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Strengthening the social security of the indonesian fishermen

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Abstract

This study aims to explore efforts in strengthening social security for Indonesian fishers prone to high-risk work accidents through the Indonesian National Insurance and Health Security scheme or commonly known as Badan Penyelenggara Jaminan Sosial (BPJS). This research employed a normative legal method by adopting types of legal studies that emphasize legal references. Data gathered by collecting primary and secondary sources from previous research were analyzed synthetically afterward. The results show that the exercises to strengthen fishermen's social security in Indonesia are carried out partially in several regions. Viewing fishers as non-wage workers, they mostly do not receive labor insurance/BPJS Ketenagakerjaan. Since formal/salaried employees are registered in four BPJS Ketenagakerjaan programs: Work Accident Security/Jaminan Kecelakaan Kerja (JKK), Dead Security/Jaminan Kematian (JKM), Old Age Security/Jaminan Hari Tua (JHT), and Pension Insurance/Jaminan Pensiun (JP), a scheme helping fishers receive complete social security through Indonesia's BPJS needs to strive. © 2020, BIOFLUX SRL. All rights reserved.

Author keywords

BPJS; Indonesian fishers; Insurance; Social security

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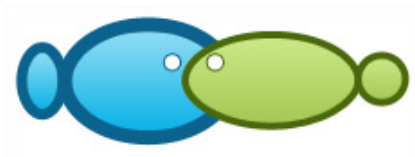
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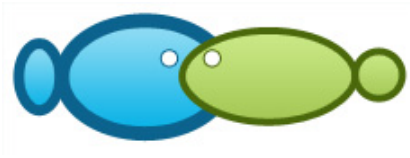
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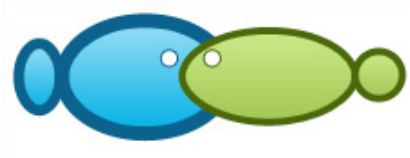
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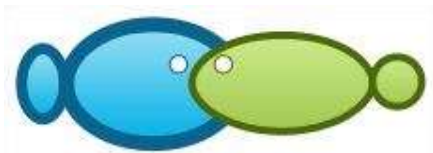
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Strengthening the social security of the Indonesian fishermen

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Abstract. This study aims to explore efforts in strengthening social security for Indonesian fishers prone to high-risk work accidents through the Indonesian National Insurance and Health Security scheme or commonly known as *Badan Penyelenggara Jaminan Sosial (BPJS)*. This research employed a normative legal method by adopting types of legal studies that emphasize legal references. Data gathered by collecting primary and secondary sources from previous research were analyzed synthetically afterward. The results show that the exercises to strengthen fishermen's social security in Indonesia are carried out partially in several regions. Viewing fishers as non-wage workers, they mostly do not receive labor insurance/*BPJS Ketenagakerjaan*. Since formal/salaried employees are registered in four *BPJS Ketenagakerjaan* programs: Work Accident Security/*Jaminan Kecelakaan Kerja (JKK)*, Dead Security/*Jaminan Kematian (JKM)*, Old Age Security/*Jaminan Hari Tua (JHT)*, and Pension Insurance/*Jaminan Pensiun (JP)*, a scheme helping fishers receive complete social security through Indonesia's *BPJS* needs to strive.

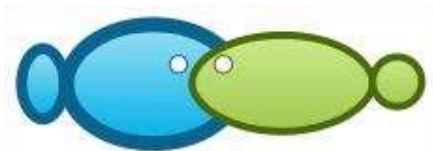
Keywords: *BPJS*, Indonesian fishers, social security, insurance.

Introduction. The establishment of the social security program is one of the country's commitments in providing socio-economic protection for the community welfare, and this responsibility is offered to create clean and civilized social justice for all Indonesians (Alexandra 2012; Mboi 2015; Berenschot et al 2018).

Apart from being mandated in *Pancasila* (foundational philosophical theory of Indonesia), the commitment to establish a social security program was also designated in Article 28 H and Article 34 of the 1945 Constitution of the Republic of Indonesia. The state constitution stated that "the country is required to provide support for all Indonesians' social protection and welfare". Based on juridical and philosophical perspectives, the country is obliged to protect its citizens through social security. Social security provided by the government helps the community in the economic aspect. Initially, several institutions managed by State-Owned Enterprises/*Badan Usaha Milik Negara (BUMN)* have dealt with social security concerns: PT. Jamsostek, PT. Taspen, PT. Asabri, and PT. Askes (Habibie et al 2017).

But then, at the 2001 Annual Meeting of the Republic of Indonesia, MPR Decree No. X/MPR/2001 concerning Reports on Decree's Implementation appointed the President to establish a National Social Security System. The national security system is proposed to provide comprehensive and integrated social protection based on Indonesia's fisheries laws.

The commitment to provide social security is depicted in the following laws and regulations, as shown in Figure 1. From Figure 1, it can be understood that the stipulation of social security for fishers certainly has the potential to be achieved. Social security is a guarantee by the country to create a just and prosperous society. In early 2011, Law No. 24/2011 concerning the Social Security Administrative Body, Article 5 paragraph 1, stated that social security providers must be established with a law foundation. That designation became the framework for establishing the Indonesian



Isolation and characterization of potential microalgae strains from Moroccan coasts for their utilization as feed in shellfish hatcheries

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Abstract. Six local microalgal strains, recommended for nutritional programs in aquaculture, have been isolated along the Moroccan coasts. These strains were selected and characterized according to their size, growth performance and nutritional profile in terms of lipid, fatty acid and protein composition. The results of this study have shown an important growth performance of these strains under optimal conditions. The highest growth rate was observed for *Chaetoceros* sp. (0.80 d^{-1}) and the lowest one for *Nannochloropsis* sp. (0.20 d^{-1}). The average size and biovolume of the strains range from 2.57 to 12.83 (μm) and from 8.87 to 480.53 (μm^3) respectively, which appears to be suitable for nutrition purposes in shellfish practices. Biochemical analysis provided a clear insight into the important nutritional profile of the local strains with high richness in terms of lipids and proteins content respectively (26 to 57% and 14 to 34%). Polyunsaturated fatty acids are consistently the phenotypic footprints for mariculture potential of microalgae. Eight components of polyunsaturated fatty acids were detected in this study where α -linolenic acid and eicosapentaenoic acid were communly encountered in the majority of strains. Thus, the microalgae isolated in this work, can be used alone or as part of a mixed diet in nutrition programs inside shellfish hatcheries.

Key Words: microalgae, isolation, growth kinetics, biochemical composition, shellfish nutrition, shellfish Hatcheries.

Introduction. Microalgae are a fast growing organisms with an exceptional metabolic plasticity (Rastoin & Kelly 2016; Zachleder et al 2016) that allows them to synthesize substances with high value-added. These organisms represent an interesting field for reserach and new promising bio-resource in several applications (Richmond 2003; Levine 2018). In aquaculture, these organisms can be used as main food for bivalve molluscs throughout their life cycle (Muller-Feuga et al 2007). For crustaceans and some fish species, microalgae are generally used either to feed larval stages or indirectly during zooplankton production (Muller-Feuga et al 2007; Richmond 2003). In shellfish farming, the production of microalgae is one of the key elements inside the hatchery and represent almost 40% of the overall cost of spat production (Helm et al 2006). In general, microalgae constitute a basic diet for bivalves which cannot be easily substituted by artificial diets (Støttrup & Mcevoy 2008). Since the amount of microalgae is low in natural seawaters, their cultivation is getting more crucial and required in hatcheries to optimize bivalve feeding process. Moreover, water treatment removes natural