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## REVIEWER'S REPORT

Manuscript No.: IJAR-57098

Title: The Gut–Microbiota–Brain Axis in Neurodegenerative Disorders: Molecular Mechanisms, Immune Interactions, and Therapeutic Opportunities

### Recommendation:

- Accept as it is .....
- ✓ Accept after minor revision.....**
- Accept after major revision .....
- Do not accept (*Reasons below*) .....

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

Reviewer Name: Dr S. K. Nath

### *Detailed Reviewer's Report*

#### **Strength of the study**

- Covers a very relevant and emerging topic in neurodegenerative research
- Provides detailed explanation of molecular mechanisms and pathways
- Well structured with clear section division from microbiota to neurodegeneration
- Includes multiple aspects such as immune response, metabolism, and signaling pathways
- Good attempt to integrate recent literature and references
- Discusses therapeutic approaches including probiotics and microbiota based therapies
- Comprehensive content covering both basic science and clinical relevance

#### **Weakness of the study**

- No clear methodology for literature selection or review process
- Language and grammar errors present throughout the manuscript
- Some sentences are very long and difficult to follow
- Repetition of similar concepts across sections
- Figures or diagrams are lacking which could improve clarity
- Referencing style is inconsistent in some places
- Lacks critical analysis and mostly descriptive
- No clear mention of limitations in a structured manner

#### **Reviewers Comments**

The manuscript presents a comprehensive overview of the gut microbiota brain axis and its role in neurodegenerative disorders, which is a highly relevant and rapidly evolving field. The content is detailed and covers multiple mechanisms including immune signaling, intestinal barrier function, and neuroinflammation, as described across pages 3 to 10. The discussion on therapeutic approaches such as probiotics, diet, and microbiota based interventions is also informative. However, ethical clearance is not applicable for this type of review article, but a statement clarifying this should be included. The overall writing quality needs improvement, as there are several grammatical errors, awkward sentence structures, and overly long sentences that affect readability. The manuscript lacks a clear review methodology, which reduces its scientific strength. Much of the content is descriptive, with limited critical evaluation of existing studies. Some repetition is present across sections, and the inclusion of diagrams or summary figures would improve understanding. The authors should also clearly state the limitations of the review. Overall, the paper has good academic value but requires revision in language, structure, and critical analysis before publication.

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