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

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Jumlah Penulis : **6 Orang**

Status Pengusul : **Penulis ke- 2**

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Semarang, Juni 2021

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Prof. Dr. Lazarus Tri Setyawanta, SH.,M.Hum  
 NIP 196205151987031001  
 Unit kerja : Fakultas Hukum Undip

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Prof. Dr. Rahayu, SH.,M.Hum  
 NIP. 1962205051986032001  
 Unif kerja : Fakultas Hukum Undip

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NIP. 1962205051986032001  
Unit kerja : Fakultas Hukum Undip

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Semarang, Juni 2021

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Prof. Dr. Lazarus Tri Setyawanta, SH.,M.Hum  
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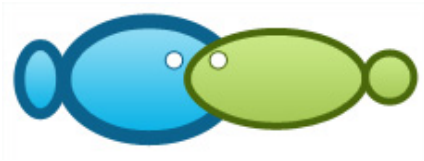
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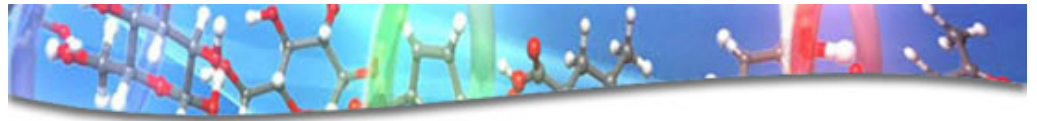
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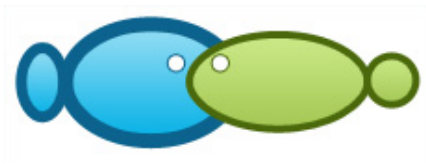


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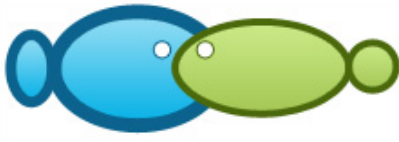
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**Sjafrie N. D. M., Oktaviyani S., Kurniawan W., 2020 Domestic utilization of shark and ray: An example from Muncar Subdistrict, Banyuwangi Regency, East Java Province, Indonesia. AACL Bioflux 13(6):3309-3321.**

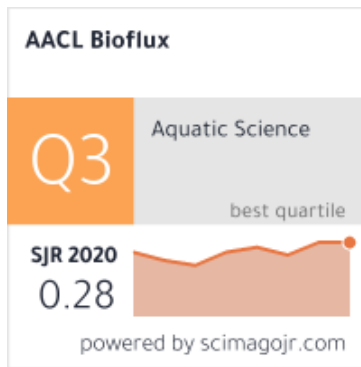
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**Macale A. B., Candelaria A. P., Dioneda Sr. R. R., 2020 Catch and fishing effort statistics of fisheries in Albay Gulf, Philippines. AACL Bioflux 13(6):3330-3337.**

**Nugraha E., Despriawan Q., Jaenudin A., Suharto, Kusmedy B., Syamsudin S., Kusdinar A., Sutisna D. H., Sudrajat D., Purwanto Y., 2020 Comparison of Gilltong Sweeping Methods in South Sorong Waters, West Papua, Indonesia. AACL Bioflux 13(6):3338-3347.**

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- Volume 11(4)/2018 (August, 30)
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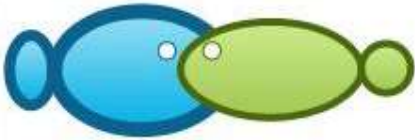
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## Strengthening the social security of the Indonesian fishermen

<sup>1</sup>Muhamad Azhar, <sup>1</sup>Fifiana Wisnaeni, <sup>1</sup>Solechan, <sup>2</sup>Putut Suharso, <sup>1</sup>Joko Setyono, <sup>1</sup>Siti M. Badriyah

<sup>1</sup> Faculty of Law, Universitas Diponegoro, Semarang, Indonesia; <sup>2</sup> Faculty of Humanities, Universitas Diponegoro, Semarang, Indonesia. Corresponding author: M. Azhar, azhar@live.undip.ac.id

**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.

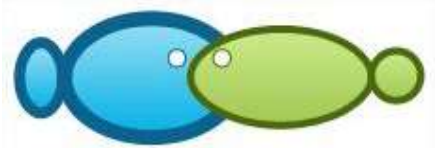
**Keywords:** *BPJS*, Indonesian fishers, social security, insurance.

**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



## Fatty acid composition of individual polar lipids extracted from the brown seaweed *Padina australis*

<sup>1</sup>Muhammad I. Illijas, <sup>1</sup>Nur R. Arma, <sup>2</sup>Herlina Rante, <sup>1</sup>Luqman Saleh, <sup>3</sup>Yutaka Itabashi

<sup>1</sup> Department of Aquaculture, Pangkep State Polytechnic of Agriculture, Pangkajene Kepulauan, Indonesia; <sup>2</sup> Department of Pharmacy, Hasanuddin University, Makassar, Indonesia; <sup>3</sup> Faculty of Fisheries Sciences, Hokkaido University, Hakodate, Japan.  
Corresponding author: M. I. Illijas, muhammadikbali@yahoo.com

**Abstract.** A study on fatty acid compositions of individual polar lipids extracted from the brown seaweed *Padina australis* collected from Saugi Island of Pangkep District Indonesia has been conducted. Total lipids were extracted from the seaweed using chemical solvents of  $\text{CHCl}_3/\text{MeOH}$  (2:1). The glycerolipid and phospholipid compounds were isolated from the total lipids using Thin-Layer Chromatography (TLC) with a mobile phase of  $\text{CHCl}_3/\text{MeOH}/\text{H}_2\text{O}/\text{EtOAc}/\text{IPA}$  (5:2:1:5:5). TLC conducted further purification of SQDG with a mobile phase of  $\text{CHCl}_3/\text{Acetone}/\text{MeOH}/\text{H}_2\text{O}/\text{HOAc}$  (10:6:2:1:2). The purified glycerolipids and phospholipids were then converted to methyl esters using 10% HCl in MeOH. The esterified glycerolipids and phospholipids were purified by silica column with eluted by solvents of hexane/diethyl ether (85:15 by vol). Analysis of the fatty acid methyl esters was carried out using a Shimadzu GC-14A gas chromatograph (Shimadzu) equipped with an Omegawax 320 column (30 m x 0.32 mm i.d., Supelco, PA, USA). The results showed that the dominant fatty acids found from the total lipid were the saturated fatty acids, palmitic acid (29.18 wt%), and arachidonic acid (23.10 wt%), whereas the dominant fatty acid found from free fatty acid fraction are palmitic acid (39.90 wt%) and oleic acid (21.3 wt%). The fatty acid compositions of individual polar lipids showed relatively similar except for MGDG and PC, which accounted for high amounts of oleic acid (21.62 wt%) and arachidonic acid (23.10 wt%), respectively. The seaweed could be a natural source of essential fatty acid, especially MGDG and PC extracts for food supplement for human health.

**Key Words:** glycerolipids, phospholipids, MGDG, GC.

**Introduction.** The fatty acid composition of brown seaweed is commonly rich in polyunsaturated fatty acids, such as arachidonic acid (AA) and eicosapentaenoic acid (EPA), which link to glycolipids, the major components of membrane lipids and phospholipids. Those fatty acids are commonly located at *sn*-1 and *sn*-2 positions of the glycolipids and phospholipids of the seaweed. The position of fatty acids in neutral lipids affects the fatty acid digestion and absorption in the metabolism of the human body (Innis 2011). *sn*-2 fatty acids are more digestible than the others, *sn*-1 and *sn*-3 positions. For example, human milk fat (HMF) is rich in palmitic acid (70%) in the *sn*-2 position of triacylglycerol structure. This unique structure gives advantages to infants, such as an increase in digestion and absorption of fatty acids (Takeuchi 2010).

The brown seaweed *Padina australis* is abundantly found attached to the sand bottom substrate of coastal areas of Indonesia. Unlike the red seaweed *Kappaphycus alvarezii*, the brown seaweed *P. australis* and other species have not been developed their cultivation, although the seaweed cultivation has successfully been tried in Seram Island, Indonesia. Several potentials of the seaweed, especially antioxidant activity, antibacterial and antiviral from polysaccharide compounds have been reported (Karmakar et al 2010; Jaswir et al 2014; Mohsin et al 2014). However, analysis of the detailed fatty acid composition of individual neutral lipids from the seaweed has not been studied well. So, in the present study, the fatty acid composition of individual glycolipids, such as monogalactosyldiacylglycerol (MGDG), digalactosyldiacylglycerol (DGDG) and