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OPEN PEER REVIEW

KMT2D Induces M1 Macrophage Polarization to Repress Non-small Cell Lung Cancer Progression via Transcription Activation of ITGAL

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About this report

This open peer review (OPR) report shows the public comments made on this article during peer review, by the reviewers, the associate editor and the editor-in-chief, for every revision round, together with the authors' replies. Comments appear only with the consent of the people who wrote them. Reviewers who chose to sign their report are named; the others are shown as "Referee". Comments are edited for language only, and confidential remarks to the editors are not included.

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1 Original submission

3 comments · 22 Jan 2025 – 23 Jan 2025

Referee 1 Reviewer

MAJOR REVISION 22 Jan 2025

The present study aimed to investigate the role of KMT2D expression in macrophage polarization and also the role of macrophage polarization in the growth, migration, and invasion of NSCLC cells. This research was well-designed and well-written. However, some points are raised:
1- The inclusion and exclusion criteria should be written in the clinical sample collection section.

2- Page 7, line 102: It is recommended to add the names of the cell lines.

3- The methods are written very briefly. It is suggested that this section be written in more detail.

4- KI-67 is mentioned in the results section, but no explanation is given in the introduction. The purpose of its evaluation and its role in the study should be explained.

5- It is necessary to specify the number of repetitions of experiments.

6- It is necessary to mention the source of the materials used in a separate section.

7- How were the primers selected? If the primers were selected from another article, the relevant reference should be given.

Hamed Montazeri Reviewer

ACCEPT 23 Jan 2025

Although the role of KMT2D in ITGAL expression has been studied before, there is no similar study in which the consequences of KMT2D expression in a macrophage/NSCLC cell co-culture system have been investigated.

Associate Editor

MINOR REVISION 23 Jan 2025

Minor revision

2

Revision 1

AUTHORS' RESPONSE TO REVIEWERS

Authors' reply to reviewers

The next pages contain the authors' point-by-point reply to the comments of this revision round, as submitted with the revised manuscript. It is published as the authors wrote it.

Reviewers' Comments:

Reviewer 1:

Although the role of KMT2D on ITGAL expression has been studied before, but there is no similar study in which the consequences of KMT2D expression in a macrophage/NSCLC cells co-culture system has been investigated.

Response: Thank you for your insightful comment. This study explored the consequences of KMT2D expression in a macrophage/NSCLC cells co-culture system, which is the innovation of our study.

Reviewer 2:

The present study aimed to investigate the role of KMT2D expression in macrophage polarization and also the role of macrophage polarization in growth, migration and invasion of NSCLC cells. This research was well- designed and well-written. However, some points are raised:

1- The inclusion and exclusion criteria should be written in clinical sample collection section.

Response: Thank you for your advice. The inclusion and exclusion criteria have been written in the Methods section (clinical sample collection).

2- Page 7, line 102: It is recommended to add the name of cell lines

Response: Thank you for your kind suggestion. The names of cell lines have been added here.

3- The methods are written very briefly. It is suggested that this section be written in more details.

Response: Thank you for your kind suggestion. We have provided more details in the Methods section. Please see the revised manuscript for detail.

4- KI-67 is mentioned in the results section, but no explanation is given in introduction. The purpose of its evaluation and its role in the study should be explained.

Response: Thank you for your advice. We have introduced the purpose and role of evaluation of Ki-67 in the introduction section (the last paragraph).

5- It is necessary to specify the number of repetitions of experiments.

Response: We really appreciate your valuable suggestion. The number of repetitions of experiments has been explained in the figure legends.

6- It is necessary to mention the source of the materials used in a separate section.

Response: Thanks so much for your suggestion. We have added the source of the materials used in a separate section in the Methods section (Reagents and antibodies).

7- how the primers were selected? If the primers are selected from another article, relevant reference should be given

Response: We appreciate your suggestion. The primers were designed and synthesized

by Sangon biotech (Shanghai, China). We have explained this in the Methods section (RT-qPCR).

2 Revision 1

2 comments · 19 Feb 2025 – 19 Feb 2025

Referee 1 Reviewer

ACCEPT 19 Feb 2025

No comment.

Associate Editor

ACCEPT 19 Feb 2025

Accept