

**Review Form 1.6**

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|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Journal Name:            | <a href="#">Annual Research &amp; Review in Biology</a>                                                                                                                             |
| Manuscript Number:       | Ms_ARRB_85413                                                                                                                                                                       |
| Title of the Manuscript: | Larval development and environmetal improvement: the case of neutralization of conventional agricultural insecticide effects by Anopheles gambiae s.s. in the laboratory conditions |
| 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.journalarrb.com/index.php/ARRB/editorial-policy> )

## Review Form 1.6

### **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>Compulsory</b> REVISION comments | <ol style="list-style-type: none"><li>1- The results of this study do not permit you to say that mosquito larvae are able to neutralize the insecticides in their breeding environment. To confirm this, you need to test the solutions used as breeding media for the existence of neutralizing substances secreted by these larvae. So, i suggest to change the title and the conclusion to adapt it to your results.</li><li>2- what makes you say that the mosquito strain is <i>Anopheles gambiae</i> s.s and not <i>Anopheles gambiae</i> s.l ?</li><li>3- The titles of the tables are at the top and the comments at the bottom.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                               |
| <b>Minor</b> REVISION comments      | <p><b>Introduction</b></p> <ol style="list-style-type: none"><li>1. L6: "long-lasting insecticidal nets" not "impregnated bed nets" "insecticides pulverizations in the indoor" should be written "Indoor and outdoor residual spraying".</li><li>2. L 18: "Susceptible" not "sensitive"</li><li>3. L22: " in public health" not "for mosquito elimination"</li><li>4. L22-23: "Many works in the world have reported the insecticide resistance among many species of malaria vectors [7, 8, 9, 10 et 11]" This sentence seems to be incomplete.</li><li>5. L24: "The work carried out by..." who ? You may say "reports from countries such many cities in Cameroun [12], highlighted....."</li><li>6. L28 : You may say "According to some reports [13] and [14], the risk of resistance...."</li><li>7. L39-40: "Moreover, [17], [18], [12], [19], [20] and [21] highlighted an enzymatic activity which is responsible of the resistance of <i>An. gambiae</i> s.l. in several insecticide families." Replace "enzymatic activity which is responsible of the resistance of <i>An. gambiae</i> s.l. in several insecticide families is highlighted by some reports [17], [18], [12], [19], [20] and [21]".</li><li>8. References [17], [18], [12], [19], [20] [21] should be in the same bracket.</li></ol> <p><b>Material and method</b></p> <ol style="list-style-type: none"><li>1. L1: Replace "The work took place at the laboratory.... " by the work was conducted at...."</li><li>2. L2: "Susceptible" not "sensitive"</li><li>3. Table 1: "Data about conventional agriculture insecticides selected" should be written "Table 1: Agriculture insecticides selected"</li></ol> <p><b>Test of insecticides stability under experimental conditions</b></p> <ol style="list-style-type: none"><li>4. L1: "This first test about insecticide stability was ..... " It should be written "The first stability insecticide test was..."</li></ol> <p><b>Statistical analysis</b></p> <ol style="list-style-type: none"><li>5. Put a full stop at the end of the last sentence</li></ol> <p><b>RESULTS</b></p> <p><b>Insecticides stability under experimental conditions</b></p> <ol style="list-style-type: none"><li>6. We don't see any numbers in this section</li></ol> <p><b>Insecticides neutralization by larvae of <i>Anopheles gambiae</i></b></p> <ol style="list-style-type: none"><li>7. L3 : "Susceptible" not "sensitive"</li><li>8. The last paragraph of the results is not necessary</li><li>9. Give the meaning of the letters <b>a</b>, <b>b</b> and <b>c</b> mentioned in the results tables</li></ol> <p><b>DISCUSSION</b></p> <ol style="list-style-type: none"><li>10. L15: "Susceptible" not "sensitive"</li></ol> |                                                                                                                                                                               |
| <b>Optional/General</b> comments    | I confirm that I have read this submission and believe that it is an acceptable scientific standard, however I have significant reservations, as outlined above.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                               |

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**PART 2:**

|                                                     |                                                                              |                                                                                                                                                                                             |
|-----------------------------------------------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | <b>Reviewer's comment</b>                                                    | <b>Author's comment</b> <i>(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)</i> |
| <b>Are there ethical issues in this manuscript?</b> | <i>(If yes, Kindly please write down the ethical issues here in details)</i> |                                                                                                                                                                                             |

**Reviewer Details:**

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Name:                            | <b>Behi Kouadio Fodjo</b>                                                               |
| Department, University & Country | <b>Centre Suisse de Recherches Scientifiques en Côte d'Ivoire (CSRS), Côte d'Ivoire</b> |