



## SURAT KETERANGAN

Nomor : 961/UN3.1.12/KP/2023

Yang bertanda tangan di bawah ini :

Nama : **Dr. Eng. Sapto Andriyono, S.Pi., MT.**  
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Pangkat / Golongan : Penata / III c  
Jabatan : Wakil Dekan III

Dengan ini menerangkan bahwa :

Nama : **Dr. Akhmad Taufiq Mukti, S.Pi., M.Si.**  
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Pangkat / Golongan : Pembina / IV a  
Jabatan : Lektor Kepala

Telah melaksanakan penelitian dengan judul sebagai berikut :

| No. | Judul Karya Ilmiah   | Tahun Pelaksanaan |
|-----|--|-------------------|
| 1.  | Distribution of dwarf snakehead <i>Channa gachua</i> Hamilton, 1822 (Teleostei, Channidae) on Brantas river basin, Indonesia   | 2019              |
| 2.  | Presence of the invasive Nile tilapia <i>Oreochromis niloticus</i> Linnaeus, 1758 (Perciformes, Cichlidae) in the Yamdena Island, Indonesia                              | 2019              |
| 3.  | Formaldehyde content in white shrimp after formalin soaking with different doses   | 2019              |
| 4.  | Studi awal: persentase penetasan dan performa pertumbuhan benih ikan clown ( <i>Amphiprion percula</i> )   | 2019              |
| 5.  | Teknik pembesaran ikan kerapu hibrida cantang ( <i>Epinephelus fuscoguttatus</i> × <i>Epinephelus lanceolatus</i> ) pada karamba jaring apung                            | 2019              |
| 6.  | Aplikasi teknologi <i>induce spawning</i> (TIS) pada pemijahan ikan air tawar dalam upaya peningkatan ketersediaan benih ikan di Kabupaten Kutai Barat, Kalimantan Timur | 2019              |
| 7.  | The different effects of heat shock duration and embryo age on embryonic development and hatching lengths of spotted barb ( <i>Puntius binotatus</i> ) fish              | 2019              |
| 8.  | Study of Pb heavy metal pollution level on tannin content of seaweed ( <i>Kappaphycus alvarezii</i> ) in Bluto and Talango sea waters, Sumenep, East Java                | 2020              |
| 9.  | Evaluation of probiotic-fermented feed addition and laser-firing to accelerate mature broodstocks and seed productions of African catfish ( <i>Clarias gariepinus</i> )  | 2020              |
| 10. | Metagenomic profiles of core and signature bacteria in the guts of white shrimp, <i>Litopenaeus vannamei</i> , with different growth rates                               | 2020              |
| 11. | The effect of stocking density on growth performance and water quality of the silver rasbora ( <i>Rasbora argyrotaenia</i> ) fry reared in plastic-lined pond            | 2020              |





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| 12. | Ectoparasite infestation and survival rate of Pacific white shrimp ( <i>Litopenaeus vannamei</i> ) that immunized with crude protein <i>Zoothamnium penaei</i> in intensive ponds            | 2020 |
| 13. | The administration of <i>Caulerpa racemosa</i> extract on total bacteria and survival rates of white shrimp ( <i>Litopenaeus vannamei</i> ) after infected by <i>Vibrio parahaemolyticus</i> | 2020 |
| 14. | Monitoring the occurrence of Zoea Syndrome (ZS) in pacific white shrimp ( <i>Litopenaeus vannamei</i> ) larval from several hatcheries in East Java, Indonesia                               | 2020 |
| 15. | The dominance and proportions of plankton in Pacific white shrimp ( <i>Litopenaeus vannamei</i> ) ponds cultivated with the intensive system in Bulukumba Regency, South Sulawesi, Indonesia | 2020 |
| 16. | A checklist of native freshwater fish from Brantas River, East Java, Indonesia   | 2021 |
| 17. | Three-dimensional (3D) modelling to determine the weight of massive corals in Gili Labak Island, Sumenep, Madura, East Java, Indonesia   | 2022 |

Adapun penelitian tersebut telah mengacu pada Pertimbangan Etik dari *American Fisheries Society* (AFS, 2014) berjudul "*Guidelines for the Use of Fishes in Research*" dan *Canadian Council on Animal Care* (CCAC, 2005) berjudul "*Guidelines on the Care and Use of Fish in Research, Teaching, and Testing*", sehingga penelitian tersebut tidak diperlukan **Uji Ethical Clearance** karena telah menggunakan hewan coba (ikan) yang minimal dan menghasilkan *output* yang sangat baik.

Demikian Surat Keterangan ini kami buat untuk dapat dipergunakan sebagai persyaratan pengusulan Jabatan Fungsional **Guru Besar** yang bersangkutan.

Surabaya, 1 April 2023

Wakil Dekan III



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