

Review Form 3

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| Journal Name: | Asian Journal of Applied Chemistry Research |
| Manuscript Number: | Ms_AJACR_128772 |
| Title of the Manuscript: | anti-breast cancer activity of some new organoselenium compounds |
| Type of the Article | Original Research 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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Review Form 3

PART 1: Comments

| | Reviewer's comment | 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. | The document is about the synthesis of a series of new organoselenium such as selenazole, (selenazol-nitrone) and selenazine derivatives. All synthesized compounds were characterized by FTIR, 1H NMR, 13C NMR and MASS spectroscopy. MTT assay were realized to evaluate anti-breast cancer activity of 2, 4-diphenyl-6H-1, 3-selenazine (S6). The cytotoxicity study showed that this compound is likely to be a potential candidate against breast cancer. Therefore, this work is a contribution to the resolution of health problems related to breast cancer and opens up very interesting research perspectives. | |
| Is the title of the article suitable? (If not please suggest an alternative title) | Yes, however, I suggest the following reformulation: « <i>Synthesis and anti-breast cancer activity of some new organoselenium compounds</i> » | |
| 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 of the article is comprehensive. | |
| Is the manuscript scientifically, correct? Please write here. | Yes, I think this manuscript is scientifically correct. | |
| Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form. | The references are sufficient and recent. | |
| Is the language/English quality of the article suitable for scholarly communications? | Yes, the language/English quality of the article is suitable for scholarly communications. | |
| Optional/General comments | <p>The document is well written and results are well discussed. However, the authors have to consider the following suggestions and comments:</p> <ul style="list-style-type: none"> - Please clearly enunciate the objective of your study in the introduction - Review the last sentence of the introduction: <i>derivatives and evaluated the anti-proliferation of one derivative (1, 3-selenazine (S6), namely 2, 4-diphenyl-6H-1, 3-selenazine) as anti-breast cancer via MTT assay for 24 and 48 h.</i> - If possible, to include in the manuscript a figure showing the IR spectra of 2,4-diphenyl-6H-1 (S6) as an example. | |

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? | <i>(If yes, Kindly please write down the ethical issues here in details)</i> | |

Reviewer Details:

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|----------------------------------|---|
| Name: | BEDE Affoue Lucie Epse Bagayoko |
| Department, University & Country | University Felix Houphouet-Boigny, Ivory Coast |