

PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 57814

Title: Inhibition of matrix metalloproteinase-9 secretion by dimethyl sulfoxide and cyclic adenosine monophosphate in human monocytes

Reviewer's code: 03976790

Position: Editorial Board

Academic degree: DSc, PhD

Professional title: Emeritus Professor

Reviewer's Country/Territory: France

Author's Country/Territory: United States

Manuscript submission date: 2020-06-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-09-11 11:56

Reviewer performed review: 2020-09-21 11:57

Review time: 10 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

Comments on the manuscript : "Inhibition of MMP-9 secretion by dimethyl sulfoxide and cyclic AMP in human monocytes" Matrix-metalloproteinases are extracellular matrix degrading enzymes with important roles in physiological and pathological processes. The manuscript is about a study concerning the mechanisms of MMP-9 secretion in THP-1 monocytes and their regulations by DMSO and cAMP. This study is certainly well done, interesting and useful, but the manuscript needs to be seriously improved before considering publication. Introduction : At the end of introduction line 76), the authors write: "(...) previous reports of regulation by both dimethyl sulfoxide (DMSO) [9-11] and the intracellular signaling molecule 3',5'-cyclic adenosine monophosphate (cAMP)": as this is the subject of this article, it would be interesting to have a few words about these studies. Still at the end of the introduction, the purpose of the study needs to be detailed: the sentence "In this report we sought to further examine mechanisms of MMP-9 secretion in THP-1 monocytes and regulation by DMSO and cAMP." needs to be developed. Material and methods Lines 90-94 : "Cells were treated with E. coli bacterial 026.B6 LPS (...) prior to addition of LPS": different treatments have been performed, but they are not sufficiently clearly explained and it is hard to understand. Please, specify the purpose of each treatment, with or without LPS. The different treatments could be also given in a table. In the paragraph, no indication is given about the concentration and percentages used like it is given in figures. Results In this part, there is a mixture of results and discussion (example : lines 159-163 and others), which makes the text confusing and difficult to understand. The results are not sufficiently detailed even if the reader finds important indications in the legends of the figures or in the figures, where the different concentrations and percentages are given. The "Results" part must be rewritten without the discussion elements but with all the

results. To conclude, this manuscript is not pready to be published in its present form. The text is often confused with a lack of precision in the methodology and the results, and the presence of elements of discussion in the “results” part.

PEER-REVIEW REPORT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 57814

Title: Inhibition of matrix metalloproteinase-9 secretion by dimethyl sulfoxide and cyclic adenosine monophosphate in human monocytes

Reviewer's code: 02686084

Position: Editorial Board

Academic degree: MSc

Professional title: Research Scientist

Reviewer's Country/Territory: Mexico

Author's Country/Territory: United States

Manuscript submission date: 2020-06-24

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2020-10-10 01:25

Reviewer performed review: 2020-10-21 01:40

Review time: 11 Days

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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SPECIFIC COMMENTS TO AUTHORS

My opinion about the manuscript "Inhibition of MMP-9 secretion by dimethyl sulfoxide and cyclic AMP in human monocytes" The title reflects the main subject of the manuscript, the abstracts reflect the work described, and give new information of the mechanisms by which DMSO and cAMP inhibited MMP-9 secretion, the study demonstrates cellular and pharmacological mechanisms by which MMP-9 secretion can be regulated in the monocytic inflammatory response. However, the manuscript doesn't describe methods in adequate detail, in the lines 89-91 (yellow color), is necessary give details about of the conditions of monocytes cells were treated with E. coli and is important mention the concentration of DMSO used. The results are present in confused form, is necessary polish this section and detailed the result appropriately and separated the discussion elements (blue mark in the text). Finally, is necessary review the figures legends and homogenize the format of units used. My final decision is that the manuscript is not ready to be published in the present form

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Biological Chemistry

Manuscript NO: 57814

Title: Inhibition of matrix metalloproteinase-9 secretion by dimethyl sulfoxide and cyclic adenosine monophosphate in human monocytes

Reviewer's code: 02686084

Position: Editorial Board

Academic degree: MSc

Professional title: Research Scientist

Reviewer's Country/Territory: Mexico

Author's Country/Territory: United States

Manuscript submission date: 2020-06-24

Reviewer chosen by: Han Zhang (Part-Time Editor)

Reviewer accepted review: 2020-11-19 21:32

Reviewer performed review: 2020-11-20 02:21

Review time: 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS



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I agree in the changes made.