



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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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



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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