

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

Judul Jurnal Ilmiah (Artikel) : The effect of culture media on the number and bioactivity of marine invertebrates associated fungi

Jumlah Penulis : 12 orang

Status Pengusul : Penulis Ketua

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Journal of Biodiversitas
- b. Nomor ISSN : 2085-4722
- c. Volume, nomor, bulan tahun : vol 21 no 1 tahun 2020
- d. Penerbit : Society for Indonesian Biodiversity
- e. DOI artikel (jika ada) : DOI: 10.13057/biodiv/d210147
- f. Alamat web jurnal :

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Semarang, 10 Januari 2022
Reviewer 1



Prof. Dr. Ir. Slamet Budi Prayitno, M.Sc
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Prof. Ir. Tri Winarni A., M.Sc., Ph.D

NIP. 196508211990012001

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The effect of culture media on the number and bioactivity of marine invertebrates associated fungi (Article) [\(Open Access\)](#)

Trianto, A.^{a,b}, Radjasa, O.K.^{a,c}, Sibero, M.T.^{a,d}, Sabdono, A.^{a,c}, Haryanti, D.W.I.^a, Zilullah, W.O.M.^a, Syanindyta, A.R.^a, Bahry, M.S.^b, Widiananto, P.A.^c, Helmi, M.^e, Armono, H.D.^f, Supriadi^g, Igarashi, Y.^h

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Abstract

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Marine ecosystem is rich with microorganisms such as bacteria and fungi either as free-living or in association with macro-organisms. Marine invertebrates provide suitable habitats for fungi by supplying space, food, and other chemicals stuff that in some cases is a reciprocal relationship or called mutualism symbiotic. Some marine invertebrates have interesting activities that are useful for human life such as anticancer, antifungal, and antibacterial. Many reports indicated that the fungal growth and their production of bioactive compounds were highly affected by the media or nutrition. In order to understand the effect of media on the number and bioactivity of the isolates, we collected the samples of marine invertebrates from two locations in Makassar. Invertebrate specimens were collected by hand during SCUBA diving at 3-10 m depths. The fungi were isolated by tapping method either on potato dextrose agar (PDA) or poor marine agar (PMA). The samples were collected from the Samalona water as much as 16 specimens that provided 30 and 18 fungal isolates on PDA and PMA, respectively, while, from the Barrang Cadi water, a total 14 specimens were collected to provide 12 and 3 isolates on PDA and PMA, respectively. All fungi from PMA inhibited the *V. harveyi*, *V. vulnificus*, and *V. parahaemolyticus* with weak, medium, and strong activities, while, the isolates from PDA were mostly not active against the *Vibrios*. Based on the molecular analyses, the active isolates were identified as *Aspergillus flavus*, *A. oryzae*, *A. aculeatus*, *Talaromyces minioluteus*, *Hypocrea jecorina*, *Gliomastix murorum*, *Myrothecium inundatum*, and *Curvularia avinis*. In conclusion, the isolates from PMA showed higher potential as source of antivibrio substances. © 2020, Society for Indonesian Biodiversity. All rights reserved.

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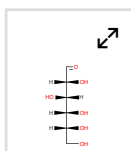
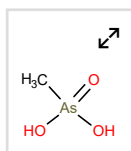
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
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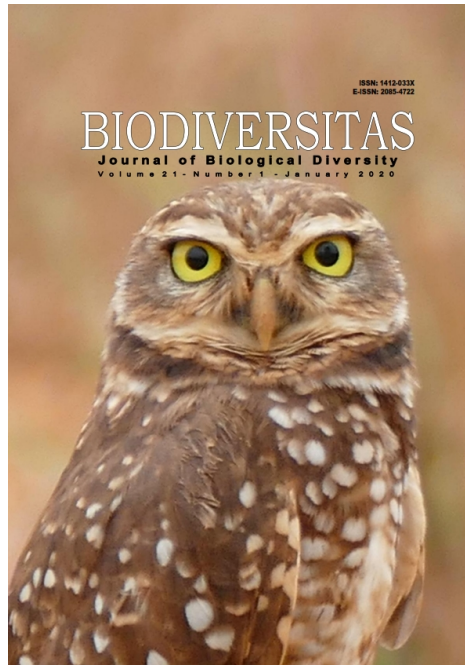
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