

**BPI Review Form 070520**

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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Book Name:               | <b><u>Innovations in Biological Science</u></b>                                                                                                                                       |
| Manuscript Number:       | <b>Ms_BPR_248</b>                                                                                                                                                                     |
| Title of the Manuscript: | <b>Impact of Methyl Parathion on Proteins and Esterases patterns in Brain tissue of fresh water Cat fish Heteropneustesfossilis (Bloach) through polyacralamide Gel Electrophorus</b> |
| Type of the Article      | <b>Book chapter</b>                                                                                                                                                                   |

**PART 1: Review Comments**

|                                                                                                                                               | <b>Reviewer's comment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>Author's comment</b> <i>(If agreed with the reviewer, correct the manuscript and highlight that part in the manuscript. Authors must write his/her feedback here)</i> |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Is the manuscript important for the scientific community?<br>Please write a few sentences explaining your answer                              | Always is important to know how the pollutants or chemical compounds affect the fauna and, therefore, indirectly to human population. Specially if the animal,in this case fish, are used as food.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                          |
| Is the title of the article suitable?<br>Do you have any alternative Title in your mind?                                                      | Yes, but need to put in biological context: finishing the title with: use as novel markers of toxicity or contamination.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                          |
| Is the abstract of the article comprehensive?<br>If your answer is No, please provide suggestions                                             | NO, needs a brief explanation why esterases were choice as main proteinsfor this study. Is a biological or physiological reason?                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                          |
| Do you think the English quality of the article is suitable for scholarly communications?<br>If your answer is No, please provide suggestions | NO, English requires extensive editing by a native speaker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                          |
| Please provide your comments regarding the appropriateness of different sections of the manuscript.                                           | Introduction needs to show to reader why authors used esterasesas main proteins in this study. M&M section requires extensive editing about the PAGE protocols. How was the total protein quantification, BCA method or other? How many protein was loaded by lane? How were the esterases stained? Is a specific protocol for identification of these proteins? Is a very weak section of the book. The effect of poisoning on protein Rm or Rf must be showed in a graph (log MW versus Rf) not ina table. Table do not allow evaluate the effect on protein mobility.(see Biorad bulletin 3133). Figure description is very poor, there are not a good description of what mean each experiment showed. |                                                                                                                                                                          |
| Do you think that the references in the manuscript are proper, recent and sufficient?<br>If you have any suggestions, please write here.      | In general, yes. However, there many old references. Authos must update the references. For instances, the reference used to introduce yhe effect pf pesticides on human population is from 1992!!.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                          |

PART 2:

|                                              | Reviewer's comment                                                           | Author's comment <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> |
|----------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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:                            | Jaime Villegas Olavarría        |
| Department, University & Country | Universidad Andrés Bello, Chile |