



**IJOTA** Indonesian Journal of  
Tropical Aquatic



**ISSN : 2622-4836 (online)**  
**ISSN : 2721-1657 (print)**  
**Volume 2, Nomor 1, February 2019**

**IJOTA (Indonesian Journal of Tropical Aquatic)** is a scientific journal that discusses the results of research in science, technology, and marine fisheries. It is important to agree the standards of ethical behavior for all of the participant in this published journal includes the author, the journal editor, the peer review, and also the publisher. Department of Aquaculture, University of Muhammadiyah Malang as the publisher of this Journal, takes its duties of guardianship over all stages of publishing extremely seriously and we recognize our ethical and other responsibilities. We are committed to ensuring that advertising, reprint or additional commercial revenue has no impact or influence on editorial decisions. In addition, the Department of Fisheries, University of Muhammadiyah Malang and Editorial Board will assist in communications with other journals and/or publishers where this is useful and necessary.

### Editorial Team

#### Editor-in Chief

[Hany Handajani](#), Scopus ID: 57202255348; Department of Fisheries, University of Muhammadiyah Malang, Indonesia

#### Managing Editors

1. [Hariyadi Hariyadi](#), Scopus ID: 57203629481; Department of Fisheries, University of Muhammadiyah Malang, Indonesia
2. [Dony Prasetyo](#), Department of Fisheries, University of Muhammadiyah Malang, Indonesia

#### Editors

1. [David Hermawan](#), Scopus ID: 57203917871; Department of Fisheries, University of Muhammadiyah Malang, Indonesia
2. [Soni Andriawan](#), University of Muhammadiyah Malang, Indonesia
3. [Anis Zubaidah](#), Scopus id: 57196435302; Department of Fisheries, University of Muhammadiyah Malang, Indonesia
4. [Ima Yudha Perwira](#), Scopus ID: 57191585233; Department of Aquatic Resources Management, Udayana University, Indonesia
5. [Waode Munaeni](#), Scopus ID: 57206845951; Aquaculture Department, University of Halu Oleo, Indonesia

#### Reviewers

1. [Atika Marisa Halim](#), Polytechnic Marine and Fisheries of Jembrana, Indonesia
2. [Ferdinand Hukama Taqwa](#), Scopus ID: 57203269267; Department of Fisheries, University of Sriwijaya, Indonesia
3. [Ganjar Adhywirawan Sutarjo](#), Department of Fisheries, University of Muhammadiyah Malang, Indonesia
4. [Lusi Herawati Suryaningrum](#), Research Centre of Freshwater Aquaculture and Fisheries Extension, Indonesia
5. [Marlina Achmad](#), Aquaculture Department, University of Hasanuddin, Makassar, Indonesia
6. [Riza Rahman Hakim](#), Department of Fisheries, University of Muhammadiyah Malang, Indonesia
7. [Sinung Rahardjo](#), Scopus ID: 57201203294; Fisheries University of Jakarta, Indonesia
8. [Wahyu Pamungkas Soengkawati](#), Research Institute for Fish Breeding, Sukamandi, Indonesia



**TABLE OF CONTENT**

Effectiveness of strychnine bush extract (*Strychnos ligustrina* Blume) against to prevalence and survival rate of Dumbo catfish (*Clarias gariepinus*) infected with *Aeromonas hydrophila*.  
Anis Zubaidah, Sri Samsundari, Hidayaturrahmi Hidayaturrahmi ..... 1

The reproductive cycle of *Puntius binotatus* on the middle of the raining season.  
Tholibah Mujtahidah, Marsoedi Marsoedi, Maheno Sri Widodo ..... 9

The influence of difference temperature against the rate of embryonic development and larval abnormality of Cantik Grouper (*Epinephelus* sp.).  
Aprisianus Julkarman Simbolon, Ganjar Adhywirawan Sutarjo, Hariyadi Hariyadi..... 16

Simple storage of sperm cells using combination of coconut and glycerol water towards motility and viability of Koi sperm (*Cyprinus carpio*).  
Agista Tsani Untsa, Ganjar Adhywirawan Sutarjo, Riza Rahman Hakim..... 25

Masculinization of Rainbow Fish (*Melanotaenia boesemani*) through immersion the larvae with extract of Bee Honey Resin as a natural substance with different doses.  
Ahmad Rusyda Hafidhi Albasa, Riza Rahman Hakim, Budi Setyono ..... 33

Growth performance of Wader Cakul juvenile (*Puntius binotatus*) with different stocking density.  
Dony Prasetyo, Anis Zubaidah, Vera Noviana..... 40

**Volume 2, Nomor 1, February 2019**