**LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW**

**KARYA ILMIAH : JURNAL ILMIAH C4.**

Judul Jurnal Ilmiah (Artikel) : *Bacterial symbionts of acroporid corals: Antipathogenic potency against Black Band Disease*

Jumlah Penulis : 5 orang

Status Pengusul : Penulis pertama/ penulis ke-5/ penulis korespondensi

Identitas Jurnal Ilmiah :
- a. Nama Jurnal : **BIODIVERSITAS**
- b. Nomor ISSN : 1412-033X
- c. Vol, No., Bln Thn : 19, 4, Juli 2018
- d. Penerbit : Biology Departement of Sebelas Maret University, Surakarta.
- e. DOI artikel (jika ada) : 10.13057/biodiv/d190408
- h. Terindex : Scopus/Scimago/SJR=0,2 (2017) dan Q4

Kategori Publikasi Jurnal Ilmiah (beri √ pada kategori yang tepat)
- Jurnal Ilmiah Internasional
- Jurnal Ilmiah Nasional Terakreditasi
- Jurnal Ilmiah Nasional Tidak Terakreditasi

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Unit Kerja : FPIK UNDIP
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Unit kerja : FPIK UNDIP
Judul Jurnal Ilmiah (Artikel) : Bacterial symbionts of acroporid corals: Antipathogenic potency against Black Band Disease
Jumlah Penulis : 5 orang
Status Pengusul : penulis pertama/utama
Identitas Jurnal Ilmiah : 
  a. Nama Jurnal : BIODIVERSITAS
  b. Nomor ISSN : 1412-033X
  c. Volume, nomor, bulan tahun : 19, 4, Juli 2018
  d. Penerbit : Biology department, Sebelas Maret University Surakarta
  e. DOI artikel (jika ada) : DOI: 10.13057/biodiv/d190408
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- Simplicity 17% ; 0.6 ; (15% discussion) kedalaman kesimpulan

Semarang, 09 Nov 2008
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Prof. Dr. Ir. Slamet Budi Prayitno, M.Sc
NIP. 1955 0628 19815031005
Unit kerja : FPIK, Undip
Bacterial symbionts of acroporid corals: Antipathogenic potency against black band disease (Article) (Open Access)

Wijayanti, D.P.\textsuperscript{a} \quad Sabdono, A.\textsuperscript{a} \quad Widyantoro, P.A.\textsuperscript{a} \quad Dirgantara, D.\textsuperscript{a} \quad Hidaka, M.\textsuperscript{b}

\textsuperscript{a}Department of Marine Science, Faculty of Fisheries and Marine Sciences, Universitas Diponegoro, Jl. Prof. Soedarto, Tembalang, Semarang, Central Java 50275, Indonesia
\textsuperscript{b}Faculty of Science, University of the Ryukyus, 1- Senbaru, Nishihara-cho, Okinawa 903-0213, Japan

Abstract

Black Band Disease (BBD), an infectious coral disease which can cause a rapid decline of coral reefs, has appeared as a serious threat to many reefs around the world including Karimunjawa National Park, Java Sea. Although it had been studied for more than 30 years, control of disease remains obscure. In the present research coral symbiont bacteria having antipathogenic activity against Black Band bacterial associate were screened and characterized. Fourteen out of 87 bacteria isolates derived from healthy corals showed antagonism against the Black Band bacterial strains. The isolates were then re-examined using disc-diffusion method to confirm the initial observation. The C16 showed the strongest ability to inhibit BAFBBS, a bacterial strain associated with the BBD. Following the partial sequencing of 16S rDNA, the results indicated that the C16 isolate was closely related to Virgibacillus salarius strain SA-Vb1, while the BBD associate isolate has strong relation with Virgibacillus mariismorti. The results have shown that bacterial strains derived from healthy acroporid corals have potential to be used as a biocontrol agent against BBD. © 2018, Society for Indonesian Biodiversity. All rights reserved.

SciVal Topic Prominence

Topic: Anthozoa | Corals | Band disease
Prominence percentile: 97.426

Author keywords

Acropora \quad Antipathogenic activity \quad Black band disease \quad Karimunjawa \quad Virgibacillus

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Unusual black band disease (BBD) outbreak in the northern tip of the Gulf of Aqaba (Jordan)

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Bacillus marismortui sp. nov., a new moderately halophilic species from the Dead Sea

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doi: 10.1099/00207713-49-2-521

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Characterization of black band disease in Red Sea stony corals

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