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REVIEWER'S REPORT

Manuscript No.: IJAR-57745

Title: Natural Immunomodulators as Alternatives to Antimicrobials: Evidence from Zebrafish Models

- 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:

- The review addresses the globally important issue of antimicrobial resistance and alternative therapies
- The manuscript provides a broad overview of plant, animal, and microbe derived immunomodulators
- Zebrafish as an experimental model is explained clearly and appropriately
- The article includes recent and relevant scientific references supporting the discussion
- The review highlights sustainable and environmentally friendly therapeutic approaches for infection management

Weakness of the study:

- The manuscript is largely descriptive with limited critical evaluation of cited studies
- Several grammatical errors and formatting inconsistencies affect overall readability
- Ethical declaration and conflict of interest statements are not clearly provided
- Some sections contain repetitive explanations and lengthy descriptions of similar mechanisms
- Comparative discussion regarding limitations and clinical translation of zebrafish findings is insufficient

Reviewers Comments:

The manuscript presents a timely and informative review on natural immunomodulators as potential alternatives to conventional antimicrobial therapies using zebrafish models. The topic is highly relevant considering the increasing global concern regarding antimicrobial resistance. The authors have summarized a wide range of plant, animal, and microbe derived compounds with immunomodulatory, antioxidant, and anti-inflammatory properties. The use of zebrafish as an experimental model has been explained well, and the review is supported with recent scientific references. The manuscript is generally organized in a logical sequence and provides useful educational value for researchers working in immunology, microbiology, and aquaculture. However, the review remains mainly descriptive and lacks deeper critical analysis of the available evidence. Grammar, formatting, and sentence construction require improvement in several sections for better readability. Ethical declaration, funding details, and conflict of interest statements should also be included clearly. Overall, the manuscript is informative and relevant but requires moderate revision before publication.

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Previously Published anywhere/Plagiarism check:

There is no obvious indication that this manuscript has been published previously. The article appears to be an original review compiled from multiple scientific studies related to immunomodulators and zebrafish research. However, plagiarism screening using standard similarity detection software is recommended to ensure originality and to identify any unintentional overlap with previously published review articles or online sources.