## Review Form 1.7

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| Journal Name: | **Journal of Pharmaceutical Research International** |
| Manuscript Number: | **Ms_JPRI_104794** |
| Title of the Manuscript: | **Comparative Study of in vitro Cytotoxic Effect of Leaves and Stem Extracts of Clitoria ternatea by Brine Shrimp Lethality Assay** |
| Type of the Article | **Original Research Article** |

**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:

(https://www.journaljpri.com/index.php/JPRI/editorial-policy )

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**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)* |
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| **Compulsory** REVISION comments<br><br>**1. Is the manuscript important for scientific community?**<br>(Please write few sentences on this manuscript)<br><br>**2. Is the title of the article suitable?**<br>(If not please suggest an alternative title)<br><br>**3. Is the abstract of the article comprehensive?**<br><br>**4. Are subsections and structure of the manuscript appropriate?**<br><br>**5. Do you think the manuscript is scientifically correct?**<br><br>**6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.**<br><br>**(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)** | **Yes**<br><br>**Yes**<br><br>**Yes**<br><br>**Yes**<br><br>**Yes**<br><br>**References are very old.**<br>**Recent references must be added by author.** | |
| **Minor** REVISION comments<br><br>**1. Is language/English quality of the article suitable for scholarly communications?** | Yes | |
| **Optional/General** comments | This study was done for the comparison of cytotoxic effects of methanolic leaves and stem extracts of *Clitoria ternatea* (Fabaceae) by brine shrimp lethality assay. Dried leaves and stems were macerated with methanol separately and preliminary phytochemical screenings were carried out. Hatched brine shrimp nauplii were chosen for the assay. The effect was assessed by calculating % mortality of nauplii with different concentrations of the test extracts (1, 10, 25, 50, 100, 500 and stems revealed to possess chiefly alkaloids, phenols and flavonoids. Both the extracts exhibited promising outcomes in dose dependant manner while significant responses in most of the doses were also 1000 µg/ml) and standard vincristine sulphate. All sets were performed in triplicate. The extracts of leaves and calculated. Leaves were found to be more potent ($LC_{50}$ value of 276.29 µg/ml.) compared to the stems ($LC_{50}$ value of 322.95 µg/ml.). All the doses of the standard Vincristine sulphate were found to display significant activity compared to the control and was calculated to have $LC_{50}$ value of 11.75 µg/ml. The methanolic extracts of leaves and stems have shown potential cytotoxicity against brine shrimp which were highly comparable with standard.<br><br>**Manuscript is very well written. Recommended for publication in the journal after addition of some new references** | |

**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)* |
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| **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:**

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|---|---|
| Name: | **Amit Gupta** |
| Department, University & Country | **I B S, Dr. B R Ambedkar University, India** |