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| Book Name: | [**Medical Science: Recent Advances and Applications**](https://bookstore.bookpi.org/product/medical-science-recent-advances-and-applications-vol-1/) |
| Manuscript Number: | **Ms\_BPR\_6139** |
| Title of the Manuscript: | **C/Enhancer binding homologous protein and Lipoprotein receptor related protein-1 genes and their expression in Type 2 Diabetes Mellitus subjects: A Future Therapeutic Intervention** |
| Type of the Article | **Book Chapter** |

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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 manuscript addresses an emerging area in diabetes research by exploring the role of C/EBP homologous protein (CHOP) and low-density lipoprotein receptor–related protein 1 (LRP1) genes in modulating endoplasmic reticulum (ER) stress in Type 2 Diabetes Mellitus (T2DM). Given the increasing global prevalence of T2DM and the limitations of current therapies, this topic holds significant translational potential for developing novel gene-targeted interventions. The work also contributes to the growing body of evidence linking ER stress to the pathophysiology of diabetes-related complications. The manuscript is valuable as it integrates molecular insights with potential therapeutic implications, which may inspire future research in personalized medicine and gene therapy for metabolic disorders. |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title is informative but slightly lengthy. A more concise alternative could be:  “Role of CHOP and LRP1 Gene Expression in Type 2 Diabetes Mellitus: Potential for Future Therapeutic Intervention”  This retains clarity while improving readability. |  |
| 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. | The abstract is generally comprehensive and covers background, molecular targets, and therapeutic potential. However, the following improvements are suggested:   * Include a brief mention of how these genes might be targeted therapeutically (e.g., gene silencing, upregulation, CRISPR-based modulation). * Add a sentence summarizing the review’s methodology or literature scope (e.g., key databases searched, inclusion criteria). * Clarify whether the review focuses mainly on preclinical or clinical evidence. |  |
| **Is the manuscript scientifically, correct? Please write here.** | The manuscript is scientifically sound in its conceptual framework, and the described roles of CHOP and LRP1 in ER stress and T2DM pathogenesis are consistent with current literature. However, additional discussion on the interplay between lipid metabolism, ER stress signaling pathways, and inflammatory responses could further strengthen the argument. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.**  **-** | References should be reformatted uniformly according to the target journal’s guidelines. |  |
| Is the language/English quality of the article suitable for scholarly communications? | The English language is generally suitable for scholarly communication, though minor grammatical refinements and sentence restructuring would improve clarity. |  |
| Optional/General comments | * All figures should be standardized for style, resolution, and labeling consistency. * Some key datasets would be better represented in table format for clarity (e.g., summarizing studies linking CHOP and LRP1 with ER stress in T2DM). * References should be reformatted uniformly according to the target journal’s guidelines. * Font style, size, and heading hierarchy should be consistent throughout the manuscript. |  |

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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)* |  |

**Reviewer details:**

**Ganesh Sonawane, Divine College of Pharmacy, India**