

عنوان مقاله:

Research Article: Genetic identification of *Penaeus vannamei* broodstocks in Hormozgan and Bushehr Provinces using COI mitochondrial gene

محل انتشار:

مجله علوم شیلات ایران، دوره 20، شماره 1 (سال: 1399)

تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

Given the role of *Penaeus vannamei* species in shrimp farming of Islamic Republic of Iran's economy (Bushehr and Hormozgan provinces), the proper management of brood stocks in order to reduce the inbreeding coefficient of mentioned species is unavoidable. Sampling has been conducted from two hatcheries in Hormozgan province and one hatchery in Bushehr Province produced post larvae. Total of ۱۸ samples were collected from three regions and used for genetic investigation. Seven haplotypes have been identified from the ۵۰۲ aligned sequence derived from the COI gene. Phylogeny study showed all samples from three stations showed one clade with two main clusters showed highly Homozygosity of Bushehr and Hormozgan hatcheries. In this study, the maximum amount of fixation (F_{st}) statistics was observed between Bushehr and Hormozgan samples with minimal gene flow. Also the minimum amount of F_{st} was recorded between both hatchery stations from Hormozgan province which had the highest gene flow. Thus, according to the results obtained from this project, any productive application of vannamei shrimp brood stocking for post larvae reproducing should be performed by consideration to genetic research and also genetic differentiation between imported brood stocks.

کلمات کلیدی:

Penaeus vannamei, West white shrimp, Cytochrome oxidase, Persian Gulf

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