

[Polymers] Manuscript ID: polymers-1912868 - Submission Received

Dari: Editorial Office (polymers@mdpi.com)

Kepada: anieksb@yahoo.co.id

Cc: junaidi-k@ff.unair.ac.id; samirah@ff.unair.ac.id; chrismawan-a@ff.unair.ac.id; maria.apriliani.gani-2019@ff.unair.ac.id; bulan.rhea.kaulika-2018@ff.unair.ac.id; huzaifah.arofik-2018@ff.unair.ac.id; rizka.nanda.sadiwa-2018@ff.unair.ac.id; indri.lestari-2018@ff.unair.ac.id; yusuf.alif.pratama-2016@ff.unair.ac.id; erreza-rahadiansyah@fk.unair.ac.id; imam_susilo@fk.unair.ac.id

Tanggal: Minggu, 28 Agustus 2022 23.19 GMT+7

Dear Dr. Budiatin,

Thank you very much for uploading the following manuscript to the MDPI submission system. One of our editors will be in touch with you soon.

Journal name: Polymers

Manuscript ID: polymers-1912868

Type of manuscript: Article

Title: Acceleration of bone fracture healing through the used of bovine hydroxyapatite or calcium lactate oral and implant bovine hydroxyapatite–gelatin on bone defect animal model

Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza Rahadiansyah, Imam Susilo

Received: 28 August 2022

E-mails: anieksb@yahoo.co.id, junaidi-k@ff.unair.ac.id, samirah@ff.unair.ac.id, chrismawan-a@ff.unair.ac.id, maria.apriliani.gani-2019@ff.unair.ac.id, bulan.rhea.kaulika-2018@ff.unair.ac.id, huzaifah.arofik-2018@ff.unair.ac.id, rizka.nanda.sadiwa-2018@ff.unair.ac.id, indri.lestari-2018@ff.unair.ac.id, yusuf.alif.pratama-2016@ff.unair.ac.id, erreza-rahadiansyah@fk.unair.ac.id, imam_susilo@fk.unair.ac.id

Submitted to section: Biomacromolecules, Biobased and Biodegradable Polymers,

https://www.mdpi.com/journal/polymers/sections/Biomacromol_Biobased_Biodegradable_Polymers

Biomaterials for Tissue Engineering and Regeneration

https://www.mdpi.com/journal/polymers/special_issues/Biomaterials_Tissue_Engineering_and_Regeneration

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https://susy.mdpi.com/user/manuscripts/review_info/37bd87fd2ed47073bba6b739a7975195

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Polymers Editorial Office

St. Alban-Anlage 66, 4052 Basel, Switzerland

E-Mail: polymers@mdpi.com

Tel. +41 61 683 77 34

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[Polymers] Manuscript ID: polymers-1912868 - Revision Request before Peer Review

Dari: Polymers Editorial Office (polymers@mdpi.com)

Kepada: anieksb@yahoo.co.id

Cc: junaidi-k@ff.unair.ac.id; samirah@ff.unair.ac.id; chrismawan-a@ff.unair.ac.id; maria.apriliyani.gani-2019@ff.unair.ac.id; bulan.rhea.kaulika-2018@ff.unair.ac.id; huzaifah.arofik-2018@ff.unair.ac.id; rizka.nanda.sadiwa-2018@ff.unair.ac.id; indri.lestari-2018@ff.unair.ac.id; yusuf.alif.pratama-2016@ff.unair.ac.id; erreza-rahadiansyah@fk.unair.ac.id; imam_susilo@fk.unair.ac.id; polymers@mdpi.com

Tanggal: Senin, 29 Agustus 2022 09.22 GMT+7

Dear Dr. Budiatin,

Thank you very much for submitting the following manuscript:

Manuscript ID: polymers-1912868

Title: Acceleration of bone fracture healing through the used of bovine hydroxyapatite or calcium lactate oral and implant bovine hydroxyapatite–gelatin on bone defect animal model

Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan Ardianto, Maria Apriliyani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza Rahadiansyah, Imam Susilo

Received: 28 August 2022

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We hope that you will be able to correct these issues soon and resubmit your manuscript in the near future. Please note that your manuscript will receive a new submission date after resubmission.

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Polymers Editorial Office
5.5 Creative Industry Park, 430064 Wuhan, China
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[Polymers] Manuscript ID: polymers-1912868 - Manuscript Resubmitted

Dari: Polymers Editorial Office (polymers@mdpi.com)

Kepada: anieksb@yahoo.co.id

Cc: junaidi-k@ff.unair.ac.id; samirah@ff.unair.ac.id; chrismawan-a@ff.unair.ac.id; maria.apriliani.gani-2019@ff.unair.ac.id; bulan.rhea.kaulika-2018@ff.unair.ac.id; huzaifah.arofik-2018@ff.unair.ac.id; rizka.nanda.sadiwa-2018@ff.unair.ac.id; indri.lestari-2018@ff.unair.ac.id; yusuf.alif.pratama-2016@ff.unair.ac.id; erreza-rahadiansyah@fk.unair.ac.id; imam_susilo@fk.unair.ac.id

Tanggal: Senin, 29 Agustus 2022 11.04 GMT+7

Dear Dr. Budiatin,

Thank you very much for resubmitting the modified version of the following manuscript:

Manuscript ID: polymers-1912868

Type of manuscript: Article

Title: Acceleration of bone fracture healing through the used of bovine hydroxyapatite or calcium lactate oral and implant bovine hydroxyapatite–gelatin on bone defect animal model

Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza Rahadiansyah, Imam Susilo

Received: 29 August 2022

E-mails: anieksb@yahoo.co.id, junaidi-k@ff.unair.ac.id, samirah@ff.unair.ac.id, chrismawan-a@ff.unair.ac.id, maria.apriliani.gani-2019@ff.unair.ac.id, bulan.rhea.kaulika-2018@ff.unair.ac.id, huzaifah.arofik-2018@ff.unair.ac.id, rizka.nanda.sadiwa-2018@ff.unair.ac.id, indri.lestari-2018@ff.unair.ac.id, yusuf.alif.pratama-2016@ff.unair.ac.id, erreza-rahadiansyah@fk.unair.ac.id, imam_susilo@fk.unair.ac.id

Submitted to section: Biomacromolecules, Biobased and Biodegradable Polymers,

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A member of the editorial office will be in touch with you soon regarding progress of the manuscript.

Kind regards,

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Postfach, CH-4020 Basel, Switzerland

Office: St. Alban-Anlage 66, CH-4052 Basel

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Re: [Polymers] Manuscript ID: polymers-1912868 - Revision Request before Peer Review

Dari: Claire Zhang (claire.zhang@mdpi.com)

Kepada: anieksb@yahoo.co.id

Cc: polymers@mdpi.com

Tanggal: Senin, 29 Agustus 2022 11.25 GMT+7

Dear Dr. Budiatin,

Thank you for your support! We noticed that the figures in the main text still don't match the description. Could you please check and send us the word version?

Looking forward to hearing from you again.

Kind regards,

Ms. Claire Zhang
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Journal Section "Polymer Applications"
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> Dear Dr. Budiatin,

>

> Thank you very much for submitting the following manuscript:

>

> Manuscript ID: polymers-1912868

> Title: Acceleration of bone fracture healing through the used of bovine

> hydroxyapatite or calcium lactate oral and implant bovine

> hydroxyapatite–gelatin on bone defect animal model

> Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan

> Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah

> Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza

> Rahadiansyah, Imam Susilo

> Received: 28 August 2022

>

> We have decided that the article requires improvement before it can be

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> of Section "Polymer Applications"
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> Polymers Editorial Office
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> E-Mail: polymers@mdpi.com

Re: [Polymers] Manuscript ID: polymers-1912868 - please provide official email and ethical statement

Dari: Aniek Sb (anieksb@yahoo.co.id)

Kepada: greta.zhao@mdpi.com

Tanggal: Senin, 29 Agustus 2022 14.26 GMT+7

Dear
Ms. Greta Zhao
Assistant Editor
Polymers Editorial Office

Hope you are in a good health

Regarding to your questions, hereby our answer

1. The official email of our corresponding author is anieksby@yahoo.co.id
2. The ethical statement is attached by this mail

Thank you for your questions. If there are any problem regarding our manuscript, do not hesitate to contact me

Best Regards,
Aniek Setiya Budiati
Department of Pharmacy Practice
Faculty of Pharmacy
Universitas Airlangga
Indonesia

Pada Senin, 29 Agustus 2022 13.59.58 WIB, Greta Zhao <greta.zhao@mdpi.com> menulis:

Dear Dr. Budiati,

Thank you for your submission to *Polymers*!

1. Could you please provide us the official email of corresponding author?
2. Could you please provide us the official file of ethical statement?

Thank you for your cooperation. Looking forward to your reply.

Best regards,
Ms. Greta Zhao
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On 2022/8/29/星期一 14:55, Greta Zhao wrote:

Dear Dr. Budiatin,

Your paper has been assigned to Greta Zhao, who will be your main point of contact as your paper is processed further.

Journal: Polymers

Manuscript ID: polymers-1912868

Title: Acceleration of bone fracture healing through the used of bovine hydroxyapatite or calcium lactate oral and implant bovine hydroxyapatite-gelatin on bone defect animal model

Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza Rahadiansyah, Imam Susilo

Received: 29 August 2022

E-mails: anieksb@yahoo.co.id, junaidi-k@ff.unair.ac.id, samirah@ff.unair.ac.id, chrismawan-a@ff.unair.ac.id, maria.apriliani.gani-2019@ff.unair.ac.id, bulan.rhea.kaulika-2018@ff.unair.ac.id, huzaiyah.arofik-2018@ff.unair.ac.id, rizka.nanda.sadiwa-2018@ff.unair.ac.id, indri.lestari-2018@ff.unair.ac.id, yusuf.alif.pratama-2016@ff.unair.ac.id, erreza-rahadiansyah@fk.unair.ac.id, imam_susilo@fk.unair.ac.id

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Cc: junaidi-k@ff.unair.ac.id; samirah@ff.unair.ac.id; chrismawan-a@ff.unair.ac.id; maria.apriliani.gani-2019@ff.unair.ac.id; bulan.rhea.kaulika-2018@ff.unair.ac.id; huzaifah.arofik-2018@ff.unair.ac.id; rizka.nanda.sadiwa-2018@ff.unair.ac.id; indri.lestari-2018@ff.unair.ac.id; yusuf.alif.pratama-2016@ff.unair.ac.id; erreza-rahadiansyah@fk.unair.ac.id; imam_susilo@fk.unair.ac.id; polymers@mdpi.com

Tanggal: Senin, 26 September 2022 07.22 GMT+7

Dear Dr. Budiatin,

We sent a revision request for the following manuscript on 17 September 2022.

Manuscript ID: polymers-1912868

Type of manuscript: Article

Title: Acceleration of bone fracture healing through the used of bovine hydroxyapatite or calcium lactate oral and implant bovine hydroxyapatite–gelatin on bone defect animal model

Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza Rahadiansyah, Imam Susilo

Received: 29 August 2022

E-mails: anieksb@yahoo.co.id, junaidi-k@ff.unair.ac.id, samirah@ff.unair.ac.id, chrismawan-a@ff.unair.ac.id, maria.apriliani.gani-2019@ff.unair.ac.id, bulan.rhea.kaulika-2018@ff.unair.ac.id, huzaifah.arofik-2018@ff.unair.ac.id, rizka.nanda.sadiwa-2018@ff.unair.ac.id, indri.lestari-2018@ff.unair.ac.id, yusuf.alif.pratama-2016@ff.unair.ac.id, erreza-rahadiansyah@fk.unair.ac.id, imam_susilo@fk.unair.ac.id

Submitted to section: Biomacromolecules, Biobased and Biodegradable Polymers,

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Biomaterials for Tissue Engineering and Regeneration

https://www.mdpi.com/journal/polymers/special_issues/Biomaterials_Tissue_Engineering_and_Regeneration

May we kindly ask you to update us on the progress of your revisions? If you have finished your revisions, please upload the revised version together with your responses to the reviewers as soon as possible.

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Thank you in advance for your kind cooperation and we look forward to hearing from you soon.

Kind regards,
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Assistant Editor
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Re: polymers-1912868--please provide detailed reply to reviewer#1 and reduce repetition rate

Dari: Aniek Sb (anieksb@yahoo.co.id)

Kepada: greta.zhao@mdpi.com

Tanggal: Rabu, 28 September 2022 10.13 GMT+7

Ms. Greta Zhao
Assistant Editor
Polymers Editorial Office

Hereby this mail, I have attached the detailed reply to reviewer#1 and the revisions in the manuscript with yellow color highlight. Other than that, We have revised part 2.7 and 2.8 to reduce the repetition rate.

If there's any problems regarding the file or any else that we have to revise, do not hesitate to contact me.

Best regards,

Dr. apt. Aniek Setiya Budiya, M.Si.
Department of Pharmacy Practice
Faculty of Pharmacy
Universitas Airlangga
Indonesia

Pada Senin, 26 September 2022 15.00.12 WIB, Greta Zhao <greta.zhao@mdpi.com> menulis:

Dear Dr. Budiatin,

For manuscript polymers-1912868, could you please provide us a **detailed reply to reviewer#1 and mark out your revisions in the manuscript with highlight?**

Please find **reviewer#1 comments and your revised manuscript at the attachment.**

Besides, could you please revise part 2.7 and 2.9 to reduce repetition rate?

2.7. **Haematoxylin and Eosin Staining** 11

The histological examination started with processing the paraffin blocks by dehydrating with serial alcohol (70% to 100%) for 60 minutes each. Subsequently, the clearing was performed with xylol three times for 15 minutes each. After that, the infiltration process was carried out with paraffin liquid for three times of transfer for 60 minutes each in an incubator at 60 °C. The tissue is then implanted in paraffin liquid and cooled at room temperature. Each paraffin block was then cut using a rotary microtome with a thickness of 4-6 μm. The cell morphology was stained with *haematoxylin* and *eosin* dye. The slide is dipped in xylol three times for 5 minutes each and is hydrated with alcohol (96% to 70% alcohol) for 2 minutes each. The slides were then rinsed using running water for 10 minutes, put in *Mayer's haematoxylin* for 15 minutes, rinsed under running water, and checked under a microscope. Furthermore, the slide was put in 1% eosin solution for 30 seconds, dehydrated, and cleared, followed by mounting with the EZ mount. Observations were made in 5 fields of view with a magnification of 400x, namely around the defect or implant area. The results obtained are the number of each bone cell including osteoblasts, osteoclasts and osteocytes. 21

2.8 **Immunohistochemistry** 21

The immunohistochemical technique was used to stain VEGF and osteocalcin immunopositive cells. The slide was deparaffinized with xylol three times for 5 minutes each, followed by rehydration with alcohol (absolute alcohol to 70%) for 4 minutes each, and washed with running water for 5 minutes. After that, the slide was blocked with 0.5% endogenous peroxidase for 5 minutes and washed with running water for 5 minutes. After that, an antigen retrieval decloaking chamber was performed, cooled for 20 minutes, and washed with PBS for 3 minutes. After that, sniper blocking was done for 15 minutes. Then the slide was incubated with rabbit anti-rat VEGF primer (cat. no. PA1-21796, Thermo Fisher Scientific, 1:100 dilution) and washed in PBS for 3 minutes. After that, the universal link was done for 20 minutes, and the slide was washed in PBS for 3 minutes. Then, Trekavidin-HRP Label was carried out for 10 minutes and washed in PBS for 3 minutes. After that, the slide was reacted with Chromogen DAB + Buffer Substrate for 2 to 5 minutes, followed by rinsing under running water for 5 minutes. Then, the slide was counterstained with *haematoxylin* for 1 to 2 minutes, followed by rinsing (twice) under running water for 5 minutes each. After that, the slide was dehydrated with alcohol (70% to absolute alcohol) for 5 minutes each, followed by clearing with xylol three times for 5 minutes each. Finally, mounting was carried out on the slide (ecomount) and covered with a cover glass. 21

Looking forward to your reply.


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Best regards,
Ms. Greta Zhao
Assistant Editor
Polymers Editorial Office

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 2_Corrected Manuscript_Acceleration of Bone Fracture.docx
1.6MB

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21.7kB

Re: [Polymers] Manuscript ID: polymers-1912868 -revision time extended to 5 October

Dari: Greta Zhao (greta.zhao@mdpi.com)

Kepada: anieksb@yahoo.co.id

Cc: polymers@mdpi.com

Tanggal: Jumat, 30 September 2022 14.31 GMT+7

Dear Dr. Budiatin,

Thank you for your timely reply.

We will extend the time to **5 October** for you. Please send us the revised manuscript with highlight when you finish revising.

Please feel free to contact us if you have other questions.

Best regards,
Ms. Greta Zhao
Special Issue Editor
Polymers Editorial Office

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On 2022/9/30/星期五 15:09, Aniek Sb wrote:

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Ms. Greta Zhao
Assistant Editor
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I hope you are in good health

About the materials characterization, we are still looking for our data and will submit the data soon after our data collection. I hope it will be submitted at least next week or we will inform you soon if we meet any difficulties.

Thank you in advance

Best regards,

Dr. apt. Aniek Setiya Budiyan, M.Si.

Department of Pharmacy Practice
Faculty of Pharmacy
Universitas Airlangga
Indonesia

Pada Jumat, 30 September 2022 08.06.10 WIB, Greta Zhao <greta.zhao@mdpi.com> menulis:

Dear Dr. Budiatin,

Greetings of the nice day!

For manuscript polymers-1912868, we would like to let you know that we could provide more time for required experiments of materials characterization since you are began your work already. Could you please let us know your opinion?

Thank you for your cooperation. Looking forward to your reply.

Best regards,
Ms. Greta Zhao
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On 2022/8/29/星期一 14:55, Greta Zhao wrote:

> Dear Dr. Budiatin,
>
> Your paper has been assigned to Greta Zhao, who will be your main point of
> contact as your paper is processed further.
>
> Journal: Polymers
> Manuscript ID: polymers-1912868
> Title: Acceleration of bone fracture healing through the used of bovine
> hydroxyapatite or calcium lactate oral and implant bovine
> hydroxyapatite–gelatin on bone defect animal model
> Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Christmawan
> Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah
> Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza
> Rahadiansyah, Imam Susilo
>
>
> Received: 29 August 2022
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[Polymers] Manuscript ID: polymers-1912868 - Final Proofreading Before Publication

Dari: Polymers Editorial Office (polymers@mdpi.com)

Kepada: anieksb@yahoo.co.id

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Type of manuscript: Article

Title: Acceleration of bone fracture healing through the used of bovine hydroxyapatite or calcium lactate oral and implant bovine hydroxyapatite–gelatin on bone defect animal model

Authors: Aniek Setiya Budiatin *, Junaidi Khotib, Samirah Samirah, Chrismawan Ardianto, Maria Apriliani Gani, Bulan Rhea Kaulika Hadinar Putri, Huzaifah Arofik, Rizka Nanda Sadiwa, Indri Lestari, Yusuf Alif Pratama, Erreza Rahadiansyah, Imam Susilo

Received: 29 August 2022

E-mails: anieksb@yahoo.co.id, junaidi-k@ff.unair.ac.id, samirah@ff.unair.ac.id, chrismawan-a@ff.unair.ac.id, maria.apriliani.gani-2019@ff.unair.ac.id, bulan.rhea.kaulika-2018@ff.unair.ac.id, huzaifah.arofik-2018@ff.unair.ac.id, rizka.nanda.sadiwa-2018@ff.unair.ac.id, indri.lestari-2018@ff.unair.ac.id, yusuf.alif.pratama-2016@ff.unair.ac.id, erreza-rahadiansyah@fk.unair.ac.id, imam_susilo@fk.unair.ac.id

Submitted to section: Biomacromolecules, Biobased and Biodegradable Polymers,

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Dari: polymers@mdpi.com

Kepada: anieksb@yahoo.co.id; junaidi-k@ff.unair.ac.id; samirah@ff.unair.ac.id; chrismawan-a@ff.unair.ac.id; maria.apriliiani.gani-2019@ff.unair.ac.id; bulan.rhea.kaulika-2018@ff.unair.ac.id; huzaifah.arofik-2018@ff.unair.ac.id; rizka.nanda.sadiwa-2018@ff.unair.ac.id; indri.lestari-2018@ff.unair.ac.id; yusuf.alif.pratama-2016@ff.unair.ac.id; erreza-rahadiansyah@fk.unair.ac.id; imam_susilo@fk.unair.ac.id

Cc: billing@mdpi.com; website@mdpi.com; polymers@mdpi.com; rumi.yan@mdpi.com; greta.zhao@mdpi.com

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Dear Authors,

We are pleased to inform you that your article "Acceleration of Bone Fracture Healing through the Use of Bovine Hydroxyapatite or Calcium Lactate Oral and Implant Bovine Hydroxyapatite–Gelatin on Bone Defect Animal Model" has been published in Polymers as part of the Special Issue Biomaterials for Tissue Engineering and Regeneration and is available online:

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