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# ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Biological Chemistry
**ESPS manuscript NO:** 16688
**Title:** Adipocyte Activation of Cancer Stem Cell Signaling in Breast Cancer
**Reviewer's code:** 02613582
**Reviewer's country:** China
**Science editor:** Yue-Li Tian
**Date sent for review:** 2015-01-28 18:12
**Date reviewed:** 2015-02-05 16:36

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|---|---|---|
| [ ] Grade A: Excellent | [ ] Grade A: Priority publishing | PubMed Search: | [ ] Accept |
| [ ] Grade B: Very good | [Y] Grade B: Minor language polishing | [ ] The same title | [ ] High priority for publication |
| [Y] Grade C: Good | [ ] Grade C: A great deal of language polishing | [ ] Duplicate publication | [ ] Rejection |
| [ ] Grade D: Fair | [ ] Grade D: Rejected | [ ] Plagiarism | [Y] Minor revision |
| [ ] Grade E: Poor | | [Y] No | [ ] Major revision |
| | | BPG Search: | |
| | | [ ] The same title | |
| | | [ ] Duplicate publication | |
| | | [ ] Plagiarism | |
| | | [Y] No | |

## COMMENTS TO AUTHORS

In this review, Wolfson et al summarize major signaling pathways that regulate cancer stem cells in breast cancer, describe the effects of IL-6 and leptin secreted by adipocyte on breast cancer stem cell signaling, and introduce a potential treatment paradigm of inhibiting the adipocyte-breast cancer cell signaling via targeting the Il-6 or leptin pathways. This in itself is a significant contribution. However, there are several issues that need addressing. 1. The authors appear to be trying to focus on signaling pathways regulating cancer stem cells in breast cancer and effects of IL-6 and leptin secreted by adipocyte on breast cancer stem cell signaling. However, there is too little review on the main topic. It will better the author adjust the articles proportion and make it more logical. 2. Needs some language corrections before being published. 3. The obvious mistakes that I noted have been highlighted in the accompanying file.

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# ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Biological Chemistry
**ESPS manuscript NO:** 16688
**Title:** Adipocyte Activation of Cancer Stem Cell Signaling in Breast Cancer
**Reviewer's code:** 02799783
**Reviewer's country:** Brazil
**Science editor:** Yue-Li Tian
**Date sent for review:** 2015-01-28 18:12
**Date reviewed:** 2015-01-28 20:00

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|---|---|---|
| [ ] Grade A: Excellent | [ Y] Grade A: Priority publishing | PubMed Search: | [ Y] Accept |
| [ Y] Grade B: Very good | [ ] Grade B: Minor language polishing | [ ] The same title | [ ] High priority for publication |
| [ ] Grade C: Good | [ ] Grade C: A great deal of language polishing | [ ] Duplicate publication | [ ] Rejection |
| [ ] Grade D: Fair | [ ] Grade D: Rejected | [ ] Plagiarism | [ ] Minor revision |
| [ ] Grade E: Poor | | [Y ] No | [ ] Major revision |
| | | BPG Search: | |
| | | [ ] The same title | |
| | | [ ] Duplicate publication | |
| | | [ ] Plagiarism | |
| | | [Y ] No | |

## COMMENTS TO AUTHORS

The authors discuss the involvement of adipocytes in the microenvironment and breast cancer cells. They defend the idea that adipocyte-secreted leptin and IL-6 in inducing breast cancer cell epithelial-mesenchymal transition and activating new pathways. They raise new therapeutic possibilities in tumor microenvironment and the possibility of using non-coding RNAs through interaction with tumor cells. I recommend the manuscript for publication in the World Journal of Biological Chemistry.

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# ESPS PEER-REVIEW REPORT

**Name of journal:** World Journal of Biological Chemistry
**ESPS manuscript NO:** 16688
**Title:** Adipocyte Activation of Cancer Stem Cell Signaling in Breast Cancer
**Reviewer's code:** 02800292
**Reviewer's country:** Cyprus
**Science editor:** Yue-Li Tian
**Date sent for review:** 2015-01-28 18:12
**Date reviewed:** 2015-01-31 00:46

| CLASSIFICATION | LANGUAGE EVALUATION | SCIENTIFIC MISCONDUCT | CONCLUSION |
|---|---|---|---|
| [ ] Grade A: Excellent | [ Y] Grade A: Priority publishing | PubMed Search: | [ Y] Accept |
| [ Y] Grade B: Very good | [ ] Grade B: Minor language polishing | [ ] The same title | [ ] High priority for publication |
| [ ] Grade C: Good | [ ] Grade C: A great deal of language polishing | [ ] Duplicate publication | [ ] Rejection |
| [ ] Grade D: Fair | [ ] Grade D: Rejected | [ ] Plagiarism | [ ] Minor revision |
| [ ] Grade E: Poor | | [Y ] No | [ ] Major revision |
| | | BPG Search: | |
| | | [ ] The same title | |
| | | [ ] Duplicate publication | |
| | | [ ] Plagiarism | |
| | | [Y ] No | |

## COMMENTS TO AUTHORS

Well-written review article summarizing the relationship between adipocytes in the microenvironment and breast cancer cells, empasizing on the role of adipocyte-secreted leptin and IL-6 in inducing breast cancer cell EMT and activating stemness pathways. The authors should be congratulated for their effort and the review article deserves to be published. Minor comments: 1) Information regading experiments performed on the differential expression of miRNAs in adipose tissue after long-term high-fat diet-induced obesity in mice should be included in the text (PLoS One. 2012;7(4):e34872). 2) In the last paragraph, perhaps the authors could emphasize on the role of the miR-200 family on EMT.