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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.** | This chapter addresses a highly relevant and novel topic at the intersection of HIV pathogenesis, alcohol-induced liver damage, lysosomal dysfunction, and extracellular vesicle (EV) biology. The experimental approach is comprehensive, utilizing both in vitro and in vivo models, including humanized mouse models, which strengthens the translational relevance of the findings. The mechanistic depth of the work, particularly regarding TFEB regulation, DRAM1/BAX signaling, and lysosomal integrity, is impressive. |  |
| **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. | Simplify and clarify key findings. Specify more clearly the mechanistic insights (e.g., “acetylation of α-tubulin impairs TFEB nuclear translocation, compromising lysosome biogenesis”). |  |
| **Is the manuscript scientifically, correct? Please write here.** | Needs some amendements as : - Add a sentence at the end of the introduction clearly stating the study hypothesis and objectives.  - Consolidate the roles of TFEB, DRAM1, and BAX in lysosomal dysfunction mechanisms into a visual model (Figure) earlier in the chapter or at the end of the Results for clearer conceptual impact.  - Specify sample sizes (n), exact p-values where applicable, and statistical tests used per figure.  - Address how purity was ensured (e.g., use of exosome-negative markers like calnexin was mentioned but not clearly shown in figures).  - Expand the discussion on how these findings could impact management of liver disease in PLWH, especially those who consume alcohol  - Ensure Table 1 is included and clearly distinguishes synergistic from independent effects of HIV and AGS  - Enhance legends with concise summaries of experimental design and outcomes for each figure**.** |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | Some entries have access dates in the future (e.g., accessed 2025/02/06) — correct for publication accuracy |  |
| Is the language/English quality of the article suitable for scholarly communications? | Terms like “lysosome leakage,” “lysosome membrane permeabilization,” and “lysosomal rupture” are used somewhat interchangeably |  |
| Optional/General comments |  |  |

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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:**

**Amir Soliman , Delta University for Scince and Technology, Egypt**