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**2019**

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**The 3rd EMBRIO International Workshop on Marine Biodiversity: Understanding, Utilization, Conservation 9–10 October 2018, Bogor, Indonesia**

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## Preface

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## Papers

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Min-DNA barcode as molecular marker for heavily processed farmed fish products authentication

A Abdullah, M Nurilmala, A M Jacob and K P Sitaresmi

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012002

Utilization of belimbing wuluh (*Averrhoa bilimbi*) to reduce urea levels from shark (*Carcharhinus* sp.) meat in shredded processing

R Adawyah, I K Khotimah, F Puspitasari and H Rahmawati

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Analysis of turbulent mixing in the Eastern Path of Indonesian Throughflow

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Comparison between the wage and profit-sharing systems to the portion of fishermen in fishing business in Kulon Progo Regency

C P Adi, E B S Haryani, K Iswantono and L Soeprijadi

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Yield-per-recruit modeling as biological reference points to provide fisheries management of Leopard Coral Grouper (*Plectropomus leopardus*) in Saleh Bay, West Nusa Tenggara

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In vivo sub chronic toxicity evaluation of the methanol extract of *Meretrix meretrix* Linnaeus in *Sprague dawley* rats

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The effects of planting distances and seedling sources on *Kappaphycus alvarezii* growth

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Seasonal variation of the upper-layer seawater properties in the Banda Sea: observed from an autonomous CTD Argo float

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Squid attractor: an appropriate technology for empowering fishing communities

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Isolation and identification of bacteria with antimicrobial activities from green algae (*Halimeda discoidea*) from Pulau Lima, Banten Bay, Indonesia

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Governability of marine protected areas: The effect of trade-offs, hybrid patterns, and policy implications in Cenderawasih Bay National Park, Indonesia

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Use of *Sargassum polycystum* ethanol extract as antibacterial for increasing shelf life tilapia fillet (*Oreochromis niloticus*) stored in chilling temperature

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Amino acid profile of biologically processed fish protein hydrolysate (FPH) using local enzyme to combat stunting

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Spatial and seasonal variation of mangrove litter production in Bitung, Indonesia

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A potential inefficiency management: Kaizen application in the fillet processing of frozen demersal fish at PT. X Makassar-South Sulawesi

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Using internal transcribed spacers 2 (ITS2) to identify seaweed species from Tomini Bay and Banten Bay

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Liquid smoke inhibits growth of pathogenic and histamine forming bacteria on skipjack fillets

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Fish community structure at the Bogowonto River Estuary of Kulon Progo Regency

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Tyrosinase inhibitory activity of *Sargassum plagyophyllum* and *Eucheuma cottonii* methanol extracts

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Dietary exposure assessment and risk characterization of lead based on lead contaminant research (online) in Indonesia and Indonesian Individual Food Consumption Survey (IFCS)

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Overall equipment effectiveness (OEE) analysis to improve the effectiveness of vannamei (*Litopenaeus vannamei*) shrimp freezing machine performance at PT. XY, Situbondo-East Java

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Reproductive biology and broodstock maintenance of seahorse *Hippocampus comes* as a prospect aquaculture commodity

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Implementation kaizen method for reducing losses percentage of octopus frozen processing at PT. XYZ Makassar

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Biodiversity of fish resources in Sungsang Estuaries of South Sumatra

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Antifungal activity of chitosan oligomer prepared using chitosanase of *Aeromonas media* KLU 11.16

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Effect of various planting distances on growth and carrageenan yield of *Kappaphycus alvarezii* (doty) using seedlings produced from mass selection combined with tissue-cultured method

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The potency of green algae *Chaetomorpha crassa* Agardh as antioxidant agent from the coastal of Lhok Bubon, West Aceh

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Environmental characteristics of mangrove forest as a reference for development of mud Crab *Scylla serrata* cultivation: A case study in Mojo Village, Ulujami, Pemalang

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Improving the survival rate of land hermit crabs (*Coenobita rugosus*) through artificial habitat design

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Characteristics and performance of biofilms on the electrode of bioelectrical systems within industrial wastewater in fisheries

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Size distribution and sex ratio of scalloped hammerhead shark (*Sphyrna lewini*) in Banda Aceh fisheries

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Quality of dried seaweed *Kappaphycus alvarezii* with traditional drying methods from North Gorontalo

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Antioxidant and antifungal activities of collagen hydrolysates from skin of milkfish (*Chanos chanos*) hydrolyzed using various *bacillus* proteases

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DNA barcoding of sea turtles (Dermochelyidae and Cheloniidae) and its protocol using different tissues quality: implication to conservation managers

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Different species, life form, and complexity of dead coral head affect the species diversity and density of decapods

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Quantifying vulnerability of sharks and rays species in Indonesia: Is biological knowledge sufficient enough for the assessment?

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Moisture sorption isotherm of natural condiment cube made from juice water of *katsuobushi* plant, coated with edible coating and stored at ambient temperature

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Catch handling evaluation of longtail tuna (*Thunnus tonggol*) by sensory evaluation and gap assessment in Pekalongan Archipelagic Fishing Port

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Extraction and characterization of sodium alginates from *Sargassum polycystum* for manufacturing of tuna (*Thunnus* sp.) meatballs

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Application of refined carrageenan (RC) in the non-gluten crispy fish seaweed product processing

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DNA-barcoding as molecular marker for seafood forensics: Species identification of locally consumed shark fish products in the world's largest shark fishery

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Carbon storage in seagrass meadow of Teluk Bakau – Bintan Island

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Influence of salt addition and freezing-thawing on particle size and zeta potential of nano-chitosan

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Characterization of Trimethylamin-N-Oxide Demethylase (TMAOase) of Lizardfish from Indonesian Waters

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Molecular marker based on 16S rRNA gene for seahorse (*Hippocampus* spp.) from Bintan Island-Indonesia

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Utilization of seaweed porridge *Sargassum* sp. and *Eucheuma cottonii* as cosmetic in protecting skin

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Model of Total Suspended Solid (TSS) distribution due to coastal mining in Western Coast of Kundur Island part of Berhala Strait

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The elasticity of mangrove ecosystem services in the Jor Bay, Indonesia

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The spatial pattern relationship between SST and chlorophyll-a in *Lemuru* Bleeker, 1853 catches in Bali Strait, Indonesia

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Trophic structure of reef fishes and relationship of corallivore fishes with hard coral in Kepulauan Seribu, Jakarta

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Oxygen consumption of *Mugil cephalus* on several temperatures under brackish water conditions

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Formulation of sunscreen cream from *Eucheuma cottonii* and *Kaempferia galanga* (zingiberaceae)

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Combination effects human chorionic gonadotropin hormon and ovaprim distribution on the time latency, percentage of fertilization, hatching and survival of silver pompano (*Trachinotus blochii*) larve fish

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Interannual variability of Indonesian throughflow in the Flores Sea

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Endophytic microbes and antioxidant activities of secondary metabolites from mangroves *Avicennia marina* and *Xylocarpus granatum*

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The optimum light colour and intensity of light emitting diodes for catching yellowstripe scads (*Selaroides leptolepis*) using fixed liftnet

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Small scale capture fisheries sustainability analysis using emergy (embodied energy) approach

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Assessing the potential of coastal ecosystems to develop marine tourism in Pramuka Island, the Kepulauan Seribu National Park, Jakarta, Indonesia

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Phytochemical constituents and antidiabetic activity of edible marine red seaweed (*Halymenia durvillae*)

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Catch abundance and fishing season from vulnerable and endangered Elasmobranch species in Tanjung Luar Fishery

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Seaweed extract (*Sargassum polycystum*) as a preservative on sunscreen cream with the addition of seaweed porridge

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Development of observing dolphin population method using Small Vertical Take-off and Landing (VTOL) Unmanned Aerial System (AUV)

B Subhan, D Arafat, P Santoso, K Pahlevi, B Prabowo, M Taufik, B S Kusumo, K Awak, D Khaerudi, H Ohoiulun *et al*

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Antibacterial activity of the symbiotic bacteria of green algae *Caulerpa racemosa* from Pulau Lima Indonesia

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Flavor characteristics and quality of mackerel (*Scromberomorus commersonii*) "otak-otak" affected by various liquid smoke addition methods

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Preparation and characterization of semi-refined carrageenan from *Kappaphycus alvarezii* seaweed bleached by Peracetic Acid

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Protein profiles and DNA isolation of hemolymph gonggong snail (*Strombus* sp.) from Bintan

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Upper circulation in Bone Bay and its relation to biogeochemical distribution: from observation and model

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Phytochemical profile of sea grass extract (*Enhalus acoroides*): A new marine source from Ekas Bay, East Lombok

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Influence of management status on the coral reef fish communities in Ujung Kulon National Park, Banten

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The use of portable fish aggregating devices for pelagic fish in Sunda Strait Water, Indonesia

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