## Molecular Barcoding Reveals Possible Existence of Sympatric Species of *Emerita* emeritus in South Coast of Cilacap Central Java

Publons ID	(not set)
Wos ID	WOS:000656158000014
Doi	10.1088/1755-1315/593/1/012014
Title	Molecular Barcoding Reveals Possible Existence of Sympatric Species of <i>Emerita emeritus</i> in South Coast of Cilacap Central Java
First Author	
Last Author	
Authors	Nuryanto, A; Bhagawati, D; Rukayah, S; Rahayu, DRUS; Wibowo, DN;
Publish Date	2020
Journal Name	SOUTH-EAST ASIAN+ CONFERENCE ON BIODIVERSITY AND BIOTECHNOLOGY 2018
Citation	
Abstract	Cilacap Regency resides in the southern part of Central Java. It faces the Indian Ocean and has a quite long coastline with sandy beaches as the favorable habitats for mole crabs. Careful examinations on previously identified as Emerita emeritus samples from Cilacap, the mole crabs showed slight morphological differences to Emerita emeritus Linnaeus. We assume that our samples are sympatric species of E. emeritus complex rather than E. emeritus Boyko. A length of 560 bp fragments of the cytochrome oxidase 1 was sequenced. Homology test resulted in 83 - 86% sequences similarity to E. emeritus sequence available in GenBank (KR047035). Our samples also had high genetic distances (0.152 0.155) to the sequence of KR047035. The phylogenetic tree showed a clear separation between our samples and reference sequence (Emerita emeritus KR047035) with a quite long branch. Those all three kinds of data prove that our Emerita samples are most likely not belong to previously identified Emerita emeritus Boyko although it shows only slight morphological differences. These results indicate that possible cryptic species of Emerita emeritus or E. emeritus complex inhabits sandy beaches in Cilacap coast. It has been described that cryptic species are common in aquatic organisms. However, we need more samples to examine and strengthen our finding.
Publish Type	Book in series
Publish Year	2020
Page Begin	(not set)
Page End	(not set)
lssn	1755-1307
Eissn	
Url	https://www.webofscience.com/wos/woscc/full-record/WOS:000656158000014
Author	Dr AGUS NURYANTO, S.Si, M.Si