

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55077

Title: Involvement of Glycated Albumin in adipose-derived-stem cell-mediated Th17 cell activation

Reviewer's code: 03490943

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Doctor, Postdoc, Teaching Assistant

Reviewer's Country/Territory: Serbia

Author's Country/Territory: France

Manuscript submission date: 2020-02-28

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-02-29 14:42

Reviewer performed review: 2020-03-08 17:45

Review time: 8 Days and 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 Grade E: Do not publish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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input 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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

SPECIFIC COMMENTS TO AUTHORS

Very interesting and elegantly conducted study. However, I would like to ask the authors to address some technical issues: - throughout the manuscript, please, define the abbreviations at the first place they appear - please, correct typographical errors - please, revise the list of references using the uniform style of citation After these minor revisions, I would suggest this manuscript for the publication.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 55077

Title: Involvement of Glycated Albumin in adipose-derived-stem cell-mediated Th17 cell activation

Reviewer's code: 03712811

Position: Editor-in-Chief

Academic degree: MD, PhD

Professional title: Director, Full Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: France

Manuscript submission date: 2020-02-28

Reviewer chosen by: Jin-Zhou Tang (Quit in 2020)

Reviewer accepted review: 2020-04-03 09:08

Reviewer performed review: 2020-04-10 13:13

Review time: 7 Days and 4 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input 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 type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input 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

In this study, the Authors aimed at investigating whether advanced glycation end products (AGEs) could be able to enhance lean adipose-derived stem cells (ASC) capability to promote IL-17A secretion by T cells in a coculture model, encompassing both ASC and mononuclear cells (MNC) in the presence of glycated human serum albumin (G-HSA). They observed that in the coculture system G-HSA markedly increased IL-17A, but also IFN-gamma, and TNF-alpha. This effect was associated with increased expression of RAGE and HLA-DR molecule by co-cultured cells. The study has been carefully designed and executed. The experimental observations involve both novelty and potential biomedical implication. The discussion section and the overall conclusion, that the observed results demonstrated that G-HSA potentiated lean ASC-mediated IL-17A production, suggesting a new mechanism by which AGEs could contribute to type 1 diabetes pathophysiology, are in keeping with the experimental findings. Minor Remarks: -According to its legend, Figure 2 should report a symbol with ***: this symbol is missing in Fig 2. Alternatively, if the p less than 0.0008 (Top left Panel in Fig 2) is the one which should be marked with ***, then the ** symbol is missing. - Discussion Line 3, "Even though AT are known to be low in T1D patients, they have also been involved...." A part of the subject is missing: it may be: "Even though AT inflammatory cytokines/chemokines are known to be low...". Please verify and correct.