



SURAT KETERANGAN

Nomor : 961/UN3.1.12/KP/2023

Yang bertanda tangan di bawah ini :

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Pangkat / Golongan : Penata / III c
Jabatan : Wakil Dekan III

Dengan ini menerangkan bahwa :

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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 |

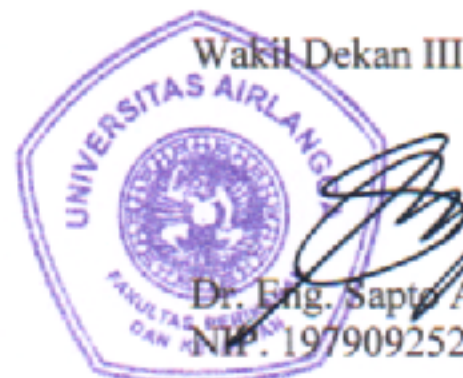


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| 12. | Ectoparasite infestation and survival rate of Pacific white shrimp (<i>Litopenaeus vannamei</i>) that immunized with crude protein <i>Zoothamnium penaei</i> in intensive ponds | 2020 |
| 13. | The administration of <i>Caulerpa racemosa</i> 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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