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| Book Name: | [Medical Science: Trends and Innovations](https://www.bookpi.org/bookstore/product/medical-science-trends-and-innovations-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_** **4537** |
| Title of the Manuscript:  | **Genetic and molecular analysis of Cancer Testis Antigen 45 in ovarian cancer** |
| Type of the Article | **BOOK CHAPTER** |

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **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.** | This manuscript explores the role of Cancer Testis Antigen 45 (CT45) in ovarian cancer, highlighting its potential as a biomarker and therapeutic target. Ovarian cancer remains one of the deadliest malignancies due to late diagnosis and chemotherapy resistance, making novel biomarkers crucial. The paper provides an extensive literature review on the expression, function, and immunotherapy potential of CT45, offering valuable insights for both oncologists and molecular biologists. Additionally, it discusses CT45-targeted therapies and their role in DNA damage signaling, which can inform future clinical and translational research |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | The current title, "Genetic and Molecular Analysis of Cancer Testis Antigen 45 in Ovarian Cancer", is relevant and informative |  |
| 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. | The abstract is comprehensive, but it could be improved by:* Clearly stating the research gap and why CT45 is a superior biomarker compared to CA125.
* Briefly mentioning methodology (how data was collected).
* Including a concluding sentence that summarizes clinical significance and future directions.
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| **Is the manuscript scientifically, correct? Please write here.**  | The manuscript is scientifically sound, but some areas require clarification such as mechanism of CT45 in DNA damage signaling – The discussion is informative but lacks a direct mechanistic model (e.g., diagrams or pathways). |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | The references included in the manuscript are largely relevant and recent; however, they are not consistently formatted. It is recommended to standardize all references according to a specific citation style of the journal to maintain uniformity and enhance readability. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is scholarly and precise |  |
| Optional/General comments | Areas for Improvement:* Refine abstract for clarity and impact.
* Improve discussion of CT45’s role in different histological subtypes.
* Add more quantitative data and figures/tables for visualization.
* Include newer references on CT45-targeted therapies and format it according to the journals requreiments.
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| **PART 2:**  |
|  | **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)* |
| **Are there ethical issues in this manuscript?**  | *(If yes, Kindly please write down the ethical issues here in details)* |  |

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| **Reviewer Details:** |
| Name: | **Sreejesh P C** |
| Department, University & Country | **St Aloysius (Deemed to be University), India** |