LEMBAR HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW KARYA ILMIAH : Jurnal

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Jumlah Penulis	: 8 orang
Status Pengusul	: penulis Anggota
Identitas Jurnal Ilmiah	: a. Nama Jurnal : Peer J
	b. Nomor ISSN : -
	c. Volume, nomor, bulan tahun : Vol. 7 (2019)
	d. Penerbit :
	e. DOI artikel (jika ada) : <u>10.7717/peerj.8137</u>
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Comparative analysis of bacterial communities associated with healthy and diseased corals in the Indonesian sea (Article) (Open Access)

Mhuantong, W.ª, Nuryadi, H.^b, Trianto, A.^b, Sabdono, A.^b, Tangphatsornruang, S.^c, Eurwilaichitr, L.ª, Kanokratana, P.ª 図, Champreda, V.ª 오

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^aBiorefinery and Bioproduct Technology Research Group, National Center for Genetic Engineering and Biotechnology, Pathum Thani, Thailand

^bFaculty of Fisheries and Marine Science, Diponegoro University, Semarang, Indonesia

^cNational Omics Center, National Center for Genetic Engineering and Biotechnology, Pathum Thani, Thailand

Abstract

Coral reef ecosystems are impacted by climate change and human activities, such as increasing coastal development, overfishing, sewage and other pollutant discharge, and consequent eutrophication, which triggers increasing incidents of diseases and deterioration of corals worldwide. In this study, bacterial communities associated with four species of corals : Acropora aspera, Acropora formosa, Cyphastrea sp., and Isopora sp. in the healthy and disease stages with different diseases were compared using tagged 16S rRNA sequencing. In total, 59 bacterial phyla, 190 orders, and 307 genera were assigned in coral metagenomes where Proteobacteria and Firmicutes were predominated followed by Bacteroidetes together with Actinobacteria, Fusobacteria, and Lentisphaerae as minor taxa. Principal Coordinates Analysis (PCoA) showed separated clustering of bacterial diversity in healthy and infected groups for individual coral species. Fusibacter was found as the major bacterial genus across all corals . The lower number of Fusibacter was found in A. aspera infected with white band disease and Isopora sp. with white plaque disease, but marked increases of Vibrio and Acrobacter, respectively, were observed. This was in contrast to A. formosa infected by a black band and Cyphastrea sp. infected by yellow blotch diseases which showed an increasing abundance of Fusibacter but a decrease in WH1-8 bacteria. Overall, infection was shown to result in disturbance in the complexity and structure of the associated bacterial microbiomes which can be relevant to the pathogenicity of the microbes associated with infected corals . Copyright 2019 Mhuantong et al.

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