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| Book Name: | [Contemporary Research and Perspectives in Biological Science](https://www.bookpi.org/bookstore/product/contemporary-research-and-perspectives-in-biological-science-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_3867** |
| Title of the Manuscript:  | **Mitochondrial Function and Metabolic States: On the Differences between Brain In Vitro and In Vivo Conditions and Monitoring** |
| Type of the Article | **Book chapter** |

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| 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.** | **This study is very precious to compare between in-vivo and in-vitro system, although the study focused on the mitochondria in the brain which can lead us to investigate the metabolic state of the mitochondria around the body. The introduction was detailed accurately. Methodolgy needs to be more detailed.** |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **The title is OK but I have a better suggestion**Differences between metabolic function in the Brain In Vitro and In Vivo |  |
| 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. | **Yes. I do not suggest any addition or deletion of the abstract section** |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **According to the provided references and my background the manuscript is scientifically correct and relevant to the guidelines of scientific methods** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **References are sufficient but I did not like the behaviour of self-citation in the last 4 references.** Remove the last 4 references and keep only one to avoid over self-citation |  |
| Is the language/English quality of the article suitable for scholarly communications? | -The English language quality is good but overusing active sentences instead of passive tenses is not recommended and not professional, the researcher used the word (we) many times instead of passive forn.-remove the double space between the two words (decrease) and (under) in the section of results and discussion-Chlorophenol is written as one word not two words-The first sentence in the conclusion section (interconnected) is one word not two words-Number 5 in conclusion section (The isolated mitochondria preparation are not exposed) is grammatically incorrect |  |
| Optional/General comments | -Don't merge results and discussion section in one section-Most of conclusion part should have been put between introduction and discussion section-The methodology is very short and not detailed (we could not know the source of samples used) |  |

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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:** | **Al-Baraa Akram El-Sayed** |
| **Department, University & Country** | **De Montfort University, United Kingdom** |