

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 19828

Title: Engineered core shell magnetic nanoprobe: synthesis and applications to cancer imaging and therapeutics

Reviewer's code: 02799783

Reviewer's country: Brazil

Science editor: Xue-Mei Gong

Date sent for review: 2015-05-23 17:50

Date reviewed: 2015-08-28 00:39

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|--|--|--|--|
| <input checked="" type="checkbox"/> Grade A: Excellent | <input checked="" type="checkbox"/> Grade A: Priority publishing | Google Search: | <input checked="" type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B: Very good | <input type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title | <input type="checkbox"/> High priority for publication |
| <input type="checkbox"/> Grade C: Good | <input type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Duplicate publication | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade D: Rejected | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Minor revision |
| <input type="checkbox"/> Grade E: Poor | | BPG Search: | <input type="checkbox"/> Major revision |
| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input checked="" type="checkbox"/> No | |

COMMENTS TO AUTHORS

The review is very interesting for the search area. The review also discusses the up-to-date knowledge about the various procedures for synthesizing magnetic core shell nanoparticle along with their applications in cancer imaging, drug delivery and or hyperthermia cancer therapy. Showing that based on MCNP image, drug targeting and therapy using hyperthermia can potentially be a powerful tool for advanced diagnosis and treatment of various cancers. I strongly recommend this revision for publication. I believe that will be used by many researchers and students who are interested in this research area.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 19828

Title: Engineered core shell magnetic nanoprobe: synthesis and applications to cancer imaging and therapeutics

Reviewer's code: 02618027

Reviewer's country: United States

Science editor: Xue-Mei Gong

Date sent for review: 2015-05-23 17:50

Date reviewed: 2015-08-30 06:15

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|---|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title | <input type="checkbox"/> High priority for publication |
| <input type="checkbox"/> Grade C: Good | | <input type="checkbox"/> Duplicate publication | |
| <input checked="" type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Plagiarism | <input checked="" type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade E: Poor | <input type="checkbox"/> Grade D: Rejected | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Minor revision |
| | | BPG Search: | <input type="checkbox"/> Major revision |
| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input checked="" type="checkbox"/> No | |

COMMENTS TO AUTHORS

In this review, the authors describe the design and synthesis of magnetic core shell nanoparticles. The authors give a clear and concise review of the literature surrounding the shell design and synthesis techniques, but the potential application of these particles in cancer imaging, drug delivery, and cancer therapeutics is incompletely expressed in comparison. In addition, the following concerns should be addressed before this manuscript is suitable for publication: 1. In the abstract, please define "MCNP" prior to the abbreviation. 2. In the core tip, "its" in the first sentence should be changed to "their" because magnetic core shell nanoparticles are plural. 3. In the core tip, "this" in the last sentence should be changed to "these" since nanoprobe are plural. 4. Please check for other such grammatical inconsistencies throughout the text. 5. The phrase "...high moment metallic magnetic nanoparticles.." is unclear. 6. Please define "APL" prior to its abbreviation. 7. In the sentence where the authors state, "... (a) diverse sensitivity of tumor cells to higher dose of arsenic (b) sensitization of less sensitive cells...", there should be the word "and" before (b). 8. This manuscript requires minor language polishing throughout, such as "...by use of shell of silica..."



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should be changed to "...by use of a shell of silica..." There are also numerous typos throughout the text, such as "alongwith" and "a=can". 9. There are multiple spelling errors throughout the text.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 19828

Title: Engineered core shell magnetic nanoprobe: synthesis and applications to cancer imaging and therapeutics

Reviewer's code: 02446322

Reviewer's country: United States

Science editor: Xue-Mei Gong

Date sent for review: 2015-05-23 17:50

Date reviewed: 2015-07-01 06:45

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|--|---|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input type="checkbox"/> Accept |
| <input checked="" type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title | <input type="checkbox"/> High priority for publication |
| <input type="checkbox"/> Grade C: Good | | <input type="checkbox"/> Duplicate publication | |
| <input type="checkbox"/> Grade D: Fair | <input type="checkbox"/> Grade C: A great deal of language polishing | <input type="checkbox"/> Plagiarism | <input type="checkbox"/> Rejection |
| <input type="checkbox"/> Grade E: Poor | | <input checked="" type="checkbox"/> No | <input checked="" type="checkbox"/> Minor revision |
| | <input type="checkbox"/> Grade D: Rejected | BPG Search: | <input type="checkbox"/> Major revision |
| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input checked="" type="checkbox"/> No | |

COMMENTS TO AUTHORS

The language has to be polished. Some suggestions are inserted to the text using the track changes feature.

ESPS PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

ESPS manuscript NO: 19828

Title: Engineered core shell magnetic nanoprobe: synthesis and applications to cancer imaging and therapeutics

Reviewer's code: 02686084

Reviewer's country: Mexico

Science editor: Xue-Mei Gong

Date sent for review: 2015-05-23 17:50

Date reviewed: 2015-09-17 10:33

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|---|--|--|
| <input type="checkbox"/> Grade A: Excellent | <input type="checkbox"/> Grade A: Priority publishing | Google Search: | <input type="checkbox"/> Accept |
| <input type="checkbox"/> Grade B: Very good | <input checked="" type="checkbox"/> Grade B: Minor language polishing | <input type="checkbox"/> The same title | <input type="checkbox"/> High priority for publication |
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| | | <input type="checkbox"/> The same title | |
| | | <input type="checkbox"/> Duplicate publication | |
| | | <input type="checkbox"/> Plagiarism | |
| | | <input checked="" type="checkbox"/> No | |

COMMENTS TO AUTHORS

In the present review entitled; Engineered core shell magnetic nanoprobe: synthesis and applications to cancer imaging and therapeutics, the author discusses the up-to-date knowledge on the various procedures for synthesis of magnetic core shell nanoparticles along with their applications in cancer imaging, drug delivery and hyperthermia or cancer therapeutics. There are many relevant information about magnetic nanoprobe, however the author don't include it in this review. The paper is accepted with some modifications.

1. Check for grammatical inconsistencies throughout the text. Also there are multiple spelling errors throughout the text. Is necessary that author check the mistakes. 2. In the other hand, the author, will be take in consideration included the paper information with have been published, is necessary included more information and references about of Magnetically Engineered Semiconductor Quantum Dots as Multimodal Imaging Probes.. See for example: Adv. Mater. 2014 Oct 8;26(37):6367-86. doi: 10.1002/adma.201402296. 3. References are relevant and update, however, the author should add more about of magnetic core shell nanoprobe. 4. References to a journal publication should have the same format (validate all of



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