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| Book Name: | [**Disease and Health: Research Developments**](https://www.bookpi.org/bookstore/product/disease-and-health-research-developments-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_5390** |
| Title of the Manuscript:  | **HIV- and Alcohol-induced Lysosomal Dysfunction in Hepatocytes Pro-motes the Release of Extracellular Vesicles and Contributes to Progressive Liver Damage** |
| Type of the Article | **Book Chapter** |

**Special note:**

**A research paper already published in a journal can be published as a Book Chapter in an expanded form with proper copyright approval.**

**Source Article:**

**This chapter is an extended version of the article published by the same author(s) in the following journal.**

**Biomolecules, 11(10): 1497, 2021.**

**Available:** [**https://doi.org/10.3390/biom11101497**](https://doi.org/10.3390/biom11101497)

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| PART 1: Comments |
|  | Reviewer’s comment**Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | 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.** | Hepatotoxicity in people with HIV is often worsened by alcohol, yet the exact cellular mechanisms are not fully understood. This study zooms in on **acetaldehyde**, a toxic byproduct of alcohol metabolism, and its role as a “second hit” alongside HIV in promoting liver damage. |  |
| **Is the title of the article suitable?****(If not please suggest an alternative title)** | **Yes** |  |
| 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. | 1. The phrase “alcohol remains the least explored ‘second hit’” is a bit vague. You might say:

"...alcohol remains a relatively understudied contributor to the progression of HIV-related liver injury."1. The sentence starting with “Furthermore, the movement of TFEB...” is quite long. It could be broken down for readability:

“Furthermore, AGS exposure impaired the microtubule-dependent translocation of TFEB from the cytosol to the nucleus. This appeared to result from acetylation of α-tubulin.”1. The Sentence “Our findings indicate that metabolically generated acetaldehyde damages lysosomes and likely prevents their repair and restoration, leading to exosome release, thereby exacerbating HIV-induced hepatotoxicity."

"These results demonstrate that acetaldehyde impairs lysosomal integrity and repair, promotes exosome release, and exacerbates HIV-induced hepatotoxicity—offering mechanistic insight into alcohol’s role as a co-factor in liver damage among people with HIV." |  |
| **Is the manuscript scientifically, correct? Please write here.**  | **Yes** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.****-** | **Yes** |  |
| Is the language/English quality of the article suitable for scholarly communications? | Yes |  |
| Optional/General comments | N/A |  |

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| **PART 2:**  |
|  | Reviewer’s comment | Author’s comment *(if agreed with the 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 detail)* |  |

**Reviewer details:**

**Moumita Chakraborty, USA**