
Fahmi, Mochamad ao-2021-012873 - Manuscript Submission to ACS Omega 10-Mar-2021

1 message

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Wed, Mar 10, 2021 at 5:02 PM

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10-Mar-2021

Journal: ACS Omega

Manuscript ID: ao-2021-012873

Title: "Comparison Direct synthesis hyaluronic acid-based carbon nanodots as dual active targeting and imaging of HeLa tumor cells"

Authors: Wibrianto, Aswandi; Sianturi, Jefpry ; Ulfa, Desita; Aung, Yu Yu; Kwee, Yaung; Sakti, Satya; Irzaman, Irzaman; Yuliarto, Brian; Fahmi, Mochamad

Manuscript Status: Submitted

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Fahmi, Mochamad ao-2021-012873 - Manuscript Revision Request 05-Apr-2021

3 messages

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Mon, Apr 5, 2021 at 8:03 PM

05-Apr-2021

Journal: ACS Omega

Manuscript ID: ao-2021-012873

Title: "Comparison Direct synthesis hyaluronic acid-based carbon nanodots as dual active targeting and imaging of HeLa tumor cells"

Author(s): Wibrianto, Aswandi; Sianturi, Jefry; Ulfa, Desita; Aung, Yu Yu; Kwee, Yaung; Sakti, Satya; Irzaman, Irzaman; Yulianto, Brian; Fahmi, Mochamad

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"Comparison Direct synthesis hyaluronic acid-based carbon nanodots as dual active targeting and imaging of HeLa tumor cells" has been examined by expert reviewers. In its current form, your manuscript is not suitable for publication in ACS Omega. The reviewers have raised points that require significant consideration. However, with an adequate point-by-point response and the appropriate revisions, your paper may become acceptable for publication.

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Prof. Johan Hofkens
Associate Editor
ACS Omega
Phone: +3216327804
Email: hofkens-office@omega.acs.org

Reviewer(s)' Comments to Author:

Reviewer: 1

Recommendation: Publish after minor revisions.

Comments:

Comments on the paper entitled "Comparison Direct synthesis hyaluronic acid-based carbon nanodots as dual active targeting and imaging of HeLa tumor cells".

Manuscript ID: ao-2021-012873

Authors: Aswandi Wibrianto, Jefry S. Sianturi, Desita K. Ulfa, Yu-Yu Aung, Young Kwee, Satya. C. W. Sakti, Irzaman, Brian Yulianto, Mochamad. Z. Fahmi

Nanotechnology is important area of research in Biological and Medical sciences. In this research work authors developed carbon carbon nanodots (CDs) using hyaluronic acid as a precursor prepared by microwave-assisted and furnace-assisted method for the bioimaging agent in cancer cells. Authors has studied Cytotoxicity test and in vitro activity by CCK-8 assay and Confocal Laser Scanning Microscopy (CLSM) to identify percentage of living cells above 80%. The proposed material is a good material for this purpose and thus the paper deserves publication in this journal on priority. Actually, this is very interesting work. However, author need to rewrite some part of this research article. I thus recommend that it will be accepted for publication subject to the following minor revisions.

My minor comments on this paper are as follows.

1. Please check name of the author "Irzaman", Department of Physics, IPB University, Bogor, 16680, Indonesia. Here Sur name or Given name is missing.
2. Page Number 1: Author need to rewrite the abstract section carefully. It is similar to experimental section. For example, "HA-P1 and HA-P2 were synthesized by furnace assisted method at 270oC for 2 min and 2 h. While HA-M1 and HA-M2 were synthesized by microwave-assisted method for 2 min and 2 h.
3. Keywords: Author need to give suitable keywords for this manuscript. Furnace-assisted, microwave-assisted is not a suitable keywords for this manuscript.
4. Page number 6: In the experimental section, author need to check preparation of carbon dots by furnace assisted methods. The procedure is not clear. "On furnace-assisted method, about 10 mg of HA was placed into a vial bottle and heated at 270oC for 2 min (HA-M1) and 2 h (HA-M2)." Here what do you mean by vial bottle.
5. Authors need to justify for what purpose they have studied PL emission spectra.
6. Page 5 – Figure 6 – The X axis title is not clear. Author has given only Concentration. Need to give detailed information. In addition, this bar diagram is more scrambled. Authors need to give simple picture.
7. Page 6 - Figure 7 is not clear. In addition, It is difficult to see bright field images. Scale is not clear.
8. Page 2 - Some of the sentences do not have meaning also authors are using long sentences. Example – "However, there has not a study that explores the application of both methods on producing HA based-CDs yet and it becomes crucial aspect regarding on efforts to create a simple and fast synthesis route on preparing CDs as excellent theranostic agent".
9. In the XPS spectra why N1s peak has disappeared. Author need to re-draw this Figure 4 (e) picture. What kind of software they used to analyse XPS spectra.
10. Author need to check all the figure captions carefully and rewrite the figure captions.
11. In addition, some typographical and grammatical errors have been identified in the text.

With the above minor changes, the paper will be accepted for publication.

Additional Questions:

Is the technical quality of the research reported within valid and appropriate?: Yes

Please evaluate the degree of novelty and originality of the research reported: Good

Are the conclusions adequately supported by the data presented?: Yes

Are the literature references appropriate and up to date?: Yes

Reviewer: 2

Recommendation: Publish after major revisions.

Comments:

In this paper, the author synthesized carbon dots from hyaluronic acid by microwave-assisted and furnace-assisted methods, then cell cytotoxicity and transmembrane ability of the carbon dots was evaluated, indicating possible application as bioimaging agents. Carbon dots is an important material. However, there are a lot of studies about the synthesis and application of carbon dots. Overall, the manuscript is scientifically Ok and its innovation is fair. It can be published in ACS OMDGA after some problems addressed.

The detailed comments are listed below:

1. HA-M1 is obvious different with others in XRD Diffractogram. So, HRTEM is recommended to observed the difference of lattice structure.
2. Only AFM of HA-P2 was determined, other three kinds of carbon dots should be required to observed the size. Whether the size of carbon dots can be more accurately characterized by Light Scattering method?
3. The caption of Fig 6 is confused. For example, what does the description of "furnace-assisted CDs1 (a) and microwave-assisted method doped CDs1 (b)" mean? in section 4.3 six concentration i.e., 12.5; 25; 50; 100; 200; and 400 µg/mL were used, however seven concentration of 1, 2, 3, 5, 25, 100, 400 µg/mL were listed in Fig 6, why?
4. Fig 7 were not clearly enough.
5. The optical properties such as absorption spectra and quantum yields should be compared to other approaches e.g., reference 31-33 mentioned in the introduction.

Additional Questions:

Is the technical quality of the research reported within valid and appropriate?: Yes

Please evaluate the degree of novelty and originality of the research reported: Fair

Are the conclusions adequately supported by the data presented?: Yes

Are the literature references appropriate and up to date?: Yes

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Fahmi, Mochamad ao-2021-012873.R1 - Revised Manuscript Submission to ACS Omega 09-Apr-2021

1 message

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Fri, Apr 9, 2021 at 4:10 PM

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09-Apr-2021

Journal: ACS Omega

Manuscript ID: ao-2021-012873.R1

Title: "Comparison Direct synthesis hyaluronic acid-based carbon nanodots as dual active targeting and imaging of HeLa Cancer cells"

Authors: Aung, Yu-Yu; Wibrianto, Aswandi; Sianturi, Jefry; Ulfa, Desita; Sakti, Satya; Irzaman, Irzaman; Yulianto, Brian; Chang, Jia-Yaw; Fahmi, Mochamad

Manuscript Status: Submitted

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Fahmi, Mochamad ao-2021-012873.R2 23-Apr-2021

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April 29, 2021

Journal: ACS Omega

Manuscript No.: ao-2021-012873

Title: Comparison Direct synthesis hyaluronic acid-based carbon nanodots as dual active targeting and imaging of HeLa Cancer cells

Authors: Yu-Yu Aung, Aswandi Wibrianto, Jefry S. Sianturi, Desita Kamila Ulfa, Satya Candra Wibawa Sakti, Irzaman Irzaman, Brian Yulianto, Jia-Yaw Chang, Yaung Kwee, Mochamad Zakki Fahmi

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