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REVIEWER'S REPORT

Manuscript No.: IJAR-50483

Date: 28/2/2025

Title:

Title: Analysis of transcriptional activity of human Mucin5AC gene under the influence of *V.cholerae* GbpA protein.

Recommendation:

Accept as it is
 Accept after minor revision ✓

 Accept after major revision

Rating	Excel.	Good	Fair	Poor
Originality		Good		
Techn. Quality		Good		
Clarity	Excellent			
Significance	Excellent			

Reviewer Name: Dr. Sumathi

Date: 28/2/2025

Reviewer's Comment for Publication.

(To be published with the manuscript in the journal)

The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.

Vibrio cholerae is a comma- shaped , Gram- negative bacterium that causes cholera, a highly contagious diarrheal disease. It is a facultative human pathogen that lives in aquatic ecosystems.

Detailed Reviewer's Report

- 1. Vibrio cholerae is a facultative human pathogen that lives in aquatic systems, attaching to the shells of shellfish. Cholera is contracted by consuming contaminated food or water.**
- 2. While most people don't get sick, cholera can cause life threatening watery diarrhea and vomiting within hours.**

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- 3. Mucins are high molecular weight multifunctional glycoproteins comprised of two structural classes. The large transmembrane mucins and the gel-forming or secreted mucins.**
- 4. The primary function of mucins is to protect and lubricate the luminal surfaces of epithelium lined ducts in the human body.**
- 5. A luciferase reporter assay is a molecular biology technique that uses luciferase enzymes to measure gene activity and regulate gene expression.**
- 6. It is a common method for studying gene function in cell based assays.**
- 7. N- acetylglucosamine is a sugar that plays a role in many biological systems. It is a component of cell surfaces, the polymer chitin, and hyaluronic acid.**
- 8. Informations are given good and significant points.**
- 9. Flow charts of review points can be given.**
- 10. Pictures and graphs are good.**
- 11. But it should be in order to align results, discussion and summary parts. It would be neat and good.**
- 12. References should be in alphabetical order.**