

April 2023

Dear Editor of Current Issues in molecular biology,

I have a pleasure of sending you the manuscript entitled “**Alveolar bone preservation using a combination of nanocrystalline hydroxyapatite and injectable platelet rich fibrin: A Study in Rats**” authored by Andries Pascawinata, Gusti Revilla, Roni Eka Sahputra, and Syukri Arief to be considered for publication as a research article in your prestigious journal – Current issues in molecular biology – MDPI.

This manuscript is a report of Alveolar bone preservation using a combination of nanocrystalline hydroxyapatite and injectable platelet rich fibrin, a study in rats. nanocrystalline hydroxyapatite (HA) has limited osteoinductive properties, because of which researchers try to combine HA with various materials to improve its osteoinductive ability such as injectable platelet rich fibrin (IPRF). This study aimed to examine the effects of implantation of a combination of HA and IPRF on the expression of Tartrate Resistant Acid Phosphatase (TRAP), and Alkaline Phosphatase (ALP), Osteocalcin (OCN) and New Bone Formation. This study used nanocrystalline hydroxyapatite made from a pensi shell (*corbicula moltkiana*), and also used IPRF which taken autogenously from rats blood as a combination of nanocrystalline hydroxyapatite to produce a synergistic combination and can increase bone regeneration ability.

We have no conflicts of interest to disclose. We hope to be considered for publication as a research article in your Current Issues in molecular biology journal.

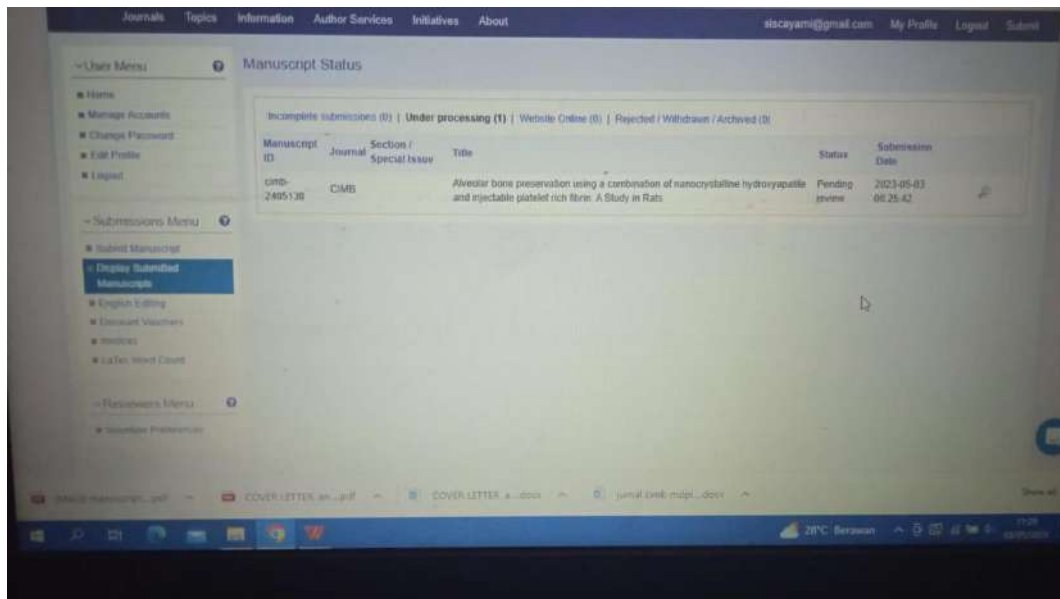
Please address all correspondence concerning this manuscript to me.
Thank you very much for your consideration.

Your sincerely,

Corresponding author;

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submission confirmation



Permintaan revisi oleh reviewer (7-6-23)

Review Report Form

Open Review ☐ I would not like to sign my review report
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Quality of English Language ☐ I am not qualified to assess the quality of English in this paper
☐ English very difficult to understand/incomprehensible
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☒ Moderate editing of English language required
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	Yes	Can be improved	Must be improved	Not applicable
Does the introduction provide sufficient background and include all relevant references?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
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Are the conclusions supported by the results?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

Comments and Suggestions for Authors

In this manuscript the authors aimed to examining the effects of combined nanocrystalline HA and IP-RF implantation on the expressions of osteoclastogenic and osteoblastogenic markers during bone healing in wistar rats. However, there are major comments, which need to be met before the manuscript can be considered for publication.

Introduction:

Line 66: Please correct the word "inlusing" to "including"

Line 73: If you once used the abbreviation e.g. HA for hydroxyapatite, please continue with the abbreviation until the end of the manuscript

Line 78: Is this really called "hydroxyapatite"

Material and Methods:

General comment: The M&M part is just sparsely written and is not well-structured. There are not details on especially immunohistochemical techniques, neither citations to support the methods used. Therefore, I kindly ask the authors to rewrite the M&M section (also the statistical analysis part)

IHC: Why did the authors just perform an observational calculation of the stainings? Why didn't the authors quantify e.g. via Image J?

Line 140: latin names like "ad libitum" are usually written in italics

Figure 4: the images of Eppendorf (a-c) are far too small, especially the numbers and letters are hardly readable

Line 152: There is something wrong in the description of this M&M part. Here you start with "Decapitation was carried out by administering a lethal dose of anesthetics." However, I don't think that you mean decapitation.

Results:

General comments: Proper quantification needs to be performed for the IHC samples. The method is inappropriately used in this paper. The graphs are not nicely presented and are not comparable to each other (e.g. letters are different in size, capitals, etc.).

Line 210: As already mentioned, if the authors use the abbreviation TRAP already throughout the text, they should avoid to use the full name in between.

Comments on the Quality of English Language

Some parts of manuscript are written like a story, which lowers the scientific soundness of the manuscript

Submission Date 03 May 2023

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Are the results clearly presented?	()	(x)	()	()
Are the conclusions supported by the results?	(x)	()	()	()
Comments and Suggestions for Authors	<p>Dear authors,</p> <p>What is new in your work? Nanohydroxyapatite and platelet rich fibrin are commonly used in regenerative medicine. The experiments are of little interest and the graphical presentation of the results is of low quality. Generally, the work is read without much interest. Please improve the quality of work. Indicate the novelty of research.</p>			
Comments on the Quality of English Language	<p>Moderate changes should be taken into account.</p>			

Article accepted 11-7-23



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CERTIFICATE OF ACCEPTANCE

Certificate of acceptance for the manuscript (cimb-2405138) titled:
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Authored by:
Andries Pascawinata; Gusti Revilla; Roni Eka Sahputra; Syukri Arief

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