringa (Moringa oleifera) seed oils Am. J. Food Nutr. 4 150-
- [17] Chan C-W and R D Phillips 1994 Amino Acid Composition and Subunit Constitution of Protein Fraction from Cowpea (Vigna unguiculata L. Walp) Seeds J Agric. Food Chem., 42 (9) 1857-1860
- [18] Friedman M and D L Brandon 2001 Nutritional and Health Benefits of Soy Protein Reviews J. of 12 Agric. and Food Chem. 49 (3):1069 – 1086
- [19] Treitas R L, Teixeira A R, and Ferreira R B 2004 Characterization of the proteins from Vigna unguiculata seeds J. of Agric. and Food Chem. 52 (6)1682-1687



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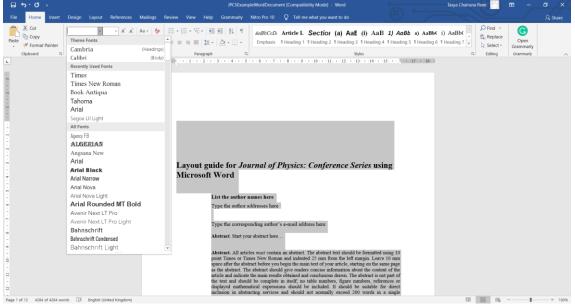
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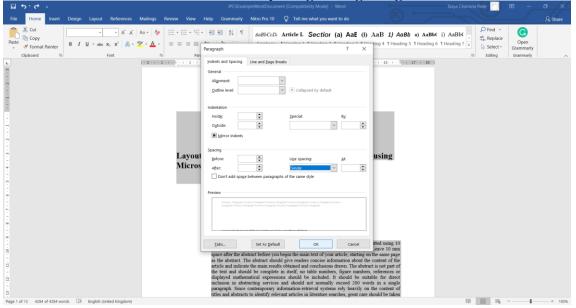
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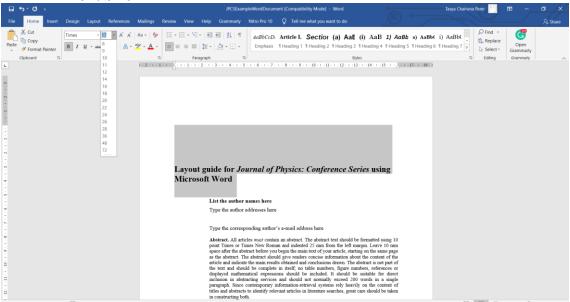
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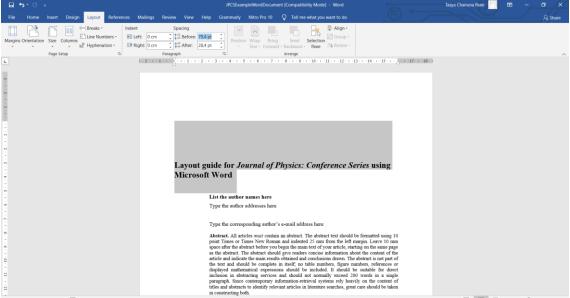
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#### Untuk mengatur **Spasi Sebelum dan Sesudah** To set the **Before and After Spacing**



Gunakan pengaturan **Spasi Sebelum dan Sesudah** untuk mengatur jarak ke bawah atau ke atas antar bagian daripada memberikan spasi berupa baris kosong tambahan dengan menekan **Enter** berulangkali secara manual.

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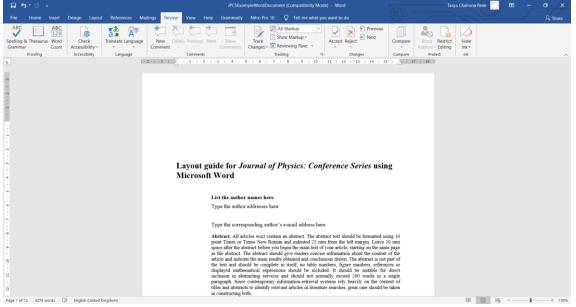
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Written in **sentence form (Sentence case)**, capital letters are only at the beginning of the title and the beginning of words that require capital letters (such as regional names, species names, etc.), not capital letters on each word (Capitalize each word). Left aligned text (Align text to the left), Font size 17, with Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 79.4 pt, After 28.4 pt, without full stop at the end. For example

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Tasya Chairuna Pane, Muhammad Khaliqi, R. B. M. Ibrahim Fatoni, and Putri Chandra Ayu harus ditulis T C Pane, M Khaliqi\*, R B M I Fatoni and P C Ayu

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<sup>1</sup>Universitas ..... <sup>2</sup>Badan ..... <sup>3</sup>Institut ..... <sup>4</sup>Balai .....

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#### ABSTRACT

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Abstract. All articles must contain an abstract.....

JUDUL BAGIAN DAN PARAGRAF Artikel terdiri dari judul bagian sebagai berikut: 1. Introduction 2. Materials and methods 3. Results and discussion 4. Conclusions and suggestions References Acknowledgements (hanya jika dibutuhkan ucapan terima kasih)

Selain judul bagian, artikel boleh memiliki sub bagian dan sub sub bagian. Seluruh judul bagian, sub bagian, dan sub sub bagian ditulis dalam bentuk kalimat (Sentence case), dengan huruf besar hanya pada awal judul dan awal kata yang membutuhkan huruf besar (seperti nama daerah, nama spesies, dll), bukan besar pada setiap kata (Capitalize each word). Teks rata kanan-kiri (Justify), Ukuran huruf 11, dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 12 pt, After 0 pt.

**Paragraf pertama** setelah judul bagian dan sub bagian, baris pertamanya tidak menjorok masuk ke dalam. Seluruh paragraf setelah paragraf pertama (paragraph kedua dan seterusnya) harus ditulis dengan baris pertama menjorok masuk ke dalam (first line indent) 2 ketuk (0.5 cm). Teks rata kanan-kiri (Justify), Ukuran huruf seluruh teks isi paragraph 11, dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 0 pt, After 0 pt.

Judul bagian ditulis dengan Tebal (Bold), antara nomor judul bagian dengan judul bagian masuk 2 ketuk (0.5 cm), tanpa titik di akhirnya. Isi paragraf ditulis dibawah judul bagian.

#### Contoh: 1. Introduction

The 1<sup>st</sup> paragraph text..... The 2<sup>nd</sup> paragraph text.....

Judul sub bagian ditulis dengan Miring (Italic), antara nomor judul sub bagian dengan judul sub bagian masuk 3 ketuk (0.75 cm), tanpa titik di akhirnya. Isi paragraf ditulis dibawah judul sub bagian.

Contoh:

1.1. Introduction

The 1<sup>st</sup> paragraph text..... The 2<sup>nd</sup> paragraph text.....

Judul sub sub bagian ditulis dengan Miring (Italic), antara nomor judul sub sub bagian dengan judul sub sub bagian masuk 4 ketuk (1 cm) dan diakhiri dengan titik. Kemudian setelah titik langsung disambung dengan isi paragraf (isi paragraph tidak ditulis Miring).

#### Contoh:

*1.1.1. Introduction.* The  $1^{st}$  paragraph text follows on from the subsubsection titles but should not be in italic.

The 2<sup>nd</sup> paragraph text.....

#### SECTION TITLES AND PARAGRAPH

The article consists of the following section titles: 1. Introduction 2. Materials and methods 3. Results and discussion 4. Conclusions and suggestions References Acknowledgements (only if acknowledgements are needed)

In addition to section titles, articles may have sub-sections and sub-sub-sections. All section, sub-section, and sub-sub-section titles are written in sentence form (Sentence case), with capital letters only at the beginning of the title and the beginning of words that require capital letters (such as area names, species names, etc.), not capital letters on each word (Capitalize each word). Align text to right-left (Justify), Font size 11, with Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 12 pt, After 0 pt.

The first paragraph after the section and sub-section titles, the first line is not indented. The rest paragraphs after the first paragraph (second paragraph and so on) must be written with the first line indented (first line indent) 2 taps (0.5 cm). Align text to right-left (Justify), the size of the entire text in paragraph 11, with the Indent setting: Left 0 cm, Right 0 cm, and Spacing: Before 0 pt, After 0 pt.

Section titles are written in Bold, between the number of the section title and the section title click 2 taps (0.5 cm indent), without full stop at the end. The contents of the paragraph are written below the section titles. Example:

#### 1. Introduction

The 1 <sup>st</sup> paragraph text	
The 2 <sup>nd</sup> paragraph text	

Sub-section titles are written in Italic, between the number of the sub-section title and the sub-section title click 3 taps (0.75 cm indent), without full stop at the end. The contents of the paragraph are written under the sub-section titles.

#### Example:

 1.1. Introduction

 The 1<sup>st</sup> paragraph text.

 The 2<sup>nd</sup> paragraph text.

The sub-sub-section titles are written in Italic, between the numbers of the sub-subsection title and the sub-sub-section title click 4 taps (1 cm indent) and end with a full stop. Then after the full stop directly followed with the contents of the paragraph (not written in Italic).

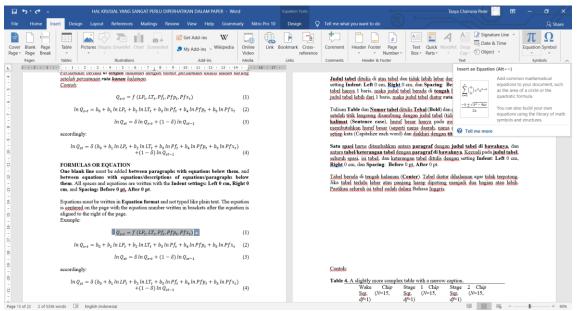
#### Example:

*1.1.1. Introduction.* The 1<sup>st</sup> paragraph text follows on from the subsubsection titles but should not be in italic.

The 2<sup>nd</sup> paragraph text.....

#### RUMUS ATAU PERSAMAAN

Satu baris kosong harus ditambahkan antara paragraf dengan persamaan di bawahnya, dan antara persamaan dengan persamaan/keterangan persamaan/paragraf di bawahnya. Seluruh spasi dan persamaan ditulis dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 0 pt, After 0 pt.



Persamaan harus ditulis dalam **format Equation** dan tidak diketik seperti teks biasa. **Persamaan berada di tengah** halaman dengan **nomor persamaan ditulis dalam kurung setelah persamaan rata kanan** halaman. Contoh:

The before paragraph text.....

$$Q_{s*t} = f \left( LP_t, LT_t, Pf_t, Pfp_t, Pfx_t \right)$$
(1)

$$\ln Q_{s*t} = b_0 + b_1 \ln LP_t + b_2 \ln LT_t + b_3 \ln Pf_t + b_4 \ln Pfp_t + b_5 \ln Pfx_t$$
(2)

$$\ln Q_{st} = \delta \ln Q_{s*t} + (1 - \delta) \ln Q_{st-1}$$
(3)

accordingly:

$$ln Q_{st} = \delta (b_0 + b_1 ln LP_t + b_2 ln LT_t + b_3 ln Pf_t + b_4 ln Pfp_t + b_5 ln Pfx_t) + (1 - \delta) ln Q_{st-1}$$
(4)

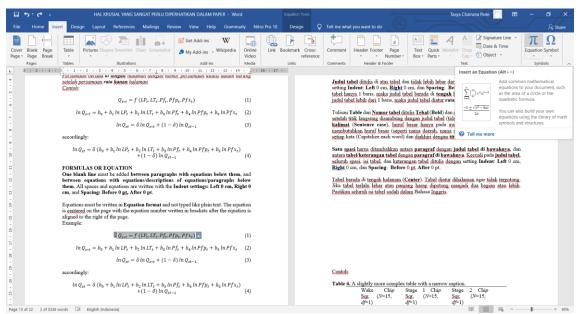
Descriptions:

Descriptions of the formulas .....

The after paragraph text.....

#### FORMULAS OR EQUATION

One blank line must be added between paragraphs with equations below them, and between equations with equations/descriptions of equations/paragraphs below them. All spaces and equations are written with the Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 0 pt, After 0 pt.



Equations must be written in **Equation format** and not typed like plain text. The **equation is centred** on the page with the **equation number written in brackets after the equation is aligned to the right** of the page. Example:

The before paragraph text.....

$$Q_{s*t} = f \left( LP_t, LT_t, Pf_t, Pfp_t, Pfx_t \right)$$
(1)

$$\ln Q_{s*t} = b_0 + b_1 \ln LP_t + b_2 \ln LT_t + b_3 \ln Pf_t + b_4 \ln Pfp_t + b_5 \ln Pfx_t$$
(2)

$$\ln Q_{st} = \delta \ln Q_{s*t} + (1 - \delta) \ln Q_{st-1}$$
(3)

accordingly:

$$ln Q_{st} = \delta (b_0 + b_1 ln LP_t + b_2 ln LT_t + b_3 ln Pf_t + b_4 ln Pfp_t + b_5 ln Pfx_t) + (1 - \delta) ln Q_{st-1}$$
(4)

Descriptions:

Descriptions of the formulas .....

The after paragraph text.....

#### PENULISAN ANGKA DAN MATA UANG

Seluruh angka harus ditulis dalam format internasional dengan koma (,) sebagai pemisah antar ribuan dan titik (.) sebagai pemisah ke desimal.

Contoh: 1,000.5 (seribu koma lima)

Perlu dicatat bahwa seluruh mata uang harus ditulis dalam istilah internasional, misalnya Rupiah (Rp) harus ditulis Indonesian Rupiah (IDR).

#### WRITING NUMBERS AND CURRENCY

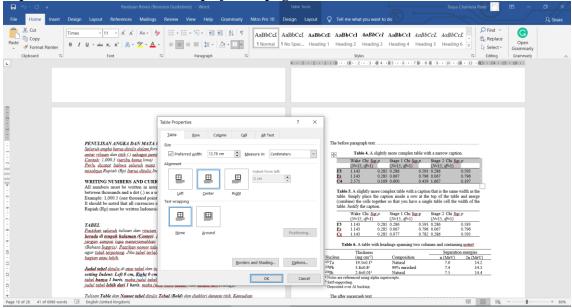
All numbers must be written in international format with a comma (,) as a separator between thousands and a dot (.) as a separator for decimals.

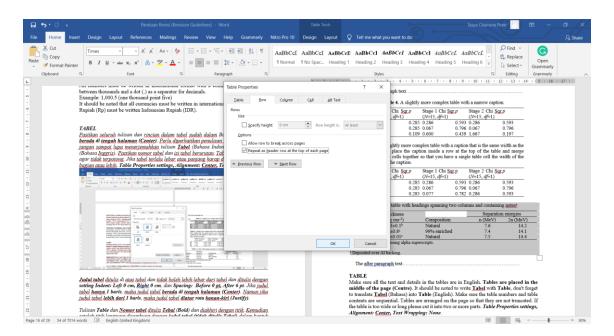
Example: 1,000.5 (one thousand point five)

It should be noted that all currencies must be written in international terms, for example Rupiah (Rp) must be written Indonesian Rupiah (IDR).

#### TABEL

Pastikan seluruh tulisan dan rincian dalam tabel sudah dalam Bahasa Inggris. **Tabel** berada di tengah halaman (Center). Perlu diperhatikan penulisan **Tabel** dengan **Table**, jangan sampai lupa menerjemahkan tulisan **Tabel** (Bahasa Indonesia) menjadi **Table** (Bahasa Inggris). Pastikan nomor tabel dan isi tabel berurutan. Tabel diatur di halaman agar tidak terpotong. Jika tabel terlalu lebar atau panjang harap dipotong menjadi dua bagian atau lebih. **Table Properties settings, Alignment: Center, Text Wrapping: None,** kemudian klik **Row, jangan centang Allow row to break across pages** dan Centang **Repeat as header row at the top of each page**.





Judul tabel ditulis di atas tabel dan tidak boleh lebih lebar dari tabel dan ditulis dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 0 pt, After 6 pt. Jika judul tabel hanya 1 baris, maka judul tabel berada di tengah halaman (Center). Namun jika judul tabel lebih dari 1 baris, maka judul tabel diatur rata kanan-kiri (Justify).

Tulisan **Table** dan **Nomor tabel** ditulis **Tebal** (**Bold**) dan diakhiri dengan titik. Kemudian setelah titik langsung disambung dengan judul tabel (tidak ditulis Tebal) dalam bentuk kalimat (Sentence case), dengan huruf besar hanya pada awal judul dan awal kata yang membutuhkan huruf besar (seperti nama daerah, nama spesies, dll), bukan besar pada setiap kata (Capitalize each word), dan diakhiri dengan titik (.). Jika ada keterangan table, Ukuran hurufnya 10 dan ditempatkan di bawah tabel.

Satu baris kosong harus ditambahkan antara paragraf dengan judul tabel di bawahnya, dan antara tabel/keterangan tabel dengan paragraf di bawahnya. Kecuali pada judul tabel, seluruh isi tabel, dan keterangan tabel ditulis dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 0 pt, After 0 pt.

Contoh:

The before paragraph text.....

	Wake Chi Sqr.p		Stage 1 Chi Squ	:.p	Stage 2 Chi Sqr.p		
	(N=15, df=1)	-	(N=15, df=1)	-	(N=15, df=1)	-	
F3	1.143	0.285	0.286	0.593	0.286	0.593	
Fz	1.143	0.285	0.067	0.796	0.067	0.796	
<b>C4</b>	2.571	0.109	0.600	0.439	1.667	0.197	

Table 4. A slightly more complex table with a narrow caption.

**Table 5.** A slightly more complex table with a caption that is the same width as the table. Simply place the caption inside a row at the top of the table and merge (combine) the cells together so that you have a single table cell the width of the table. Justify the caption.

	Wake Chi Sqr.p		Stage 1 Chi Sq	r.p	Stage 2 Chi Sqr.p		
	(N=15, df=1)		(N=15, df=1)		(N=15, df=1)		
F3	1.143	0.285	0.286	0.593	0.286	0.593	
Fz	1.143	0.285	0.067	0.796	0.067	0.796	
Cz	1.143	0.285	0.077	0.782	0.286	0.593	

	Thickness	Separation energies			
Nucleus	$(mg cm^{-2})$	Composition	n (MeV)	2n (MeV)	
<sup>181</sup> Ta	19.3±0.1 <sup>b</sup>	Natural	7.6	14.2	
<sup>208</sup> Pb	$3.8{\pm}0.8^{\circ}$	99% enriched	7.4	14.1	
<sup>209</sup> Bi	2.6±0.01°	Natural	7.5	14.4	

Table 6. A table with headings spanning two columns and containing notes<sup>a</sup>.

<sup>a</sup> Notes are referenced using alpha superscripts.

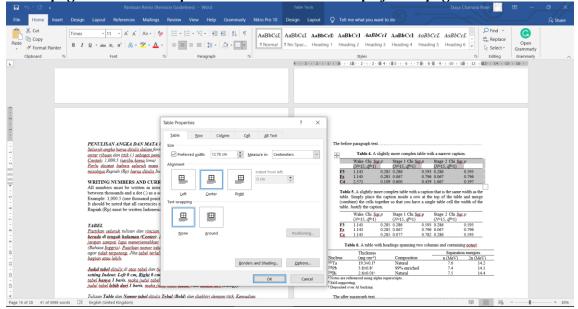
<sup>b</sup> Self-supporting.

<sup>c</sup> Deposited over Al backing.

The after paragraph text.....

#### TABLE

Make sure all the text and details in the tables are in English. **Tables are placed in the middle of the page (Centre)**. It should be noted to write **Tabel** with **Table**, don't forget to translate **Tabel** (Bahasa) into **Table** (English). Make sure the table numbers and table contents are sequential. Tables are arranged on the page so that they are not truncated. If the table is too wide or long please cut it into two or more parts. *Table Properties settings, Alignment: Center, Text Wrapping: None, then click Row, uncheck Allow row to break across pages and check Repeat as header row at the top of each page.* 



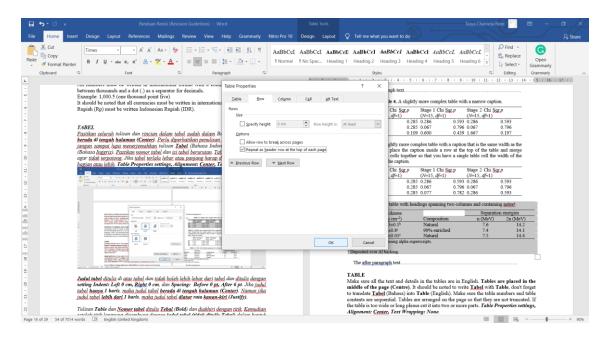


Table titles are written above the table and cannot be wider than the table and are written with Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 0 pt, After 6 pt. If the table title is only 1 line, then the table title is in the middle of the page (Centre). However, if the table title is more than 1 line, then the table title is aligned to right-left (Justify).

Table text and table numbers are written in Bold and ended with a full stop. Then after the full stop is directly followed with the table title (not written in Bold) in a sentence form (Sentence case), with capital letters only at the beginning of the title and the beginning of words that require capital letters (such as area names, species names, etc.), not capital letters on each word (Capitalize each word), and ended with a full stop (.). If there are table descriptions, the font size is 10 and placed below the table.

One blank line must be added between the paragraph with the table title below it, and between the table/table description and the paragraph below it. Except for table titles, all table contents and table descriptions are written with Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 0 pt, After 0 pt.

Example:

The before paragraph text.....

	Wake Chi Sqr.p		Stage 1 Chi S	qr. <i>p</i>	Stage 2 Chi Sqr.p		
	(N=15, df=1)		(N=15, df=1)		(N=15, df=1)		
F3	1.143	0.285	0.286	0.593	0.286	0.593	
Fz	1.143	0.285	0.067	0.796	0.067	0.796	
<b>C4</b>	2.571	0.109	0.600	0.439	1.667	0.197	

**Table 4.** A slightly more complex table with a narrow caption.

**Table 5.** A slightly more complex table with a caption that is the same width as the table. Simply place the caption inside a row at the top of the table and merge (combine) the cells together so that you have a single table cell the width of the table. Justify the caption.

	Wake Chi Sqr.p		Stage 1 Chi Sq	r.p	Stage 2 Chi Sqr.p		
	(N=15, df=1)		(N=15, df=1)		(N=15, df=1)		
F3	1.143	0.285	0.286	0.593	0.286	0.593	
Fz	1.143	0.285	0.067	0.796	0.067	0.796	
Cz	1.143	0.285	0.077	0.782	0.286	0.593	

Table 6. A table with	headings span	ning two columns	s and containing notes <sup>a</sup> .

Thickness	Separation energies			
$(mg \ cm^{-2})$	Composition	n (MeV)	2n (MeV)	
19.3±0.1 <sup>b</sup>	Natural	7.6	14.2	
3.8±0.8°	99% enriched	7.4	14.1	
2.6±0.01°	Natural	7.5	14.4	
	(mg cm <sup>-2</sup> ) 19.3±0.1 <sup>b</sup> 3.8±0.8 <sup>c</sup>	(mg cm <sup>-2</sup> )Composition $19.3\pm0.1^{b}$ Natural $3.8\pm0.8^{c}$ 99% enriched	$\begin{array}{c c} (\text{mg cm}^{-2}) & \text{Composition} & n (\text{MeV}) \\ \hline 19.3 \pm 0.1^{\text{b}} & \text{Natural} & 7.6 \\ \hline 3.8 \pm 0.8^{\text{c}} & 99\% \text{ enriched} & 7.4 \end{array}$	

<sup>a</sup> Notes are referenced using alpha superscripts.

<sup>b</sup> Self-supporting.

<sup>c</sup> Deposited over Al backing.

The after paragraph text
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#### **GAMBAR**

Gambar harus tetap terlihat jelas dan tidak pecah meskipun artikel diperbesar 300%. Pastikan seluruh tulisan dan rincian dalam gambar (terutama gambar peta) sudah dalam Bahasa Inggris. Gambar berada di tengah halaman (Center). Perlu diperhatikan penulisan Figur dengan Figure, jangan sampai lupa menerjemahkan tulisan Figur (Bahasa Indonesia) menjadi Figure (Bahasa Inggris). Pastikan nomor gambar dan isi gambar berurutan. Layout Options: In Line with Text.

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Judul gambar ditulis di bawah gambar dan tidak boleh lebih lebar dari gambar dan ditulis dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 6 pt, After 0 pt. Jika judul gambar hanya 1 baris, maka judul gambar berada di tengah halaman (Center). Namun jika judul gambar lebih dari 1 baris, maka judul gambar diatur rata kanan-kiri (Justify).

Tulisan Figure dan Nomor gambar ditulis Tebal (Bold) dan diakhiri dengan titik. Kemudian setelah titik langsung disambung dengan judul gambar (tidak ditulis Tebal) dalam bentuk kalimat (Sentence case), dengan huruf besar hanya pada awal judul dan awal kata yang membutuhkan huruf besar (seperti nama daerah, nama spesies, dll), bukan besar pada setiap kata (Capitalize each word), dan diakhiri dengan titik (.). Jika ada keterangan gambar, Ukuran hurufnya 10 dan ditempatkan antara gambar dan judul gambar.

Satu baris kosong harus ditambahkan antara paragraph dengan gambar di bawahnya, dan antara judul gambar dengan paragraph di bawahnya. Kecuali pada judul gambar, seluruh gambar, dan keterangan gambar ditulis dengan setting Indent: Left 0 cm, Right 0 cm, dan Spacing: Before 0 pt, After 0 pt.

Contoh:

The before paragraph text.....

# Wider figure/short caption

<sup>a</sup> Notes are referenced using alpha superscripts.

<sup>b</sup> Self-supporting.

<sup>c</sup> Deposited over Al backing.

Figure 4. Figure with short caption (caption centred).

# Wider figure/wider caption

**Figure 5.** In this case simply justify the caption so that it is as the same width as the graphic.

Narrow	Narrow
figure	figure
with a	with a
wide	wide
caption.	caption.
<b>Figure 6.</b> These two figures have been placed side-by-side to save space. Justify the caption.	<b>Figure 7.</b> These two figures have been placed side-by-side to save space. Justify the caption.

The after paragraph text.....

#### FIGURE

Figures must remain clear and unbroken even if the article is enlarged to 300%. Make sure all the text and details in the figures (especially map figures) are in English. Figures are placed in the middle of the page (Centre). It should be noted to write Figur with Figure, don't forget to translate Figur (Bahasa) into Figure (English). Make sure the figure numbers and figure contents are sequential. *Layout Options: In Line with Text.* 

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Page 20 of 30 70	7 words 🗍 English (United Kingdom)				10 E E	+ 90%

Figure titles are written below the figure and cannot be wider than the figure and are written with Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 6 pt, After 0 pt. If the figure title is only 1 line, then the figure title is in the middle of the page (Centre). However, if the figure title is more than 1 line, then the figure title is aligned to right-left (Justify).

Figure text and figure numbers are written in Bold and ended with a full stop. Then after the full stop is directly followed with the figure title (not written in Bold) in a sentence form (Sentence case), with capital letters only at the beginning of the title and the beginning of words that require capital letters (such as area names, species names, etc.), not capital letters on each word (Capitalize each word), and ended with a full stop (.). If there are figure descriptions, the font size is 10 and placed between the figure and the figure title.

One blank line must be added between the paragraph with the figure below it, and between the figure title and the paragraph below it. Except for figure titles, all figures and figure descriptions are written with Indent settings: Left 0 cm, Right 0 cm, and Spacing: Before 0 pt, After 0 pt.

Example:

The before paragraph text.....

# Wider figure/short caption

<sup>a</sup> Notes are referenced using alpha superscripts.

<sup>b</sup> Self-supporting.

<sup>c</sup> Deposited over Al backing.

Figure 4. Figure with short caption (caption centred).

# Wider figure/wider caption

**Figure 5.** In this case simply justify the caption so that it is as the same width as the graphic.

Narrow	Narrow
figure	figure
with a	with a
wide	wide
caption.	caption.
<b>Figure 6.</b> These two figures have been placed side-by-side to save space. Justify the caption.	<b>Figure 7.</b> These two figures have been placed side-by-side to save space. Justify the caption.

The after paragraph text.....

#### KESIMPULAN DAN SARAN

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Contoh referensi:

#### References

- [1] Arif S and Sidek S 2015 Application of Halalan Tayyiban in the Standard Reference for Determining Malaysian Halal Food *Asian Soc Sci* **11**(17) pp 116–29
- [2] Abd Rahman A, Asrarhaghighi E and Ab Rahman S 2015 Consumers and Halal cosmetic products: knowledge, religiosity, attitude and intention J Islam Mark 6(1) pp 148–63
- [3] Golnaz R, Zainalabidin M and Mad Nasir S 2012 Assessment of consumers' confidence on Halal labeled manufactured food in Malaysia *Pertanika J Soc Sci* Humanit **20**(1) pp 33–42
- [4] Jamal A and Sharifuddin J 2015 Perceived value and perceived usefulness of Halal labeling: The role of religion and culture *J Bus Res* **68**(5) pp 933–41
- [5] Badan Pusat Statistik Indonesia [BPS-Statistics of Indonesia] 2018 Sensus Penduduk 2010: Penduduk Menurut Kelompok Umur dan Agama [2010 Population Census: Population by Age Groups and Religions] (Jakarta: Badan Pusat Statistik Indonesia [BPS-Statistics of Indonesia]) Available from: https://sp2010.bps.go.id
- [6] Elson RE 2010 Nationalism, Islam, "secularism" and the state in contemporary Indonesia *Aust J Int Aff* **64**(3) pp 328–43
- [7] Mohamed Z, Shamsudin MN and Rezai G 2013 The Effect of Possessing Information About Halal Logo on Consumer Confidence in Malaysia J Int Food Agribus Mark 25(1) pp 73–86
- [8] Pujiyanto 2017 BPJPH Diresmikan, Menag: Peran MUI Tetap Penting [BPJPH Officially Opened, Minister of Religious Affairs: MUI's Role is Still Important]

(Kementerian Agama Republik Indonesia [Minister of Religious Affairs of the Republic of Indonesia]) Available from: https://kemenag.go.id/berita/read/505865/bpjph-diresmikan--menag--peran-mui-tetap-penting

- [9] Delener N 1990 The effects of religious factors on perceived risk in durable goods purchase decisions *J Consum Mark* 7(3) pp 27–38
- [10] Mukhtar A and Butt MMB 2012 Religiosity and Muslim consumers J Islam Mark 3(2) pp 108–20
- [11] Soesilowati ES 2009 Peluang Usaha Produk Halal di Pasar Global: Perilaku Konsumen Muslim dalam Konsumsi Makanan Halal [Business Opportunities for Halal Products in Global Markets: Muslim Consumer Behaviors in Halal Food Consumption] (Jakarta, Indonesia: Pusat Penelitian Ekonomi, Lembaga Ilmu Pengetahuan Indonesia [Centre for Economic Research, Indonesian Institute of Sciences]) pp 1–164
- [12]Cetrez ÖA 2011 The next generation of Assyrians in Sweden: Religiosity as a functioning system of meaning within the process of acculturation *Ment Heal Relig Cult* 14(5) pp 473–87
- [13] Cleveland M and Chang W 2009 Migration and materialism: The roles of ethnic identity, religiosity, and generation J Bus Res 62(10) pp 963–71
- [14] Cnaan RA, Gelles RJ and Sinha JW 2004 Youth and religion: The gameboy generation goes to "church" *Soc Indic Res* **68**(2) pp 175–200
- [15] Diehl C, Koenig M and Ruckdeschel K 2009 Religiosity and gender equality: Comparing natives and Muslim migrants in Germany *Ethn Racial Stud* 32(2) pp 278– 301
- [16] Mukhtar A and Butt MM 2012 Intention to choose Halal products: The role of religiosity J Islam Mark 3(2) pp 108–20
- [17] Said M, Hassan F, Musa R and Rahman NA 2014 Assessing Consumers' Perception, Knowledge and Religiosity on Malaysia's Halal Food Products *Procedia - Soc Behav Sci* 130 pp 120–8
- [18] Ryan TP 2013 Sample Size Determination and Power (Hoboken, New Jersey: John Wiley & Sons, Inc.)
- [19] Awan HM, Siddiquei AN and Haider Z 2015 Factors affecting Halal purchase intention evidence from Pakistan's Halal food sector *Manag Res Rev* **38**(6)
- [20] Regenstein JM, Chaudry MM and Regenstein CE 2003 The Kosher and Halal Food Laws Compr Rev Food Sci Food Saf 2(3) pp 111–27
- [21] Jonckheere AR 1954 A Distribution-Free k-Sample Test Against Ordered Alternatives *Biometrika* **41**(1) pp 133–45
- [22] Terpstra JT and Magel RC 2003 A new nonparametric test for the ordered alternative problem J Nonparametr Stat 15(3) pp 289–301
- [23] Chen YI and Wolfe DA 1990 A Study of Distribution-free Tests for Umbrella Alternatives *Biometrical J* **32**(1) pp 47–57
- [24] Choi K and Marden J 1997 An approach to multivariate rank tests in multivariate analysis of variance *J Am Stat Assoc* **92**(440) pp 1581–90
- [25] Hill NJ, Padmanabhan AR and Puri ML 1988 Adaptive Nonparametric Procedures and Applications J R Stat Soc Ser C Appl Stat **37**(2) pp 205–18
- [26] Lin FA and Haseman JK 1978 An Evaluation of Some Nonparametric Multiple Comparison Procedures by Monte Carlo Methods Commun Stat - Simul Comput 7(2) pp 117–28

[27] Mahrer JM and Magel RC 1995 A comparison of tests for the k-sample, nondecreasing alternative Stat Med 14 pp 863–71

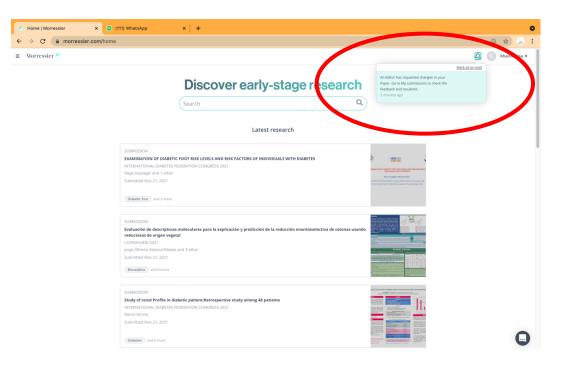
#### References

- [1] Fuseini A, Knowles TG, Hadley PJ, Lines JA and Wotton SB 2016 Halal stunning and slaughter: Criteria for the assessment of dead animals *Meat Sci* **119** pp 132–7
- [2] Golnaz R, Zainalabidin M and Mad Nasir S 2012 Assessment of consumers' confidence on Halal labeled manufactured food in Malaysia *Pertanika J Soc Sci Humanit* 20(1) pp 33–42
- [3] Jamal A and Sharifuddin J 2015 Perceived value and perceived usefulness of Halal labelling: The role of religion and culture *J Bus Res* **68**(5) pp 933–41
- [4] Mohamed Z, Shamsudin MN and Rezai G 2013 The Effect of Possessing Information About Halal Logo on Consumer Confidence in Malaysia J Int Food Agribus Mark 25(1) pp 73–86
- [5] Said M, Hassan F, Musa R and Rahman NA 2014 Assessing Consumers' Perception, Knowledge and Religiosity on Malaysia's Halal Food Products *Procedia - Soc Behav Sci* 130 pp 120–8
- [6] Badan Pusat Statistik Indonesia [BPS-Statistics of Indonesia] 2018 Sensus Penduduk 2010: Penduduk Menurut Kelompok Umur dan Agama [2010 Population Census: Population by Age Groups and Religions] (Jakarta, Indonesia: Badan Pusat Statistik Indonesia [BPS-Statistics of Indonesia]) Available from: https://sp2010.bps.go.id
- [7] Mukhtar A and Butt MM 2012 Intention to choose Halal products: The role of religiosity J Islam Mark 3(2) pp 108–20
- [8] Pujiyanto 2017 BPJPH Diresmikan, Menag: Peran MUI Tetap Penting [BPJPH Officially Opened, Minister of Religious Affairs: MUI's Role is Still Important] (Kementerian Agama Republik Indonesia [Minister of Religious Affairs of the Republic of Indonesia]) Available from: https://kemenag.go.id/berita/read/505865/bpjph-diresmikan--menag--peran-muitetap-penting
- [9] Mukhtar A and Butt MMB 2012 Religiosity and Muslim consumers J Islam Mark 3(2) pp 108–20
- [10] Delener N 1990 The effects of religious factors on perceived risk in durable goods purchase decisions *J Consum Mark* 7(3) pp 27–38
- [11] Soesilowati ES 2009 Peluang Usaha Produk Halal di Pasar Global: Perilaku Konsumen Muslim dalam Konsumsi Makanan Halal [Business Opportunities for Halal Products in Global Markets: Muslim Consumer Behaviors in Halal Food Consumption] (Jakarta: Pusat Penelitian Ekonomi, Lembaga Ilmu Pengetahuan Indonesia [Centre for Economic Research, Indonesian Institute of Sciences]) pp 1– 164
- [12]Elson RE 2010 Nationalism, Islam, "secularism" and the state in contemporary Indonesia *Aust J Int Aff* **64**(3) pp 328–43
- [13] Cleveland M and Chang W 2009 Migration and materialism: The roles of ethnic identity, religiosity, and generation *J Bus Res* **62**(10) pp 963–71
- [14] Cnaan RA, Gelles RJ and Sinha JW 2004 Youth and religion: The gameboy generation goes to "church" *Soc Indic Res* **68**(2) pp 175–200
- [15]Diehl C, Koenig M and Ruckdeschel K 2009 Religiosity and gender equality: Comparing natives and Muslim migrants in Germany *Ethn Racial Stud* 32(2) pp 278– 301

- [16] Fleischmann F and Phalet K 2012 Integration and religiosity among the Turkish second generation in Europe: A comparative analysis across four capital cities *Ethn Racial Stud* 35(2) pp 320–41
- [17] Pane TC and Khaliqi M 2019 The effect of religiosity level on the perceptions of young Muslim consumers towards Halal food criteria in Indonesia International Conference on Agriculture, Environment, and Food Security (AEFS) 2019 (Medan, Indonesia) Accepted
- [18] Ryan TP 2013 Sample Size Determination and Power (Hoboken, New Jersey: John Wiley & Sons, Inc.)
- [19] Awan HM, Siddiquei AN and Haider Z 2015 Factors affecting Halal purchase intention evidence from Pakistan's Halal food sector *Manag Res Rev* **38**(6)
- [20] Regenstein JM, Chaudry MM and Regenstein CE 2003 The Kosher and Halal Food Laws Compr Rev Food Sci Food Saf 2(3) pp 111–27
- [21] Jonckheere AR 1954 A Distribution-Free k-Sample Test Against Ordered Alternatives *Biometrika* **41**(1) pp 133–45
- [22] Terpstra JT and Magel RC 2003 A new nonparametric test for the ordered alternative problem J Nonparametr Stat 15(3) pp 289–301
- [23] Choi K and Marden J 1997 An approach to multivariate rank tests in multivariate analysis of variance J Am Stat Assoc 92(440) pp 1581–90
- [24] Lunneborg CE 2005 Jonckheere Terpstra Test *Encyclopedia of Statistics in Behavioral Science* (John Wiley & Sons, Ltd.) p 252
- [25] Lin FA and Haseman JK 1978 An Evaluation of Some Nonparametric Multiple Comparison Procedures by Monte Carlo Methods Commun Stat - Simul Comput 7(2) pp 117–28
- [26] Mahrer JM and Magel RC 1995 A comparison of tests for the k-sample, nondecreasing alternative Stat Med 14 pp 863–71
- [27] Neuhäuser M 2012 *Nonparametric statistical tests: A computational approach* (New York: Taylor & Francis Group, LLC) pp 1–248

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