

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 58167

Title: MIRK/DYRK1B implication in stem/cancer stem cells biology

Reviewer's code: 02446191

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-10

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-07-11 05:10

Reviewer performed review: 2020-07-25 10:16

Review time: 14 Days and 5 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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (High priority) <input 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

This is a well written manuscript wherein the authors describe the functions of DYRK1B kinase in detail in various cellular developmental processes as well as its cross talk with number of signaling pathways like Sonic hedgehog, RAS and PI3K/mTOR/AKT.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 58167

Title: MIRK/DYRK1B implication in stem/cancer stem cells biology

Reviewer's code: 02728252

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-10

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2020-09-07 04:05

Reviewer performed review: 2020-09-08 08:16

Review time: 1 Day 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 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 type="checkbox"/> Yes <input checked="" 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

The manuscript is coherently organized and presented with the language style and grammar are accurate and appropriate. This review summarizes the major known functions of DYRK1B kinase in development and human diseases focusing on the homeostasis of stem and cancer stem cells.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 58167

Title: MIRK/DYRK1B implication in stem/cancer stem cells biology

Reviewer's code: 03813908

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-10

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2020-09-08 01:51

Reviewer performed review: 2020-09-11 03:11

Review time: 3 Days and 1 Hour

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 checked="" 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

SPECIFIC COMMENTS TO AUTHORS

In this review, the authors roundly summarized the functions and potential mechanisms of DYRK1B. It is of interest to relative researchers. However, the manuscript is confusion in logic, which made it hard to read. The review can just be divided into four sections mainly discuss about Introduction, Function, Mechanism and Conclusions. The authors should rearrange the content and made it readable.

PEER-REVIEW REPORT

Name of journal: World Journal of Stem Cells

Manuscript NO: 58167

Title: MIRK/DYRK1B implication in stem/cancer stem cells biology

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: Greece

Manuscript submission date: 2020-07-10

Reviewer chosen by: Le Zhang

Reviewer accepted review: 2020-09-09 06:57

Reviewer performed review: 2020-09-21 00:34

Review time: 11 Days and 17 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 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 checked="" 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

"This review article focuses on the role of DYRK1B in multiple cell signaling contexts, including the regulation of proliferation, differentiation, cell death and survival, with particular emphasis to stem cell dynamics under both physiological and de-regulated, pathological conditions. The Authors have provided a nicely planned and articulated analysis of the multifaceted actions of one of the most complex and intriguing kinases, thoroughly discussing both the known and still elusive patterning. The review also provides an interesting analysis of the putative therapeutic interventions that may be envisioned on the activity of DYRK1B to control normal stem cell fate, as well as the biology of cancer stem cells. In my opinion this article is acceptable for publication in its present form"

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Stem Cells

Manuscript NO: 58167

Title: MIRK/DYRK1B implication in stem/cancer stem cells biology

Reviewer's code: 03813908

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Greece

Manuscript submission date: 2020-07-10

Reviewer chosen by: Chen-Chen Gao

Reviewer accepted review: 2020-09-30 08:52

Reviewer performed review: 2020-10-02 11:33

Review time: 2 Days and 2 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 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
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

The authors have revised the manuscript according to the comments.