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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*  
**KARYA ILMIAH : JURNAL ILMIAH**

Judul Karya Ilmiah : **"The Optimization of the Tangguh Coastal Vilage Development Program as an effort to develop coastal areas "**

Jumlah Penulis : **5 Orang**

Status Pengusul : **Penulis Ke- 1**

Identitas Jurnal Ilmiah : a. Nama Jurnal : **AAFL Bioflux,**  
 b. Nomor ISSN : ISSN:1844-8143; E-ISSN:1844-9166;  
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<b>Total = (100%)</b>	<b>39</b>	<b>39</b>	<b>39</b>
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Reviewer 2



Prof. Dr. Yusriyadi, S.H.,M.S.  
 NIP. 195508261981031002  
 Unit kerja : Fakultas Hukum Undip

Semarang,

11 APR 2022

Reviewer 1



Prof. Dr. Retno Saraswati, SH.,M.Hum  
 NIP. 19671111993032002  
 Unit kerja : Fakultas Hukum Undip

NB: Koreksi dari Tim PAK Universitas -> Nilai berubah menjadi 60%x25=15

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# The optimization of the tangguh coastal village development program as an effort to develop coastal areas

 Wisnaeni F.<sup>a</sup> , Indarja<sup>a</sup> , Hardjanto U.S.<sup>a</sup> , Hananto U.D.<sup>a</sup> , Yohana M.<sup>a</sup> 
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<sup>a</sup> Faculty of Law, Universitas Diponegoro, Jalan Prof Soedarto, S.H, 01 Tembalang, Semarang, Indonesia

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This study explores the optimization of the Tangguh Coastal Village Development Program to improve coastal areas. Empirical legal studies and normative law investigation are employed as methods in this study. The investigation stage consists of a) preparation; b) data acquisition; c) field survey; and d) classification of potentials and problems. The results prove that synergy can be achieved if the Tangguh Coastal Village Development Program and its communities are supported by various sectors, governments, and other related agencies. Based on the principle standards in judging villages to be categorized in Tangguh Coastal Village Development Program, Mangkang Kulon Village is proposed to execute arrangements concerning opportunity developments in the strategic economic areas (in villages, industries, trades, and offices areas) and vulnerable economic areas (low economic potential). Such anticipatory steps are expected to accommodate growth equalization and accelerate community economic development on the seashore. © 2020, BIOFLUX SRL. All rights reserved.

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Coastal community; Economic areas; Mangkang Kulon; Village development

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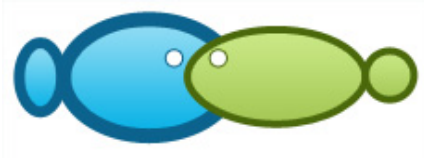
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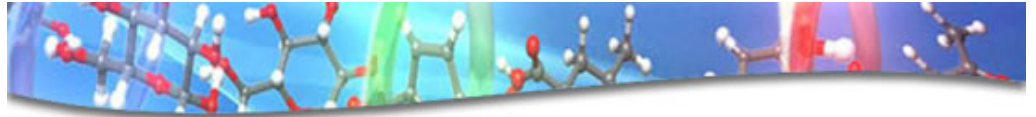
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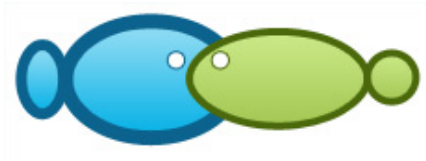


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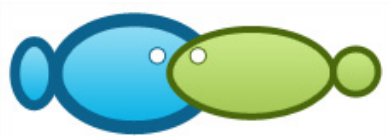
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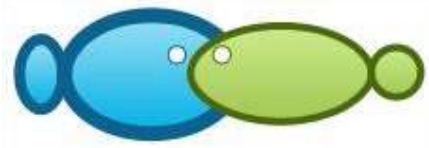
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## The optimization of the Tangguh Coastal Village Development Program as an effort to develop coastal areas

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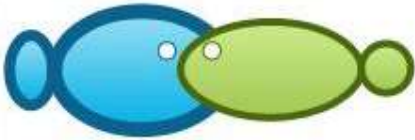
**Abstract.** This study explores the optimization of the Tangguh Coastal Village Development Program to improve coastal areas. Empirical legal studies and normative law investigation are employed as methods in this study. The investigation stage consists of a) preparation; b) data acquisition; c) field survey; and d) classification of potentials and problems. The results prove that synergy can be achieved if the Tangguh Coastal Village Development Program and its communities are supported by various sectors, governments, and other related agencies. Based on the principle standards in judging villages to be categorized in Tangguh Coastal Village Development Program, Mangkang Kulon Village is proposed to execute arrangements concerning opportunity developments in the strategic economic areas (in villages, industries, trades, and offices areas) and vulnerable economic areas (low economic potential). Such anticipatory steps are expected to accommodate growth equalization and accelerate community economic development on the seashore.

**Key Words:** coastal community, economic areas, Mangkang Kulon, village development.

**Introduction.** Perceiving the evidence that Indonesia's sea area is far more extensive than land (McIlgorm & Campbell 2018), Indonesia has enormous potential in the fisheries and marine sectors. Such great possibilities should be optimally utilized to improve the community's welfare, especially for people in coastal areas. Unfortunately, coastal communities can only benefit from 20% of the existing potential (Folber 2020). The low level of communal absorption to the coastal resources is linked to the revealing situation that most Indonesian coastal communities still grapple against poverty, defend lives over coastal threats, have low independence in village organizations, and struggle due to poor coastal infrastructure. The above four problems nonetheless exacerbate the vulnerability of village society to natural disasters and climate change.

According to Rudiarto et al (2018), the top main problems faced by Indonesian coastal communities are (1) the high level of poverty, shown by the number of poverty in 10,639 coastal villages covering 7 million people in 2010; (2) severe damage to coastal resources; (3) low autonomy of village organizations in addition to the degradation of local wisdom; (4) the shortage of village infrastructure; and (5) the feeble well-being of the home environment. Such problems also weaken the status of coastal communities against natural disasters and climate change. Consequently, through the Directorate General of the Management of Coastal Areas and Small Islands, the Ministry of Marine Affairs and Fisheries (2017) launched an innovative program called the Tangguh Coastal Village Development Programs to offer new hope for better coastal villages in Indonesia.

With a coastline of 36.63 km and strategically located at the center point of the Java Island's North Coast route, Semarang City is a potential area for industrial, trade, and service activities (Giyarsih & Marfai 2017). The advancement of Semarang City as a capital city heading to a metropolitan one is characterized by the increasing population density in its coastal area.



# Shotgun sequencing analysis of a metagenome library derived fosmid clone from bacterial community associated with toxic dinoflagellate *Alexandrium tamiyavanichii*

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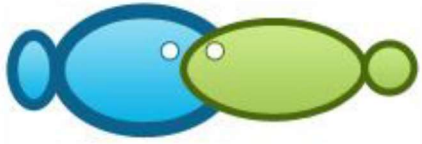
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**Abstract.** Cultures of dinoflagellates, one of the most important harmful algae group, often contain a considerable population of bacteria probably carried over during isolation of cells for culture. At present, the precise nature of the association of bacteria with dinoflagellates in culture is still remained unclear. Lately, metagenomics has been widely used to elucidate the microbial diversity and functions in nature environment as well as a tool to discover new genes and new natural products. In this study, we attempt to fully sequence and analyse a metagenome library-derived fosmid clone previously constructed from bacterial community associated with toxic dinoflagellate *Alexandrium tamiyavanichii*, in order to provide insights into the potential functional role of the dinoflagellate-associated bacteria at the genomic level. The DNA insert contains ~32.9 Kbp in size with an estimated G+C content of 59.57%. Twenty-six ORFs were predicted of which 7 were involved in metabolic processes, 7 were involved in cellular processes and signaling, 1 was involved in information storage and processing, 3 were multifunctional or general function prediction only and 8 were function unknown or no match in Genbank. One ORF was probably a novel gene since it had no match to published sequences. Other genes detected include those coding for glyoxalase I, endotoxin biosynthesis and LuxR family of transcriptional regulator. Overall, our results revealed the potential mechanism used by the bacteria as its survival, colonization and adaptation strategy coexisted in the dinoflagellate phycosphere. This study has also showed that dinoflagellate-associated bacteria community is a valuable source for discovery of novel bacteria species and novel genes and gene products.

**Key Words:** HAB-species, microbial community, metagenomics analysis, genes discovery.

**Introduction.** Over the past few decades, much of human activity such as rapid development in the agricultural sector, waste and sewage disposal activities, rapid coastal development and increasing use of fossil fuels have increased the rate of discharge of nitrogen, phosphorus and other nutrients into marine ecosystems through rivers, groundwater and the atmosphere. In the sea, these nutrients promote the reproduction of algae. When the concentration of the nutrient reaches too high, it will cause excessive growth of algae that lead to the phenomenon called harmful algal bloom (HAB red tide) (Zohdi & Abbaspour 2019). The effects of HAB can be felt by the entire coastal ecosystem including the impact on human health, food supply and recreational activities either directly or indirectly (Bechemin et al 1999; Willis et al 2018). Economic losses due to these events, while difficult to ascertain, could also be substantial.

Some HAB species can produce toxins. The toxins can cause seafood poisoning in human if intoxicated. Paralytic shellfish poisoning (PSP) is one of the notable HAB-associated seafood poisoning. The dinoflagellate from the genus of *Alexandrium* was the first dinoflagellate associated with PSP when 6 people died and causing 102 people to fall



## Population biology of *Butis koilomatodon* in the Mekong Delta

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**Abstract.** A one-year study was conducted to assess the population of *Butis koilomatodon*, a target fish for food supply, based on a total of 1227 specimens (891 males and 336 females). The sample were collected from Tra Vinh to Ca Mau provinces, Mekong Delta, Vietnam. The ELEFAN I procedure and the model of Beverton & Holt about yield-per-recruit were used to analyze the fish population's biological parameters. Data analysis results showed that males outnumbered females in the population structure, with a sex ratio of 2.65:1. There were 4 classes of length frequency, with the highest values between 5-6 cm and 9-10 cm (accounting for 1204 fish, 98.13% out of the total number of samples). The von Bertalanffy curve of the goby showed a total length ( $L_{\infty}$ ) value of 9.99 ( $1 - e^{-0.94(t+0.3)}$ ). The value of the longevity was 3.19 years, and the index of growth performance was 1.97. The total, natural, and fishing mortalities of the fish population were 2.91 year<sup>-1</sup>, 2.37 year<sup>-1</sup>, and 0.542 year<sup>-1</sup>, respectively. The indices of relative yield and biomass of *B. koilomatodon* recruits were  $E_{\max}=0.421$ ,  $E_{0.1}=0.355$ , and  $E_{0.5}=0.278$ . As the exploitation rate ( $E=0.19$ ) was lower than  $E_{0.5}$ , the fish stock was not overexploited. Overall, the fish stock has the potential for exploitation, and this mud sleeper goby could be a potential candidate for artificial aquaculture due to the high growth coefficient.

**Key Words:** exploitation rate, length-frequency, mortality, mud sleeper, sex ratio.

**Introduction.** The mud sleeper *Butis koilomatodon* (Bleeker, 1849) is a benthic and sedentary fish. It eats mostly crustaceans and small fish (<https://www.fishbase.se/>). *B. koilomatodon* is well adapted to the variations of water temperatures between 26 and 36°C and a salinity ranging from 3.8‰ to 37‰ (Miller et al 1989; Contente et al 2016). Thus, they are frequently found in the lower course of rivers, estuaries, and mangrove creeks (<https://www.fishbase.se/>). *B. koilomatodon* plays a critical intermediate unit in the food chain, feeding on crustaceans and small native fishes (Corrêa & Uieda 2007; Macieira et al 2012) or becoming food for larger predators. It is also considered as a food with high commercial and nutritional values. Although this gobiid fish is the most dominant fish in mangrove estuaries of the Indo-Pacific region (Robertson & Duke 1987; Blaber & Milton 1990), there is little information about population biology, especially in the Mekong Delta. Some of the main parameters of population biology were used to assess the population situation. For example, there was a close relationship between the exploitation rate from the yield-per-recruit analysis and the control catch in exploitive areas (Al-Husaini et al 2002). The fish population biology could be evaluated by growth parameters and mortality rates (Amezcuca et al 2006). The growth and asymptotic length relationship affects the variations of fish growth rate between gender and location (Pauly & Munro 1984). Contextually, this study had two aims: primarily, to describe the mean length of maturation and gather data on the population structure of *B. koilomatodon*