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| Journal Name: | [**Journal of Advances in Microbiology**](https://journaljamb.com/index.php/JAMB) |
| Manuscript Number: | **Ms\_JAMB\_140021** |
| Title of the Manuscript: | **Exploring cereal by-products as a medium for microorganisms and human health: A comprehensive review** |
| Type of the Article | **Review Article** |

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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** (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.** | **The manuscript presents a sustainable biotechnological approach to valorize cereal by-products, addressing food security and circular bioeconomy in alignment with UN SDGs.**  **It evaluates herb–probiotic synergy through in vitro assays, compatibility tests, and clinical insights to assess antimicrobial efficacy, probiotic viability, and health benefits.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, the title is appropriate and clearly reflects the study objectives. |  |
| 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 informative but :**  **Highlight future research priorities such as fermentation optimization.** |  |
| Is the manuscript scientifically, correct? Please write here. | **The research is generally robust, but requires enhancements in the following areas:**   1. **Reorganization of Section 2**    * Add a missing subsection (2.4: *Oat By‑Products*).    * Expand underdeveloped subsections 2.2 (*Wheat*) and 2.5 (*Barley*) for greater depth. 2. **Strengthen Critical Analysis**    * Discuss variability in by‑product composition, risks of contamination, and barriers to industrial scale‑up.    * Include quantitative comparisons of microbial growth in these by‑products versus conventional culture media. 3. **Enhance Data Presentation**    * Incorporate summary tables detailing nutritional composition and microbial efficacy data, where feasible. 4. A linguistic review is required. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Yes, the references are generally appropriate. |  |
| Is the language/English quality of the article suitable for scholarly communications? | Overall acceptable, but requires a thorough linguistic review to correct grammatical. |  |
| Optional/General comments |  |  |

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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:**

**Hala Ezzat Mostafa EL-Kewawy, Mansoura University, Egypt**