



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Cancer

**Manuscript NO:** 58075

**Title:** Applications of Artificial Intelligence in, Early Detection of Cancer, Clinical Diagnosis and Personalized Medicine

**Reviewer's code:** 00068967

**Position:** Editorial Board

**Academic degree:** MSc, PhD

**Professional title:** Academic Research, Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-07-06

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2020-07-13 03:09

**Reviewer performed review:** 2020-07-13 08:39

**Review time:** 5 Hours

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

Throughout the very short manuscript, the authors have not centralized an obvious issue that is what AI do and How AI will do to the cancer diagnosis or treatment. Of course, with such a short paragraph, it is not of possibility to implicate such a broad area at all. If the point of view focused just on the early diagnosis, it will has some probability to express it superfically. The references are not uniformed according to the author guidance.



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Cancer

**Manuscript NO:** 58075

**Title:** Applications of Artificial Intelligence in, Early Detection of Cancer, Clinical Diagnosis and Personalized Medicine

**Reviewer's code:** 05224959

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** Spain

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-07-06

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2020-07-13 11:49

**Reviewer performed review:** 2020-07-18 09:33

**Review time:** 4 Days and 21 Hours

<b>Scientific quality</b>	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	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 author is dealing with the Artificial Intelligence in Cancer. In this paper, Ullah et al. show a quick review of the usefulness of AI approaches in the early detection of cancer. AI is capable of detecting cancer at an early stage with accurate diagnosis and improved survival outcomes. Despite the complex data involved in cancer, AI can identify tumors even in early stages. I think it would be interesting to include some small reference to Soft Computing, as an emerging field of IA in the treatment of uncertainty. I include some references on soft computing techniques, which have provided solutions for cancer, regarding diagnosis, and so on: - Bhatia, A., Mago, V., & Singh, R. (2014, September). Use of soft computing techniques in medical decision making: A survey. In 2014 IEEE International Conference on Advances in Computing, Communications and Informatics (ICACCI) (pp. 1131-1137). - Alcantud, JCR et al. (2019). Analysis of survival for lung cancer resections cases with fuzzy and soft set theory in surgical decision making. Plos one, 14(6), e0218283. The manuscript is very interesting. The motivation and justification are appropriate. The paper is well written in correct English. Now I include some typographical errors in References: Almost all recommendations are related to the homogenization of capitalization and the full version in the names of the journals Ref. 1: For: a cancer journal for clinicians read: A Cancer Journal for Clinicians Refs. 2 and 5: For: Nature medicine read: Nature Medicine Ref. 4: For: Anticancer research read: Anticancer Research Ref. 6: For: Expert review of medical devices read: Expert Review of Medical Devices Ref. 9: Need For Specialized Therapeutic Stem Cells Banks Equipped With Tumor Regression Enzymes And Anti-Tumor Genes. J BiomedAllied Res Need for specialized therapeutic stem cells banks equipped with tumor regression enzymes and anti-tumor genes. Journal of Biomedical and Allied Research Ref. 13: M. Rantalainen Rantalainen, M. Ref. 14: Pearce, G., et al. Artificial neural network and mobile applications in medical diagnosis. In 2015 17th UKSim-AMSS International Conference on Modelling and Simulation (UKSim). 2015. IEEE, Cambridge, pp. 61-64. Ref. 17: Ageing Res Rev Ageing research reviews Ref. 18: For: Ullah M, A.A., Clinical Relevance of RNA Editing to Early Detection of Cancer in Human. Int J Stem Cell Res Ther 2020. 7:066. . read: Ullah, M. and Akbar, A., Clinical Relevance of RNA Editing to Early Detection of Cancer in Human. International Journal of J Stem Cell Research & Therapy



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2020. 7:066. Ref. 20: The Pandemic of Novel Coronavirus Disease 2019 (COVID-19): Need for an Immediate Action The pandemic of novel coronavirus disease 2019 (COVID-19): Need for an immediate action Ref. 21: Health and technology Health and Technology.



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Cancer

**Manuscript NO:** 58075

**Title:** Applications of Artificial Intelligence in, Early Detection of Cancer, Clinical Diagnosis and Personalized Medicine

**Reviewer's code:** 03093768

**Position:** Editorial Board

**Academic degree:** MD, PhD

**Professional title:** Associate Professor, Doctor, Surgeon, Surgical Oncologist

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-07-06

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2020-07-13 07:33

**Reviewer performed review:** 2020-07-19 09:07

**Review time:** 6 Days and 1 Hour

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

Recite Figure 1-2 in the paper "Application of artificial intelligence in clinical non-small cell lung cancer, DOI: <https://dx.doi.org/10.35713/aic.v1.i1.19>." to some extent it is recommended to adjust. The abstract is a bit convoluted and lacks clear logic.



## PEER-REVIEW REPORT

**Name of journal:** Artificial Intelligence in Cancer

**Manuscript NO:** 58075

**Title:** Applications of Artificial Intelligence in, Early Detection of Cancer, Clinical Diagnosis and Personalized Medicine

**Reviewer's code:** 04723209

**Position:** Editorial Board

**Academic degree:** PhD

**Professional title:** Assistant Professor

**Reviewer's Country/Territory:** China

**Author's Country/Territory:** United States

**Manuscript submission date:** 2020-07-06

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2020-07-06 02:59

**Reviewer performed review:** 2020-07-23 12:04

**Review time:** 17 Days and 9 Hours

<b>Scientific quality</b>	<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
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Peer-reviewer statements</b>	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**

In the manuscript by Ullah et al., the authors reviewed artificial intelligence (AI) applied to various areas of clinical decision making. The topic is very hot, interesting, and relevant. However, I have a few recommendations. 1. A number of applications were enumerated in the section “Applications of artificial intelligence”. It will be much easier to follow if this section can be restructured and reorganized so that applications in different fields can be more clearly outlined and compared. 2. Although AI has been put to the forefront in cancer research, translating the exciting technology into clinical practice still faces a lot of challenges. It will benefit the readers if the key challenges and potential new technologies to address the challenges can be discussed in detail. 3. Figure 1 and 2 are cited in the manuscript together for multiple times. I suggest that these two figures can be elaborated with extended captions and cited more appropriately.