

Subject: **SUBMISSION OF A NEW MANUSCRIPT FOR EVALUATION**

I am enclosing herewith a manuscript entitled “**EVALUASI TOKSISITAS AKUT, SUB AKUT, DAN HISTOLOGI DARI INSEKTISIDA *Lambda cyhalothrin* PADA IKAN PATIN *Pangasianodon hypophthalmus***” submitted to **JURNAL RISET AKUAKULTUR** for possible evaluation.

With the submission of this manuscript, I would like to confirm that the above-mentioned manuscript has not been published elsewhere, accepted for publication elsewhere or under editorial review for publication elsewhere; and that my Institute’s **IPB University** representative is fully aware of this submission.

Select Type of Submitted manuscript: **Original Article**

For the Editorial Committee, I would like to disclose the following information about the project leading to this manuscript:

The research project was conducted under the supervision of: **Moh Burhanuddin mahmud, Yuni puji hastuti, Eddy supriyono, Kukuh Nirmala, and Wildan nurussalam**

This research project was conducted from August 2021 to October 2021.

Details of each author with their contribution in this paper:

Name of the author and e-mail ID	Types of contribution
Moh Burhanuddin mahmud Burhanuddinmahmud96@gmail.com	performed the experiment, analyzed the data, and wrote the original manuscript;
Yuni puji hastuti yuniha@apps.ipb.ac.id	designed the study, analyzed the data, and wrote the original manuscript;
Eddy supriyono eddysupriyonoipb@gmail.com	designed the study, analyzed the data, and wrote the manuscript
Kukuh nirmala kukuhni25@gmail.com	designed the study, analyzed the data, and reviewed and edited the manuscript
Wildan nurussalam Wildan0501@apps.ipb.ac.id	designed the study, analyzed the data, and wrote the manuscript.

I would also like to share the following information with the Editor-in-Chief:

With this letter and my manuscript, I submit my original article to the jurnal riset akuakultur. I really hope to contribute to this journal and get the opportunity to publish in this journal. Thank you for your attention.

I have the following similar manuscripts already published from this project:

- Supendi A, Supriyono E, Nirmala K, hastuti YP, Budiardi T, Sukenda. (2024). Site feasibility study for *Anguilla bicolor bicolor* holding ponds. BIO Web of Conferences. 112. 10.1051/bioconf/202411201002.
- Hastuti YP, Nurussalam W, Supriyono E, Hutomo N, Lesmana D. (2024). Application of calcium carbonate (CaCO_3) at different time intervals on the growth of freshwater lobster (*Cherax quadricarinatus*). JURNAL MINA SAINS. 10. 1-10. 10.30997/jmss.v10i1.10567.
- Hastuti YP, Siregar A, Fatma Y, Supriyono E. (2023). Application of a nitrifying bacterium *Pseudomonas* sp. HIB_D to reduce nitrogen waste in the *Litopenaeus vannamei* cultivation environment. Aquaculture International. 31. 1-17. 10.1007/s10499-023-01123-6.
- hastuti, YP., Fatma, YS., Tridesianti, S. (2023). Assessment of Bacterial Community Profile in the Rearing Pond Environment and the Intestinal Tract of Pacific White Shrimp *Litopenaeus vannamei* in Lampung Province, Indonesia. Trends in Sciences 20 (1), 3418-3418.
- E Prasetyono, K Nirmala, E Supriyono, YP Hastuti (2022). Analysis of environmental quality, production performance and economic feasibility of *Anadara granosa* cultivation in Sukal, Bangka Belitung Province. Aquaculture, Aquarium, Conservation & Legislation 15 (6), 2881-2891
- YP Hastuti, M Saifuddin, E Supriyono, W Nurussalam, D Lesmana (2022). Aplikasi Kulit Labu *Curcubitaeae* Sp. Sebagai Sumber Stimulasi untuk Proses Nitrifikasi dan Denitrifikasi di Lingkungan Budidaya Udang Vaname (*Litopenaeus Vannamei*). JURNAL MINA SAINS 8 (2)
- A Munandar, E Supriyono, K Nirmala, YP Hastuti, SAP Dwiono (2022) The effect of different salinity levels on the production performance and physiological response of juvenile gold-mouth snail *Turbo chrysostomus* Linnaeus, 1758. Aquaculture, Aquarium, Conservation & Legislation 15 (5), 2299-2309
- hastuti YP, Mahmud MB, Fatma YS, Affandi R, Nirmala K. (2022). effect of the use of

For a quick understanding of the importance of the research, the following are the significant findings of my submitted article?

- Lambda cyhalothrin insecticide belongs to the pyrethroid class with strong toxicity to striped catfish with an LC_{50-96} hour value of $5.2 \mu\text{gL}^{-1}$.
- Indications of insecticidal effects are shown in slow growth of fish, high glucose values.
- cell damage in gill, intestine and liver organs of $2.6 \mu\text{gL}^{-1}$ treatment.

How the findings of this research work are unique?

We found the negative impact of using pyrethroid insecticides made from Lambda cyhalothrin on catfish and the aquaculture environment can be anticipated by knowing their quantitative toxicity..