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Subject: Your Manuscript (WJARR-2023-0438): accepted for further publication

Dear Author,
Greetings for the day...

We are pleased to inform you that your manuscript (**Manuscript ref. no. WJARR-2023-0438**) entitled "***Biocompatibility of Crab Shell-Derived Graft Sterilized by UV Light towards Human Gingival Fibroblast Cell Culture***" is accepted for further publication process.

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Subject: Your Manuscript has been published in Volume 17 - Issue 3 (March 2023) of World Journal of Advanced Research and Reviews (WJARR).

Dear Author,
Greetings for the day...

We are pleased to inform you that your manuscript entitled "*Biocompatibility of Crab Shell-Derived Graft Sterilized by UV Light towards Human Gingival Fibroblast Cell Culture*" has been published in **Volume 17 - Issue 3 (March 2023)** of World Journal of Advanced Research and Reviews (WJARR).

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**World Journal of Advanced Research and Reviews
(WJARR)**

Author's Declaration Form

Title of article: Biocompatibility of Crab Shell-Derived Graft Sterilized by UV Light towards Human Gingival Fibroblast Cell Culture

Corresponding Author's name: Michael Josef Kridanto Kamadjaja

Names of co-authors: Michael Josef Kridanto Kamadjaja, Bambang Agustono, Innocencio Kresna Pratama

E- mail of corresponding author: Michael-j-k-k@fkg.unair.ac.id

The author(s) acknowledged that:

1. All authors have read, understand and agreed to the submission guidelines, policies and submission declaration of the journal.
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(Corresponding Author)

hydroxyapatite (HA) and can be synthesized in many ways. HA is widely used in orthopedic and biomedical field applications. The structure of HA has a similar structure with human bones which makes HA have the potential and innovation as a manufacture of synthetic bones (bone graft). In dentistry, bone graft is used to increase the alveolar bone volume, remodeling the jawbone, and reshaping the alveolar crest.[5,6]

To be used as a graft material, hydroxyapatite graft from crab shells (*Portunus pelagicus*) must meet biocompatibility requirements. Biocompatibility relates to the nature of the material that demonstrates biologic compatibility or is acceptable to the body without providing a harmful local or systemic response. This property is very important for synthetic bones (bone graft) because it is related to the success of osteoconductivity, osteoinduction and osteogenesis. Osteoconductive and osteoinductive are paramount to resorbable biomaterials to direct and encourage tissue growth formations.[5,7]

In the manufacture of hydroxyapatite, a heating / calcination process has been carried out which can kill various microorganisms but at the time of heating there is a possibility of exposure to the external environment so that additional sterilization process is needed.[8] Sterilization is a process that destroys all forms of life. From a microbiological point of view, a sterile object is free from living microorganisms. In the sterilization process, bacterial spores are the most resistant among all living organisms. Currently, there are various sterilization equipment with different working mechanisms, each of which has its own limitations in its practical application. The method chosen usually depends on the nature of the material to be sterilized.[9] Sterilization of ultraviolet (UV) light is one method that can emit rays with wavelengths between 200-400 nm. A wavelength of 200-300 nm is usually referred to as germicidal because UV light of this wavelength is absorbed by DNA and RNA from microorganisms. Photons absorbed from these UV rays will cause changes in DNA and RNA structure, resulting in microorganisms not being replicable.[10] Based on research by Nishikawa (2003) another effect that can be produced from UV light sterilization on hydroxyapatite is the formation of free radicals (OH and O₂⁻) due to the breakdown of H₂O and O₂ molecules which can cause decomposition of organic pollutants.[11]

To find out the biocompatibility of a material towards human body, a toxicity test is conducted so that it is known how far the adverse effects can be caused, so as not to harm the body. In this study, human gingival fibroblast (HGF) cell culture was used to get fast results and to expose cell cultures directly with experimental materials. Cell cultures are also more sensitive to toxic materials. Thus, not only toxicity can be measured quantitatively, but the response to living cells can be seen. Fibroblasts are often used by researchers to test dental materials, because fibroblasts are one of the constituent components of the tissue around the tooth.[12]

Based on the description above, the purpose of this study is to determine the biocompatibility of hydroxyapatite of *Portunus pelagicus* crab shells that have been sterilized with UV light against HGF cell cultures.

2. Material and methods

2.1. *Portunus pelagicus* crab shell preparation

This study used a post-test only control group design. The crab population used comes from Semedu Sari, Grati, Pasuruan District. Cleaned crab shells were soaked with 5.25% sodium hypochlorite (Bayclin, SC Johnson) and fed into a furnace engine with an initial temperature of ±50°C. The temperature was raised by 5°C/min until it reaches a temperature of 1000°C for 2 hours. The next process was to sift the powder using a sifting machine to obtain hydroxyapatite powder measuring less than 150 µm particle. The transparent plastic tubes with an additional layer of polyethylene plastic were used as a container to keep hydroxyapatite so that it can be sterilized with UV rays and not contaminated. Hydroxyapatite was sterilized with a UV sterilizer for 2 x 30 minutes by turning it over.

2.2. Human gingival fibroblast cell culture preparation

Human gingival fibroblast cell cultures were given Phosphate-Buffered Saline (PBS) of 2.5 mL to separate or remove the media in the culture, then given the enzyme trypsin as much as 2 mL to release cells in the medium. After that, cell cultures were incubated at a temperature of 37°C, CO₂ levels of 5% for 5 minutes. Observations were made to make sure all the cells were detached. Cells were taken using a pipette and incubated again for 5 minutes. Cells that have been detached were given alpha MEM and trypsin medium in a ratio of 1:1 (2 mL each). Then, cells were inserted into the conical tube so that the cell would stick to the tube wall. Several washes were carried out using trypsin and alpha MEM so that the monolayer cells became single cells in the conical tube. Centrifugation of 1800 rpm was carried out for 5 - 6 minutes. The medium and enzymes were removed using a pipette, then alpha MEM was given up to 50 mL. The vibrating

process was carried out using a tube mixer and cells were poured into a microplate of 96 well as much as 100 μL with a density of $3 - 5 \times 10^3$ and incubated for 24 hours with a temperature of 37°C .

2.3. Experimental procedure

This study consisted of 4 groups, control group (without hydroxyapatite, consist of control of media and control of HGF cell), group with 25 ppm of *Portunus pelagicus* crab shell, 50 ppm, and 100 ppm. Each group consisted of 5 samples, was poured into microplate with HGF cells. This microplate underwent UV sterilization for 60 minutes. After UV sterilization, that was underwent incubation for next 24 hour inside the incubator with a temperature of 37°C .

2.4. MTT assay

Tetrazolium salt (MTT) was dissolved in 5 mg/mL PBS. MTT was added directly to the plate containing 10 μl of culture medium, then re-incubated for approximately 4 hours at 37°C . The whole medium inside the well was taken out. Then, each well was added DMSO (Dimethylsulfoxide) of 50 μl . The plate was stirred mechanically with a plate shaker until the formazan crystals dissolved for 5 minutes. Living fibroblast cells will be stained with formazan (turning into blue colour), while the dead cells do not form blue colour. Formazan was read by spectrophotometry with an ELISA reader at a wavelength of 620 nm. The amount of absorbance indicated the number of living cells in the media culture. The calculation of the viability of fibroblast cells in each group was carried out with the formula below:

$$\text{cell viability} = \frac{\text{OD of treatment group} + \text{OD of control media group}}{\text{OD of control cell group} + \text{OD of control media group}} \times 100\%$$

Notes:

- Cell viability: percentage of living cells after experimental procedure
- OD refers to optical density.
- All variables were taken from mean value of each group

Data obtained was analyzed with Kolmogorov-Smirnov, Levene test, and one-way ANOVA test with confidence level of 95%.

3. Results

Precursor compound found in the *Portunus pelagicus* crab shell that had been used in this study has been observed and the results were shown below:

Table 1 The result of assessment of calcium carbonate in *Portunus pelagicus* crab shell

Main molecule	Percentage
Calcium carbonate	61,82%
Chitin	28,60%
Phosphate	13,86%

On the SEM micrograph observation, the fine structure of hydroxyapatite crystal could be seen along with its low porosity, clustered, and the similar size (Figure 1).

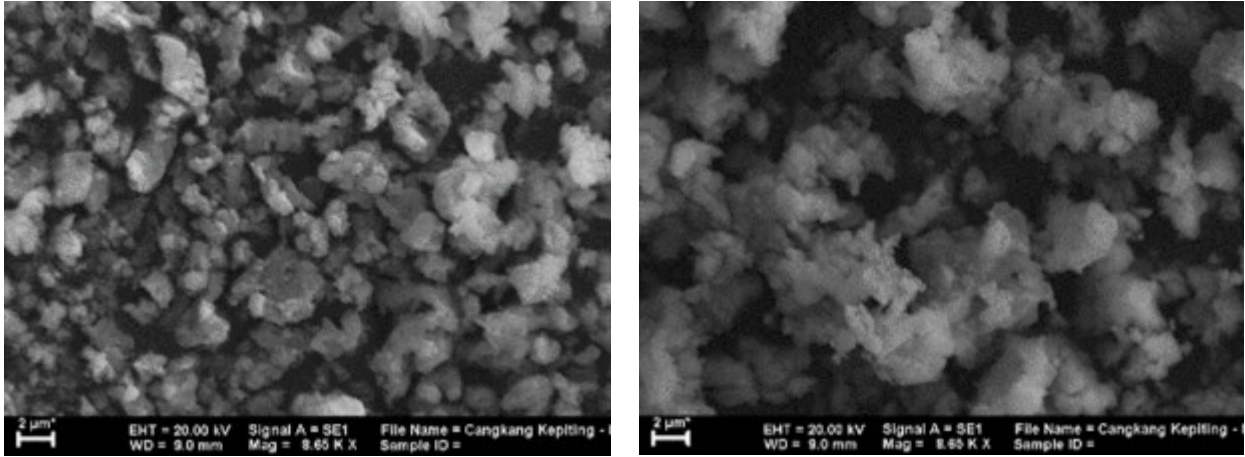


Figure 1 SEM micrograph samples of hydroxyapatite *Portunus pelagicus* shell with an enlargement of 8650x with two different field of view

It could be seen the smoothness and homogeneity of the hydroxyapatite structure because the sifting process has been carried out using a sifting machine so that a size of less than 150 µm was obtained (Figure 2)

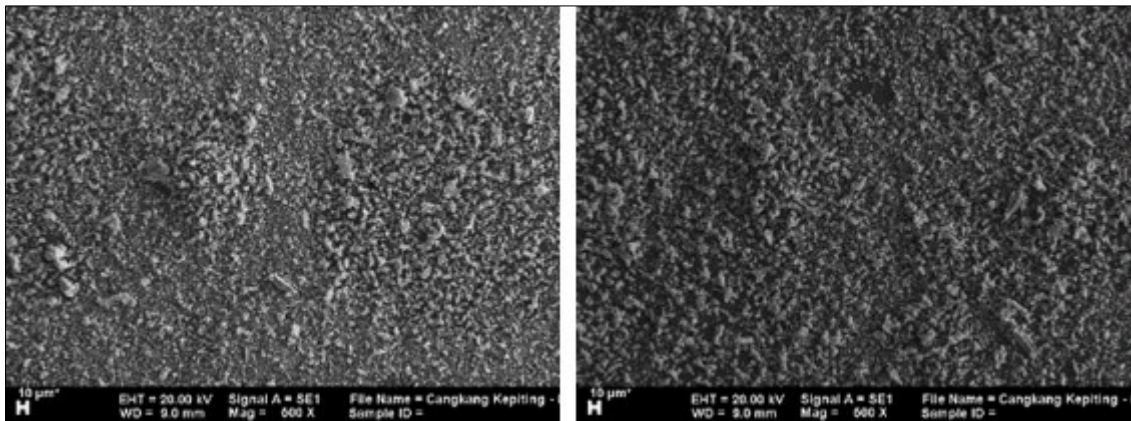


Figure 2 SEM micrograph samples of hydroxyapatite *Portunus pelagicus* shell with an enlargement of 500x with two different field of view

The composition of hydroxyapatite was dominated by oxygen (O) $67.59 \pm 6.9\%$, followed by calcium (Ca) $29.16 \pm 0.7\%$, and phosphorus (P) $3.25 \pm 0.1\%$ for normalized weight and oxygen (O): $83.54 \pm 6.9\%$, calcium (Ca): $14.39 \pm 0.7\%$, and phosphorus (P): $2.08 \pm 0.1\%$ for the calculation of the number of atoms (Table 2, Figure 3).

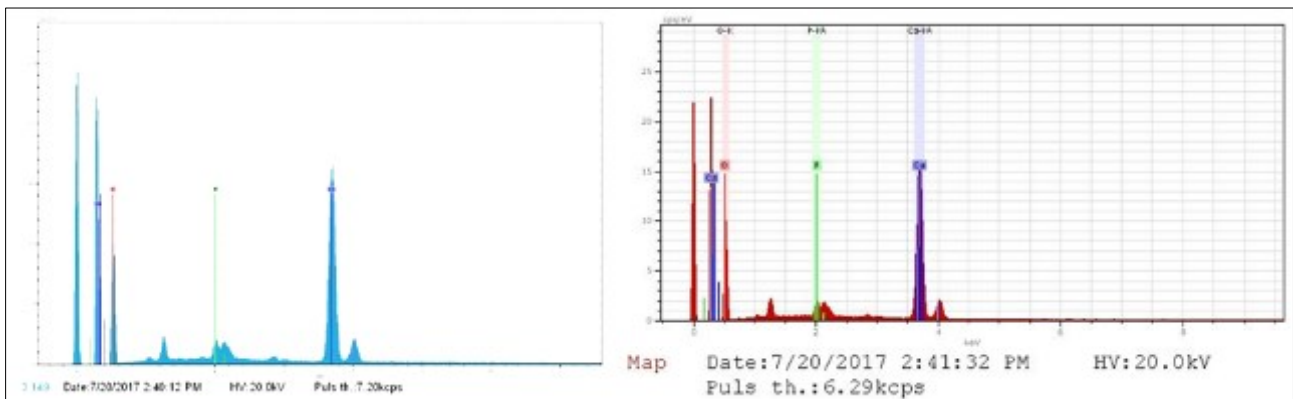


Figure 3 The EDX spectrum samples of hydroxyapatite from *Portunus pelagicus* shell with three main constituent elements dominated by Ca, O, and P

Table 2 Weight measurement of not normalized, normalized, and atom measurement from three main constituent elements dominated by Ca, O, and P

Element	Atom number	Weight measurement (wt. %)		Atom measurement (at. %)	Error (%)
		Not normalized	normalized		
O	8	56,23	67,59	83,54	6,9
Ca	20	24,25	29,16	14,39	0,7
P	15	2,71	3,25	2,08	0,1
Total		83,19	100,00	100,00	

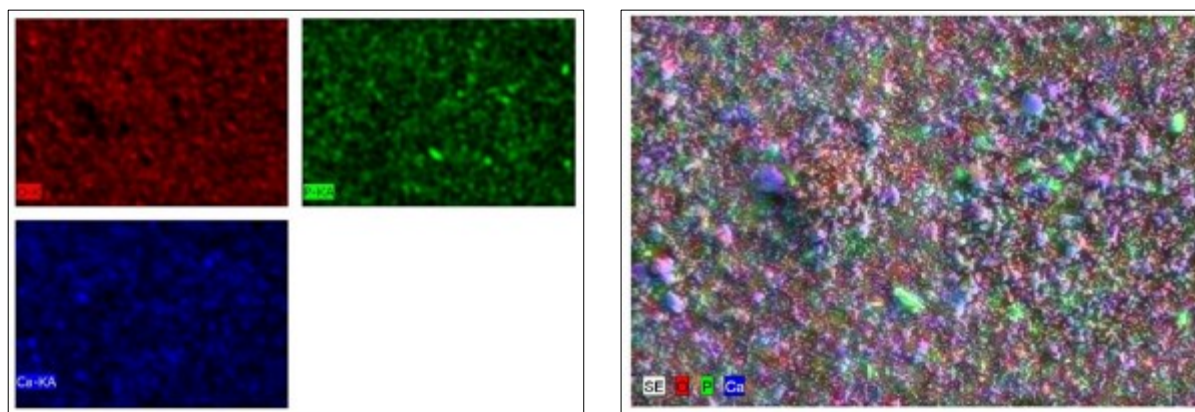


Figure 4 Left: mapping hydroxyapatite elements using EDX. Right: Combining the three mappings of hydroxyapatite elements using EDX

Figure 4 showed the mapping of Ca, O, and P atomic elements and combination of three of them using EDX on hydroxyapatite. The Ca atom was shown in blue, the O atom was shown in red, and the P atom was shown in green.

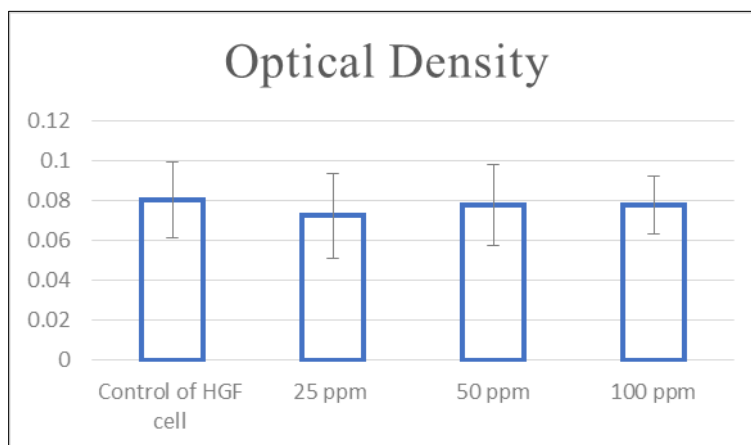


Figure 5 Diagram of optical density mean value from each group along with standard deviation

From the data represented by Figure 5 and Table 3, it could be seen that other than control group, the 100 ppm group showed higher living cells, followed by 50 ppm and 25 ppm group. ANOVA test also showed that there was no significant difference between each group.

Table 3 Percentage of living cells from each group. The numbers below were obtained from the formula mentioned on Material and methods section

Group	N	Viability (%)
Control of HGF cell	5	100%
25 ppm	5	93.28%
50 ppm	5	98.10%
100 ppm	5	97.93%

4. Discussion

Hydroxyapatite (HA) is the main mineral component of human hard tissues (especially bones and teeth). It is a storage area to control the absorption and release of calcium from the human body. HA belongs to the class of calcium phosphate-based biochemistry with the chemical formula $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$. [13] HA can be used as a bone substitute in orthopedics and dental care due to its good biocompatibility and osteoconductive properties. [14]

Crab shells are rich in inorganic and organic materials that can be processed into useful materials. The results of component on *Portunus pelagicus* crab shells originating from the population of Samedu Sari, Grati, Pasuruan Regency: 61.82% CaCO_3 , 28.60 chitin, and 13.86% PO_4 . CaCO_3 and PO_4 are precursor materials for hydroxyapatite. [13] Based on this study, it showed that the shell of *Portunus pelagicus* has the potential to be extracted into hydroxyapatite.

Characterization of hydroxyapatite samples using SEM-EDX, where the SEM micrograph images (Figure 4) show the formation of small-sized crystals ($<150 \mu\text{m}$), smooth surfaces with low porosity. [15] The small particle size is good for filling bone because it is quickly absorbed, has a larger surface area, and increases osteogenesis. [16] On examination of the EDX spectrum (Table 2) the hydroxyapatite sample was dominated by oxygen (O): $67.59 \pm 6.9\%$, calcium (Ca): $29.16 \pm 0.7 \%$, and phosphorus (P): $3.25 \pm 0.1 \%$ for normalized weight and oxygen (O): $83.54 \pm 6.9 \%$, calcium (Ca) : $14.39 \pm 0.7 \%$, and phosphorus (P): $2.08 \pm 0.1 \%$ for calculation of the number of atoms. The distribution map (Figure 4) of atoms also shows the evenness of O, Ca, and P atoms in the hydroxyapatite sample. The composition of these three elements confirms the hydroxyapatite compound.

Hydroxyapatite extract from *Portunus pelagicus* shell was sterilized with UV light to kill microorganisms that can harm surrounding tissues by releasing toxic substances that can damage them. UV light with a wavelength of 200-300 nm is usually referred to as germicidal because UV light with this wavelength is absorbed by the DNA and RNA of microorganisms. Photons absorbed from UV rays will cause changes in the structure of DNA and RNA. [10] Photon energy causes the breaking of hydrogen bonds in nitrogenous bases in DNA or RNA, resulting in chemical modifications of nucleoproteins and causing cross-links between adjacent thymine molecules by covalent bonds. This relationship can cause misreading of the genetic code in the process of protein synthesis, which will produce mutations that will further damage or weaken the vital functions of the organism. The existing electrons will be transferred to the surrounding oxygen and followed by the formation of O_2^- or superoxide radicals. This reaction occurs due to the mechanism of photoactivation. These superoxide radicals will oxidize organic molecules and react with water molecules and OH^- ions, produce hydrogen peroxide (H_2O_2) The H_2O_2 will further separate and produce OH radicals which oxidize organic molecules (microorganisms) during sterilization. UV sterilization also has the following advantages, namely relatively inexpensive, easy to operate, no chemicals needed, and fast sterilization. [10]

According to Akhila *et al.*, 2007, the determination of a material as toxic or non-toxic was based on Lethal Dose 50 (LD50) which is the first step for assessment and evaluation. [17] It was said that a material is non-toxic or biocompatible if it has cell viability greater than 50%. Of the three results, the percentage of cell viability was above 50% which indicated that the hydroxyapatite graft extract from *Portunus pelagicus* shell which was sterilized by UV light had good biocompatibility towards human gingival fibroblast cells. The treatment with a concentration of 50 ppm had the highest cell viability at 98.10%. The highest cell viability in certain groups can be influenced by differences in the ability of hydroxyapatite receptors on fibroblast cells. In a study conducted by Kasaj *et al.*, it is proven that hydroxyapatite plays a role in stimulating the proliferation of human periodontal fibroblast cells. This is related to the activation of the epidermal growth factor receptor (EGFR) and its subsequent targets ERK1/2 and Akt. Activation of pYFAK 397 also occurs, this can be seen from the increased cellular attachment. The reason for the increased attachment of human periodontal fibroblast cells to hydroxyapatite is an increase in the activation of $\alpha 5\beta 1$ integrin. Increased expression of $\alpha 5\beta 1$ integrin will cause an increase in fibroblast cell proliferation. Integrins act as attachment receptors

for extracellular matrix proteins transducing signaling pathways through FAK phosphorylation and lead to ERK1/2 activation. This is related to the activation of the epidermal growth factor receptor. Another mechanism that enhances proliferation is activation of the Akt pathway. After the epidermal growth factor receptor is activated, this receptor is phosphorylated at tyrosine 1173, so that Akt increased. The high ability of the epidermal growth factor receptor and the expression of $\alpha 5\beta 1$ integrin on fibroblast cells in group 2 (50 ppm) caused an increase in fibroblast cell proliferation so that this group had a high number of living fibroblast cells. This is supported by the statement of Yuan et al. that the active epidermal growth factor receptor signaling is responsible for the proliferation of fibroblast cells.[18]

5. Conclusion

Author should provide an appropriate conclusion to the article. Write conclusion as single para. Conclusion should be concise, informative and can be started with summarizing outcome of the study in 1-2 sentence and ended with one line stating: how this study will benefit to the society and way forward.

Compliance with ethical standards

Acknowledgments

The authors would like to say thank you to Jennifer Widjaja for her assistance to review and editing this manuscript thoroughly.

Disclosure of conflict of interest

If two or more authors have contributed in the manuscript, the conflict of interest statement must be inserted here.

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From: michael josef kridanto kamadjaja <michael-j-k-k@fkg.unair.ac.id>

Date: 3/14/23 14:04 (GMT+07:00)

To: Editor WJARR <editor@wjarr.com>

Subject: Re: Call for Paper: World Journal of Advanced Research and Reviews, Volume 17, Issue 3

Dear Editor WJARR,

I would like to submit a research manuscript to your esteemed journal. The manuscript is entitled " Biocompatibility of Crab Shell-Derived Graft Sterilized by UV Light towards Human Gingival Fibroblast Cell Culture ", authored by Michael Josef Kridanto Kamadjaja, Bambang Agustono, and Innocencio Kresna Pratama. Hereby I also attached the copyright form, cover letter, and manuscript file. Should you require any further queries regarding the submission of the manuscript, please feel free to contact me.

Best regards,
Michael Josef

On Sun, Mar 12, 2023 at 11:33 AM Editor WJARR <editor@wjarr.com> wrote:

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To: michael josef kridanto kamadjaja <michael-j-k-k@fkg.unair.ac.id>

Subject: Re: New Manuscript to Submit

Dear Dr. Michael Josef Kridanto Kamadjaja,

I hope this email finds you well.

The manuscript

"The Effect of Scaffold Hydroxyapatite derived from Portunus pelagicus Shell on the Expression of Fibroblast Growth Factor-2 (FGF-2) and Bone Morphogenetic Proteins-2 (BMP -2) in the Extraction Sockets of Cavia cobaya" has gone through the process of peer review of the journal, the reviewers comments are attached to this email.

In consideration of the Reviewers' appreciation, the manuscript has been recommended for publication conditional to minor changes, so we hope you make the suggested changes and / or justify your decision not to. The comments of the reviewers are few, with mostly a request to strengthen the introduction and justify why the study was conducted.

Starting today, you have 30 days to send the new version of the manuscript. Please highlight changes performed to the new version of the text in color, in order to ease tracking. If you need more time, please write to us. We appreciate your patience during this lengthy review process.

Along with your corrected manuscript, you must send a response letter to each reviewer comment. A detailed response to the reviewers' comments is crucial.

I take this opportunity to thank you for your patience and to apologize for the long period of time this process took.

Looking forward to a new version of this manuscript.

Best regards,

Celia A. Lima, PhD

Editor-in-Chief

Journal of Oral Research

El mar, 28 jun 2022 a las 11:03, Editor J Oral Res (<journal@joralres.com>) escribió:

Dear Dr. Michael Josef Kridanto Kamadjaja

Hope you are doing well. I absolutely can understand your frustration regarding this manuscript. It has been a long time under revision. So far there is one review ready, positive in tone. As soon as I have a second review we will be able to have a final resolution.

best regards,

Celia A. Lima, PhD

Editor-in-Chief

Journal of Oral Research

El mar, 28 jun 2022 a las 0:08, michael josef kridanto kamadjaja (<michael-j-k-k@fkg.unair.ac.id>) escribió:

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It's been 4 months since your last email and almost one year since my first submission. Could you please give me information regarding the status of my manuscript?

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> Dear Dr. Michael Josef Kridanto Kamadjaja

> The manuscript is still under peer review, I am aware that many months have passed and I appreciate your patience.

> I hope to have a resolution soon for you, but I really cannot tell you right now how long it will take for peer review to complete.

> As soon as we have enough reviews we will let you know, hoping to have better news soon.

> Best wishes,

>

> Celia A. Lima, PhD

> Editor-in-Chief

> Journal of Oral Research

>

>

> El lun, 7 feb 2022 a las 2:43, michael josef kridanto kamadjaja (<michael-j-k-k@fkg.unair.ac.id>) escribió:

>>

>> Dear Celia A. Lima, PhD

>> Editor-in-Chief

>> Journal of Oral Research,

>>

>> I wonder if there are any updates regarding my manuscript. Three

>> months have passed since your last email. Could you please give me the

>> information update?

>> Thank you for your help.

>>

>> Regards,

>> Michael Josef Kridanto Kamadjaja

>>

>> On Wed, Nov 3, 2021 at 1:57 AM Editor J Oral Res <journal@joralres.com> wrote:

>>>

>>> Dear Dr. Michael Josef Kridanto Kamadjaja

>>> Hope you are doing well.

>>> First, allow me to apologize for the delay in providing an editorial decision. We received many more manuscripts than expected during September.

>>> The manuscript "The Effect of Scaffold Hydroxyapatite derived from Portunus pelagicus Shell on the Expression of Fibroblast Growth Factor-2 (FGF-2) and Bone Morphogenetic Proteins-2 (BMP -2) in the Extraction Sockets of Cavia cobaya" has been editorially approved to enter peer review.

>>> We are a small and slow journal, so please expect at least 3 months for this process to take place. I appreciate your patience during this time, but I remain attentive to inquiries via email if you need any updates or additional information.

>>> I am very sorry for the delay.

>>> Best regards,

>>>

>>> Celia A. Lima, PhD

>>> Editor-in-Chief

>>> Journal of Oral Research

>>>

>>>

>>> El jue, 28 oct 2021 a las 19:03, Editor J Oral Res (<journal@joralres.com>) escribió:

>>>>

>>>> Dear Dr. Michael Josef Kridanto Kamadjaja

>>>> Hope you are doing well. I am very sorry for the long delay in getting back to you with an answer. We were overwhelmed with manuscripts during September, and are still processing them. I am sorry that you had to wait so long. I will have an editorial decision within a couple of days!

>>>> Best wishes,

>>>>

>>>> Celia A. Lima, PhD

>>>> Editor-in-Chief

>>>> Journal of Oral Research

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>>>>

>>>> El mar, 19 oct 2021 a las 3:02, michael josef kridanto kamadjaja (<michael-j-k-k@fkg.unair.ac.id>) escribió:

>>>>>

>>>>> Dear Editor in Chief of Journal of Oral Research

>>>>> Celia A. Lima, PhD

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>> >>> I would like to ask about the current status of my manuscript entitled
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>> >>> Shell on the Expression of Fibroblast Growth Factor-2 (FGF-2) and Bone
>> >>> Morphogenetic Proteins-2 (BMP -2) in the Extraction Sockets of Cavia
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>> >>> > Dear author,

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manuscripts will start being processed today and a first editorial decision will be sent to you
within the next four weeks. If you have not received an editorial decision by the end of
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manuscritos comenzarán a procesarse hoy y se le enviará una primera decisión editorial dentro
de las próximas cuatro semanas. Si no ha recibido una decisión editorial a finales de
septiembre, escribanos por correo electrónico. Saludos cordiales,

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>> >>> > Journal of Oral Research

>> >>> >

>> >>> >

>> >>> > El lun, 30 ago 2021 a las 2:40, michael josef kridanto kamadjaja (<michael-j-k-k@fkg.unair.ac.id>) escribió:

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>> >>> >> Please kindly allow me to introduce myself. I am Dr. Michael Josef

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>> >>> >> authored by me, Dr. Sherman, and Gigih. Hereby I also upload several
>> >>> >> files to encourage the manuscript.
>> >>> >> If you have any questions regarding the manuscript, please let me know.
>> >>> >>
>> >>> >> Sincerely,
>> >>> >> Michael Josef Kridanto Kamadjaja

Sent from my Galaxy

----- Original message -----

From: Editor J Oral Res <journal@joralres.com>

Date: 8/7/22 17:18 (GMT+07:00)

To: michael josef kridanto kamadjaja <michael-j-k-k@fkg.unair.ac.id>

Subject: Re: New Manuscript to Submit

Dear Dr. Michael Josef Kridanto Kamadjaja,

I hope this email finds you well.

The manuscript

"The Effect of Scaffold Hydroxyapatite derived from Portunus pelagicus Shell on the Expression of Fibroblast Growth Factor-2 (FGF-2) and Bone Morphogenetic Proteins-2 (BMP -2) in the Extraction Sockets of Cavia cobaya" has gone through the process of peer review of the journal, the reviewers comments are attached to this email.

In consideration of the Reviewers' appreciation, the manuscript has been recommended for publication conditional to minor changes, so we hope you make the suggested changes and / or justify your decision not to. The comments of the reviewers are few, with mostly a request to strengthen the introduction and justify why the study was conducted.

Starting today, you have 30 days to send the new version of the manuscript. Please highlight changes performed to the new version of the text in color, in order to ease tracking. If you need more time, please write to us. We appreciate your patience during this lengthy review process.

Along with your corrected manuscript, you must send a response letter to each reviewer comment. A detailed response to the reviewers' comments is crucial.

I take this opportunity to thank you for your patience and to apologize for the long period of time this process took.

Looking forward to a new version of this manuscript.

Best regards,

Celia A. Lima, PhD

Editor-in-Chief

Journal of Oral Research

El mar, 28 jun 2022 a las 11:03, Editor J Oral Res (<journal@joralres.com>) escribió:

Dear Dr. Michael Josef Kridanto Kamadjaja

Hope you are doing well. I absolutely can understand your frustration regarding this manuscript.

It has been a long time under revision. So far there is one review ready, positive in tone. As soon as I have a second review we will be able to have a final resolution.

best regards,

Celia A. Lima, PhD

Editor-in-Chief

Journal of Oral Research

El mar, 28 jun 2022 a las 0:08, michael josef kridanto kamadjaja (<michael-j-k-k@fkg.unair.ac.id>) escribió:

Dear Editor in Chief,

It's been 4 months since your last email and almost one year since my first submission. Could you please give me information regarding the status of my manuscript?

Thank you for your time and consideration

Regards,

Michael Josef Kridanto Kamadjaja

On Mon, Feb 7, 2022 at 10:44 PM Editor J Oral Res <journal@joralres.com> wrote:

>

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>> >>> >> Sincerely,
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Sent from my Galaxy

----- Original message -----

From: michael josef kridanto kamadjaja <michael-j-k-k@fkg.unair.ac.id>

Date: 3/20/23 13:09 (GMT+07:00)

To: editor@wjarr.com

Subject: Re: WJARR-2023-0438 Article proof for final check and approval

Dear Managing Editor

World Journal of Advaned Research and Reviews (WJARR)

I would like to re-send the revised file of the manuscript along with the author's query form.

Should you have any other queries regarding this manuscript, please let me know

Best regards,

Michael Josef Kridanto Kamadjaja

On Sat, Mar 18, 2023 at 6:57 PM Editor WJARR <editor@wjarr.com> wrote:

>

> Dear Author,

> Greetings for the day...

>

> We are grateful for your association with us. Please find herewith attached final edited version (as a word file) of your manuscript (ref no. WJARR-2023-0438) entitled "Biocompatibility of Crab Shell-Derived Graft Sterilized by UV Light towards Human Gingival Fibroblast Cell Culture" which is accepted for publication in World Journal of Advanced Research and Reviews (WJARR).

>

> Download Author proof copy of your manuscript:

<https://wjarr.com/sites/default/files/Attached%20Files/WJARR-2023-0438%20...>

> Download Author query form: <https://wjarr.com/content/downloads>

>

> Special Note:

>

> Provide the name(s) of authors as First Name (Given name)-Middle Name- Last name (Family name/Surname) for each author and check that all names are accurately spelled. It is important from Indexing purpose.

> Authors should write complete name of their department.

> Scientific names of plant/animal/microbes should be written in Italics and follow nomenclature rules like Genus species. Check this throughout the manuscript.

> Author should put °C sign with one space after numerical as 50 °C. Do this throughout the

manuscript.

> While writing numerical results in table author should use decimal point instead of comma. Ex Table 2.

> Provide X and Y axis label for figure 5.

> Author should provide an appropriate conclusion to the article. Write conclusion as single para. Conclusion should be concise, informative and can be started with summarizing outcome of the study in 1-2 sentence and ended with one line stating: how this study will benefit to the society and way forward.

> Provide appropriate disclosure of conflict of interest in the manuscript.

> While writing reference citation in the main text at the end of sentence, author has put full stop before square bracket “[1]”. It should be corrected by writing full stop after square bracket as “[1].”. Check and correct throughout the manuscript.

> Ensure that, all the references appearing in the text should be enlisted at the end in reference section and vice versa.

>

> Without this we will not able to process your manuscript further.

>

> We hereby request you that,

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> 3. Use this proof for checking the typesetting, editing, completeness and correctness of the text, tables and figures.

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> 6. Your manuscript will not be further processed for publication until and unless we receive your final approved article proof and Author query form.

> 7. It is responsibility to author to check each and every word and spelling including italic and normal formatting of specific names. No changes will be accepted after this. If any changes are expected after publication of manuscript, author will have to pay charges accordingly.

>

> We would appreciate to receive your corrected proof as a word file by e-mail within stipulated time period so that we can process your article quickly and efficiently.

>

> Thank you for submitting your work to this journal.

>

> If you need more information, please do not hesitate to contact us.

>

> With Best Regards,

> Managing Editor

> World Journal of Advanced Research and Reviews (WJARR)

> editor@wjarr.com