

PEER-REVIEW REPORT

Name of journal: *World Journal of Gastrointestinal Oncology*

Manuscript NO: 74218

Title: Role of Sirtuins in esophageal cancer: Current status and future prospects

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03024207

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Full Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2021-12-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-19 14:41

Reviewer performed review: 2021-12-28 15:30

Review time: 9 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 Grade E: Do not publish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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statementsConflicts-of-Interest: [☐] Yes [☒] No**SPECIFIC COMMENTS TO AUTHORS**

Authors review the current findings and future prospects of sirtuins in EC. However, there are still relatively few reports about sirtuins in EC, especially in the past 5 years. And most of the published articles are related to SIRT1, and the authors have conducted a systematic review on the role of SIRT1 in ESCC. Besides, the review can be shortened to be precise to address the issue of the role of sirtuins in EC. According to the results of limited reports, the role of Sirtuin in esophageal cancer is still unclear.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05083802

Position: Editorial Board

Academic degree: DNB, MBBS, MCh, MS

Professional title: Additional Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Japan

Manuscript submission date: 2021-12-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-29 14:11

Reviewer performed review: 2022-01-01 18:03

Review time: 3 Days and 3 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
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The authors have highlighted the need for the current review by clearly documenting the knowledge gap on the role of Sirtuins in esophageal cancer. I have the following comments. A brief methodology section on the search strategy used by the authors to identify the relevant manuscripts can be included. As the role of Sirtuins is controversial with studies showing both tumor-promoting and suppressor effects, authors may discuss the influence of diagnostic tests used in the various studies and whether the use of less specific tests could have confounded the results. Also, the preferred diagnostic technique based on the current evidence can be added. Sirtuins have been wrongly spelled in the title.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05934641

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor, Associate Research Scientist, Senior Researcher, Senior Scientist

Reviewer's Country/Territory: China

Author's Country/Territory: Japan

Manuscript submission date: 2021-12-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-31 05:52

Reviewer performed review: 2022-01-11 08:06

Review time: 11 Days and 2 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 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

This well-written review systematically summarized the biological functions of surtuins family in esophageal cancer, and provides personal prospects in this field. I have a few suggestions to improve the manuscript. 1. Expression data of surtuins level in esophageal cancer could be simply analyzed, based on many public databases, such as TCGA, which would improve more intuitive information. 2. This review focuses on the biological functions of apoptosis, metabolism, stress response, senescence, differentiation and cell cycle progression. It would be nice to be able to provide some actual clinical prognostic results.