



PEER-REVIEW REPORT

Name of journal: World Journal of Translational Medicine

Manuscript NO: 60193

Title: Machine intelligence for precision oncology

Reviewer's code: 03868670

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Canada

Author's Country/Territory: United States

Manuscript submission date: 2020-10-19

Reviewer chosen by: Ya-Juan Ma

Reviewer accepted review: 2020-10-28 05:05

Reviewer performed review: 2020-10-28 05:25

Review time: 1 Hour

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 Grade E: Do not publish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 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 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

Very nice review of the current state of AI in precision oncology



PEER-REVIEW REPORT

Name of journal: World Journal of Translational Medicine

Manuscript NO: 60193

Title: Machine intelligence for precision oncology

Reviewer's code: 02539323

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: United States

Manuscript submission date: 2020-10-19

Reviewer chosen by: AI Technique

Reviewer accepted review: 2020-10-20 02:10

Reviewer performed review: 2020-11-07 14:10

Review time: 18 Days and 11 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 Grade E: Do not publish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 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



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SPECIFIC COMMENTS TO AUTHORS

This editorial has reviewed and discussed the application of ML and DL on the analysis of radiological and histological images, as well as multi-omics data in precision oncology. I have the following comments for the revision. 1. Concerning the applications on radiological and histological images, the information is relatively sufficient. However, the paragraphs for multiomic data are quite brief for such a big topic. Some enrichment may be necessary. 2. Data-driven machine learning (ML) and deep learning (DL) are the main focus of this editorial. For readers that are not familiar with computer science, a few sentences to highlight the differences between these two terms may be necessary. 3. The author has plainly described the contents of cited references. However, readers may expect more contents on the discussion of current issues, drawbacks and bottlenecks and more detailed description of the future perspectives.



RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Title: Machine intelligence for precision oncology

Reviewer’s code: 02539323

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer’s Country/Territory: China

Author’s Country/Territory: United States

Manuscript submission date: 2020-10-19

Reviewer chosen by: Chen-Chen Gao

Reviewer accepted review: 2020-12-23 16:08

Reviewer performed review: 2020-12-23 16:15

Review time: 1 Hour

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
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 author has satisfactorily answered the questions from the reviewer.