

Name:	UTTAR PRADESH JOURNAL OF ZOOLOGY
Manuscript Number:	Ms_UPJOZ_4585
Title of the Manuscript:	"Immunostimulatory Effect Of Betal Leaf Extract On Labeo Catla And Its Resistance Against Aeromonas hydrophila"
Type of the Article	

General guidelines for the Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

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PART 1: Comments

	Reviewer's comment	Author's Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
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 is significant for the scientific community as it highlights the potential of betel leaf extract as a natural immunostimulant in aquaculture, promoting sustainable and eco-friendly fish farming practices. By demonstrating its effectiveness in enhancing the immune response, growth performance, and disease resistance in Labeo catla, this study offers a promising alternative to conventional antibiotics and synthetic chemicals, addressing concerns over antimicrobial resistance. Additionally, the findings contribute to the growing body of research on plant-based additives in aquaculture, paving the way for further exploration of herbal extracts in improving aquaculture productivity and sustainability. This research has practical implications for aquaculturists, policymakers, and researchers seeking innovative solutions for sustainable fish farming.	

	This manuscript effectively demonstrates the immunostimulatory potential of betel leaf extract in aquaculture, providing crucial insights into its benefits for Labeo catla. However, certain areas require improvement for clarity and impact. Specifically, the abstract should better emphasize using betel leaf extract as an alternative to antibiotics in fish farming, highlighting its eco-friendly and sustainable nature.	
Is the title of the article suitable? (If not please suggest an alternative title)	The current title, “IMMUNOSTIMULATORY EFFECT OF BETEL LEAF EXTRACT ON Labeo catla AND ITS RESISTANCE AGAINST Aeromonas hydrophila,” is good and interesting. The current title, “IMMUNOSTIMULATORY EFFECT OF BETEL LEAF EXTRACT ON Labeo catla AND ITS RESISTANCE AGAINST Aeromonas hydrophila,” is appropriate, engaging, and accurately reflects the core focus of the research. It effectively communicates the key aspects of the study, including the use of betel leaf extract, its immunostimulatory effects, and its application in combating Aeromonas hydrophila.	
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 comprehensive. The methodology should clarify if the feed was directly supplemented with the extract or underwent additional processing. Including statistical significance for the observed improvements (e.g., SGR, FCR, survival rate) would enhance clarity. Finally, redundant mentions of the survival rate in T4 could be streamlined for a more concise and impactful summary. The abstract is comprehensive but requires improvements for better clarity and impact. The methodology needs clarification regarding whether the feed was directly supplemented with the extract or underwent additional processing.	
Is the manuscript scientifically correct? Please write here.	The manuscript appears scientifically accurate based on the abstract provided. The experiment is well-structured, employing a completely randomized design (CRD) with appropriate controls and replication. Key parameters such as specific growth rate (SGR), feed conversion ratio (FCR), immunological parameters, and disease resistance were assessed, providing robust data to support the conclusions.	
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	The study seems well-grounded in aquaculture and immunology.	

Is the language/English quality of the article suitable for scholarly communications?	The language and English quality of the article, generally clear and suitable for scholarly communication. The scientific terms are appropriate, and the structure effectively conveys the research objectives, methodology, and results. The language quality of the manuscript is generally appropriate for scholarly communication. However, some improvements can be made to enhance clarity and readability. The manuscript should be streamlined by removing redundant phrases, especially those that repeat the survival rate for T4. Transitions between sections could be improved to ensure a smoother flow of ideas. Additionally, ensuring all technical terms, such as TEC and TLC, are adequately explained will help in enhancing the manuscript's accessibility to a broader audience. Finally, a careful proofreading to identify and correct any grammatical or typographical errors is recommended. All suggested changes have been made and highlighted in the manuscript for easy reference.	
<u>Optional/General</u> comments	This study makes an important contribution to sustainable aquaculture practices by demonstrating the potential of betel leaf extract as a natural immunostimulant in Labeo catla to enhance resistance against Aeromonas hydrophila.	

PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Aminah
Department, University & Country	University of Lambung Mangkurat, Indonesia

