



**SDI Review Form 1.6**

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|--------------------------|----------------------------------------------------------------------------------------------------|
| Journal Name:            | <a href="#">Journal of Advances in Mathematics and Computer Science</a>                            |
| Manuscript Number:       | <b>Ms_JAMCS_40185</b>                                                                              |
| Title of the Manuscript: | <b>Incorporating folding, unfolding, denaturation in a mathematical model for cancer spreading</b> |
| Type of the Article      | <b>Original Research Article</b>                                                                   |

**General guideline for 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 guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

**PART 1: Review Comments**

|                                            | Reviewer's comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Author's comment (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) |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |
| <b><u>Minor</u></b> REVISION comments      | <p>World known biological protein materials like Arteries, bones and tendons are constantly in a state of continuous stress due to their respective activities within the body. This stress will result to an increase in tissue residual temperature and consequently denaturation. The effects of denaturation on tumor initiation and progression is considered. All the parameters are integrated into a step computational procedure, later transformed into a series of partial differential equations in time and space. A program was written to retrieved the steady states using parameters mined from existing and related models. The non-significant stable trivial steady state was observed to be driven unstable with an increasing in diffusion coefficient of the denatured cells. As denaturation increases, the progression of tumor is exponential given a maker that denaturation favors the tumor population doubling model observed in many mathematical and biomedical studies. The outcome of this research can as well fit into other classes of tumor and will go a long way to contribute to the eventual eradication of tumor by suggesting elimination of stress of all forms in the body.</p> <p>1) It seems that the technique of this paper is well-known. The authors must clearly show the difference and improvements in comparison with the existing results in the view of technique analysis.<br/>                 2) The motivation on why to propose such a framework and strategy in real-world applications should be clearly emphasized. It would be much better if some guideline remark words on practical applications should be given.<br/>                 3) Explain the feasibility of the results from the implementation and computational point of view. Some remark words on computation complexity of the results should be given.</p> <p>To the best of my knowledge, the mathematics are correct. The results in this paper seem to be new. Based on the above reasons, I recommend it for publication after minor revision.</p> |                                                                                                                                                                               |
| <b><u>Optional/General</u></b> comments    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                               |

**Reviewer Details:**

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|----------------------------------|-----------------------------------|
| Name:                            | <b>Grienggrai Rajchakit</b>       |
| Department, University & Country | <b>Maejo University, Thailand</b> |