

LETTER OF ACCEPTANCE

January 25th, 2020

Dear **Gunanti Mahasri**

We are pleased to inform that the following paper :

ID #	Authors	Title
20756	Cintia Larasati ¹ , Gunanti Mahasri ^{2*} , dan Kusnoto ³	Korelasi Kualitas Air Terhadap Prevalensi Ektoparasit pada Ikan Nila (<i>Oreochromis niloticus</i>) di Keramba Jaring Apung Program <i>Urban Farming</i> Kota Surabaya, Jawa Timur Correlation of Water Quality Against Prevalence of Ectoparasites in Tilapia (<i>Oreochromis niloticus</i>) in the Floating Net Cages Urban Farming Program in Surabaya, East Java

has been **ACCEPTED** in our journal and will be published in **Journal of Marine and Coastal Science Volume 9 No. 1 February 2020**

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Kindest Regards,



Dr. Eng. Patmawati, S.Pi., M.Si.
Chief Editor - Journal of Marine and Coastal Science

Correlation of Water Quality Against Prevalence of Ectoparasites in Tilapia (*Oreochromis niloticus*) in the Floating Net Cages Urban Farming Program in Surabaya, East Java

 <https://doi.org/10.20473/jmcs.v9i1.20756>

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ABSTRACT

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The main obstacle to the cultivation of tilapia (*Oreochromis niloticus*) in the KJA Urban Farming Program in Surabaya is unstable water quality. This is because the reservoirs and bozem used are waters whose water quality depends on the water source so that if the environment experiences a decrease in water quality, the activity of disease agents such as parasites will increase and the health condition of fish will decrease. This condition allows fish to be more susceptible to ectoparasite infestations. This study aims to determine the correlation of water quality with the prevalence of ectoparasites in tilapia in the KJA Urban Farming Program in Surabaya. The method used is a survey method. The results of measurements of water quality parameters indicate that the temperature ranges between 29-30°C, pH 7-8.5, brightness 18-30 cm, dissolved oxygen 4.8-5.3 mg / l, nitrite <0.043-2.213 mg / l, nitrate <0.008-7.781 mg / l and ammonia 0.063-0.35 mg / l. The results of the average prevalence of *Trichodina* ectoparasites were 73.85% and *Dactylogyrus* ectoparasites were 2.85%. There is a positive correlation between temperature, pH, nitrate, nitrite with the prevalence of *Trichodina*, and temperature, pH, and nitrate with the prevalence of *Dactylogyrus*. There is a negative correlation between brightness, dissolved oxygen and ammonia with the prevalence of *Trichodina*, and brightness, nitrite, dissolved oxygen, and ammonia with the prevalence of *Dactylogyrus*.

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