

Cover letter

[Yogyakarta] [05 October 2023]

To:

Editor-in-Chief of Majalah Kedokteran Bandung (MKB)
in Bandung, Indonesia

Dear Professor,

We wish to submit an original research article entitled “[**Effects of Yacon Leaf Extract on MCP-1 and IL-10 Expressions and Macrophage Phenotypes in CKD Mouse Model**]” for consideration by Majalah Kedokteran Bandung.

We confirm that this work is original and that the manuscript has not been published elsewhere, nor is it currently under consideration for publication elsewhere. We also confirm that there is no falsification or fabrication of data and no plagiat content in the article.

We believe that this manuscript is appropriate for publication by Majalah Kedokteran Bandung because it provides interesting information regarding inflammation topic and a potential natural product. In this study, we found that chronic kidney disease (CKD) modeling in mice using the 5/6 subtotal nephrectomy method caused elevated levels of MCP-1 and IL-10 mRNA expressions, and also higher numbers of M1 and M2 macrophages. The administration of graded doses of yacon (*Smallanthus sonchifolius*) leaf extract in the CKD mouse model could significantly lower the number of M2 macrophages and the mRNA expressions of MCP-1 and IL-10. However, the number of M1 macrophages was only lower in the yacon-treated group given the 49 mg/kg BW/day dose. These showed that yacon leaf extract could attenuate kidney injury by lowering the number of macrophages and the expression of inflammation mediators. We believe with these findings, our manuscript can provide information for future studies on the use of yacon (*Smallanthus sonchifolius*) in CKD animal models and other research related to inflammation and pharmacology. All authors of this manuscript have approved the final version of this submitted manuscript.

We have no conflicts of interest to disclose.

Thank you for your consideration of this manuscript.

Sincerely,

A handwritten signature in blue ink, appearing to be 'Widya Wasityastuti', with a large loop on the left and several vertical strokes in the middle.

[Widya Wasityastuti]

Conflict of Interest Declaration

Here by the author(s) certify(s) that the manuscript entitled:

Effects of Yacon Leaf Extract on MCP-1 and IL-10 Expressions and Macrophage Phenotypes in CKD Mouse Model

is an original work and has not been submitted to, nor is under review at, another journal or other publishing venue. All authors of this manuscript have approved the final version of this submitted manuscript and there is no financial interest to report. This manuscript is ready for publication in the Majalah Kedokteran Bandung (MKB).

Author (s) (please write your name with academic degree(s) and sign)

Authors

Signature

1st author (**Meida Sofyana**)



2nd author (**Widya Wasityastuti**)



3rd author (**Nuni Ihsana**)



4th author (**Setyo Purwono**)



5th author (**Nur Arfian**)



I accept the responsibility for the completion of this document and attest to its validity on behalf of all co-authors.

Author's data

Title of manuscript: Effects of Yacon Leaf Extract on MCP-1 and IL-10 Expressions and Macrophage Phenotypes in CKD Mouse Model

Enter the names of everyone who contributed to your manuscript by entering all required information.

Author(s)

1st author

First name: Meida

Last name: Sofyana

Academic degree(s): *dr., M.Biomed*

Affiliation: Department of Physiology, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada

Address: Jl. Farmako, Sekip Utara, Mlati, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281, Indonesia

Phone: +62-274-649 2492

Email: meidasofyana@mail.ugm.ac.id

2nd author

First name: Widya

Last name: Wasityastuti

Academic degree(s): *dr., M.Sc, M.Med.Ed, PhD*

Affiliation: Department of Physiology, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada

Address: Jl. Farmako, Sekip Utara, Mlati, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281, Indonesia

Phone: +62-274-649 2492

Email: wasityastuti@ugm.ac.id

3rd author

First name: Nuni

Last name: Ihsana

Academic degree(s): *dr., M.Biomed*

Affiliation: Department of Physiology, Faculty of Medicine, Universitas Ahmad Dahlan

Address: Jl. Universitas Ahmad Dahlan Kampus 4, Kragilan, Tamanan, Kec. Banguntapan, Kabupaten Bantul, Daerah Istimewa Yogyakarta 55191

Phone: +62-274-563 515

Email: ihsananuni@gmail.com

4th author

First name: Setyo

Last name: Purwono

Academic degree(s): *Dr., dr., M.Kes, Sp.PD*

Affiliation: Department of Pharmacology and Therapy, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada

Address: Jl. Farmako, Sekip Utara, Mlati, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281, Indonesia

Phone: +62-274-511 103

Email: setyopurwono@ugm.ac.id

5th author

First name: Nur

Last name: Arfian

Academic degree(s): *dr., PhD*

Affiliation: Department of Anatomy, Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada

Address: Jl. Farmako, Sekip Utara, Mlati, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281, Indonesia

Phone: +62-274 649 2521

Email: nur_arfian@ugm.ac.id

Copyright Transfer Form

Copyright Transfer Form

Authors (and all coauthors) who publish in Majalah Kedokteran Bandung (MKB) retain the right to present orally in any forum all or part of the work and to republish parts of the work in any subsequent papers or books of which he/she (or any of the coauthors) is an author or editor, subject to the author acknowledging the published source of the material.

The Majalah Kedokteran Bandung (MKB) obtains and owns the copyright of the contents of its journals.

All Author(s) Name: Meida Sofyana, Widya Wasityastuti, Nuni Ihsana, Setyo Purwono, Nur Arfian

Manuscript Title: Effects of Yacon Leaf Extract on MCP-1 and IL-10 Expressions and Macrophage Phenotypes in CKD Mouse Model

Regarding the publication of my article in the Majalah Kedokteran Bandung (MKB), hereby:

1. I affirm that the materials in the above article have not been published previously and that I (and my coauthors) own and have not transferred elsewhere any right to the article.
2. I affirm that I have obtained written permission to use any previously copyrighted material included in the article and that such documentation will be forwarded to the Majalah Kedokteran Bandung (MKB) for filing.
3. I assign and transfer all exclusive rights of copyright ownership of the article to Majalah Kedokteran Bandung (MKB) including, without limitation, all rights for reproduction, derivation, distribution, sale, and display of the work, in whole or in part, in any and all forms of media currently and afterwards, as protected by the laws of the Republic of Indonesia and other countries. These exclusive rights will become the property of the Majalah Kedokteran Bandung (MKB) from the date of acceptance. I understand that the Majalah Kedokteran Bandung (MKB) as copyright owner has the sole authority to grant permission to reproduce the article.
4. The Co-author and I declare that this manuscript does not contain parts that constitute plagiarism and all data in this manuscript are originally based on the author and co-authors' work.

<u>Corresponding Author Name</u>	<u>Date:</u>	
<u>Widya Wasityastuti</u>	<u>05 October 2023</u>	

I sign for and accept responsibility for transferring copyrights of this manuscript to **Majalah Kedokteran Bandung (MKB)** and attest to its validity on behalf of all co-authors.

Please fill in the form and must be submitted as supplementary files saved in PDF format or send the email version as an attachment (mkb.fkunpad@gmail.com)

Prospective Reviewer

I hereby suggest prospective reviewer(s) to Majalah Kedokteran Bandung (MKB) by filling in all required information:

Reviewer 1

Full name with academic degree(s): Dr. Wahyu Widowati, M.Si

Affiliation/institution: *Faculty of Medicine, Maranatha Christian University*

Email: wahyu.widowati@maranatha.edu

Expertise: herbal extracts, inflammation, molecular biology