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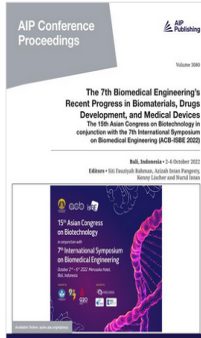
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RESEARCH ARTICLE | MARCH 07 2024

The effectiveness of grape seed extract on the liver and heart organs of white rats exposed to formaldehyd on malondialdehyd and histopathology

Ana Hidayati Mukaromah ; Yulita Maulani; Sri Suhartati; Arifiani Agustini Amalia; Mudyawati Kamaruddin; Vani Intan Krismoni Wiyarti; Fandhi Adi Wardoyo

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Excessive formaldehyde exposure can lead to increase oxidative stress that causes damage to body cells. The purpose of this research is to reveal the effectiveness of grape seed ethanol extract on malondialdehyde levels and histopathology in liver and heart rats after exposure to oral formaldehyde. 30 male Wistar rats were divided into 5 groups. For 21 days all groups were exposed to 5mg/200g formaldehyde except the negative control group. Three treatment groups received ethanolic extracts of grape seeds at doses of 35, 70, and 140mg/200g BWrats/day, respectively. The results showed that the administration of EBA can improve the liver exposed to oral formaldehyde.

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The Effectiveness of Grape Seed Extract on The Liver and Heart Organs of White Rats Exposed to Formaldehyd on Malondialdehyd and Histopathology

Ana Hidayati Mukaromah^{1, a)}, Yulita Maulani^{1, b)}, Sri Suhartati^{1, c)}, Arifiani Agustin Amalia^{1, d)}, Mudyawati Kamaruddin^{1, e)}, Vani Intan Krismoni Wiyarti^{2, f)}, Fandhi Adi Wardoyo^{3, g)}

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Abstract. Excessive formaldehyde exposure can lead to increase oxidative stress that causes damage to body cells. The purpose of this research is to reveal the effectiveness of grape seed ethanol extract on malondialdehyde levels and histopathology in liver and heart rats after exposure to oral formaldehyde. 30 male Wistar rats were divided into 5 groups. For 21 days all groups were exposed to 5mg/200g formaldehyde except the negative control group. Three treatment groups received ethanolic extracts of grape seeds at doses of 35, 70, and 140mg/200g BWrats/day, respectively. The results showed that the administration of EBA can improve the liver exposed to oral formaldehyde. MDA levels, an indication of oxidative stress, have decreased, and liver histopathology has improved according to *manja roenigk* scoring. EBA treatment had no direct impact on the MDA levels and recovery of heart organs that had been exposed to oral formaldehyde.

Keywords: Grape seed ethanol extract, liver, heart

INTRODUCTION

The unrestricted use of the dangerous chemical formaldehyde as a food additive is prohibited. Formaldehyde can be ingested by people orally through food preservatives, inhalation, or direct skin contact. According to the International Program on Chemical Safety (IPCS), the maximum amount of formaldehyde that the body may tolerate is 0.1 mg/L in drinking water or 0.2 mg in ingestion. Malondialdehyde, the byproduct of the lipid peroxidation chain reaction, is a sign of oxidative stress. Giving exogenous antioxidants can lower the rise in MDA levels, which are directly inversely proportional to the rise in free radicals [1,2,3].

One of the fruit plants that has a significant amount of resveratrol and other polyphenolic compounds that are active in a number of bodily metabolisms is red wine (*Vitis vinifera*). Because grape seed extract contains a variety of phenolic compounds, between 60 and 70 percent of the polyphenols from grapes are found in the seeds. The effectiveness of grape seed extract has been the subject of numerous investigations. The harmful effects of methionine on the heart, liver, and kidneys of laboratory rats can be lessened by grape seed extract. Rats exposed to cigarette smoke can drastically lower their MDA levels by taking grape seed extract. With a dose of 100-500 mg / 175 gBB of grape skin extract, plasma MDA levels in rats on a high cholesterol diet were likewise lowered [4,5,6].

MATERIALS AND METHODS

Upon ethical approval no 659/KEPK-FKM/UNIMUS/2022, the research was carried out in the University of Muhammadiyah Semarang's laboratory. The population consisted of male true rats (*Rattus norvegicus*) of the wistar strain that were collected from the University of Muhammadiyah Semarang's experimental animal laboratory.

In this study, different dosages of grape seed ethanol extract—35, 70, and 140 mg/BW rats/day were employed in each group. For 21 days, three groups (P1; P2; P3) were given grape seed extract at doses of 35; 70; and 140 mg/BW rat/day, respectively, with the exception of the negative control group. Oral formaldehyde was administered to all groups except the negative control group at a rate of 5mg/BW rats/day.

Preparation of the Extract of Grape Seeds

Grape seeds were cleaned, collected in a glass container, and dried for two days in an oven at 50°C. The dried grape seeds were mixed, put through a 60-mesh filter, and then put through another 100-mesh sieve. The obtained grape seed powder was weighed (47g) and macerated for 24 hours a day for 3 days in 96% ethanol in a volume that was three times the volume of the powder. In order to eliminate ethanol, the collected filtrate evaporated at 45°C. After that, place in a water bath heated to 45°C until the liquid becomes thick. Various concentrations of grape seed ethanol extract—35, 70, and 140 mg/BW rat/day—were produced [3].

Design in group

In plastic cages, the animals were arbitrarily split into five groups. There were five rats per enclosure, and they were handled as follows.

- 1- Five rats in the negative control group were fed normally.
- 2- Positive control group: consists of 5 rats treated orally with formaldehyde 5mg/BW rat for 21 days
- 3- In the First Group, there were five rats that were given 35mg/BW of grape seed extract and 5mg/BW of formaldehyde for 21 days.
- 4- The Second Group was comprised of five rats that were given 70mg/BW of grape seed extract and 5mg/BW of formaldehyde for 21 days.
- 5- The Third Group was made up of five rats that were given 140mg/BW of grape seed extract and 5mg/BW of formaldehyde for 21 days.

Kill the Animals

After getting treated for 21 days, the entire group was put to death on day 22 by having the liver and heart removed during surgery and administered an anesthetic through inhalation. The organs were then washed with physiological NaCl, placed in PBS 1x solution to measure MDA levels, and placed in 10% Neutral Buffered Formalin (NBF) fluid at a ratio of 1:10 [5,7]

Measurement of MDA and Tissue Section

The liver and heart supernatants were pipetted up to 400 ml, 1 ml of distilled water, 200 ml of 10% TCA, 200 ml of 1% TBA, and 200 ml of 1N HCl were added, and the mixture was then homogenized in a centrifuge at 3000 rpm for 10 minutes. For 10 minutes, the mixture was heated in a water bath at 95°C. The mixture was heated and subsequently chilled to room temperature. The mixture was then put into a cuvette and filtered using filter paper before the sample's absorbance was measured with a UV spectrophotometer.

The liver and heart were cut lengthwise, each organ was fixed for at least 24 hours in 10% NBF, and the histopathology tissue was processed using a tissue processor. The following procedures were carried out [8]: a- Dehydration; b- Cleaning; c- Infiltration; d- Embedding; e- Sectioning; f- Staining; and g- Mounting.

RESULTS AND DISCUSSIONS

An earlier technique to identify the presence of particular chemical components was phytochemical analysis, which was performed on the ethanol extract of red grape seeds (*Vitis vinifera*). The analysis revealed that triterpenoids, phenolic compounds, flavonoids, and tannins were present in the ethanolic extract of grape seeds [9].

The mean measurements were obtained as follows the MDA levels in each treatment group were read for absorbance:

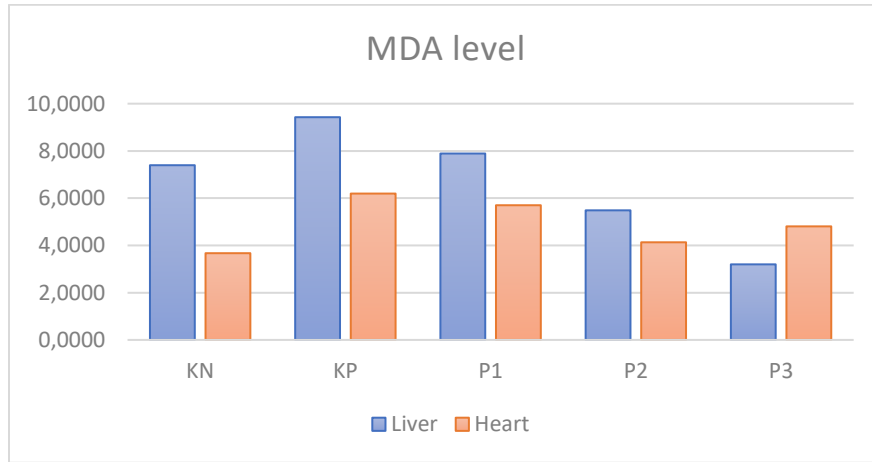


FIGURE 1. White rats' livers and hearts had reduced MDA levels.

Based on Fig 1, it was determined that the data passed the Shapiro-Wilk data normality test with a p-value of > 0.05 , indicating that they are normally distributed. With a result of 0.141 in the homogeneity test, it was determined that the data was homogeneous. Additionally, a test utilizing the one-way ANOVA method was conducted, and a result of 0.024 indicated that there was a relationship between variations in the negative control group, the positive control group, treatment 1, treatment 2, and treatment 3 on MDA levels in the liver organ. The post hoc test that produced a sig result was used to continue processing the data. The KP group has a value of 0.021 in comparison to P3, which indicates that there is a substantial difference between the two groups.

The Shapiro Wilk data normality test revealed a p-value > 0.05 , indicating that the data are normally distributed. The homogeneity test result was 0.761, which led to the conclusion that the data was homogeneous. The results of the one-way ANOVA test showed a value of 0.803 > 0.05 , indicating that there was no interaction between the MDA levels in the heart organ and variations in the negative control group, the positive control, treatment 1, treatment 2, or treatment 3.

After being exposed to oral formaldehyde at a rate of 5 mg/BW rat/day, the positive control group saw an increase in liver MDA levels in contrast to the negative control group (Table 7). Histopathological evaluations of the livers in the positive control group received lower scores than those in the negative control group (Table 11), suggesting that the livers in the positive control group were of lower quality. MDA levels rise in rats who are given sublingual formaldehyde. MDA, a result of the lipid peroxidation chain reaction, is a gauge of oxidative stress. MDA levels increase as a consequence of oxidative stress, which increases the body's free radical levels [2].

Reactive oxygen species (ROS) are among the most prevalent free radicals in the body's biological system (ROS). Exogenous ROS are typically created when the body is exposed to substances or radicals from the outside, in this case the deadly toxin formaldehyde. Superoxide ($*O_2$), hydroxyl ($*OH$), peroxy (ROO), hydrogen peroxide (H_2O_2), singlet oxygen ($1O_2$), nitric oxide (NO), peroxynitrite (ONOO), and hypochlorous acid are the components of reactive oxygen (HOCl). Superoxide is the most prevalent free radical that the body produces. It will become hydrogen peroxide from this superoxide (H_2O_2). In the propagation stage, this hydrogen will be transformed into hydroxyl radicals ($*OH$). These hydroxyl radicals disrupt cell structure and impair cell function by causing lipid peroxidation in cell membranes. Through a process known as lipid peroxidation, MDA is created. This process starts when a hydroxyl radical group (OH) removes a hydrogen atom (H) from a PUFA molecule, which is a crucial part of the phospholipids that make up cell membranes. Peroxyl radicals (ROO) are created when these lipid radicals combine with oxygen (O_2) to create MDA [10,11].

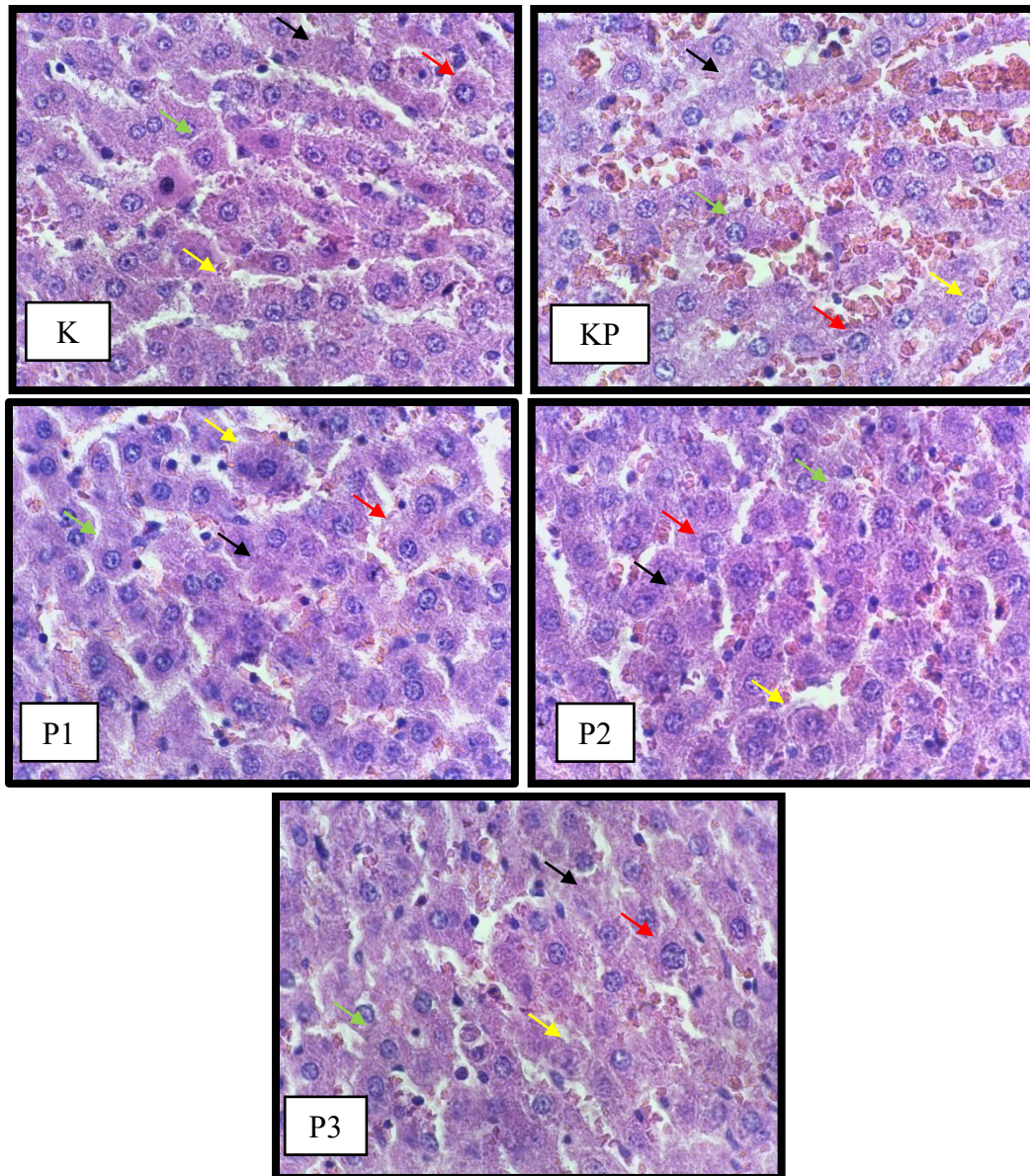


FIGURE 2. Rat liver histopathological preparations. Necrosis (black arrow), parenchymatous (yellow arrow), and hydrops are indications of cell injury (red arrow). Green arrows indicate normal tissue. Magnification 400x and HE painting.

Liver observation consisted of 100 cells spread over 4 fields of vision. The quantity of each type of cell—necrosis, deg. hydropic, deg. parenchymatous, and normal—found was multiplied by the multiplier factor (score:1/2/3/4) to determine the total amount of cells. Gathered, averaged, and an SPSS test was run.

Processed result with an average Shapiro-Wilk normality test p -value > 0.05 , indicating a regularly distributed. The result was determined to be homogeneous ($p > 0.05$) after a value of 0.056 was achieved in the homogeneity test. Afterward, the one-way ANOVA test was performed, and a result of 0.000 0.05 was obtained, indicating that there is a relationship between variations in the negative control group, the positive control group, treatments 1, 2, and 3 and MDA levels. The post hoc test that produced a sig result was used to continue processing the data. The results of the KN group with KP, P2 group with KP, and P3 group with KP are 0.05, whereas the P1 group with KP values are > 0.05 . According to these findings, each group had significant variations, with the exception of the P1 group that had KP.

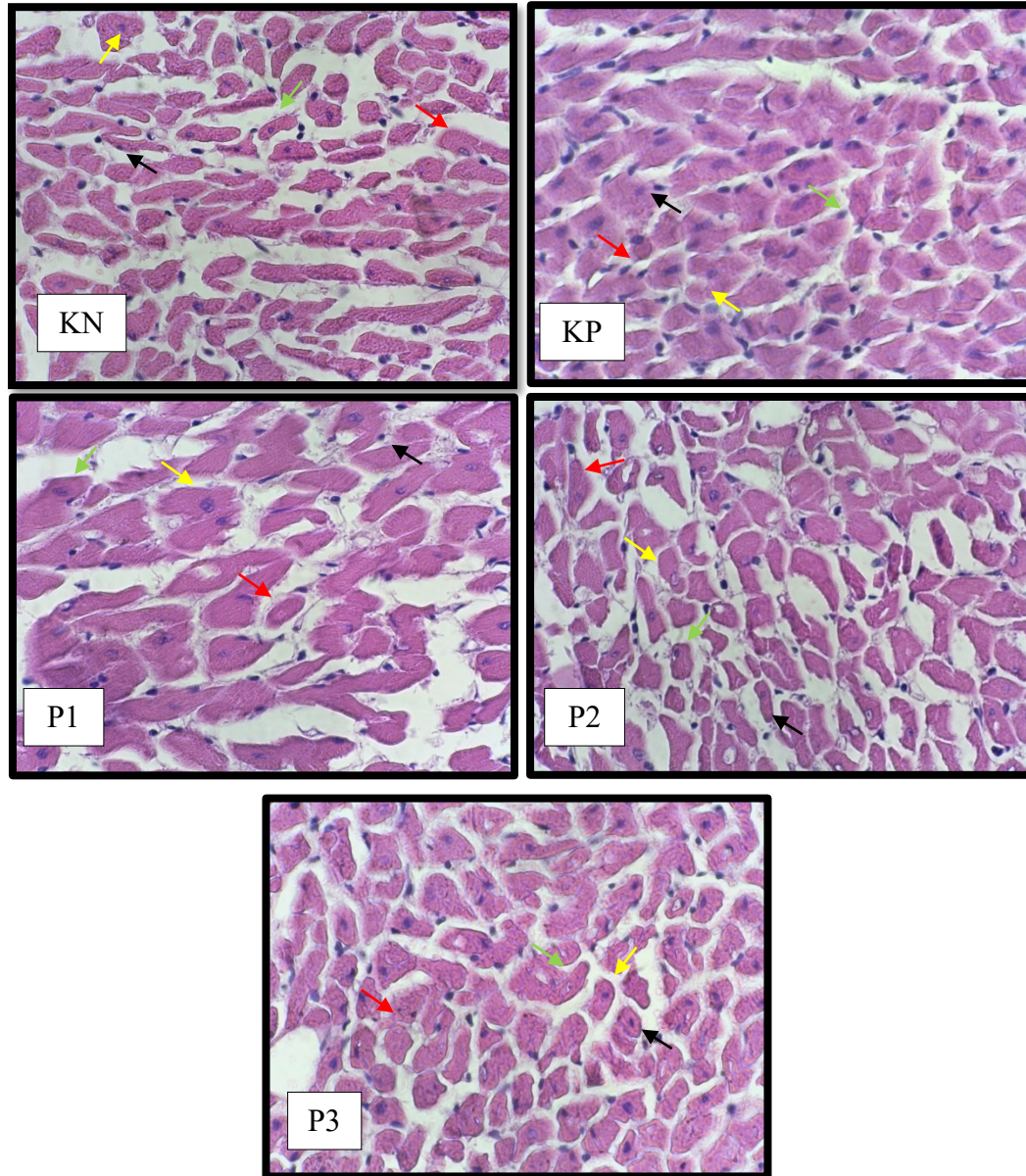


FIGURE 3. Rat heart histopathological preparations. Pyknosis (black arrow), karyorrhexis (yellow arrow), and karyolysis are indications of cell injury (red arrow). Green arrows indicate healthy cells. Magnification 400x and HE painting.

The percentage of normal heart cells was determined using the formula based on observations of the heart organs from each field of view, and a normalcy test was then carried out. The Shapiro Wilk normality test was found to have a p-value > 0.05 , indicating that the data was normally distributed. The homogeneity test result was 0.127, which led to the conclusion that the results were homogeneous ($p > 0.05$). Then, using a one-way ANOVA test, it was determined that there was no significant difference in the alterations in normal rat heart muscle cells between the negative control group, the positive control, treatments 1, 2, and 3. The p value for this test was 0.370.

The results of this study revealed that red grape seed extract treatment had a substantial impact on lowering MDA levels and enhancing cell structure in the livers of rats given oral formaldehyde. This is consistent with Oktaviananda's research from 2017 on how administering grape seed extract (*Vitis vinifera*) to white wistar rats exposed to cigarette smoke affected MDA levels and bronchial histology. The optimal dosage of grape seed extract administered to laboratory animals exposed to cigarette smoke was 5.4mg/rat [3].

According to research by Ahmed et al (2020), 50g/1L grape seed water extract can lessen methionine's harmful effects on the liver, kidneys, and hearts of experimental mice as determined by enzyme tests (LDH, CK, SGOT, and SGPT) and histology [5]. Another study found that raising GSH (glutathione decreased), T-AOC (antioxidative capabilities), decreasing plasma MDA, and improving skeletal muscle in rats reduced weariness brought on by excessive activity (exercise) [12].

The results of MDA levels and organ histological observations in the heart organ indicated that there was no significant effect of grape seed extract on oral formaldehyde exposure in any of the treatment groups. These findings were made possible by the fact that neither the therapeutic dose of grape seed extract nor the dose of formaldehyde exposure had an immediate impact on the heart. The circulatory system pumps blood from the lungs into the heart, where it is subsequently distributed throughout the body. In contrast to the liver's primary role as a toxin detoxifier [13]. Another explanation is that the reason for lower MDA levels and inferior heart organ healing is a brief exposure time of only 21 days. According to Perez et al. (2019), blood samples used to measure CKMB, TG, or HDL characteristics frequently show the impact of grape seed extract for cardiovascular therapy [14].

According to Serrano et al's (2018) research on grape seed or skin extract for cardiovascular risk, the timing of the medication has a significant impact on therapeutic efficacy. Grape seed or skin extract administered chronically for 3-12 weeks or occasionally at higher doses of 500mg/kgBW/day did not significantly alter platelet, triglyceride, or HDL levels at high doses (100-345mg/BW) [15].

CONCLUSION

The conclusion of this research backs up the idea that white rats given oral formaldehyde at a dose of 5mg/BW had affected MDA levels and liver histology. However, formaldehyde 5mg/BW rats had no impact on MDA concentrations or histology in rat heart. The treatment of grape seed extract could decrease MDA levels and the histopathological condition of the liver in white rats exposed to the highest formaldehyde exposure dose—14 mg/BW rat. Treatment of grape seed extract can decrease MDA and improve histopathology in the heart organs of white rats exposed to formaldehyde, even though the improvement was not significant.

ACKNOWLEDGEMENT

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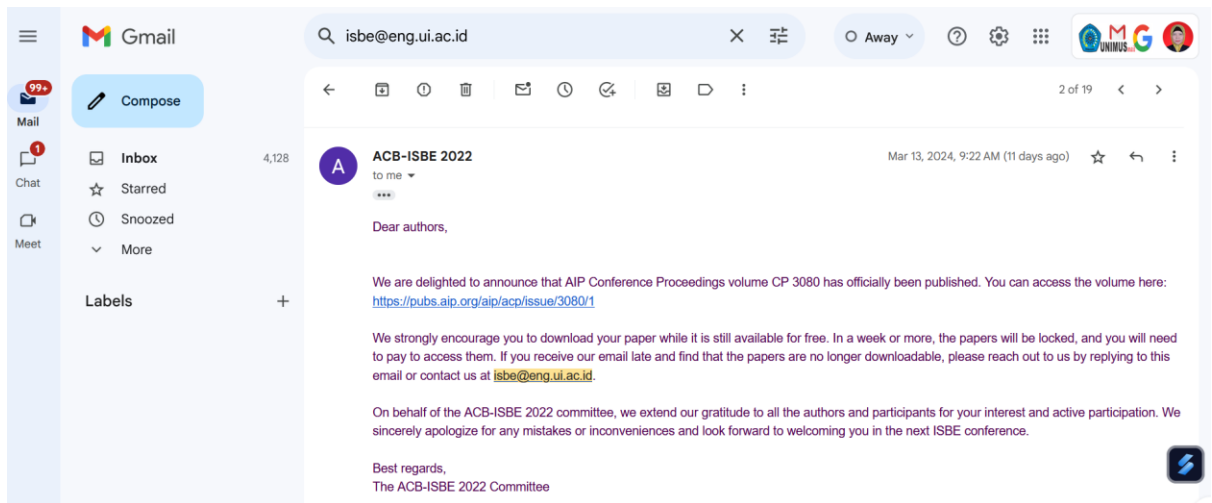
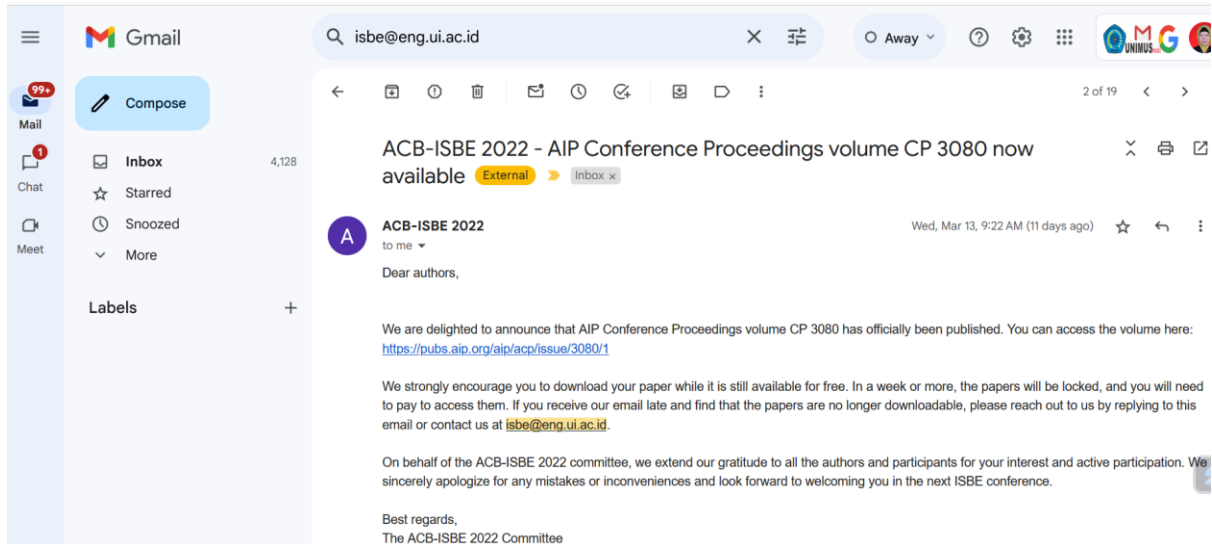
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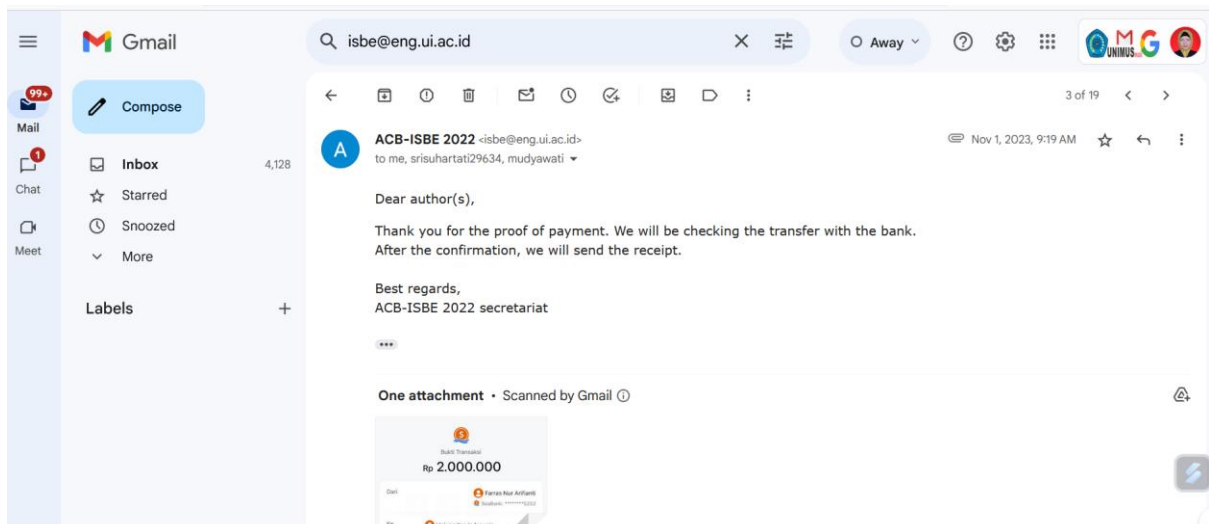
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Dear Ana,

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If you have any further questions or concerns, please do not hesitate to reach out.

Best regards,
ACB-ISBE 2023 secretariat

2 Attachments • Scanned by Gmail



Gmail interface: Search: isbe@eng.ui.ac.id, Away, 3 of 19

On Mon, Nov 20, 2023 at 3:20 PM ACB-ISBE 2022 <isbe@eng.ui.ac.id> wrote:

Dear Ana,

Here we sent the revised receipt as requested. Please kindly check if it's already correct.

If you have any further questions or concerns, please do not hesitate to reach out.

Best regards,
ACB-ISBE 2023 secretariat

On 2023-11-20 14:55, Ana Hidayati wrote:

If the receipts for 304 and 305 are changed to the name Ana Hidayati Mukaromah, is that possible?

Thank you

Gmail interface: Search: isbe@eng.ui.ac.id, Away, 3 of 19

On Sun, Nov 19, 2023 at 4:53 PM ACB-ISBE 2022 <isbe@eng.ui.ac.id> wrote:

Dear author(s),

Thank you for your patience. We have verified your payment for the publication fee in AIP Conference Proceedings. The receipt of your payment is attached to this email. We will now proceed with the payment to AIP Conference Proceedings.

Due to some changes in the number of papers submitted to AIP, we anticipate a slight delay in the production of the ACB-ISBE 2022 proceedings.

We appreciate your understanding in this matter. If you have any further questions or concerns, please do not hesitate to reach out.

Best regards,
ACB-ISBE 2022 Secretariat

https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGwHVJhZHzPzr5wlbjnrSgrhmXw

isbe@eng.ui.ac.id

3 of 19

On 2023-10-30 12:50, ACB-ISBE 2022 wrote:

Dear Author(s) of ACB-ISBE 2022,

We greatly appreciate your patience. We have received an important update from AIP Conference Proceedings regarding the payment for the publication of the proceeding in AIP Conference Proceedings.

As we stated on the website and the email before, the publication fee will be charged to the author. Please find attached the invoice for the payment. We kindly request that the payment be completed within a maximum of a week, by November 7, 2023.

Proof of payment can be sent to isbe@eng.ui.ac.id with the subject "ACB-ISBE 2022 - proof of payment paper no. (your paper number/submission number on EasyChair)" i.e. ACB-ISBE 2022 - proof of payment paper no. 304.

About the release of the proceedings, we are still waiting for the information from AIP.

Thank you for your prompt attention to this matter.

Best regards,
ACB-ISBE 2022 Secretariat

https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGwHVPSBGqkvDzpPdDxkTmkcbbd

isbe@eng.ui.ac.id

7 of 19

We would like to remind you about the payment of the publication fee following our previous email dated Monday, 30 October 2023, sent from isbe@eng.ui.ac.id, which detailed the publication process in AIP Conference Proceedings.

The invoice specifying the publication fee details was provided in the same email sent on Monday, 30 October 2023, from isbe@eng.ui.ac.id.

To ensure a smooth process, please ensure that the payment is made by Monday, 7 November 2023. Proof of payment can be sent to isbe@eng.ui.ac.id with the subject "ACB-ISBE 2022 - proof of payment paper no. (your paper number / submission number on EasyChair)," for example, ACB-ISBE 2022 - proof of payment paper no. 01.

We appreciate your prompt attention to this matter.

Best regards,
ACB-ISBE 2022 Secretariat

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isbe@eng.ui.ac.id

8 of 19

ACB-ISBE 2022 - notice for submission 305 External

ACB-ISBE 2022 <isbe@eng.ui.ac.id>
to me, yulitamaulani98, mudyawati

Wed, Jun 21, 2023, 11:45 AM

Dear author(s),

Thank you for your patience. We apologize for the delay in the proceeding publication process.

Please find attached the latest version of your fullpaper, which has undergone layout editing. We have also included the Copyright Agreement Form for your review and signature. If you are satisfied with the latest version of your fullpaper, please have one of the authors sign the Copyright Agreement Form in the designated "Author(s) Signature" section, put their name in the "Print Name" field, and provide the date in the "Date" field. You can refer to the attached TCA_example file for guidance.

We kindly request that you return the signed Copyright Agreement Form to us no later than Friday, 23rd June 2023.

Thank you for your understanding and cooperation.

Best regards,
ACB-ISBE 2022 Committee

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Best regards,
ACB-ISBE 2022 Committee

Notes # 1:
Please note that the Copyright Agreement Form can be printed and manually signed. The form is designed for Letter-sized paper. If you choose to print it, kindly scan the signed form and send it back to us in **PDF format**.

Notes # 2:
Please check the comments on the fullpaper file

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3 ACB-ISBE2022_...
TCA_example.pdf
TCA_305.pdf 354 KB

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ACB-ISBE 2022 -isbe@eng.ui.ac.id>
to me, yulitamaulani98, mudyawati

Jun 25, 2023, 9:16 PM

Dear author(s),

We would like to bring to your attention that we have not yet received your signed Copyright Agreement Form, which was due on Friday, 23rd June 2023.

We kindly request that you submit the signed form no later than Monday, 26th June 2023. If you need additional time to sign or review your paper, or if you wish to withdraw your paper from the proceedings, please inform us as soon as possible. It is important to note that we have a deadline to submit the entire proceedings to AIP by the end of this month.

Thank you for your understanding and prompt attention to this matter.

Best regards,
ACB-ISBE 2022 Committee

----- Original Message -----

Subject:ACB-ISBE 2022 - notice for submission 305
Date:2023-06-21 11:45
From:ACB-ISBE 2022 <isbe@eng.ui.ac.id>

https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGsnLFGWfvdTnkjJcmZKgJRpj

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Ana Hidayati <ana_hidayati@unimus.ac.id>
to ACB-ISBE

Jun 27, 2023, 1:15 AM

On Sun, Jun 25, 2023 at 9:16 PM ACB-ISBE 2022 <isbe@eng.ui.ac.id> wrote:

Dear author(s),

We would like to bring to your attention that we have not yet received your signed Copyright Agreement Form, which was due on Friday, 23rd June 2023.

We kindly request that you submit the signed form no later than Monday, 26th June 2023. If you need additional time to sign or review your paper, or if you wish to withdraw your paper from the proceedings, please inform us as soon as possible. It is important to note that we have a deadline to submit the entire proceedings to AIP by the end of this month.

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Best regards,
ACB-ISBE 2022 Committee

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Ana Hidayati <ana_hidayati@unimus.ac.id>
to ACB-ISBE

Jun 27, 2023, 1:15 AM ☆ ↶ ⋮

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Thank you for your understanding and prompt attention to this matter.

Best regards,
ACB-ISBE 2022 Committee

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Subject:ACB-ISBE 2022 - notice for submission 305
Date:2023-06-21 11:45
From:ACB-ISBE 2022 <isbe@eng.ui.ac.id>
To:ana_hidayati@unimus.ac.id, yulitamaulani98@gmail.com, mudyawati@unimus.ac.id

Dear author(s),

Thank you for your patience. We apologize for the delay in the proceeding publication process.

Please find attached the latest version of your fullpaper, which has undergone layout editing. We have also included the Copyright Agreement Form for your review and signature. If you are satisfied with the latest version of your fullpaper, please have one of the authors sign the Copyright Agreement Form in the designated "Author(s) Signature" section, put their name in the "Print Name" field, and provide the date in the "Date" field. You can refer to the attached TCA_example file for guidance.

We kindly request that you return the signed Copyright Agreement Form to us no later than Friday, 23rd June 2023.

Thank you for your understanding and cooperation.

Best regards,
ACB-ISBE 2022 Committee

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Notes #1:
Please note that the Copyright Agreement Form can be printed and manually signed. The form is designed for Letter-sized paper. If you choose to print it, kindly scan the signed form and send it back to us in **PDF format**.

Notes #2:
Please check the comments on the fullpaper file

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Jun 27, 2023, 1:18 AM

Ana Hidayati <ana_hidayati@unimus.ac.id>
to ACB-ISBE

On Tue, Jun 27, 2023 at 1:15 AM Ana Hidayati <ana_hidayati@unimus.ac.id> wrote:

On Sun, Jun 25, 2023 at 9:16 PM ACB-ISBE 2022 <isbe@eng.ui.ac.id> wrote:

Dear author(s),

We would like to bring to your attention that we have not yet received your signed Copyright Agreement Form, which was due on Friday, 23rd June 2023.

We kindly request that you submit the signed form no later than Monday, 26th June 2023. If you need additional time to sign or review your paper, or if you wish to withdraw your paper from the proceedings, please inform us as soon as possible. It is important to note that we have a deadline to submit the entire proceedings to AIP by the end of this month.

Thank you for your understanding and prompt attention to this matter.

Best regards,
ACB-ISBE 2022 Committee

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----- Original Message -----

Subject:ACB-ISBE 2022 - notice for submission 305
Date:2023-06-21 11:45
From:ACB-ISBE 2022 <isbe@eng.ui.ac.id>
To:ana_hidayati@unimus.ac.id, yulitamaulani98@gmail.com, mudyawati@unimus.ac.id

Dear author(s),

Thank you for your patience. We apologize for the delay in the proceeding publication process.

Please find attached the latest version of your fullpaper, which has undergone layout editing. We have also included the Copyright Agreement Form for your review and signature. If you are satisfied with the latest version of your fullpaper, please have one of the authors sign the Copyright Agreement Form in the designated "Author(s) Signature" section, put their name in the "Print Name" field, and provide the date in the "Date" field. You can refer to the attached TCA_example file for guidance.

We kindly request that you return the signed Copyright Agreement Form to us no later than Friday, 23rd June 2023.

Thank you for your understanding and cooperation.

Best regards.

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Ana Hidayati <ana_hidayati@unimus.ac.id> to isbe

Fri, May 26, 2023, 10:54 AM

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The Effectiveness of Real-World Data in the Design of New Active Pharmaceutical Ingredients

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Ana Hidayati

On Tue, Jun 27, 2023 at 1:18 AM Ana Hidayati <ana_hidayati@unimus.ac.id> wrote: On Tue, Jun 27, 2023 at 1:15 AM Ana Hidayati <ana_hidaya...>

Tue, Jun 27, 2023, 1:22 AM

Ana Hidayati <ana_hidayati@unimus.ac.id> to ACB-ISBE

Jun 27, 2023, 1:24 AM

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ACB-ISBE 2022

Dear Ana, Terima kasih dan mohon maaf atas keterlambatan email kami. Kami telah mengecek file revisi yang Anda kirim, dan masih ada yang h...

Wed, May 24, 2023, 2:03 PM

Ana Hidayati <ana_hidayati@unimus.ac.id> to Sri

Wed, May 24, 2023, 6:16 PM

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The Effectiveness of Real-World Data in the Design of New Active Pharmaceutical Ingredients

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isbe@eng.ui.ac.id

ACB-ISBE 2022 - notification for submission 304 External

ISBE 2023 <isbe@eng.ui.ac.id>
to me, srisuhartati29634

Fri, May 5, 2023, 3:41 PM

Yth authors submission 304 ACB-ISBE 2022

Perkenalkan saya Intan, dari sekretariat konferensi ACB-ISBE 2022. Saat ini kami sedang melakukan pengecekan revised fullpaper yang telah dikirimkan para author.

Terkait paper anda, mohon bisa membetulkan format References sehingga mengikuti template paper kami, dan merevisi seperti yang diminta oleh Reviewer kami. Hasil review dapat dicek di submission anda di EasyChair.

Terlampir revised fullpaper yang telah anda submit.

Revised fullpaper yang telah dirapikan dapat dikirim ke email ini serta diupload ulang ke submission anda di EasyChair sebelum Jumat 12 Mei 2023.

Atas perhatian dan kerjasamanya, kami ucapkan terima kasih.

https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGsmWpsvGMvXKVqQrkRScMfbmXJ

isbe@eng.ui.ac.id

Sekretariat ACB-ISBE 2022
Intan

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isbe@eng.ui.ac.id

Pada tanggal Jum, 12 Mei 2023 pukul 05.28 Ana Hidayati <ana_hidayati@unimus.ac.id> menulis:

----- Forwarded message -----
From: Ana Hidayati <ana_hidayati@unimus.ac.id>
Date: Fri, May 12, 2023 at 4:27 AM
Subject: Fwd: ACB-ISBE 2022 - notification for submission 304
To: Sri Suhartati <srisuhartati29634@gmail.com>

----- Forwarded message -----
From: ISBE 2023 <isbe@eng.ui.ac.id>
Date: Fri, May 5, 2023 at 3:41 PM
Subject: ACB-ISBE 2022 - notification for submission 304
To: <ana_hidayati@unimus.ac.id>, <srisuhartati29634@gmail.com>

Yth authors submission 304 ACB-ISBE 2022

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To: <ana_hidayati@unimus.ac.id>, <srisuhartati29634@gmail.com>

Yth authors submission 304 ACB-ISBE 2022

Perkenalkan saya Intan, dari sekretariat konferensi ACB-ISBE 2022. Saat ini kami sedang melakukan pengecekan revised fullpaper yang telah dikirimkan para author.

Terkait paper anda, mohon bisa membetulkan format References sehingga mengikuti template paper kami, dan merevisi seperti yang diminta oleh Reviewer kami. Hasil review dapat dicek di submission anda di EasyChair.

Terlampir revised fullpaper yang telah anda submit.

Revised fullpaper yang telah dirapikan dapat dikirim ke email ini serta diupload ulang ke submission anda di EasyChair sebelum Jumat 12 Mei 2023.

Atas perhatian dan kerjasamanya, kami ucapkan terima kasih.

Sekretariat ACB-ISBE 2022
Intan

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Received, thank you. Well received with thanks. Thanks a lot.

https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGsmNbnPtTxcWKGZzkthHTnnH

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CFP - ISBE 2023

ISBE 2023 <isbe@eng.ui.ac.id> to isbe Thu, May 4, 2023, 1:04 PM

Dear former participants of ISBE,

We would like to thank you all for your previous contribution to the past editions of ISBE.

It is our great pleasure to invite you to the 8th International Symposium on Biomedical Engineering (ISBE 2023) in conjunction with QIR 2023, which will be held on October 23 – 25, 2023, in Bali, Indonesia.

Important Dates
 Deadline for Full Paper Submission: June 20, 2023
 Notification of Acceptance: August 1, 2023
 Deadline for Early Bird Registration: August 15, 2023
 Conference Date: October 23-25, 2023

Paper submission
 Download the manuscript template from the conference website: <https://isbe.eng.ui.ac.id/authors-information/full-paper-submission/>
 The online submission system is open at submit-manuscript <https://submit-manuscript.org/conference/isbe-2023>

Attached: CFP of ISBE 2023

← → ↻ <https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGsmNbNjPtTxcWKGZzkthHTnnH> ☆

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Dear former participants of ISBE,

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 Notification of Acceptance: August 1, 2023
 Deadline for Early Bird Registration: August 15, 2023
 Conference Date: October 23-25, 2023

Paper submission
 Download the manuscript template from the conference website: <https://isbe.eng.ui.ac.id/authors-information/full-paper-submission/>
 The online submission system is open at submit-manuscript <https://submit-manuscript.org/conference/isbe-2023>

Attached: CFP of ISBE 2023

We are looking forward to seeing you at ISBE 2023.

← → ↻ <https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGsmNbNjPtTxcWKGZzkthHTnnH> ☆

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 Deadline for Early Bird Registration: August 15, 2023
 Conference Date: October 23-25, 2023

Paper submission
 Download the manuscript template from the conference website: <https://isbe.eng.ui.ac.id/authors-information/full-paper-submission/>
 The online submission system is open at submit-manuscript <https://submit-manuscript.org/conference/isbe-2023>

Attached: CFP of ISBE 2023

We are looking forward to seeing you at ISBE 2023.

← → ↻ <https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGqQSLXVjMDJXgPvXlNzDVXvXGb> ☆

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ACB-ISBE 2022 notification for paper 305 External → Inbox x

ACB-ISBE 2022 <acbisbe2022@easychair.org> to me Thu, Sep 8, 2022, 11:53 AM ☆ ↶

Dear Ana Hidayati Mukaromah, Yulita Maulani, Mudyawati Kamaruddin
 Submission ID: 305

The committee of ACB-ISBE 2022 has accepted your abstract titled "THE EFFECTIVENESS OF GRAPE SEED EXTRACT ON THE LIVER AND HEART ORGANS OF WHITE RATS EXPOSED TO FORMALDEHYD ON MALONDIALDEHYD AND HISTOPATHOLOGY" to be presented at the event. Your paper will be scheduled to be presented between October 2nd – 6th, 2022.

To assist your presentation at the conference, please pay careful attention to the following:

1. Presenter can choose the type of presentation between oral presentations or poster presentations. You can submit your presentation file on your EasyChair in the Oral Presentation column or Poster Presentation column (choose only one type of presentation). Guidance for oral and poster presentations will be informed on the website later. Note: uploading your file is not mandatory.
2. The deadline for registration and payment is July 22nd, 2022, for early bird registration; normal registration starts from July 23rd – September 15th, 2022. More information can be found at <https://www.acb-afob2022.com/registration> or <https://isbe.eng.ui.ac.id/authors-information/registration/>. Please notice that unpaid submissions will be removed from the conference program.
3. If you want to publish your paper with us, the final full paper deadline is September 16th, 2022. The information and format of the full paper can be downloaded from <https://www.acb-afob2022.com/submission> or <https://isbe.eng.ui.ac.id/authors-information/full-paper-submission/>.

https://mail.google.com/mail/u/0/#search/isbe%40eng.ui.ac.id/FMfcgzGqQSLXVjMDJXgPxvInzDVXwGb

isbe@eng.ui.ac.id

17 of 19

SUBMISSION: 305
 TITLE: THE EFFECTIVENESS OF GRAPE SEED EXTRACT ON THE LIVER AND HEART ORGANS OF WHITE RATS EXPOSED TO FORMALDEHYD ON MALONDIALDEHYD AND HISTOPATHOLOGY

----- REVIEW 1 -----
 SUBMISSION: 305
 TITLE: THE EFFECTIVENESS OF GRAPE SEED EXTRACT ON THE LIVER AND HEART ORGANS OF WHITE RATS EXPOSED TO FORMALDEHYD ON MALONDIALDEHYD AND HISTOPATHOLOGY
 AUTHORS: Ana Hidayati Mukaromah, Yulita Maulani and Mudyawati Kamaruddin

----- Overall evaluation -----
 The study describes the effectiveness of grape seed extract on the liver and heart organs of white rats exposed to formaldehyde on malondialdehyde and histopathology.

The aim of the paper needs to be clearly stated. The Abstract provided describes the detailed urgency of the research as well as the reasonable target and expected results. Interesting work to share at the conference.

However, several incorrect or lack of articles (English grammar) need to be addressed to improve the quality of the abstract.

If you are intended to publish your paper in ACB-ISBE, please use the ACB-ISBE format paper (you can download it on the website, <https://www.acb-afob2022.com/submission>).

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ACB-ISBE 2022 notification for paper 304 External

ACB-ISBE 2022 <acb-isbe2022@easychair.org>
 to me

Thu, Sep 8, 2022, 11:53 AM

Dear Ana Hidayati Mukaromah, Sri Suhartati, Mudyawati Kamaruddin
 Submission ID: 304

The committee of ACB-ISBE 2022 has accepted your abstract titled "The Effectiveness of Red Grape Seed Extract on Kydney Organ of White Rats Exposed to Formaldehyde" to be presented at the event. Your paper will be scheduled to be presented between October 2nd – 6th, 2022.

To assist your presentation at the conference, please pay careful attention to the following:

1. Presenter can choose the type of presentation between oral presentations or poster presentations. You can submit your presentation file on your EasyChair in the Oral Presentation column or Poster Presentation column (choose only one type of presentation). Guidance for oral and poster presentations will be informed on the website later. Note: uploading your file is not mandatory.
2. The deadline for registration and payment is July 22nd, 2022, for early bird registration; normal registration starts from July 23rd – September 15th, 2022. More information can be found at <https://www.acb-afob2022.com/registration> or <https://isbe.eng.ui.ac.id/authors-information/registration/>. Please notice that unpaid submissions will be removed from the conference program.
3. If you want to publish your paper with us, the final full paper deadline is September 16th, 2022. The information and format of the full paper can be downloaded from <https://www.acb-afob2022.com/submission> or <https://isbe.eng.ui.ac.id/authors-information/full-paper-submission/>.

For any further assistance, feel free to contact us at isbe@eng.ui.ac.id.

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For any further assistance, feel free to contact us at isbe@eng.ui.ac.id.

Thank you very much for your kind attention. We are looking forward to your participation in ACB-ISBE 2022.

Best regards,

Dr.Eng Muhamad Sahlan, S.Si., M.Eng.
 General Chair of ACB-ISBE 2022

SUBMISSION: 304
 TITLE: The Effectiveness of Red Grape Seed Extract on Kydney Organ of White Rats Exposed to Formaldehyde

----- REVIEW 1 -----
 SUBMISSION: 304
 TITLE: The Effectiveness of Red Grape Seed Extract on Kydney Organ of White Rats Exposed to Formaldehyde
 AUTHORS: Ana Hidayati Mukaromah, Sri Suhartati and Mudyawati Kamaruddin

----- Overall evaluation -----
 The study describes the effectiveness of red grape seed extract on the kidney organs of white rats exposed to formaldehyde.

The aim of the paper needs to be clearly stated. The Abstract provided describes the detailed urgency of the research as well as the reasonable

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However, several incorrect or lack of articles (English grammar) need to be addressed to improve the quality of the abstract.

If you are intended to publish your paper in ACB-ISBE, please use the ACB-ISBE format paper (you can download it on the website, <https://www.acb-afob2022.com/submission>).

Looking forward to hearing your presentation at ACB-ISBE 2022 in Bali.
----- Reviewer's confidence -----
SCORE: 3 (Good)

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to me
Wed, Sep 7, 2022, 6:17 PM

Dear presenters,

First, we would like to thank all participants for your interest in joining ACB-ISBE 2022.

We have uploaded the General Schedule and Parallel Session schedules on the website. Please kindly check them on <https://www.acb-afob2022.com/events>.

The guidelines for oral & poster presentations will be updated later.

Notes:
As previously mentioned in the Letter of Acceptance, the presenters could choose between oral and poster presentations. However, due to the limited time and session for oral presentation, some presenters will be allocated in the poster presentation section.

If you have a question, please contact us via email isbe@eng.ui.ac.id or via chat on ACB-ISBE website.

Thank you

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Thank you

Best regards,
ACB-ISBE 2022 committee

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