

### Review Form 3

Journal Name:	<a href="#">Journal of Cancer and Tumor International</a>
Manuscript Number:	Ms_JCTI_129422
Title of the Manuscript:	The Role of Bioelectric Signals in Cancer Genome Regulation and Potential Therapeutic Implication: An Overview
Type of the Article	Review Article

#### **General guidelines for the Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guidelines for the Peer Review process, reviewers are requested to visit this link:

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#### **Important Policies Regarding Peer Review**

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#### **PART 1: Comments**

	<b>Reviewer's comment</b>	<b>Author's Feedback</b> <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
<b>Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.</b>	The manuscript presents a thorough and insightful overview of glioblastoma multiforme (GBM), emphasizing the complexities associated with its treatment and underscoring the necessity for innovative therapeutic strategies. By integrating recent studies and clinical data, the manuscript maintains its relevance and reflects the latest advancements in GBM treatment, thereby serving as a significant resource for researchers and clinicians. Moreover, it highlights the critical role of understanding the bioelectric properties of cancer cells, offering novel perspectives for research and therapeutic interventions. This approach has the potential to revolutionize cancer management and contribute substantially to the development of more effective treatment modalities.	
<b>Is the title of the article suitable? (If not please suggest an alternative title)</b>	Yes, it is suitable because the title should accurately reflect the content and focus of the manuscript, particularly its emphasis on glioblastoma multiforme (GBM) and the innovative treatment strategies being discussed, such as tumor-treating fields and their integration with traditional therapies. <b>Suggestion:</b> However, to enhance clarity and emphasize the integration of modern approaches, an alternative title could be "Innovative Approaches in Glioblastoma Treatment: Integrating Tumor-Treating Fields and Bioelectric Modulation," which highlights both the specific cancer type and the novel treatment strategies discussed in the manuscript.	

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<p><b>Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.</b></p>	<p>Yes, the abstract of the article is comprehensive. It should clearly outline the primary objective of the study, specifically focusing on the challenges of treating glioblastoma multiforme (GBM) and the rationale for exploring tumor-treating fields (TTFs) as a novel therapeutic approach. This clarity will help readers understand the manuscript significance right from the start.  <b>Suggestion:</b> It would be beneficial to include a brief summary of the methodology used in the study, particularly how the integration of TTFs with traditional therapies like temozolomide was assessed. This addition would provide context for the findings and enhance the abstract's comprehensiveness.</p>	
<p><b>Is the manuscript scientifically, correct? Please write here.</b></p>	<p>The structure and subsections of the manuscript are well-organized, effectively addressing important aspects of glioblastoma multiforme (GBM) research. It clearly explains the role of bioelectrical signals in cancer biology, particularly their impact on gene expression and tumor growth, which are well-known concepts in the field. It correctly points out that abnormal ion channel activity and membrane potential are key features of cancer cells, showing how these bioelectric changes contribute to cancer development. It also highlights the potential for using bioelectric markers to improve early cancer detection and monitoring. By combining bioelectricity with genetic and epigenetic mechanisms, the manuscript presents an encouraging interdisciplinary approach that reflects current progress in cancer research.</p>	
<p><b>Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.</b></p>	<p>The references in the article appear to be sufficient and relatively recent, covering a range of relevant studies and reviews that contribute to the understanding of bioelectricity in cancer.</p>	
<p><b>Is the language/English quality of the article suitable for scholarly communications?</b></p>	<p>Yes, the language in the article is precise and technical, suitable for scholarly communications, as it effectively conveys complex concepts related to bioelectric signals in cancer, presenting them in a clear and structured manner that facilitates reader comprehension.</p>	
<p><b>Optional/General</b> comments</p>	<p>The article effectively conveys complex concepts related to bioelectric signals in cancer, presenting them in a clear and structured manner that facilitates reader comprehension. It offers a thorough overview of the role of bioelectricity in cancer biology; however, certain areas, such as detailed case studies or examples of successful interventions, could benefit from further elaboration. The findings underscore significant implications for future cancer therapies and diagnostics, emphasizing the potential of bioelectric modulation to enhance existing treatments and improve patient outcomes. Furthermore, the integration of bioengineering, cellular biology, and oncology within this research highlights the critical role of a multidisciplinary approach in deepening our understanding of cancer and driving the development of innovative therapeutic strategies.</p>	

**PART 2:**

	<p><b>Reviewer's comment</b></p>	<p><b>Author's comment</b> (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</p>
<p><b>Are there ethical issues in this manuscript?</b></p>	<p><i>(If yes, Kindly please write down the ethical issues here in details)</i></p>	

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